

## PROJECT/PROGRAMME PROPOSAL TO THE ADAPTATION FUND

## PART I: PROJECT/PROGRAMME INFORMATION

Project/Programme Category: Project

Country/ies: Malawi

Title of Project/Programme: Adapting to Climate Change Through Integrated

Risk Management Strategies and Enhanced Market Opportunities for Resilient Food Security

and Livelihoods

Type of Implementing Entity: Multilateral Implementing Entity

Implementing Entity: World Food Programme (WFP)

Executing Entity/ies: Ministry of Agriculture, Irrigation and Water

Development (MoAIWD)

Amount of Financing Requested: USD \$9,989,335 (5 years)

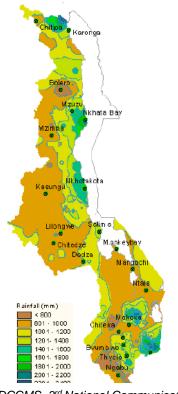
## **Project / Programme Background and Context:**

## 1. General Context

**Geography and Climate:** Malawi is a landlocked country in the Southern African region bordered by Zambia to the west, Mozambique to the southeast, and Tanzania to the northeast. The country has a total area of 118,484 square kilometers, of which 94,080 square kilometers are land and 24,404 are water<sup>1</sup>. Lake Malawi runs from north to south across the country with a considerable network of tributaries, which altogether account for the significant portion of water area in the country.

The terrain is also characterized by an elongated plateau, resulting in rolling plains, hills, and some mountains. This terrain creates microclimates, principally due to the variation in rainfall across locations, while the overarching climate is sub-tropical and influenced by the Inter Tropical Convergence Zone (ITCZ) and El Niño Southern Oscillation (ENSO)<sup>2</sup>. The lakeshore in the Northern and Central regions experiences the highest rainfall, typically occurring from December to May<sup>3</sup>. Central and Southern Malawi have a single rainy season from December to February.

As such, there are two characteristic climate patterns, specifically one for the North of the country and another for the Central and Southern regions. Accordingly, higher temperatures are experienced in the South compared to the North. Areas along the lake also experience cooler temperatures. Climate projections have shown that rainfall variability and temperatures are due to increase across the country, causing a disproportionate impact across geographies. The South, a particularly vulnerable context where food and income insecurity is highest, will be most affected<sup>4</sup>.



DCCMS, 3<sup>rd</sup> National Communication

### A. Economy and Poverty

Malawi is categorized as a least developed country (LDC) and was ranked 171 out of 189 countries on the 2018 Human Development Index (HDI)<sup>5</sup>. In this context, one in four people live in extreme poverty<sup>6</sup>. Malawi's economy largely depends on agriculture as a major foreign exchange earner, contributing 28% of the total Gross Domestic Product (GDP) as of 2016<sup>7</sup> (shown in graph below). As an agro-based economy, it is vulnerable to weather-related shocks, such as drought and floods, which significantly constrain economic

<sup>&</sup>lt;sup>1</sup> "The World Factbook Malawi." *Central Intelligence Agency*, Central Intelligence Agency, www.cia.gov/library/publications/the-world-factbook/geos/print\_mi.html.

<sup>&</sup>lt;sup>2</sup> "Climate Change Country Profiles." C. McSweeney, M. New, and G. Lizcano, UNDP, http://www.ungsp.org/sites/default/files/documents/malawi.oxford.report.pdf.

<sup>&</sup>lt;sup>3</sup> "A Detailed Rainfall Climatology for Malawi, Southern Africa." Nicholson, S. E., et al. Quarterly Journal of the Royal Meteorological Society, Wiley-Blackwell, 27 Feb. 2013, rmets.onlinelibrary.wiley.com/doi/full/10.1002/joc.3687.

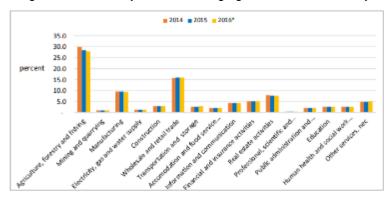
<sup>&</sup>lt;sup>4</sup> "Country Climate Brief Malawi", Future Climate For Africa, www.futureclimateafrica.org/resource/future-climate-projections-formalawi/.

<sup>&</sup>lt;sup>5</sup> UNDP. 2018. Human Development Report. <a href="http://hdr.undp.org/sites/all/themes/hdr\_theme/country-notes/MWI.pdf">http://hdr.undp.org/sites/all/themes/hdr\_theme/country-notes/MWI.pdf</a>. Accessed: 11 July 2019

<sup>&</sup>lt;sup>6</sup> "Malawi Country Profile", WFP Malawi, http://www1.wfp.org/countries/malawi

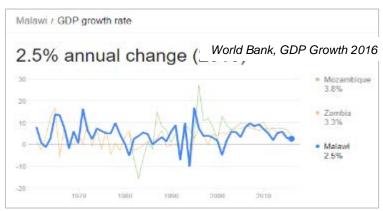
<sup>&</sup>lt;sup>7</sup> "Financial and Economic Review, Volume 50-Number 1-2016", Reserve Bank, https://www.rbm.mw/Home/GetContentFile/?ContentID=17535

performance. This has been the case in recent years due to recurring shock events. For example, GDP growth rate remained at 2.8% and 2.5% in 2015 and 2016, respectively<sup>8</sup>, due to shocks. Previously, the growth rate was much higher, as shown by the double-digit growth rate in the early 2000s.



Reserve Bank, Economic Review 2016

Against this backdrop of shocks and slowed GDP growth, Malawi's national poverty has marginally increased from 50.7% in 2010/11 to 51.5% in 2016/17<sup>9</sup>. Rural poverty has increased from 56.6% in 2010/11 to 59.5% in 2016/17<sup>10</sup>. The significant increase in rural poverty has been largely attributed to flood and drought events that Malawi experienced between 2010/11 to 2016/17. On the other hand, national ultra-poverty has declined from 24.5% in 2010/11 to 20.1% in 2016/17<sup>11</sup>. The significant decrease in ultra-poverty is largely attributed to the delivery of humanitarian assistance and different social protection programmes, such as the social cash transfer and public works programme, which Malawi rolled out in the same period. These were found to be instrumental in helping vulnerable households cope with the recurring shocks.



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<sup>&</sup>lt;sup>8</sup> "GDP Growth (Annual percent)." World Bank, data.worldbank.org/indicator/NY.GDP.MKTP.KD.ZG.

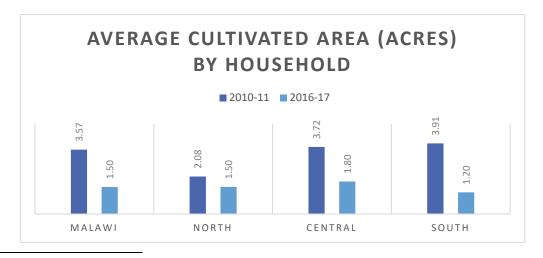
<sup>&</sup>lt;sup>9</sup> "Malawi Poverty Statistics, 2016/17", The National Statistics Office and the World Bank Group, http://microdata.worldbank.org/index.php/catalog/2939

<sup>10</sup> IBID 11 IBID

With an estimated population of 18 million people, efforts to reduce poverty have faced challenges due to several factors, including rapid population growth that erodes the marginal gains from economic growth <sup>12</sup>. Rapid population growth exerts pressure on land, leading to the depletion of natural resources due to overuse, deforestation, and overgrazing of land for subsistence farming. The high reliance on natural resources increases the country's vulnerability and susceptibility to the impacts of climate change. The country is experiencing more frequent extreme weather events, with floods in 2015 and a major El Niñorelated drought in the 2015-16 season. These extreme weather conditions create adverse humanitarian conditions and negatively impact the fragile economy, leading to an average loss of 1.7% of its GDP<sup>13</sup>.

### B. Agriculture and Food Security

The estimated total land under cultivation in Malawi is 2.5 million hectares 14. Of this, only about 116,000 hectares have been developed for irrigation. This represents about 28% of around 408,000 hectares of potential irrigable area in Malawi, according to the country's Irrigation Master Plan and Investment Framework. Therefore, most agriculture is rain-fed and dependent on weather patterns, making the sector highly vulnerable to the impacts of a changing climate. Irrigated and more productive systems that are focused on marketable commodities are found in the North. In contrast, smallholder and low input-output systems are concentrated in the South. Smallholders cultivate principally for subsistence purposes, focusing mainly on crops such as maize, the main staple grain, cassava and sweet potato. The estate sector, in the Central and Northern regions, focus on high-value cash crops for export, such as tobacco, tea, sugar, coffee and macadamia nuts<sup>15</sup>. Notably, the smallholder systems make up the bulk of agriculture, and thus the food system is largely characterized by restricted productivity, which has had negative ramifications on national food insecurity and malnutrition. The latest figures from 2016/17 show that the national prevalence of 'very low food security' increased from 32.5% to 61.4% since 2010/11<sup>16</sup>. Malnutrition is also highly prevalent, and 37% of children under the age of 5 are categorized as malnourished 17. In addition, wasting and micro-nutrient deficiencies (especially anemia) are also prevalent across the country. Average land hold size under cultivation is progressively decreasing, which further challenges food security and nutrition. The average



<sup>12</sup> International Monetary Fund (2017), Malawi Economic Development Document https://www.imf.org/~/media/Files/Publications/CR/2018/cr18115.ashx

<sup>13</sup> https://www.nyasatimes.com/malawi-losing-1-7-of-its-gdp-to-disaster-muhara/

<sup>14 &</sup>quot;National Agriculture Policy", Government of Malawi, http://extwprlegs1.fao.org/docs/pdf/mlw141073.pdf

<sup>&</sup>quot;Malawi Poverty Statistics, 2016/17", The National Statistics Office and the World Bank Group, http://microdata.worldbank.org/index.php/catalog/2939

<sup>&</sup>lt;sup>17 "</sup>Integrated Context Analysis 2014", WFp & Government of Malawi, http://www1.wfp.org/countries/malawi

size has reduced by two acres across the country between 2010/11 and 2016/17, with the biggest drop in the Southern region 18. In the same period, the number of households cultivating less than one acre of land has increased by more than 15% across the country 19 as the population rapidly grows and households divide their resources. This trend reflects a reduction in crop production and livestock production, which has decreased by 8% across the country during the same period<sup>20</sup>. Overall, agriculture, while key for the macro and micro-economy, is characterized by many challenges undermining the future of the sector and the country, with climate change and variability being a critical influencing factor.

### C. Gender, HIV/AIDS and Food Security

The UNDP 2017 Gender Inequality Index ranked Malawi 148 out of 160 countries, reflecting high levels of entrenched gender inequalities across all sectors, including education, health, governance, agriculture and food security<sup>21</sup>. Women and girls have limited access to and control over productive resources (such as land credit) and extension services, which erodes their capacity to adapt and cope with the impacts of climate change.

In Malawi, women play a key role in agriculture performing 50-70% of all agricultural tasks, including producing 70% of the food that is consumed locally<sup>22</sup>. Despite their massive labour contribution, women rarely have access to the benefits of production<sup>23</sup>, including the ability to make investment decisions. A study on the cost of the gender gap conducted by UN Women and the Government of Malawi estimates that, on average, female-managed plots are 25% less productive than those of their male counterparts. Femaleheaded households in Malawi have a lower land holding size (0.803 ha) than their male counterparts (1.031 ha) and account for only 14% of the recipients of extension services 24. All of this reduces women's capacity to attain food, income and nutrition security.

A Gender Assessment, commissioned for the Adaptation Fund project by the Government of Malawi and the World Food Programme (WFP), confirmed that a matrilineal landholding system is practiced across the three districts earmarked for the AF project, resulting in a majority of women land-owners. However, men exercise the actual control over the use of land and the proceeds from agricultural production, and they tend to be reluctant to invest in agriculture and adaptation of agricultural innovations because the land does not belong to them.

Women's agricultural productivity is constrained by less access to male labour, lower levels of education, less control over natural resources, and extra burdens of unpaid care work that further reduce availability of labour on their plots. These factors contribute to limiting women's knowledge of improved production practices, access to farm inputs and labour-saving technologies, and the ability to practice more labourintensive farming methods. These differences are noted to exacerbate women's vulnerability and erode their resilience to withstand impacts of climate change<sup>25</sup>.

Despite government efforts to empower youth (10-35 years) as set in the National Youth Policy, unemployment and underemployment remain a major challenge for development in Malawi. Youth comprise

<sup>18</sup> IBID

<sup>19</sup> IBID

<sup>&</sup>lt;sup>20</sup> IBID

<sup>&</sup>lt;sup>21</sup> UNDP: Human Development Indices and Indicators: 2018 Statistical Updatehttp://hdr.undp.org/sites/all/themes/hdr\_theme/countrynotes/MWI.pdf. Accessed 25.06.2019

UN Women et al, 2015: The Cost of Gender Gap in Agricultural Productivity in Malawi, Tanzania and Uganda. http://unpei.org/sites/default/files/publications/costing\_gender\_final\_eng\_0.pdf. Accessed 25.06.2019

<sup>&</sup>lt;sup>23</sup> WFP (2019). Gender, Environmental and Social Assessment Report. Case study.

<sup>&</sup>lt;sup>24</sup> Government of Malawi, 2015. Agriculture Sector Gender, HIV, and AIDS Strategy 2012-2017. Available here: http://reliefweb.int/sites/reliefweb.int/files/resources/Gender percent20HIV percent20and percent20AIDS percent20Strategy percent20Final.pdf
<sup>25</sup> WFP (2019). Gender, Environmental and Social Assessment Report. Case study.

over 40% of the country's population, and the most recent Labour Force Survey indicates that 21.7% of the nation's youth aged 15-24 are neither in employment, education or training, and approximately 27% of those with a job are underemployed. Through focus group discussions (FGDs) with the youth in the three districts, the assessment observed that single youth are particularly excluded and face a number of constraints that limit their access to and utilization of land for agricultural activities. Sociocultural norms of the society in the three districts include exclusion and discrimination based on gender, age and other factors, which excludes youth from many programmes and opportunities, including agriculture-related trainings, capacity building, technology transfer, and micro-credit.

Another constraint to climate adaptation is the unequal access between men, women and youth to climate information. Women tend to prefer face- to-face interactions with extension workers and lead farmers due to their lower levels of education and literacy, and limited access to income opportunities, technology, and assets. Conversely, men and youth use radios, cell phones, internet, television, and newspapers as means to receive climate information.

Evidence shows that food gaps in female-headed households are more frequent and prolonged when shocks occur because women have limited access to and control over the assets needed to cope and adapt due to widespread gender-based inequality<sup>26</sup>. "The Cost of the Gender Gap in Agriculture" states that if these negative trends were to be reversed, Malawi could augment crop production by 7.3%, increase its GDP by USD 100 million, and lift 238,000 people out of poverty<sup>27</sup>. Looking ahead, the current demographics are making it harder to achieve these goals. With 47.96% of the population aged of 15 and 54, and only 5.7% above the age of 55, it is expected that population growth will only continue to increase in the upcoming years<sup>28</sup>. This trend has and continues to place a considerable burden on women, who have an average of 4.5 children<sup>29</sup>.

Lastly, the severe HIV/AIDS epidemic in Malawi and the close link between gender and HIV/AID further constrains women's agricultural productivity and ability to meet their food and nutrition needs. While the transmission rate of HIV/AIDS has decreased considerably, 10.2% of the population are affected, with women considerably overrepresented in this statistic with prevalence rates among sexually active adults relatively higher among females at 12.9% than males at 8.1%30. This is because transmission is driven by cohabiting HIV-discordant partners, with women most affected. Studies have found that the rate of transmission increases across the population by 11% during shocks, including drought. Climate change can therefore exacerbate both gender inequality and the HIV/AIDS situation in Malawi. The effects of HIV and AIDS on agriculture include losses in both the quality and quantity of agricultural labour due to sickness and death of economically productive persons. Due to AIDS, there are more widows and elderly and childheaded households who do not have reliable income, agricultural knowledge and skills. This also implies increases in women's workload, thereby further negatively affecting agriculture production and productivity.

For more details on the projects planned consideration to mitigate these gender inequalities please also Annex 2: Preliminary Gender Assessment and Considerations on gender inequalities related to climate change impact.

<sup>&</sup>lt;sup>26</sup> Government of Malawi, 2015. Agriculture Sector Gender, HIV, and AIDS Strategy 2012-2017. Available here: http://reliefweb.int/sites/reliefweb.int/files/resources/Gender percent20HIV percent20and percent20AIDS percent20Strategy percent20Final.pdf

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<sup>27</sup> World Bank, 2015, The cost of the gender gap in agricultural productivity in Malawi, Tanzania, and Uganda. Available here: http://documents.worldbank.org/curated/en/847131467987832287/The-cost-of-the-gender-gap-in-agricultural-productivity-in-Malawi-Tanzania-and-Uganda

<sup>&</sup>lt;sup>28</sup> "The World Factbook Malawi." *Central Intelligence Agency*, Central Intelligence Agency, www.cia.gov/library/publications/the-world-factbook/geos/print\_mi.html.

<sup>&</sup>lt;sup>29</sup> IBID

<sup>&</sup>lt;sup>30</sup> Government of Malawi, 2015. Agriculture Sector Gender, HIV, and AIDS Strategy 2012-2017. Available here: http://reliefweb.int/sites/reliefweb.int/files/resources/Gender percent20HIV percent20and percent20AIDS percent20Strategy percent20Final.pdf

## 2. Climate change vulnerabilities, impacts and risks

### A. Experienced Climate Change Impacts

Malawi has experienced an increase in the frequency, intensity, and variability of weather-related shocks in recent years, including floods, droughts, and dry spells, as well as an increase in recorded temperatures. As such, the impacts of climate change are felt in Malawi and have negative impacts on wellbeing. This is driven by the dependence on climate-sensitive sectors, particularly rain-fed agriculture, which increases the exposure of many people across the country to the impacts of climate change.

The incident of weather-related shocks, either drought or floods, increased from 25.8% to 35.1% between 2010/11 and 2016/17<sup>31</sup>. During this period, there was a spike in humanitarian responses. During the 2014/15 lean season, 8% of the country required lifesaving assistance; this figure rose to 18% in the 2015/16 lean season and 40% in the following lean season<sup>32</sup>. In 2014/15, the country was affected by a lack of rainfall. Then, in 2015/16, the country experienced both drought and floods. In 2016/17, the country experienced the most severe El Niño event on record, resulting in its largest humanitarian caseload to date. The combination of severe events and the erosion of capacities to cope with recurring events had a very negative influence on the country.

Additional studies demonstrated that this trend in weather-related shocks is not limited to the 2010-2017 period. Evidence shows that the incidence of weather-related shocks between 2004 and 2013 had already markedly increased, particularly in the Southern region. Districts like Balaka, Zomba, Phalombe, Blantyre, Chiradzulu, Chikwawa, and Nsanje had all experienced a high recurrence of drought events within 7 or more years during the 2004 and 2013 period, where rainfall was recorded as below the 15-year average<sup>33</sup>. Areas that experienced a moderate recurrence of drought (4 to 6 events during the same period), many were still in the Southern region. Districts with poor rainfall seasons between 2009 and 2013 closely aligned to those that had experienced a high frequency of drought events in the longer time scale<sup>34</sup>, demonstrating greater frequency and intensity of drought events since 2004. This verifies findings from stakeholder/community consultations in Balaka, Machinga and Zomba that indicate that farmers have experienced unpredictable and unstable onsets and cessations of rains over the past 10 years. The cropping season has become shorter and characterized by late onset of rains (on average of 2 weeks late) and early termination of the rains (about 2-3 weeks earlier). This trend is combined with increased frequency of in-season dry spells (on average about 3 weeks), especially during the months of January and February when the maize crop is at critical stages of flowering and grain filling. It is also observed that the prolonged in-season dry spells coincide with an increased evolution of crop pests, such as fall army worms, cassava mealy bugs, grasshoppers, caterpillars, cutworms, and leaf eaters and suckers.

At the same time, farmers have limited access to weather-related information for early warning since most people do not own mobile phones and radios, which are the most common methods of channeling weather and related information to communities. Moreover, maize monocropping, conventional tillage practices, lack

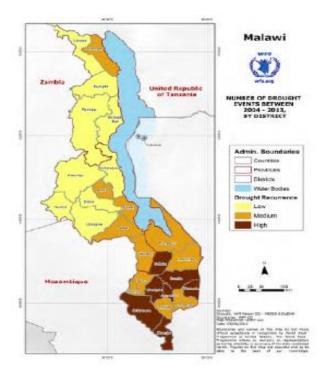
Office "Malawi Statistics, 2016/17", The Poverty National Statistics and the World Bank Group. http://microdata.worldbank.org/index.php/catalog/2939

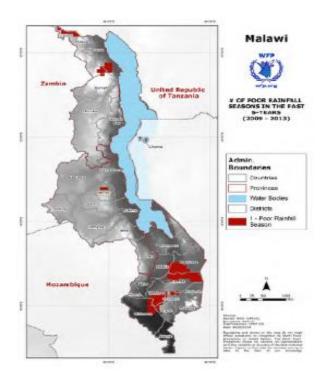
<sup>&</sup>quot;2016/17 Food Insecurity Response Plan", Office of the Vice President Department of Disaster Management Affairs, Office of the Vice President Department of Disaster Management Affairs

<sup>33 &</sup>quot;Integrated Context Analysis 2014", WF & Government of Malawi, http://www1.wfp.org/countries/malawi

of soil and water conservation structures, use of local varieties have been cited by farmers as key factors that have increased vulnerability to the effects of climate change.

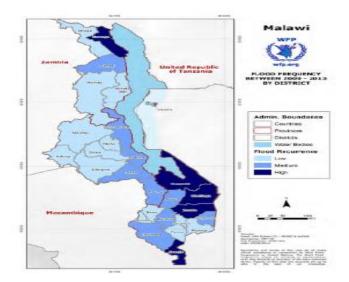
An increase in flood incidences has also been of concern in the period 2000 to 2013. Districts like Mangochi, Machinga, Zomba, Nsanje, and Karonga have all experienced 8 or more flood events during that period, and districts including Chikwawa, Blantyre, Phalombe, and Balaka have experienced flood events 4 to 7 times. In the 13-year period, it was plausible to assume that flood events would occur every other year across these highly susceptible locations. Notably, it is alarming that many of the locations with a high incidence of flood events are also locations with a high incidence of drought events. As experienced in 2015, it is common for both flood and drought events to manifest within a single year, further aggravating negative impacts on food security and agricultural productivity<sup>35</sup>.



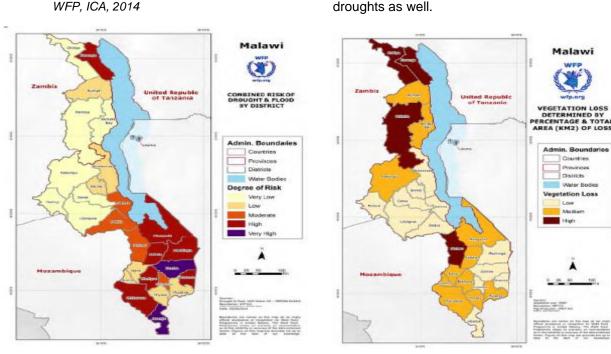


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<sup>35</sup> IBID



WFP, ICA, 2014



There are clear hotspots for weather-related shocks where both flood and drought events occur with high frequency based on historical records, and all are concentrated in the Southern region of Malawi. Zomba and Nsanje face the greatest frequency and intensity of weatherrelated shocks, followed by Mangochi, Balaka, Machinga, Blantyre, Phalombe, and Chikwawa. An evident aggravating factor is human-induced vegetation loss, driven by the need for firewood and land for agricultural production. Loss of vegetation results in the failure to prevent the direct impact of rain drops on the ground, and the loss of roots decreases the stability of the soil, both of which destabilize the soil structure and increases vulnerability in times of flooding. Also, this means that the water retention capacity of the ground is minimized, which amplifies the impact of

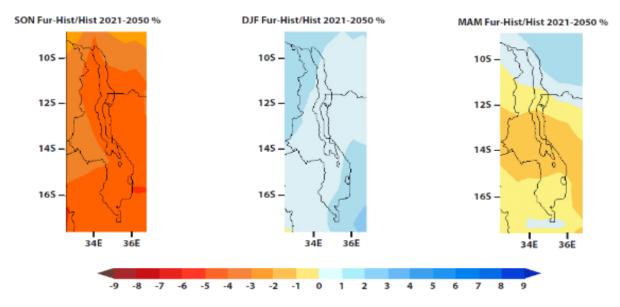
WFP, ICA, 2014

### B. Future Climate Trends

While Malawi has been affected by considerable weather-related shocks, the trend seems unlikely to change. Climate projections show that temperatures are due to rise, while rainfall will continue to be variable and seemingly decreasing, and climate models predict possibilities for severe impacts from the increasing frequency, intensity, and variability of weather-related shocks on the agricultural productivity, food security, and poverty reduction in Malawi.

Future warming is anticipated to be evenly distributed across the country with projections indicating an increase of 0.5 to 1.5 degrees Celsius by 2040<sup>36</sup>. By 2090, temperatures are predicted to increase by 4 to 4.5 degrees Celsius<sup>37</sup>. The predicted higher temperatures will stress ground conditions. Evapotranspiration rates will rise, minimizing the water retention in the ground. Without water available in the ground, livelihoods that depend on ground water sources, like crop or livestock farming, will be severely affected. In addition, these livelihoods will be stressed by the sheer impacts of the direct heat exposure that can negatively impact both crops and livestock. Heat stress around flowering has negative effects on maize grain yield due to the delay in silking date, increase male and female sterility, and reduction in plant height and leaf area index<sup>38</sup>. The main mode of heat damage in plants is through the reduction of soil moisture when droughts are more severe.

Rainfall is predicted to become more variable with unpredictable starts and cessations of rainfall. It is expected that rainfall patterns will greatly vary, not only in terms of timing and seasonality, but also in terms of precipitation levels. Current trends indicate that rainfall is concentrated over fewer days, often prompting flooding, especially following a dry spell. The maps below show the in-year variability of rainfall. By the 2090s, the changes are projected to have similar spatial patterns as 2000 to 2019, but they will be larger with annual rainfall decreasing throughout Malawi by 14%<sup>39</sup>. The prevailing higher temperatures compounded with time-specific rainfall decreases produce a high probability of drier conditions at critical times of the year when crop production typically takes place. This jeopardizes food and income security by destabilizing agricultural-based livelihoods.



Future Climate For Africa, Malawi, 2017

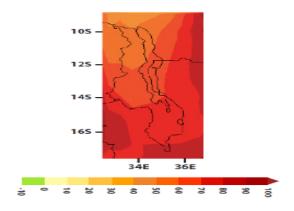
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<sup>&</sup>lt;sup>36</sup> "Country Climate Brief Malawi", Future Climate For Africa, www.futureclimateafrica.org/resource/future-climate-projections-formalawi/.

<sup>37</sup> IBID

<sup>&</sup>lt;sup>38</sup> Cicchino, M., J. I. R. Edreira, M. Uribelarrea, and M. E. Otegui. 2010. Heat Stress in Field-Grown Maize: Response of Physiological Determinants of Grain Yield. Crop Sci. 50:1438-1448. doi:10.2135/cropsci2009.10.0574

Climate-related extremes, referring to the high incidence of atypical weather events, are due to also increase according to future projections. The number of days with temperatures higher than 30 degrees Celsius is due to increase from 10 to 100 by 2040<sup>40</sup>. The threshold of 30 degrees Celsius is used since it is also an established indicator of maize stress. In the map to the right, the areas shaded with a darker red show where temperatures above 30 degrees are more likely. In addition, the mean number of rainfall days is projected to decrease. Within this reduced period. the amount of rainfall per day is projected to increase. This could result in flooding after extremely hot and dry conditions, which highly destabilizes climate-sensitive activities, like rainfed agriculture.



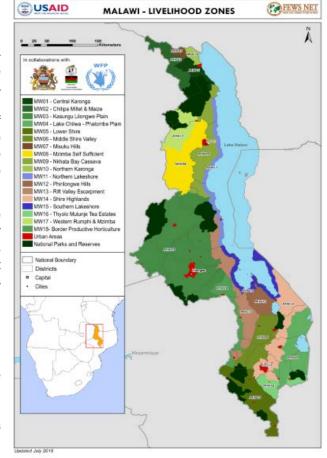
Future Climate For Africa, Malawi, 2017

### C. Key Factors of Vulnerability & Barriers to Adaptation

As weather-related events become more frequent, intense, and variable in nature, the coping capacities of households, communities, and national systems erode. In most cases, preexisting coping strategies are already limited due to the seasonality of livelihoods, as well as prevailing levels of poverty, food insecurity, malnutrition, and environmental degradation. If these factors are not addressed along with the drivers of climate change, wellbeing across the country will deteriorate as climate shocks continue occurring.

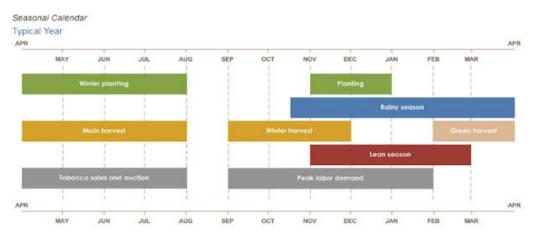
Across Malawi, 14 main livelihood zones have been identified<sup>41</sup> (see the map below for their geographical distribution). Across most livelihoods in the country, including those in the three project priority districts, the major contributing factors include rainfall and vegetation.

The success of livelihoods is determined by rainfall and vegetation because most households rely on agricultureor pasture-based livelihoods. Livelihoods based on agricultural and pasture lands require certain levels of rainfall and vegetation at specific times of the year based on the context, principally the local geography. With a single rainy season throughout most of the country,



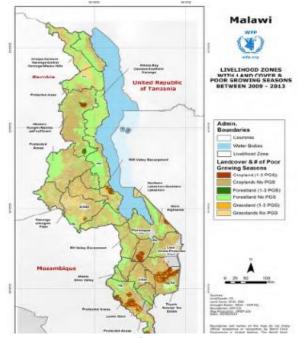
<sup>41 &</sup>quot;Integrated Context Analysis 2014", WF & Government of Malawi, http://www1.wfp.org/countries/malawi

this means that livelihoods are reliant on the timely and sufficient arrival of rainfall and the healthy condition of the environment to support the productivity of the land. These factors are especially influential considering the minimal reach of irrigated land across the country and limited access to and use of agricultural inputs. The seasonal calendar below shows how this dependence on a single rainy season results in a single, main harvest, which is then followed by a lean season when households have limited resources as they await the next harvest. This type of seasonal calendar is very limiting for those bound by it and makes the success of main harvest paramount for food and economic security for the whole year. As such, any deviations from this cycle have proven to severely impact food and income security at the microand macro- levels, necessitating relief assistance for the large proportion of the population who rely on agriculture for their subsistence. Deviations may include the unpredictable and unstable onset of rains and the increase in crop pest attacks. Deviations have been increasing and are predicted to increase in frequency and variability, adding further uncertainty to climate-sensitive livelihoods.



FEWSNET, Seasonal Calendar Malawi, 2017

In light of these current and future trends, an analysis was conducted to identify which livelihoods are most affected by poor growing seasons, using drought as a proxy in a 5-year period. The map below shows the locations that have experienced poor growing seasons in darker shades. This ranges from 1 to 3 events negatively impacting the growing season in the 5-year period of study. Livelihoods in the croplands of the central and southern regions



GOVERNMENT OF MALAWI & WFP, LIVELIHOOD ZONES, 2014

were primarily affected<sup>42</sup>. The majority of districts where this pattern emerged are in the South and include Mangochi, Balaka, Machinga, Zomba, Blantyre, Phalombe, Mulanje, Chiradszulu, Chikwawa, and Nsanje. These are the same locations that are frequently affected by both drought and flood events. The sensitivity of livelihoods and their exposure to such risks create a very precarious situation going forward. Women will likely be more affected, as well as other vulnerable groups, as they often have less diversified income streams and a smaller asset base, thus limiting their opportunities to access credit and finance for their agricultural enterprises.

### i. Environmental Degradation:

As previously noted, the prevailing livelihoods in the country are dependent on the local vegetation, such as the presence of trees, shrubs, and grasses that support soil and water conservation in the landscape. The root systems of these help retain the top soil, and water that filtrates into the ground supports growth. These functions are key where the prevailing climate and topography are not conducive to agricultural productivity and where access to external inputs, such as irrigation, is low. For example, in the Northern region, where even two rainy seasons can be realized, the wetter conditions are conducive for more productive systems. The situation is reversed in the Southern region where there is a single rainy season that is commonly affected by drought and flood events. In this context, a healthy environment is critical.

Despite this, trends of vegetation loss have increased during the 1990-2010 period<sup>43</sup>. According to findings from community consultations, communities have not fully embraced sustainable environmental management activities due to perceptions of the benefits and lack of appropriate incentives. As a result, livelihoods are becoming increasingly stressed with the poorest and most vulnerable, like women-headed households, facing greater challenges as access to productive land becomes more limited. There is also a concentration of settlements in these areas, which exerts a negative force on the environment. While land is being converted for settlements and production, it is worth noting that energy scarcity also drives vegetation loss. Malawi experiences chronic energy shortage, especially in the rural areas. Fuel for cooking, heating, lighting, and other activities is typically sourced from biomass, as there are few alternatives. Pursuit of biomass, especially for a growing population, has resulted in a high rate of deforestation and added pressure on households as resources diminish. Women and children bear most of the burden as the principal collectors of biomass. Moreover, given the current demographics, it is likely that the pressure on the environment will only continue to rise. Gender roles and power relations influence the way various gender categories utilize and conserve agriculture biodiversity. Women tend to use agro-biodiversity resources in a more sustainable manner than their male counterparts. They also have more knowledge on the use of indigenous species and varieties. Men, on the other hand, tend to deplete the resources for commercial purposes at the expense of conserving agrobiodiversity<sup>44</sup>.

### ii. Chronic Poverty:

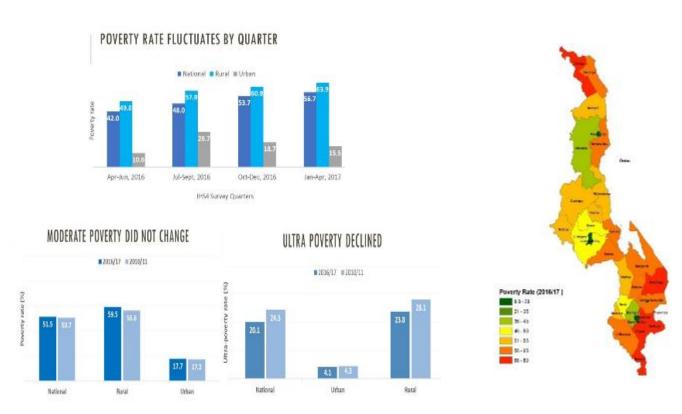
High levels of chronic poverty characterize the country. Due to poverty and its associated deprivations, households have limited assets and resources to diversify their livelihoods and manage climate hazards. This is especially the case of women and other disadvantaged groups, like the elderly and the youth. With limited household resources, households often fall even further into poverty when a shock occurs. Fluctuations of the poverty rate within a year indicate the strong relationship between seasonality and the wellbeing of households. Poverty is at its lowest immediately after the harvest from April to July and tends to increase in the following months, reaching its highest just before the following harvest. Looking at the

<sup>&</sup>lt;sup>42</sup> IBID

<sup>43</sup> IBID

<sup>&</sup>lt;sup>44</sup> Government of Malawi. 2012. Agriculture Sector Gender, HIV and AIDS Strategy. Ministry of Agriculture and Food Security. Lilongwe. Malawi

larger picture, the current proportion of the population living in moderate poverty is 51.5 percent. Previous assessments estimated that the poverty rate was roughly the same, at 50.7%, in 2010/11<sup>45</sup>. While this remains high, the stabilization is quite notable since this was a period of various shocks. The ultra-poverty rate even declined from 24.5% to 20.1% <sup>46</sup>. Analysis has shown that the stabilization was possible due to the scale-up of social protection programs and relief assistance during this period. As noted before, following the El Niño event, over 40% of the population was targeted with humanitarian food assistance <sup>47</sup>. As such, its reach was almost equal to the number of people living in poverty, especially those in extreme poverty. This illustrates the need to further enhance livelihoods and incomes of those living in poverty and who are vulnerable to shocks, with an emphasis on the most marginalized.



NSO & WB, HIS 4, 2018

NSO & WB, HIS 4, 2018

### iii. Chronic Food Insecurity:

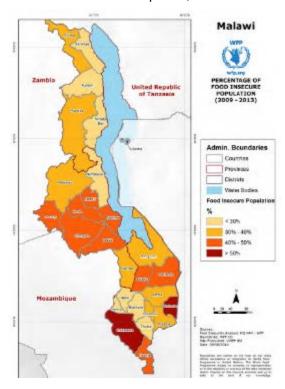
Food insecurity is a chronic issue in Malawi. Since Malawi depends largely on rain-fed agriculture, climate change may threaten food security. So, while numbers may spike in response to an unpredictable shock,

<sup>45 &</sup>quot;Malawi Poverty Statistics, 2016/17", The National Statistics Office and the World Bank Group, http://microdata.worldbank.org/index.php/catalog/2939
46 IBID

<sup>&</sup>lt;sup>47</sup> "WFP Malawi Situational Report", WFP Malawi, https://reliefweb.int/sites/reliefweb.int/files/resources/WFP percent20Malawi percent20Situation percent20Report percent20 percent2302 percent2C percent2009 percent20February percent202017.pdf

they remain at high levels most of the time, even in the absence of shocks. A look back to 2009-2013 shows that food insecurity, as shown by the prevalence of food insecure people in the population, generally remained above 30% across most of the country. Over 50% of the population of Chikwawa and Phalombe, among other districts, had been affected by food insecurity in this period<sup>48</sup>. Analysis indicates that the most food insecure households in the country are those that depend on agriculture for their subsistence and livelihood, and the trend is most pronounced in the Southern region.

Food insecurity within a year follows the seasonal calendar: it drops after the harvest is realized, but grows as time passes, leading up to the next harvest. The period right before the harvest is therefore the most sensitive period, when people are most food insecure. This is referred to as the peak lean season, or the 'hunger season'. When events such as dry spells, drought, or floods occur during this period and affect crop production, the peak lean season is extended, leaving households with few avenues to cope with the shock, since they have consumed most (if not all) of their available food stocks. Income is, as shown above, also strained in the lean period, which limits the ability to purchase food. When shock years are consecutive,



WFP, ICA, 2014

the avenues for coping are further reduced. This has been the case for the past five years, and evidence also shows that the food gap is most pronounced in femaleheaded households and among those affected by HIV/AIDS. The latest figures from 2016/17 show that the prevalence of 'high food security' dropped from 57.6% to 24%, and the prevalence of 'very low food security' increased from 32.5% to 61.4%49. It is in this context that the country has experienced a historic increase in the delivery of emergency relief and assistance to support food security. The Malawi Vulnerability Assessment Committee (MVAC) undertakes annual assessments of food insecurity to establish the possible need for emergency relief and food assistance. MVAC assessments from 2005 to 2016 show that a caseload has been identified for relief every year. However, since 2012, the number of individuals requiring assistance spikes considerably with an overall caseload of 1,972,993 individuals. The caseload reaches its highest level in 2016 with 6.692,114 individuals being targeted that year, or 40% of the population. Between 2005 and 2016, the districts with the most years included in the MVAC response include Chikwawa, Nsanje, Balaka, Blantyre, Zomba, and Phalombe<sup>50</sup>.

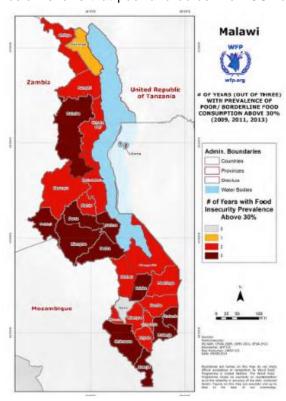
<sup>&</sup>lt;sup>48</sup> "Integrated Context Analysis 2014", WFP & Government of Malawi, http://www1.wfp.org/countries/malawi

<sup>49 &</sup>quot;Malawi Poverty Statistics, 2016/17", The National Statistics Office and the World Bank Group, http://microdata.worldbank.org/index.php/catalog/2939

<sup>&</sup>lt;sup>50</sup> "MVAC Population of Missing Food Entitlements Requiring Humanitarian Assistance by District Since 2005 – 2016" WFP Malawi.

**Malnutrition:** Malnutrition is rampant in Malawi. Malnutrition does not closely follow seasonal or geographical trends; rather it affects the whole country at all times. The map below shows this, using the food consumption score (FCS) as a proxy. The FCS is based on dietary diversity, food frequency, and relative nutritional importance of the food that groups consume. A higher FCS indicates higher dietary diversity and frequency, and a high FCS increases the possibility that a household achieves nutrient adequacy. Households are divided into one of three groups based on their food consumption score: poor, borderline, or acceptable food consumption. The map below shows that poor and borderline FCS have

been registered across all corners of the country, with many districts registering 2 or 3 years of insufficient or at-risk food consumption. In this context, malnutrition is prevalent among women reproductive age (15-49 years old) in rural Malawi . and 37% of children under the age of 5 are malnourished<sup>51</sup>. In addition, wasting and micronutrient deficiencies (especially anemia) prevalent across the country. Overall, it is estimated that malnutrition in all its forms causes over 10% losses in annual GDP52. The increased frequency of weather-related shocks can exacerbate this. Drought and dry spells cause a decrease of water availability to grow and process a diversity of foods to meet the nutritional needs of households. Floods, on the other hand, can drive up the incidence of disease, placing a greater emphasis on proper nutrition yet making it much harder to realize at the same time. Underscoring this is the fact that there are groups at risk across the country that need to be considered. Pregnant and lactating women, children under 5, individuals affected by HIV/AIDS and other diseases, and adolescents are overrepresented in the figures of malnutrition and require special attention. Malnutrition is therefore a complex challenge that will likely become worse with the impacts of climate change.



WFP, ICA, 2014

**Barriers:** The complex relationship across the factors noted above act as a barrier to climate adaptation. Based on these, the following barriers have been identified as the most critical.

### At the government/national level

- Acute and repeated humanitarian needs due to weather-related shocks result in interrupted and stopstart recovery and resilience responses
- Chronic problems left unaddressed, such that future weather shocks further necessitate emergency relief
- Lack of interconnectedness across climate interventions due to the cross-sectoral nature of the problem
- Donor-driven assistance with few long-term commitments from the government and other national stakeholders (e.g. the private sector) due to fiscal constraints

<sup>&</sup>lt;sup>51</sup> "Integrated Context Analysis 2014", WFP & Government of Malawi, http://www1.wfp.org/countries/malawi

<sup>&</sup>lt;sup>52</sup> "The Cost of Hunger in Malawi: Social and Economic Impacts of Child Undernutrition in Malawi - Implications on National Development and Vision 2020" WFP et al, https://reliefweb.int/report/malawi/cost-hunger-malawi-social-and-economic-impacts-child-undernutrition-malawi

- Agricultural sector characterized by volatility resulting in fragmented and unsustainable food system
- Policies and programs are not linked to climate trends and future climate forecasts
- Inadequate technical capacities, knowledge, and resources at national and district levels (knowledge and resources)

### At the household/community level

- Inadequate awareness and knowledge of climate change and its impact on livelihoods
- Mismanagement of natural resources and lack of awareness of unsustainable practices that results in widespread land/environmental degradation
- Poor adaptation options and practices that reduce vulnerability and strengthen preparedness to climate related hazards
- Non-diversified, low output livelihoods increase vulnerability to climate impact
- Inadequate of access to information and knowledge to better manage increased climate variability and recurrent climate shocks.
- Poor access to agricultural markets for accessing inputs and for marketing agricultural produce

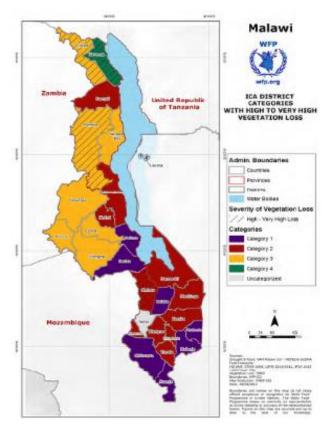
## 3. Project Area and Target Groups

The project seeks to enhance climate adaptation and food security of households through access to integrated climate risk management strategies and structured market opportunities, with a focus on the most vulnerable. The project, thus, purposely targets those who are most affected by climate change, poverty, and food insecurity and who rely on agricultural livelihoods that are limited by and vulnerable to climatic shocks, especially women and other marginalized groups.

The identification of these project locations is informed by the 2014 Integrated Context Analysis (ICA), which is a historical analysis. The project location selection is further supported by the findings of the most recent Integrated Household Survey (IHS IV), which examines the periods of 2010/11 and 2016/17, and additional analysis of food insecurity over a 10-year period between 2007 and 2017 conducted by the Government of Malawi's Department of Disaster Management Affairs (DoDMA). These data sets were overlaid with data on flood vulnerability, stunting, ultra-poverty, literacy levels, and coverage of projects for each of the National Resilience Strategy (NRS) pillars.

The ICA involves the creation of maps that overlay relevant information to identify patterns of vulnerability. Historical trend analyses of food security, natural shocks, and land degradation (as an aggravating factor heightening the risk of natural shocks) are overlaid to identify areas of convergence. These are then used by the government and partners to determine the most appropriate programmatic strategies (e.g. resilience building, disaster risk reduction, social protection, emergency preparedness) in specific geographical areas. The map presented below is the main output of the ICA, highlighting food insecure, at-risk, and densely populated geographic areas, along with the suggested project area (in the blue rectangle). Priority is given to districts under categories 1 and 2. This is cross-referenced with prevailing trends shown in IHS IV. Additionally, the selection was guided by national resilience commitments, as expressed in different strategies, policies, and ongoing programs or initiatives that could help this project. The National Agricultural Investment Plan (NAIP) and the NRS were keenly influential.

CATEGORY 1	Districts where 30%or more of the population have been consistently identified as food insecure with High/ Moderate exposure & risk to natural shocks
CATEGORY 2	Districts where 30%or more of the population have been identified as food insecure half of the time with High/ Moderate exposure & risk to natural shocks
CATEGORY 3	Districts where 30%or more of the population having been consistently identified as food insecure, yet with a low exposure 7 risk to natural shocks
CATEGORY 4	Low reoccurrence of food insecurity above 30 percent, yet with a high/ Moderate exposure & risk to natural shocks
UN- CATEGORIZED	Low reoccurrence of food insecurity prevalence above 30 percent. Low exposure & risk to natural shocks



Using the ICA approach, the government has selected the following 7 districts as priority for pilot implementation of the NRS: Nsanje, Chikwawa, Phalombe, Mangochi, Zomba, Balaka, Machinga districts. To produce a ranking of priority districts for the Adaptation Fund project, seasonal livelihood analyses (SLPs) were conducted in all 7 districts with government authorities, stakeholders, and community representatives from each district. The coverage of existing programme activities were mapped and sequenced to better identify key livelihood drivers, priority needs and gaps, and partnership opportunities.

After prioritizing the NRS selection of priority districts through the SLP process, Balaka, Machinga and Zomba districts have been selected for the implementation of the proposed Adaptation Fund project. All three districts have higher needs and lower coverage of services and ongoing activities.

In addition to extending and enhancing coverage of ongoing programmes to vulnerable areas, the project will facilitate a government-led implementation process that catalyzes multi-sectoral collaborative action, breaking the siloed approach to programme delivery. The project will bring together different sub-sectors within the agriculture sector (Crops, Extension, Irrigation) to work with the Disaster Management, Community Development, Forestry, Trade and Environment and Climate Change sectors. The project will also facilitate collaboration with the private sector, especially the insurance sector, seed sector, and output markets (i.e. agro-dealers).

Within each district, a further selection of Traditional Authorities (TAs) was made to ensure coverage while avoiding overlap with ongoing development/recovery activities by other agencies. As a result, 85,000 households (382,500 beneficiaries) in Balaka, Zomba, and Machinga districts in 22 TAs are targeted in this project. The proximity of and similarities across the districts offer an opportunity to test and validate the proposed integrated climate risk management strategies and structured market opportunities prior to scaling this method to other diverse contexts. literacy). A total of 23,600 farmers from the 3 districts will benefit from access to market access opportunities including through farmer associations and cooperatives throughout the duration of the project and who have surplus production.

Category	Intervention type	No. of households	Total # of beneficiaries	Beneficiary breakdown by Gender		
				Male	Female	
A	Access to microinsurance as a risk transfer mechanism for targeted farmers affected by climate change and food insecurity	25,600	115,200	56,448	58,752	
В	Access to soil and water conservation practices through individual and group asset creation including irrigation development and crop diversification with a focus on drought tolerant and nutritious crops.	85,000	382,500	187,425	195,075	
С	Access to market access opportunities including through farmer associations and cooperatives	23,600	106,200	52,038	54,162	
D	Access to climate services to inform livelihood decision-making among farmers through extension officers/radio programmes/SMS, etc.	85,000	382,500	187,425	195,075	
E	Access to financial services to enhance investment in climate-resilience agriculture (including saving, credit, and financial literacy)	85,000	382,500	187,425	195,075	

Please see Annex 3 for further details of the estimated number of project beneficiaries per district and traditional authority. Targeted communities will be identified at project implementation roll out through the community based participatory planning process.

The project will target a total population of 382,500 people for interventions under categories B, D and E, of which 51% of beneficiaries are female. It is envisaged that interventions under category B will be implemented for a duration of 3 years. The interventions under categories A, C, D, and E will be implemented throughout the whole project duration as one package that converges at community and household level. These interventions aim to support targeted households to quickly transition from subsistence farming to surplus production, including the capacity to interact with financial and output markets.

Activities under category A will target 38% of the total beneficiary population in the three districts, of which 51% are women/girls, and 49% are men/boys. These interventions will enable 25,600 farmers to access microinsurance as a risk transfer mechanism to protect their assets from potential rainfall deficits that would affect crop harvest and food security. Insurance targets cash-constrained households and is offered in exchange for their participation in asset creation activities, while working throughout time to introduce and progressively increase cash-payments, as their food and income security improves. For interventions under category C, a total of 23,600 farmers will benefit from improved access to market access opportunities, including through farmer associations and cooperatives, throughout the duration of the project. All targeted farmers across the 3 districts will benefit from improved access to financial services, including saving, credit, and financial literacy, to enhance investments in climate-resilience agriculture through interventions under category E.

## 4. Project Objectives

The overall goal of the project is to enhance climate adaptation and food security of households through access to integrated climate risk management strategies and structured market opportunities.

The project will achieve this by pursuing the following three objectives:

- Strengthening awareness and ownership of adaptation and climate risk reduction processes at community level, particularly among women and youth, to mitigate the impacts of climate change, especially of climate change induced rainfall variability; to understand the importance of adaptation in reducing the impacts of climate variability on their livelihoods and food security; and to use climate information for seasonal planning and climate risk management
- Designing and implementing local resilience and adaptation plans through a community-based planning process, focusing on insurance-based asset creation schemes, income diversification and market linkages for increased adaptive capacity of individuals and households to become selfreliant and resilient to climate change
- Strengthening government capacities to generate climate information and promote its dissemination and usage for forecasting risks of climate shocks, mobilizing early action, and codeveloping tailored climate services for communities in order to mitigate risks associated with climate-induced socioeconomic and environmental losses.

The overall objective of this project is to deliver assistance in a way that develops the individual's capacity to adapt to climate change and become self-reliant. The project will achieve this by pursuing the following outcomes (which align with Adaptation Fund Strategic Results for Outcomes 2, 3, 5, 6 and 7):

- 1. Improved access to insurance as a risk transfer mechanism for targeted farmers affected by climate change and food insecurity;
- 2. Adopted climate-resilient agriculture practices among targeted farmers contributing to the integrated climate risk management approach; and
- 3. Strengthened market access strategies and approaches for smallholder farmers.

Each outcome has corresponding outputs as reflected in the results framework and is treated as a project component. All the components will be implemented across the target districts, and every targeted household will be provided access to all the project activities simultaneously. Throughout the 5-year period, the activities will be sequenced or phased in as the capacities of the household are enhanced and better able to engage with all project components. The exact phasing will be further determined by additional assessments on households' capacities and local markets, among other factors.

The project approach is to establish sustainable and viable mechanisms for vulnerable and food insecure households to access different strategies and tools under an integrated climate risk management approach and access to market-based opportunities. Therefore, it focuses on developing the adequate systems and approaches by leveraging the comparative advantages of both the private and public sectors, while also working on the capacities of households to adapt to climate change and become self-reliant. In this context, the project will pursue the transitioning of vulnerable, farming households from subsistence to surplus-producing status and facilitate access to diversified and strengthened livelihoods. This is to be supported by adequate market and financial services and conditions fostered in favor of the targeted farmers through leveraging microfinance institutions, insurance companies, agro-dealers, and agribusinesses. The role of the government will be bolstered in order to act as the enabler of such processes and provider of guidance, skills, tools, and systems that are necessary. WFP will leverage its in-country and global expertise to catalyze these changes and support the implementation of project activities by relevant national stakeholders, with consideration to farmers and farmer organizations, private sector actors, and government entities.

### **Cross-cutting Gender and Environmental Sustainability Issues**

Based on the findings from the Gender Assessment and the Environmental and Social Risk Assessment (see annexes 2, 6), the following gender transformative, environmental, and social sustainability actions

will be considered and mainstreamed as cross-cutting interventions across the project components:

sed Gender Transformative Actions and Good Practice(s)
seu Genuel Transformative Actions and Good Fractice(s)
ive and Gender-Sensitive Planning, Analysis, and Communications immunity-based participatory planning (CBPP) sessions will ensure that all vulnerable socioeconomic rups, including men, women, boys and girls, are involved to better understand how climate risks, noter roles, and power relations influence each other. CBPP sessions allow the community to analyze cision-making ability and access to and control over resources and information based on gender. This nning process enables all socioeconomic groups to contribute towards decision-making and elementation of various activities that address the barriers and needs of all the groups. CBPP is a munity-people-centered planning tool that helps to clarify gender issues in relation to climate nerability and adaptive capacity. CBPPs will be conducted at the beginning of each project cycle to an and between cycles to reflect on progress and re-prioritize interventions. The project will implement social and behavioral change communication (SBCC) activities. SBCC invities will aim to transform gender relations by building awareness and confidence to catalyze navioral change actions among women, men, youths and the community at large around equality and powerment.  Separate community-specific gender analysis will be carried out, building on the results of the liminary assessment performed at project design stage. This will be conducted in conjunction with CBPP processes to understand risks, vulnerabilities, and gender capacities and provide evidences and gender-disaggregated data inform gender-responsive adaptation interventions throughout
is to and control over land and other productive resources or project will expand and promote equal access to water, land, forest-based projects and interventions of small-scale irrigation, watershed management, afforestation) for women, men and youth. This pecially includes newly accessible land resources created by rehabilitation and/or reclaimed from degradation through the Insurance for Assets (IFA) activities under component 2. Information and ning approaches relating to farmers' use and management of these resources and intervention invities will contribute towards securing tenure rights for women, men and youths. The project will encourage equal decision-making power for women and youths by including them in all cussions to ensure access to and control over land. The project will substitute conventional technologies with more efficient resources, such as fuel-efficient exes, for men and women to reduce time and energy requirements. The project will expand and promote inclusive access to financial services (mainly village savings and ans, microinsurance, microfinance) and value chain approaches (starting from the post-harvest loss nagement) to help smallholder farmers, especially women and youth, prepare for market interactions. The ses services and approaches are responsive to climate change and adapted to the needs of allholder farmers, particularly vulnerable groups that previously had limited access to market-based grammes and opportunities for value chain integration.  The project will also support women's and youths' equal access to, participation in, and benefit from actured markets through farmer cooperatives/associations.
is to information and extension services be project will promote special efforts needed to provide women and men with equitable access to project will promote special efforts needed to provide women and men with equitable access to project will promote special efforts needed to provide women and men with equitable access to project will promote special efforts needed to provide women and other key areas required for success smallholder farming. The CBPP process will further investigate if there are any additional tools to nevel weather/climate information and advisories to consider. The monitoring and evaluation (M&E) attemining place will periodically evaluate the satisfaction with the chosen channels to meet the needs of men, men and youth smallholder farmers.  Insidering high illiteracy levels among women, the project will invest in functional adult literacy. The ject will work to strengthen the existing government agricultural extension system to provide manced support to women and youth smallholder farmers.  It is to inputs and technology and technology that is sensitive to the priorities and constraints of women and youth smallholder farmers go solar-powered irrigation equipment, drought-tolerant crop varieties). The project will facilitate mers' access to inputs through collective action and improved linkages to input suppliers.
nance is to i e pro hnolo g. sol mers'

## power dynamics at all levels

- The project will facilitate equal representation, especially of women, youth and marginalized groups, in community-level project management structures and promote institutional arrangements and linkages that will facilitate multi-stakeholder engagement.
- The project will facilitate regular local multi-stakeholder dialogues where women, men, boys, girls, and vulnerable groups have equal representation to continuously inform gender-transformative adaptation actions and decision-making. This will be done through implementation review meetings and CBPP sessions.
- The project will institute and promote mechanisms that will ensure that vulnerable groups have sustainable access, confidence, and capacity to act, learn, and provide feedback to enable inclusive local ownership and fully transparent communication over decision-making processes and implementation. Moreover, the programme will also conduct qualitative monitoring to understand the impacts of programme interventions, especially on marginalized groups.
- The project will ensure that priority adaptation options at site level are selected through a screening process to assess social, economic and environmental feasibility, gender equality, underlying causes of vulnerability, resilience to expected climate impacts and risks, and synergies with existing systems and plans.
- The project will develop a comprehensive approach to training and capacity building with consideration to the specific needs and constraints that vulnerable groups, including women and youths, face.

## 5. Project Components and Financing

Froject Components and Financing								
Expected Outcome/Project Component	Expected Concrete Outputs							
Improved access to insurance as a risk transfer mechanism for targeted farmers affected by climate change and food insecurity	1.1 A weather index microinsurance product designed for drought and dry spells to can cover farmers' needs at scale.	\$	2,440,517					
	1.2 Awareness raised among farmers on weather index insurance and vulnerable farmers enabled access to weather index micro insurance							
	1.3 Strengthened national capacities and systems to provide weather index insurance working with the private and public sector.							
	1.4 Inclusion of insurance (not limited to WII) as risk transfer mechanisms in national agriculture programs and schemes supported.	\$	25,980					
2. Adopted climate- resilient agriculture practices among targeted farmers contributing to the integrated climate risk management approach	2.1 Soil and water conservation practices promoted through individual and group asset creation, including irrigation development.	\$	651,828					
	2.2 Climate resilient agriculture promoted among farmers through extension service support.							
	2.3 Crop diversification supported with a focus on drought tolerant and nutritious crops.	\$	219,090					
	2.4 Climate services provided to inform livelihood decision-making among farmers.	\$	609,477					
	2.5 National capacities and systems strengthened to provide these integrated climate risk management approaches.	\$	48,009					
Strengthened market access strategies and approaches for smallholder farmers	3.1 Strengthened financial capacities and market access opportunities to enhance investment in climate-resilience agriculture (including saving, credit, and financial literacy).	\$	576,772					
	3.2 Performance and outreach of farmer organizations/cooperatives strengthened, and their capacity enhanced to engage in farming as a business							
	3.3 Targeted farmers supported to access storage and aggregating infrastructure for greater market access, including establishment of rural warehouses	\$	1,255,842					
	3.4 Market information provided to inform business planning and activities	\$	344,777					
	3.5 Smallholder procurement promoted through government and private sector strategies and programs.	\$	359,994					
Total Operational Cost								
Project/Programme Execution cost (9.5%)								
Total Project/Programme Cost								
Project/Pro	gramme Cycle Management Fee charged by the Implementing Entity (8.5%)	\$	782,575					
	Amount of Financing Requested	\$	9,989,335					

# Projected Calendar

Milestones	Expected Dates					
Start of Project Implementation	January 2020					
Mid-term Review	June 2022					
Project Closing	December 2024					
Terminal Evaluation	June 2024					

## PART II: PROJECT / PROGRAMME JUSTIFICATION

## A. Project Components

Describe the project / programme components, particularly focusing on the concrete adaptation activities of the project, and how these activities contribute to climate resilience.

The Government of Malawi has made a commitment to address climate change and promote resilience, with a special emphasis on breaking the cycle of hunger. This project has been developed with representatives of the Government of Malawi pursue these priorities. To this end, a special task force was established for the design of the project with representation from the following entities: the Ministry of Finance, specifically the Economic Planning and Development Department (EPD); the Ministry of Agriculture, Irrigation and Water Development (MoAIWD); the Department of Climate Change and Meteorological Services (DCCMS); the Department of Disaster Management Affairs (DoDMA); the Ministry of Industry, Trade and Tourism (MoITT); the Environmental Affairs Department (EAD), and the Ministry Local Government and Rural Development (MLGRD). Through the deliberate efforts and engagement of these national stakeholders in the design of the project, the project is aligned to national priorities on climate change adaptation and resilience.

The three project components are standalone yet interrelated as this project aims to deliver an integrated package. While they each contribute to specific outcomes, together they help achieve the overall objective. In this context, each component will be presented, while acknowledging the linkages throughout.

### **COMPONENT 1:**

Improved access to insurance as a risk transfer mechanism for targeted farmers affected by climate change and food insecurity

Insurance is a risk transfer mechanism that is commonly used across the world, but in developing countries, it is less prevalent and often limited to life or auto insurance. Given the high levels of risk and vulnerability associated with the local models of agriculture and the hard-felt impacts of climate change, there is a great opportunity to leverage this mechanism for farmers in developing countries. Weather-related shocks are expected to persist, and while efforts will be made to build resilience to climate change and variability, there will be shock events that surpass the coping capacities of those affected. In this context, the capacity building and promotion of insurance will be an integral component of the project.

The protection and compensation provided by insurance, when triggered, can help households maintain their level of wellbeing, even when shocks occur. In shock-free years, insurance can act as an enabler for investments and diversification in livelihoods as it provides a guarantee for credit and the security of compensation if something goes wrong. Insurance, therefore, has a dual role of protecting and promoting diversified livelihoods, which in the context of climate change is key.

Weather-index insurance has proven particularly effective because it can single out the risk of specific weather-related shocks and provide adequate protection against it. Specifically, when rainfall levels fall below established thresholds, compensation is triggered to help farmers recover and adapt from the shock. This is appropriate in context where dry spells drought are increasing in frequency and variability, such as Malawi. At the same time, excess rainfall/flash floods and pests are increasingly affecting crops and food security in the targeted districts of southern Malawi and such risks would be explored as well to build resilience of participants in a comprehensive manner.

The index, which is monitored using satellite data, makes the weather index insurance scheme more time and cost effective. Fewer field visits are needed to establish the parameters of the insurance policies and to assess the damages for payouts. This unique feature makes it a fitting tool for those who have a limited income and are unable to access traditional insurance. It also makes it more effective in stimulating a timely recovery for stressed livelihoods, helping households to avoid using negative coping strategies in times of shock and enabling long-term impacts on wellbeing.

Weather index insurance could serve as an entry point for other types of insurance and financial services with more provisions as production systems change and evolve. This transition is underpinned by the greater financial capacity of individuals. While the project will maintain a focus principally on weather index microinsurance, various appropriate insurance and financial products will be explored as the needs and capacities of the targeted households change.

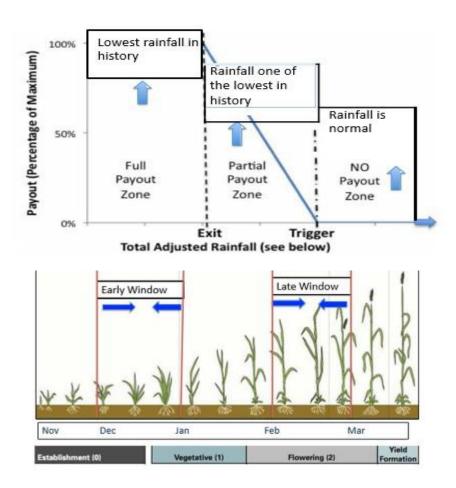
The Government of Malawi, with support from WFP, began a weather index microinsurance pilot in 2015 called the R4 Rural Resilience Initiative (R4). The pilot focused on testing the feasibility of weather index insurance and exploring the systems and approaches that could be leveraged to support a sustainable expansion of the mechanism. The index insurance product proved to be effective since it triggered twice in reflection of the El Niño drought event and the 2017/18 dry spells. The first payout reached 500 farmers with US \$3,000, and the second reached over 7,000 farmers with a total value of over US \$400,000. In 2018/2019 at total of 36,000HH were covered with micro-insurance, but there were no pay-outs as the season was good. Leveraging the success and lessons learned from R4, the Government of Malawi and WFP are seeking to expand and adapt R4 to the emerging country needs with this project. As part of a government-owned initiative, this project will be distinct from, yet complementary to, R4. The project will reach households not currently covered under R4; it will bring new risk management elements to households already participating in R4 and other resilience initiatives; and it will undertake this work through government led-strategies. It is worth noting that, similar to R4, the index for this project can be adapted to cover other crops and is not limited to maize.

The project will achieve the expected outcome through the following outputs:

# Output 1.1. A weather index microinsurance product designed for drought and dry spells to cover farmers' needs at scale

A national group of index design experts was established during the R4 pilot. The group consists of key government institutions involved in the insurance scheme, and they were actively engaged in the design and monitoring of the insurance product. They received training from WFP and the University of Columbia's International Research Institute for Climate and Society.

Building on national capacities, the project will support the index design group to collect the historical rainfall and agrometeorological data for the index design. This process will be led by the DCCMS and supported by the rest of the group. The data will be analyzed to establish the years that the rainfall levels fell below the crop requirements and resulted in a bad year. Similarly, good years for crop production on rainfall will be identified. This will help establish the thresholds for the insurance to trigger a payout. If the rainfall levels fall below the established threshold, then compensation will be paid out. Also, the threshold can be surpassed with too much water, also resulting a payout due to crop losses.



The identified good and bad years, as well as the thresholds for the insurance, are presented by the index design group to a representative sample of targeted smallholder farmers. The objective of this exercise is for smallholder farmers to validate the historical data analysis and thus support the setting of thresholds for the insurance. Farmer opinions are also sought to set the protection windows, which refer to the critical times during the crop cycle that they wish to be insured. Commonly, farmers establish two windows of protection. While one protects the establishment of the crop, the other protects the flowering stage, as illustrated above. Engaging farmers in the design of the insurance product is a very important stage of the process. Through this exercise, farmers can become better acquainted with the product, buy in into the process, and ensure it fits their needs.

In addition to the index design group, other innovations include the development of digital mobile technology solutions for collecting, analyzing, and archiving the index design group to facilitate the scale up of the initiative without facing barriers of reach. For example, the index design group will be provided tablets that have electronic forms and prompts to support data collection, including the participatory index design approach with farmers. In addition, mobile technology will be leveraged to solicit direct and specific feedback from farmers on the insurance to strengthen their involvement in the design and monitoring of the index to ensure the effective performance of the index. A proposed digital platform will host and analyze the data, further supporting the index design and monitoring functions by the index design group.

The use of innovative technologies for insurance can facilitate the analysis and communication with the Insurance Association of Malawi, specifically NICO General Insurance who has been appointed by the Association to underwrite the insurance product. This will improve the packaging of the insurance product as per the specifications noted by the farmers and the requirements noted through historical analysis. In turn, this facilitates the local and global reinsurance of the product in a timely manner leading up to the protection period. Additionally, the Insurance Association of Malawi is represented in the index design group

and are involved throughout the process and understand the product that is required. They can leverage that information to facilitate their work, which is key to establishing a sustainable and financially viable product beyond the project cycle.

Specific project activities are as follows:

- 1.1.1 Collect and analyze historical rainfall and agrometeorological data for the index design
- 1.1.2 Work with farmers using a participatory index design approach to establish the triggers for the insurance and windows of protection
- 1.1.3 Collaborate with the national insurance association to underwrite the insurance product as per the agrometeorological parameters required and farmer feedback

## Output 1.2. Awareness raised among farmers on weather index insurance and vulnerable farmers enabled access to weather index micro insurance

As insurance is a new climate risk management tool, the intended users must be well informed of its opportunities and challenges. An informed demand can be stimulated across targeted farmers to help enhance their uptake and satisfaction with the product, which is key for the long-term sustainability of the initiative. The project aims for insurance clients to adopt insurance as part of their regular practices. To achieve this, communication and sensitization are key for fostering understand the proposition of value of insurance among farmers. While these activities will be conducted by the project implementing team through district-level staff, the project also seeks to create the local structures and capacities necessary to carry out this informed dialogue. For this, the project seeks to mobilize local development structures and identify community champions to act as resources to the community. This work will be underpinned by the development of consumer education and protection materials for the Reserve Bank. The materials will help maintain standards across the sector on how to engage clients in weather index microinsurance schemes, in line with the new Directive on Inclusive Insurance, and trainings on these materials will be organized across the sector.

Stimulating the demand for index insurance requires the establishment of mechanisms to provide this service. Recognizing that different farmers have varying levels of capacity to engage in the insurance scheme despite the need for protection, the project will prioritize the development of fitting mechanisms to access insurance. Principally, the mechanisms that will be explored will target vulnerable smallholder farmers with limited cash to pay for the insurance premium, while also establishing traditional channels through which more productive farmers, who are still affected by climate change, can access the insurance with cash. Non-cash paying farmers will be supported to transition to cash payment. This approach is intended to help crowd in the market and stimulate its growth going forward, even beyond this project. The intended approach will introduce partial cash contributions after 2 or 3 years that increase with time so that farmers may pay for insurance in whole with cash towards the end of the project. The non-cash paying group will be able to access the insurance by meeting certain conditionalities; if conditionalities are completed by the farmer, the project will pay for the insurance premium on behalf of the farmer. The conditionality will be defined to contribute to climate adaptation and improved risk management. For example, households can be requested to propagate seeds for drought-tolerant crops that can help diversify their diets, incomes, and risks.

Specific project activities are as follows:

- 1.2.1 Develop consumer education and protection materials to promote an improved understanding of insurance and financial literacy;
- 1.2.2 Conduct community sensitization and mobilization on the insurance product to stimulate an informed demand.
- 1.2.3 Establish a cash payment avenue for more productive farmers affected by weather related shocks to seek insurance protection;
- 1.2.4 Establish a non-cash payment avenue for less productive farmers affected by weather related shocks, as they develop the capacity to pay for this in cash

# Output 1.3 Strengthened national capacities and systems to provide weather index insurance through the private and public sector

Building on the above, the project will continue to foster and expand the group of national experts on index design. The group has representation from the Department of Disaster Management Affairs (DoDMA), Economic Planning and Development Department (EPD), the Ministry of Agriculture, Irrigation and Water Development (MoAIWD), Department of Climate Change and Meteorological Services (DCCMS), and Insurance Association of Malawi (IAM). Each institution contributes to the insurance scheme in line with their mandate and takes a role in advancing the initiative beyond the project cycle. For example, DCCMS collects the historical and observed rainfall data to support index design and monitoring. MoAIWD collects the agricultural records for the targeted locations. DoDMA and EPD, along with the others, contribute to the field data collection, especially through farmer engagement. IAM underwrites the insurance product and disburses payouts as needed.

To support the planned national capacity strengthening activities under the AF project, WFP will expand its existing MOU with IAM to also include additional activities implemented under the 22 TAs targeted under this project once the proposal is approved.

The group is also intended to support the institutionalization of insurance as a risk management tool across key policies and strategies. This includes the National Resilience Strategy (NRS) with DoDMA, the Malawi National Social Support Programme (MNSSP) with EPD, the National Agriculture Investment Plan (NAIP) with MoAIWD, and the Inclusive Insurance Directive that guides the work of IAM. Besides these sectoral approaches, the group works to mainstream broader policies related to climate change and resilience. This is intended to guarantee that the group is able to take the work forward beyond any given project.

By strengthening their core capacities, getting their buy-in and ownership of the initiative, and supporting the institutionalization of the approach, the national group is a strategic part of the sustainability of the project's activities. This will be further articulated and operationalized in the context of the project, supported by tailored trainings and tools that will enable each entity to carry out their functions in line with the handover strategy. The trainings aim to combine practical and theoretical sessions to first expose the team to the principles and then put these principles into practice. The best way to put these into practice is to marry the training with the ongoing work related to the index design and monitoring. As such, each entity will work on the key components of the scheme for which they will be ultimately responsible. Many of the innovations that will support this work have been noted (e.g. developing the technologies needed to systematize, streamline, and scale up the processes for index design and monitoring).

Specific project activities are as follows:

- 1.3.1 Continue to train and support the activities of the national index design group;
- 1.3.2 Develop and test tools and systems that can support the work by the national index design group;
- 1.3.3 Establish a handover strategy of the insurance scheme to the national index design group.

# Output 1.4. Inclusion of insurance (not limited to weather index insurance) as risk transfer mechanisms in national agriculture programs and supported schemes

Insurance as a risk transfer mechanism is a tool that is relevant to different projects operated by MoAIWD. As such, the project team will work to establish the tools and capacities within MoAIWD to leverage insurance products (crop, floods, livestock, property and equipment, etc.) across other programs. In addition, the project team and partners will provide technical advice and guidance to MoAIWD in the design and implementation of other programs with insurance components. This is also intended to establish a comprehensive and common approach where insurance is mainstreamed as a risk transfer tool across different interventions focused on climate change adaptation and agricultural resilience. The risk transfer technical working group housed within the MoAIWD will be targeted as a vehicle for this work. The technical

working group brings together key staff within MoAIWD and acts a convening group for other relevant actors, including the private sector. Efforts will be made to strengthen this pre-existing group to help advance this work in a systematic and multi-sectoral manner. Efforts will also be made to enhance risk layering across macro, meso, and micro-levels, seeking to support alignment of work throughout.

Specific project activities are as follows:

- 1.4.1 Provide technical advice and expertise to the MoAIWD on insurance as a risk transfer mechanism that can be leveraged across different programs;
- 1.4.2 Strengthen and transfer skills on insurance to MoAIWD technical staff operating sector wide programs;
- 1.4.3 Strengthen the risk transfer technical working group by the MoAIWD and other relevant sectoral approaches.

### **COMPONENT 2:**

Climate-resilient agriculture practices adopted among targeted farmers that contribute to the integrated climate risk management approach

This component is very closely linked to the previous component. Global evidence has shown that insurance is most effective when it is part of an integrated climate risk management package rather than a standalone intervention. Insurance is a measure against catastrophic risk53. However, an individual's capacity to deal with catastrophic risk is influenced by other less severe shocks, or stressors, that they may face. For example, if farmers are unable to secure the right type of seeds or agricultural tools, then their whole production is compromised even before rainfall becomes an issue. In this context, the project seeks to offer an integrated package of support that tackles the different challenges that farmers face, which interact with insurance. The objective of this component is to deliver assistance in a way that develops the individual's capacity to adapt to climate change and become self-reliant. During the community based Participatory Planning processes which will be run at the beginning of project implementation to better define and fine-tune project activities according to the specific needs of targeted communities risks and challenges faced by communities will be further identified and ranked, in order to allow for a customized design and identification of the additional packages the targeted communities require. Nevertheless, initial community consultations have identified the need to support communities with more resilient agricultural practices, mainly dealing with soil and water conservation and irrigation, crop diversification and provision of timely and locally accurate weather and climate information and related advisories.

The project will achieve the expected outcomes through the following outputs:

# Output 2.1. Soil and water conservation practices promoted through individual and group asset creation, including irrigation development

A priority of the project is to enhance the natural productive capacity of the environment upon which farmers depend. The project will promote a dual focus on conservation agriculture (see Output 2.2 below) and the development of individual and community assets that support water harvesting. To have a significant impact, this sort of work needs to be conducted at a larger scale and not just in farming plots. As such, the project will support the creation, rehabilitation, and upkeep of water and soil conservation structures at the community and household levels. Trenches, swales, gully reclamation, and similar structures will be promoted at the community and household level. These are intended to further promote the natural capacity

<sup>53</sup> "The Potential for Scale and Sustainability in Weather Index Insurance for Agriculture and Rural Livelihoods", IFAD & WFP, http://lib.riskreductionafrica.org/bitstream/handle/123456789/1215/the percent20potential percent20for percent20scale percent20and percent20sustainability percent20in percent20weather percent20index percent20insurance.pdf?sequence=1

of the environment to provide ecosystem services upon which farmers rely for their wellbeing. To the extent possible, this approach will be married to the ongoing district-level work on integrated watershed management and guided by the national catchment guidelines.<sup>54</sup>

Through consultations with farmers, limited access to water for production and consumption has been noted as a critical challenge that is exacerbated by climate change. Water conservation practices will help farmers store and make use of water in a more efficient manner. Where appropriate, small-scale irrigation schemes (<3ha) will be explored, with a focus on community structures that are appropriate to the local environment. These are intended to use local water sources for irrigation purposes thus minimizing the time and resources spent in procuring water for production. In Balaka, there are areas where natural flooding occurs during the rainy season and can therefore be targeted for small irrigation schemes. Similarly, in Zomba and Machinga, there are small lakes that can be tapped for small-scale irrigation. The project will facilitate the development of Land Users Associations (LUAs) and Water Users Associations (WUA) to ensure access and use rights on land and water resources within the schemes, which will be incorporated in bylaws. LUAs and WUAs would help in managing the irrigation schemes while also establishing users' rules and contributions for maintenance purposes.

Recognizing that there are other development actors working on irrigation and focused on infrastructure development, the project will try to align with these efforts. To ensure the sustainability of the scheme, the project will also liaise with the district council sector leads and community development structures to select appropriate locations and approaches for this activity.

Specific project activities are as follows:

- 2.1.1 Enable individual and group work on the creation, rehabilitation, and maintenance of water and soil conservation structures;
- 2.1.2 Contribute to local irrigation structures, as most appropriate and fitting with the context.

# Output 2.2. Climate resilient agriculture promoted among farmers through extension service support

Conservation agriculture (CA) will be promoted as a climate resilience agricultural practice. Three (3) key CA principles will be promoted, namely: minimum soil disturbance, retention of crop residues, and crop diversification in form of crop rotation and/or associations.

- 1. Manual minimum tillage is characterized by planting stations (basins) that enable the farmer to plant the crop after the first effective rains when the basins have captured rainwater and drained naturally. Seeds are placed in each basin at the appropriate seeding rate and covered with clod-free soil. The advantage of using basins is that they allow farmers to capture water as soon as the wet season starts and enable precise application of both organic and inorganic fertilizer directly into the pit. Basins allow for water and nutrients to be collected/stored in vicinity of the roots and thus to be used in a more efficient way.
- 2. Retention of crop residues is important to improve soil organic matter and soil structure. With increased amounts of soil organic matter, microbes that are responsible for nitrogen fixation can thrive and conduct processes that help improve soil fertility. As a result of this, the use of inorganic fertilizers is reduced over time. The same applies for herbicides through regular weeding, which progressively limits weed growth together with mulching.

<sup>&</sup>lt;sup>54</sup> Malawi National Guidelines on Integrated Catchment Management and Rural Infrastructure https://cepa.rmportal.net/Library/government-publications/malawi-national-guidelines-on-integrated-catchment-management-and-rural-infrastructure-volume-i/view

3. The project will also promote crop rotation, including legumes that support soil fertility. This helps with pest management by interrupting the infection chain between subsequent crops and making full use of the physical and chemical interactions between different plant species. To the extent that a new balance is established between the organisms of the farm-ecosystem (e.g. pests, crops, and weeds), the farmer can learn to manage the system and reduce the use of synthetic pesticides and mineral fertilizer to a level below that of the original farming system while allowing for improvements in the productivity of the system.

Farmers will be supported through trainings and demonstrations to follow the conservation agriculture calendar. See illustrative calendar below.

Conservation Farming Calendar - First-Year Farmer											
Farmer Activities	Jul	Aug	Sept	Oct	Nov			Feb		May	June
Winter weeding											
Mark out											
Mulch/residue management											
Land preparation/dig basins											
Apply manure/fertilizer (lime											
where necessary)											
Pre-plant weeding, if											
necessary											
Plant											
Postplant weeding											
Apply N topdressing at 5 to 6											
leaf stage											
Post topdressing weeding											
Clean weeds at harvest time											
Harvest											

Specific project activities are as follows:

- 2.2.1 Promote minimal tillage for the enhancement of soil quality and water retention for crop production
- 2.2.2 Encourage the retention of crop residues to support soil processes and fertility
- 2.2.3 Encourage crop diversification and rotation for improved production and consumption

### Output 2.3. Crop diversification supported with a focus on drought-tolerant and nutritious crops

Under the CA framework, the project will support crop diversification as a key adaptation strategy to enhance productivity in the context of climate change. Besides being an adaptation strategy for productive purposes, it is also a strategy to address prevailing issues around malnutrition. The diet in Malawi is largely dependent on maize, a weather-sensitive crop that often stressed under the changing climate. While maize is rich in vitamin C, magnesium, B vitamins and carotenoids, but it is a poor source of protein and has little nutritional value when consumed almost exclusively. As such, there is a need to explore crops that can supplement maize that are both climate resilient and nutritious. Through these efforts, specific crops will be sought and promoted, such as legumes, millet, and sorghum. The specific crops to be promoted will be selected on the following basis and supported by the fitting assessments by district (with possibilities for overlap):

- Appropriate for local agrometeorological conditions
- Palatable and fitting with the local diet
- Marketable for profit
- Fits with local practices
- Desirable to local communities

Upon selection of the crops for promotion, these will be integrated into the CA trainings and supported in production and marketing (covered in Component 3 of the project). In addition, messaging on the benefits

of the crops both for production and consumption will be disseminated to targeted farmers and communities to further support their adoption. To the extend needed, cooking demonstration and other practical trainings will be offered to facilitate the uptake of these crops into diets. The messaging will be integrated into other information services offered by the project to maximize the reach and impact of the communication.

In addition, the project will support other cost-effective measures that promote community and household adaptation to climate shocks, including the promotion of seed banks. Seed banks are innovative and effective approaches to saving seeds and improving the accessibility and availability of diverse local crops, which ensures seed and food sovereignty by the communities and is a critical task of the farmer organizations (FOs). This approach will be fostered in tandem with seed multiplication, focusing on drought-tolerant and nutritious varieties.

Under this output and to establish sustainable ecosystem management enhanced with climate resilient farming systems at watershed level in should be noted that perennation and agro-forestry are now widely recognized as technologies with positive input into the Low Carbon Emission Development Strategies (LCEDS). In addition, agro-forestry systems involving Gliricidia-maize intercrops have demonstrated to be more resilient to drought and floods compared to conventional maize monoculture systems. At the same time perennation and agro-forestry in CA is generating additional benefits in integrated pest management bringing the push effect on Fall Army Worm to protect maize crop attack. The inclusion of perennial pigeon pea and trees in the cropping systems has several potential environmental benefits, including months of living cover and associated living roots that provide habitat for microorganisms and enhance soil health as well as prevent soil erosion. Trees improve microclimate (lowers temperature), improve water holding capacity of the soils, provide alternative income sources through sale of fruits and timber, and provide onfarm firewood saving farmers many hours of their precious time searching for firewood.

The ability of farmer managed natural trees (FMNR) to regenerate trees has the potential to re-vegetate micro-catchments, improve tree cover, build soil organic carbon, reduce land degradation and reduce siltation. Agro-forestry systems such as giliricidia-maize intercrops have been demonstrated to sequester about 1.7 metric tons of C0<sub>2</sub>e ha<sup>-1</sup>yr<sup>-1</sup> in Machinga and Zomba districts in southern Malawi<sup>55</sup>. Tree regeneration and afforestation are seen to potentially slow down natural resources extraction like firewood and charcoal for income. The project will build capacity of communities to use low-cost methods of regenerating trees through FMNR to revegetate micro-catchments (hence protect water courses and enhance small scale gardening/irrigation), improve tree cover, build soil organic carbon, and reduce land degradation and siltation. Capacity of nursery operators will also be enhanced through establishment of micro-irrigation systems to increase production of fruit seedlings, leguminous trees and fodder trees. In order to minimize potential environmental risks, the project will select species and agroforestry systems that are adapted to agro-ecological zones and natural ecosystems.

### Output 2.4. Climate services provided to inform livelihood decision-making among farmers.

Livelihood decision-making by farmers is plagued by uncertainty. Without knowledge about the upcoming season, it is difficult to establish the types and quantities of input needed, the right type of practices, the suitable market to target, and the investments needed to successfully harvest for both consumption and profit. Climate services are intended to support decision-making by providing farmers with information and advisories on the upcoming season. Climate services marry weather and agricultural information to help

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<sup>&</sup>lt;sup>55</sup> Kundhlande, Godfrey, Robert Winterbottom, Betserai I. Nyoka, Katie Reytar, Kim Ha, and Diji Chandrasekharan Behr. 2017. Taking to Scale Tree-Based Systems that Enhance Food Security, Improve Resilience to Climate Change, and Sequester Carbon in Malawi. PROFOR, Washington D.C.

inform farmers' actions. In addition to seasonal forecasts, which provides overviews of the upcoming agricultural season, in-season forecasts are provided every 10 days to further inform farmers.

To optimize the use of climate information in decision-making, the provision of climate services is integrated into the extension support offered at the district level. In this context, extension officers are trained to collect, interpret, and disseminate climate services. The training of extension officers is based on methodology developed by the University of Reading called the Participatory Integrated Climate Services for Agriculture (PICSA). WFP first introduced PICSA in the context of a WMO-supported Global Framework for Climate Services project focused on climate adaptation in 2015. Through PICSA, farmers, with support from extension officers, can develop livelihood plans that help inform the way they undertake their agricultural practices. This plan is informed by historical climate information and agronomical advice, and it is further supported by the seasonal forecast and in-season forecasts. The use of SMS and radio platforms to disseminate updated information allows to reach farmers beyond the extension services. In total, this facilitates farmers to adapt their practices in line with calibrated and regular climate services. For further information concerning the structure and implementation of the PICSA methodology, please consult the PICSA Manual in Annex 12.

The climate services production that underpins this activity is supported by DCCMS. They collect the historical data and produce the forecasts. Notably, since the WMO-supported programme, DCCMS has started to generate downscaled forecasts that provide district-specific details. This was a significant advancement which has enabled the production of more suitable climate services, which will be applied to in-season forecasts in this project. Throughout the season, farmers will receive the most relevant information as possible. The forecasts are merged with advisories through a national content creation platform housed within the MoAIWD. This is a multi-stakeholder platform that produces and clears content disseminated to farmers through extension support and thus benefits greatly from the guidance of the Department of Agricultural Extension Support (DAES). This project will continue to engage this national platform and support its operations. The content produced by the platform is primarily guided by the specific needs expressed by targeted communities on the timing and type of information they would need to better orient their decision-making process on livelihood activities. The details on the information needed by targeted communities will be identified at the beginning of the project through the CBPPs; however, the initial community consultations have already identified that the most viable and used channels for the delivery of climate services would be extension officers, radio programme and communication through sms; that is the reason why these are the delivery modes described in this project proposal. Farm Radio Trust (FRT) is the project partner and member of the national content creation platform who will take care of the dissemination of the climate services through the SMS and radio platforms.

Many of these techniques and approaches are starting to be used in Malawi. Some pilots have been already implemented in the districts of Balaka and Zomba as part of the WMO-supported Global Framework for Climate Services project, while BRACC and M-CLIMES projects are continuing the support in some of the TAs of these two districts. As such, the aim of the project is to complement and create synergies with the ongoing activities in these two districts in order to generate a comprehensive and uniform approach to the delivery of climate services for agriculture and food security. This will be done by targeting other communities in the districts of Balaka and Zomba, never directly addressed in any previous project, with the aim of achieving a full coverage for all beneficiaries in the districts thanks to the integration of activities of this proposal with the existing action in the ground, but without incurring in any duplication. National capacities and tools will be fostered while coordinating and enabling the work of the different stakeholders involved. National structures, such as the content creation committee and the extension services by the MoAIWD, will be leveraged and employed as the principle avenues of work for this output. For further information concerning the development of PICSA trainings and the related implementation plan, please refer to Annexes 11 and 12.

Specific project activities are as follows:

- 2.4.1 Facilitate the collection of historical agrometeorological data to inform the climate services:
- 2.4.2 Produce downscaled seasonal and in-season forecasts for each district;
- 2.4.3 Develop advisories to accompany the dissemination of the seasonal forecasts;
- 2.4.4 Support extension officers to access, interpret, and disseminate the climate services;
- 2.4.5 Disseminate climate services through SMS and radio platforms.

# *Output 2.5.* National capacities and systems strengthened to provide these integrated climate risk management approaches

Many of the approaches outlined above are already taking place in some form within Malawi. However, the impact of these interventions is compromised when they are implemented in a disjointed manner. The project will support linkages among these initiatives in terms of practice and concept, working to bring together sectors at local levels for project delivery and at the strategic policy level to encapsulate and institutionalize such approaches. The national group of experts for index design and the risk transfer technical working group can be leveraged for this, ensuring that different sectors are working together to deliver this support.

In addition, it is important to further develop capacities to deliver on each of these activities. The project will therefore work with other national initiatives implementing PICSA to create a national pool of experts that can be called upon to train extension officers and support the roll out of PICSA across the country. Based on ongoing collaboration with DAES through current projects implemented by WFP, the project will strengthen the initiative to introduce PICSA as one of the topics within the courses at Lilongwe University of Agriculture and Natural resources (LUANAR). This will ensure that students graduating from the university will already have skills in climate services for agriculture. Courses identified are in the department of natural resources management, extension methodology, and agricultural engineering.

This project is expected to strengthen the process to mainstream PICSA in the extension system, and the preparation of PICSA national experts will extend the training to cover an additional 84 extension officers to ensure a long-term ownership and sustainability of the methodology and approach in Malawi, who will reach out to 23,000 farmers over the project period. The project will also explore opportunities to further tailor the approach to the needs of other vulnerable groups. In addition, the PICSA mobile application will be used in this context to support extension officer engagement with the methods as they are in the field. DCCMS will continue to receive support on data rescue for historical data and the analysis needed to develop the down-scaled seasonal forecasts. Conservation Agriculture (CA) and irrigation are areas where actors are already working, as previously noted, so the project will liaise with them to align and support ongoing capacity strengthening efforts at the national and sub-national levels.

Specific projects activities are as follows:

- 2.5.1 Foster cross-sectoral collaboration to facilitate access to integrated climate risk management approaches
- 2.5.2 Support institutionalization of the integrated climate risk management approach
- 2.5.3 Strengthen national capacities to deliver the integrated climate risk management approaches

As discussed, this component is closely linked to the other two. Specific links are described below:

- CA support will assist with the improvement of agricultural practices to enhance the effectiveness
  of the insurance component, especially in terms of ensuring that the farmers adhere to a calendar
  of activities that is reflected in the protection period of the insurance.
- CA work on soil and water conservation structures can be considered as the conditionality for the non-cash paying farmers to access the insurance. Upon completion of the pre-specified work, then the project can pay the premium on behalf of the farmer, while they develop the capacity to pay for this in cash.

- Collection of historical rainfall and agricultural data for climate services and index design are one
  in the same. Therefore, the same mechanisms can be used for both, including leveraging DCCMS
  and MoAIWD expertise. This optimizes financial and time resources, making the project more costeffective.
- By informing livelihood decision-making through forecasts, climate services can be a tool to promote the uptake of the insurance. If farmers are aware of a poor upcoming season, they will be more motivated to purchase insurance. For this reason, messaging through the climate services is also intended to support the creation and dissemination of content on insurance, as part of the component on client education and protection, as well as awareness raising and sensitization.
- The crops promoted through the diversification activities will be supported by the marketing activities under component 3 to ensure that selected crops are commercially viable and part of a sound livelihood strategy.
- The communication channels used for the climate services can be leveraged for the market information activities under component 3. As noted earlier, the project intends to minimize the use of multiple communication channels to enhance the reach and impact of the messages delivered.

#### **COMPONENT 3:**

Strengthened market access strategies and approaches for smallholder farmers

Component 3 seeks to enhance climate adaptation and resilience-building through three avenues: (1) the promotion of climate-resilient value chains, (2) the strengthening and diversification of livelihoods, and (3) the valorization of climate-resilient activities, which help ensure uptake and adherence. The approach is enhanced by the focus on fostering farmer organizations (FO) and contract farming opportunities for vulnerable farmers. This will be pursued in line with the Farmer Organization Development Strategy (2018) and the Contract Farming Strategy (2018). Component 3, with components 1 and 2, are therefore expected to facilitate the transition of farmers from subsistence to surplus producing, even in the context of climate change.

The component is primarily focused on making investments in climate-resilient production sustainable in the medium-long term. To do so, the demand side of agricultural production will be stimulated. The project will achieve this objective by fostering FO formation and capacities. In addition, the project will also work to support aggregation, processing, storage, and local purchase. These activities are intended to contribute to the establishment of a reliable market outlet that can provide sustained prices for farmers' increased production. In the long run, this will decrease the need for seasonal/conditional food assistance as smallholders will be able to produce their own food as well as protect and continue investing in climate-resilient practices, through interaction with the private market.

The expected outcome will be achieved through the following outputs:

# Output 3.1. Strengthened financial capacities and market access opportunities to enhance investment in climate-resilience agriculture (including saving, credit, and financial literacy)

Through the project, financial literacy trainings will be conducted to develop the capacity of farmers to access and benefit from financial institutions (both formal and informal). Financial literacy refers broadly to the skills and knowledge that allow individuals to make informed and effective decisions regarding financial matters, specifically in relation to accessing formal and informal financial services. Methods and timings for savings and investment are discussed through the trainings, in conjunction with their use in building household resilience and food security. As such, financial literacy trainings will be focused on making financial tools part of the strategies that households use to build resilience and enhance wellbeing.

Savings are intended to provide a means for households to manage idiosyncratic shocks and develop reserves for investing in better lives and livelihoods. Idiosyncratic shocks are individual events that negatively affect the household economy (e.g. death or illness of a household member, theft, and fires). These shock events often require incomes to be diverted to meet unexpected expenses. Poor households with little disposable income are limited in their capacities to manage these shocks. Having savings to rely

on can help them manage the consequences of these shock events and minimize the negative impacts on the household economy. In normal times, where there are no shocks, these reserves can be tapped to strengthen livelihoods through investment and enhance household wellbeing by increasing their consumption levels.

Bank and microfinance institution (MFI) penetration tends to be low in rural areas. Financial services tailored for these communities are often missing, and when they do exist, access is strained. Farmers and other rural populations also tend to have little knowledge and capacity to readily engage with these services. An initial strategy to overcome these challenges is to facilitate the creation of group savings. Group savings are a means to foster participants' saving and investment capacities. These initial capacities make them more apt to seek and qualify for formal financial services, as well as familiarize them with the ways savings can be used for productive purposes aimed at building resilience and food security. Group savings therefore have a dual purpose: fostering financial capacities and knowledge, and improving protection and promotion in the integrated risk management approach that farmers use.

The objectives of the credit component are to empower participants to take prudent risks and to develop livelihoods that are less exposed to increasing climate risks. Smallholder farmers are often reluctant to invest land, labor, or capital in activities that are vulnerable to external shocks. They may prefer to stick to low input-low output production systems that guarantee a predictable, although low, income. Investment is also limited by MFI's reluctance to offer credit to farmers because of the perceived high risk of default in bad seasons. With increased food security and a stronger asset base, farmers in the project can increase their savings and stocks, using them along with insurance as collateral to obtain credit for investing in productive assets such as seeds, fertilizers and new technologies that increase productivity. Moreover, insured farmers are more confident to take out loans and invest in productive inputs and alternative livelihood activities, knowing that the risk of drought is covered. This activity, overall, is geared towards enhancing adaptive capacities by supporting investments in the growth and diversification of livelihoods.

The project will specifically try to leverage the credit component to remove the barriers related to the uptake of climate-resilient agriculture, which farmers noted include limited access to the necessary technologies and inputs. A strategic partnership with an MFI will be sought to help develop a tailored input loan package for project participants that can be accessed by requesting an invoice from local agro-dealers who then invoice the package to the MFI and release the products to the farmers. The input loan package will include the inputs required for CA uptake, including diversified seeds. The loan can be offset by payments received from contract payment arrangements, which will be further described below.

Specific project activities are as follows:

- 3.1.1. Strengthen the financial literacy of targeted famers to enable them to make informed and effective decisions about their financial resources
- 3.1.2. Promote savings as a buffer against idiosyncratic shocks and a means to support productive investments for diversified livelihoods
- 3.1.3. Enable access to credit for farmers to adapt and diversify their livelihoods, making them more productive and resilient

# Output 3.2. Performance and outreach of farmer organizations/cooperatives strengthened, and capacity to engage in farming as a business enhanced

Farmers, who have adopted climate-resilient practices and complemented this with the uptake of climate risk management strategies, have struggled to adhere to these practices over time because they are unable to reach markets, which make investments in these activities financially viable and attractive. To truly be effective in supporting long-term changes in climate adaptation and resilience, this project aims to ensure that the farmers that apply climate-resilient agriculture and risk management strategies have market options that will help them sustain the changes to their livelihoods. FOs are a conduit for this change as larger groups of farmers can collectively aggregate their produce and better market their produce. In addition, the FO structure offers an avenue for targeting farmers with project components 1 and 2.

In recent years, the number of FOs in Malawi has grown considerably. While this is an encouraging trend, there are also observations that many of these FOs lack the capacities to operate in a meaningful manner, namely enabling interactions with input and output markets. The project intends to reverse this trend to ensure that the objectives of the FO Development Strategy are fulfilled. To do so, the project will facilitate the processes for FOs to be created by providing specific support on collaboration, coordination, and overall good governance. Rather than creating new organizations, the project will seek to support pre-existing FOs, especially if FOs are failing to meet their full potential. When needed, new FOs will be supported where there are none present or where it is not feasible to link farmers to preexisting organizations. The solidarity networks fostered under the group saving activities could be leveraged to this end.

Besides the lack of coordination and weak governance structures, the project seeks to address other challenges to FO performance that limit their potential, such as the lack of business skills and leadership. Trainings on business planning will be conducted and FOs will be supported to operationalize these. In addition, trainings will be offered on FO leadership and engagement, the latter focusing on how the FO interacts with stakeholders beyond the organization. Lastly, another proven challenge for FOs performance is their lack of capital. For this, the saving component noted previously can be leveraged and further developed to capitalize the organization, especially through the accrual of interest related to the loan component of the groups.

Specific project activities are as follows:

- 3.2.1. Promote farmer organization through the linking of farmers to existing structures or the formation of new organizations, as most appropriate
- 3.2.2. Enhance the performance of farmer organizations to improve engagement with buyers

# Output 3.3. Targeted farmers supported to access storage and aggregating infrastructure for greater market access, including establishment of rural warehouses

Many of the existing FOs have arisen from the promotion of grain banks. Grain banks helped cement the group dynamics and kick-start ideas on business and marketing. Much like the saving activities, grain banks also function as a buffer to shocks, which help FOs manage shared shocks. This can support other strategies promoted by the project, such as insurance. Besides these benefits, there are more direct benefits, which principally include the promotion of improved crop handling and storage after the harvest. Improved post-harvest storage allows farmers to maximize their production and sell greater quantities of produce for a better price at a time that is suitable for them. With improved storage techniques, farmers no longer have to rush to sell immediately after the harvest at depressed prices. They can hold off and wait for the prices to be more favorable and to aggregate greater volumes for greater profits. In this context, grain banks and post-harvest loss management techniques and technologies will be promoted under this output. Where possible, these will be supported to grow to warehouses or link to established warehouses. Warehouses are a crucial element as they can help aggregate for specific buyers and act as a formal quarantee of the quality and quantity of the produce that is being collected. As a result, it is necessary for the FO and its members to also become familiar with practices and techniques to improve the quality and quantity of produce. This will be supported through tailored trainings, in line with the post-harvest loss management activities.

Specific activities are as follows:

- Enable the set-up of FO warehouses to support the aggregation and storage of produce for sale
- 3.3.2. Support the connection of FOs to formal warehouse networks in the country that help guarantee the quantity and quality of produce to buyers
- 3.3.3. Develop capacities of storage, including on quality assurance

### Output 3.4. Market information provided to inform business planning and activities.

Variability in climate often translates into variability in food prices. This trend has negatively affected farmers as the lack of stability of food prices makes it hard to plan as a business and get clarity on the best options for marketing their produce. Climate change and variability is exacerbating the prevailing challenge, and farmers will increasingly struggle to sell their produce at competitive prices without accurate market information. As a response to this challenge, MoAIWD and its partners provide market information to farmers. However, there are many dynamics at play which make the provision of market information very complex. In response, the project aims to support government activities on market data collection, packaging, and dissemination. For data collection, the project partners will work together to scope the country and gather the most indicative and realistic prices based on observed patterns. On data packaging, the project partners will work together to provide the data collected in a digestible manner that facilitates action. Dissemination will focus on the timely delivery of this information at critical times of the agricultural year through the most appropriate technologies. For the latter component, the communication channels used by the climate services component will be leveraged once more to minimize the number of information sources and enhance the impact of the communications.

Besides providing data to farmers and FOs to help inform their business planning, it is important to provide data to buyers as well. In this context, data collection on FOs will be supported. This will help develop a repository of FOs that can be accessed by buyers to orient their procurement strategies. The basic details will be collected upon registration and updated regularly through interactions with FOs, which can leverage the market data channels and create a feedback loop. This can also be a tool to map out capacity needs and better target capacity strengthening activities by the project.

Specific activities are as follows:

- 3.4.1. Collect market data from across the country, leveraging on existing efforts
- 3.4.2. Package the collected data to share with farmers to inform their business planning
- 3.4.3. Disseminate the collected and packaged data through different channels, specifically targeting FOs
- 3.4.4. Report details of FOs, enabling the mapping of procurement capacities and needs

# Output 3.5. Smallholder procurement promoted through government and private sector strategies and programmes

To further ensure the valorization of climate-resilient activities and supporting their long-term adoption by farmers, it is important to ensure that farmers are connected to input and output markets. This sentiment is echoed in the FO Development Strategy, which stresses the need to create an enabling environment for the FOs. This includes addressing the lack of clear regulations and governance of FOs and their interactions across the value chain. In this context, efforts will be made to reverse this negative trend and support the operationalization of the Contract Farming Strategy that aims to connect FOs to private sector buyers.

The Contract Farming Strategy has been formulated to create an enabling environment for all entities participating in contract farming or supporting its implementation in Malawi, including farmers, buyers of agricultural outputs, suppliers of farm inputs, and third-party entities providing support services to contract farming arrangements. The strategy aims to facilitate an efficient, competitive and fair contract farming in Malawi. As such, the strategy provides guidance on the actions of various stakeholders engaged in contract farming arrangements in Malawi and outlines the broad regulatory frameworks necessary to make contract farming work benefit everyone. The ultimate impact is to use contract farming, where appropriate, as a mechanism for creating wealth while reducing inequality through increased profitable market access for farmers and buyers of agricultural outputs. In the context of this project, the Contract Farming Strategy is expected to contribute significantly to work done to ensure farmers' access to the climate-resilient inputs required to adapt to the changing climate.

Leveraging the potential gains from the implementation of the Contract Farming Strategy, the government can seek to make use of this approach to procure from smallholder farmers to meet strategic food security objectives, particularly the replenishing of national food stocks. Different strategies will be scoped for this work. For example, the feasibility of linking local, smallholder procurement to meet the needs of social protection programs will be explored. Particularly, linkages to expand homegrown school feeding will be assessed, leveraging the policies and strategies that underpin this work. Additionally, activities under components 1 and 2 will enhance the production of farmers, making it less variable from year to year and therefore enhancing their attractiveness to buyers, public and private alike. Hence, the components are sought in conjunction.

This output links to other components and their activities as:

- Support through contract farming and FO trainings improves the uptake of climate-resilient and nutritious crops promoted by the project in Output 2.3.
- Insurance, as promoted in Component 1, is a financial tool that can be used for climate risk management along with the saving and credit activities. Therefore, insurance, savings and credit activities need to be closely aligned. For example, saving cycles can aligned to the agricultural calendar and insurance protection period promoted by the project. Similarly, the value of the sums insured for the insurance can be aligned to the farmers' gross margins, including the costs for taking loans promoted by the project.
- Communication channels across components need to be uniformed and/or coordinated to enhance the impact of the messaging and minimize potential confusion. This refers to messaging on the insurance, climate services, nutrition, and market information, outlined in Components 1 and 2

Specific activities are as follows:

- 3.5.1 Foster an enabling environment for FOs to engage with input and output markets
- 3.5.2 Facilitate contract farming arrangements linking smallholder farmers with buyers
- 3.5.3 Promote smallholder procurement by the government to meet strategic food security objectives

# **Project Linkages & the integrated Approach**

The project will pursue an integrated resilience approach that is adaptive and able to support graduation processes. This programming approach adopts a theory of change that represents emerging evidence on how investments to improve access to productive assets, skills, and knowledge contribute to breaking the cycle of food insecurity and improving resilience to climate change when gradually combined with an integrated risk management package (financial savings, credit, insurance scheme, climate services), technical assistance, and access to structured markets.

Under Component 1, the protection of insurance and compensation, when triggered, can help households maintain their level of wellbeing, even when shocks occur. In shock-free years, insurance can act as an enabler for investments and diversification in livelihoods as it provides a guarantee for credit and the security of compensation in the event of a poor season. However, global evidence has shown that insurance is most effective as part of an integrated climate risk management package instead of a standalone activity. This was also verified in the context of Malawi where insurance has been trialled successfully as part of an integrated package since 2015. While the first component works to transfer risk away from households, the second component works to increase and sustain food production.

Under Component 2, to achieve food security and reduce vulnerability to climate change and weather shocks, the project will contribute to transforming the downward spiral of degrading landscapes into a virtuous cycle of increasing productivity and income opportunities as land systems are an essential base upon which lives and livelihoods depend. Asset creation is the entry activity for the integrated resilience approach, and it aims to create productive assets through a watershed management approach. Asset

creation comprises mostly of soil and water conservation activities, thus playing a fundamental role of rehabilitating many degraded landscapes and improving soil quality. Asset creation activities also focus on supporting crop production through irrigation and facilitating access to drought-tolerant, nutritious, and high-value crops. Supporting alternative crop production is used as one way to restore livelihoods, improve food and nutrition security, and contribute to improving farmers income.

In addition, this component also includes the provision of climate services for risk-informed agricultural decision-making based on tailored climate and weather information communicated through radio, SMS, and extension workers. In addition, savings promoted through village savings and loans group will act as a buffer for smaller, individual shocks, as well as a fund for investments in diversified and more resilient livelihoods. Credits promoted through micro-finance will support prudent risk taking and larger investments into farmers' livelihoods. Providing targeted households with a package of asset creation, integrated risk management, and climate services is critical to promoting resilience and food security. When graduating to this stage, it is then possible to support farmers' transitions from subsistence to surplus producing, under component 3.

Under component 3, the project will continue to support graduation with greater access to improved storage, post-harvest loss management technologies, and aggregating infrastructure to increase market access. The project will support transitioned farmers to develop their livelihoods, improve post-harvest skills to meet market standards, and open market platforms for farmers through associations and/or cooperatives.

See Annex 4: for the flow of the interventions across components.

# B. Economic, Social, and Environmental Benefits

Describe how the project / programme provides economic, social and environmental benefits, with reference to the most vulnerable communities, and vulnerable groups within communities, including gender considerations. Describe how the project / programme will avoid or mitigate negative impacts, in compliance with the Environmental and Social Policy of the Adaptation Fund.

#### Social & Economic Benefits

A variety of social and economic benefits are expected to result from the proposed project. These are enlisted and detailed as follows:

• Improved incomes: The integrated climate risk management package is intended to help farmers adapt and improve their agricultural practices by tackling some of the major challenges that they face. By having greater access to improved soil and water resources, agricultural inputs, and information for livelihood-decision making, the expectation is that farmers will be able to realize greater yields even in the face of a changing climate. This will be enough to meet household food needs, which should reduce household expenditure on food items. In addition, the surplus they produce through the contract farming arrangements, including adequate storage, should help guarantee a reliable income that can continue to grow. In this way, variability is minimized, addressing the fluctuations in income within and across years. In addition, through more disposable income, participants will be better able to invest in their farming activities, further improving their livelihoods and wellbeing to adapt to a changing climate. The insurance helps protect their investments and promote confidence in their livelihood diversification and growth. This premise is supported by evidence stemming from the insurance pilot by WFP Malawi, where household expenditure grew by 31 percent between 2015-2017, with female headed households experiencing more significant gains (33% compared to 29% in male-headed households).

<sup>56</sup> The figures presented are from the monitoring and evaluation work done by WFP on its resilience interventions. At present, these are internal figures. Future plans look to share these broadly, including a potential publication.

household expenditure on non-food items in the same period grew from 35% to 58%, showing the augmented household capacity to invest in health, education, and livelihoods for the improvement of household wellbeing. Similar and greater gains are expected from this project.

- Enhanced food security and nutrition: The combination of the integrated climate risk management package with insurance encourages and supports farmers in diversifying the crops they grow. In addition, the accompanying messaging and guidance supports the integration of these new food crops into their diets. As drought-tolerant, nutritious crops will be promoted and protected through the project for both production and consumption, the expectation is that this will result in improvements in food security and nutrition. This is supported by evidence from the insurance pilot in Malawi between 2015 and 2017. Improvements in overall food security, as measured by the food consumption score, were visible. The share of households with an 'acceptable' FCS<sup>57</sup> grew from 58% to 89%. In addition, the share of the population with both 'poor' and 'borderline' FSC decreased from 45% jointly to 11%. As the FCS is based on dietary diversity, food frequency, and relative nutritional importance of the various food that groups consumed, this is a good marker for both food security and nutrition. This project can equal and surpass these achievements, given the closer focus on crop and diet diversity.
- Improved resilience: Resilience is a complex term that is also dynamic and context-specific. As such, there is no single definition or measure for this. To overcome this, the project defines resilience as the set of capacities required before, during, and after the onset of shocks and stressors. Resilience entails the ability to: i) absorb: resist a shock or the eroding effects of a stressor by reducing risk and buffering its impact, which leads to endurance and continuity of livelihoods and systems; ii) adapt: respond to change by making proactive and informed choices, leading to incremental improvements in managing risks; and iii) transform: change the set of available choices through empowerment, improved governance and an enabling environment, leading to positive changes in systems, structures and livelihoods. Accordingly, the project will adopt a way to measure the different abilities, making use of composite indicators and different standalone indicators. Given the fact that the project will target both the chronic and acute challenges and shocks that households face, with a focus on building the capacities of households to better manage these shocks, gains across different resilience indicators are expected. With reference to the insurance pilot, the share of participating households using negative livelihood coping strategies had decreased from 60% to 29% between 2015 and 2017. The biggest drop was in the use of coping strategies categorized as 'crisis' and 'emergency', which include the selling of land, livestock, and other productive assets. These have negative impacts on the longterm wellbeing of the household since it takes a long time to recover from such setbacks, and the positive results from the insurance pilot is promising for the long-term perspective. This is also supported by the improvement in the composite resilience measurement. Using the Resilience Index Measurement and Analysis tool (RIMA II), it has become clear that households are benefiting from improvements in their resilience capacity index (RCI)58. The RCI at the baseline was 47.5 and has grown to 56.2 for treatment households. For the control group, RCI has remained at 30 throughout the period. The project aims to meet and surpass these achievements.
- Improved livelihood decision-making & adaptive capacity: Adaptive capacity is the ability of a
  household to adapt to a new situation and develop new strategies of livelihood. This is underpinned by
  having the information necessary and the resources to make such changes. The project's integrated

<sup>58</sup> The RCI is the output of the RIMA II analysis, which takes into account key features on resilience, which are grouped into 4 categories, namely: access to basic services, assets, adaptive capacity, and social safety nets.

<sup>&</sup>lt;sup>57</sup> The higher the FCS is the higher the dietary diversity and frequency. High food consumption increases the possibility that a household achieves nutrient adequacy. Households are divided into one of three groups based on their food consumption score: poor, borderline or acceptable food consumption.

climate risk management, insurance, and market access components, especially the information-sharing activities, are all geared to facilitate gains in adaptive capacity based on improved livelihood decision-making and strategies. From projects that use these approaches, evidence shows that 73% of participants use the information provided for livelihood-decision making. This includes information offered via SMS, radio, extension officers, NGO partners, and lead farmers. They disseminated decision-making advisories on subjects related to the types of seeds to use, the best time for planting, in-season monitoring, as well as post-harvest management and marketing. The majority used it for deciding the seed types and planting times (55% and 54% of the reporting population, respectively). The proposed project is intended to meet and surpass these figures, seeking broad endorsement of the advisories for decision-making and adaptive capacity.

- Financial & market inclusion: By embedding insurance with saving and credit opportunities, financial inclusion and economic empowerment gains can be achieved, especially for women. This is evidenced by recorded increases in household savings, credit uptake, and repayment, as well as changes in household income and expenditure from similar projects. Building on the growth and stabilization of incomes, supported by average expenditure increases, households have used these to create buffers to shocks and make investments through saving and credit. For savings, activities have grown considerably, especially for women who increased the amount saved by 274%<sup>59</sup>. This has, in turn, supported increases in loan amounts. In 2017 alone, female-headed households successfully accessed loans that were 33% larger than the previous season while men recorded a 22% increase. No defaults have been recorded under the initiative's credit-supported product. This has spurred interactions with input and output markets, which overall has supported greater economic gains for the targeted households. With the additional element of contract farming and farmer organization development, this project is expected to achieve greater gains in terms of financial and market inclusion.
- Economic empowerment & equity: The project targets both low- and medium-productivity farmers with variable degrees of vulnerability to climatic shocks. As such, it has a strong emphasis on equity and ensuring sustainable development outcomes for all. Special emphasis is placed on vulnerable and marginalized populations, including women. Strategies are in place to guarantee that these groups can access the project and achieve gains that help them match and surpass those who are less vulnerable. Consultations with these groups have shown that the greatest difference is in terms of asset ownership and economic empowerment. Without these, the adaptive capacities of households are limited. As such, the project will focus on targeting inequalities in asset ownership while also working towards economic empowerment. Evidence has shown that this is possible; as referenced above, womenheaded households have achieved greater gains in income, saving, and credit which have turned into livelihood benefits and improved standards of living. Women-headed households have noted anecdotally that these gains have allowed them to improve the building materials of their house, school attendance of their children, and access to basic services, and their gains have had spillover effects to their households and broader community. This further justifies a focus on those further behind, especially women, who are key catalysts for change. This project is expected to also achieve such gains in economic empowerment and equity.
- Culture & tradition: The project will ensure that community and religious leaders, along with the
  communities themselves, are part of the solutions that aim to contribute to adaptation. In addition, the
  project will seek to protect and promote local indigenous practices that bolster this approach, including
  the promotion of local, traditional crop varieties, which have proven to be drought-tolerant and of
  nutritious value. Similarly, through the climate services and other types of advisories, local, indigenous

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<sup>&</sup>lt;sup>59</sup> Figures compare baseline in 2015 to outcomes by end 2017

knowledge is incorporated, as appropriate. Therefore, Components 2 and 3 specifically will contribute to this, and overall, project planning and design will incorporate this through the use of participatory approaches that are culture- and context-sensitive.

- Gender: To ensure compliance to the international treaties around gender and climate change and consequently adhere to the Adaptation Fund Gender Policy, this project ensures that women and men will have equal opportunity to build resilience by addressing their differentiated vulnerabilities and increasing their capabilities to adapt to climate change impacts through project implementation. Two specific gender objectives for the project have been established:
  - 1. To improve gender equality within the targeted three districts and the 22 TAs
  - 2. To promote gender empowerment and women's leadership within the project implementation and within decision-making bodies.

The project will contribute to promote gender equality through strategies to empower women and girls with concrete commitments to ensure equal rights, access, and opportunities for participation and leadership in the project and in community decision-making. By empowering women, the project will ensure that men and women are informed on the need to improve women's involvement in decision-making, as well as the benefits of women's progress to the family and community.

In addition, the project seeks to guarantee the equitable benefit of women from the support initiatives. As such, the following gains are deemed possible in the context of the project, as informed from evaluations of similar projects<sup>60</sup>:

- Insured female-headed households increased agricultural investments more than male-headed households. Female-headed households increased their spending on hired labor and hired oxen more than other insured farmers and more than the uninsured across all districts, which may explain partly how they were able to start cultivating more of their own land.
- Insured female-headed households decreased the amount of land that they sharecrop out more
  than other insured farmers and more than the uninsured. Sharecropping out land is a significant
  obstacle to improving livelihoods, as the person who farms the land retains one-half or two-thirds
  of the yields. Sharecropping out land is more common among female-headed households because
  they are more likely to lack oxen and the labor needed to cultivate their own land.
- Across all districts, insured female-headed households increased the amount of land planted more than other insured farmers and more than the uninsured. They also increased the amount of improved seeds and the total amount of compost more than all other groups.
- Insured female-headed households increased the number of loans more than other insured farmers and more than the uninsured. The increased borrowing may have enabled them to increase their inputs.

The Government and WFP-commissioned Gender, Social and Environmental Assessment for the Adaptation Fund project (2019) identified an urgent need to prevent violence against women and girls, ensure equitable access to social services and productive inputs, and promote the equality of women in labour markets and decision-making processes to ensure full contribution to climate-related planning, policy making and implementation. Specific activities are integrated into the design of the asset creation activities under the insurance for asset activities (IFAs) under component 2 are carried out in conjunction with sensitisation and behaviour change interventions to address violence against women and girls. The WFP Protection and Gender Officer will provide additional guidance in terms of practical

<sup>&</sup>lt;sup>60</sup> Madajewicz, M., Tsegay A.H., and Norton, M., 2013. *Managing Risks to Agricultural Livelihoods: Impact Evaluation of the HARITA/R4 Program in Tigray, Ethiopia, 2009-2012.* Oxfam America. Available here: <a href="http://www.oxfamamerica.org/static/media/files/Oxfam\_America\_Impact\_Evaluation\_of\_HARITA\_2009-2012\_English.pdf">http://www.oxfamamerica.org/static/media/files/Oxfam\_America\_Impact\_Evaluation\_of\_HARITA\_2009-2012\_English.pdf</a>

tools to be used to achieve greater participation of women in integrated watershed management, climate-resilient agriculture, and associated benefits.

In order to reach the objectives outlined above, including those listed in the cross-cutting section, and in line with the findings from the Gender and Environmental Social Assessment, the project will invest in project staff capacity to build their skills and knowledge to mainstream and institutionalize gender transformative approaches during programme implementation. The project team will account for the cultural context and the different barriers (e.g. physical, attitudinal, informational and communicational) that may undermine equal gender participation at each specific Traditional Authority. The project will endeavor to ensure participation from the entire community in project design through CBPPs and project implementation, especially from traditionally disadvantaged and vulnerable groups whose participation otherwise might not be assured.

- Transparency & accountability: Transparency, inclusion, and accountability are fundamental aspects of targeting that help ensure that areas and participants are adequately included and that project benefits are distributed equitably to vulnerable communities, households, and individuals. Considering how many communities in the targeted districts have high proportions of marginalized groups (e.g. chronically ill, widows, elderly, child-headed households), the project will endeavour to ensure participation of these households into all project activities. To ensure that the project meets the needs of vulnerable groups or individuals in the targeted community and that project benefits are equitably distributed to these groups, the following steps will be considered:
  - i) Community-based participatory planning sessions at community level will include representation from a cross-section of all socioeconomic groups, including women, youth, men, and the elderly, to identify activities and beneficiaries based on vulnerability profiles
  - ii) Involvement of local representatives of women's organizations in project planning and implementation;
  - iii) Involvement of men and women in the decision-making processes of project planning, beneficiary identification, and activity implementation in all project components and on equal terms;
  - iv) Promotion of gender-sensitive activities at the household level (e.g. the targeting process shall consider the key role that women play in the production activities).

The project aims to strengthen national capacities and institutionalize this approach by leveraging national and sub-national strategies and policies that offer a regulatory and guiding framework, which enhances the transparency and accountability of these processes. Examples include the Inclusive Insurance Directive, the Contract Farming Strategy, the Farmer Organization Development Strategy, the National Agriculture Investment Plan, and the National Adaptation Plan. Besides ensuring the alignment to these, the project seeks to establish a handover strategy that clearly outlines how the project activities and responsibilities will be assumed by national stakeholders for the sustainability of the approach

Lastly, a comprehensive complaint and feedback mechanism will be established, which allows project participants to make queries and complaints for the project team to resolve based on the standard operating procedures and enable actors to react accordingly to improve the implementation of the project. (See Annex 5 for the details on the set of the complaints and feedback mechanisms)

## **Environmental Benefits**

Implementation of an integrated watershed management approach will be central to promote enhanced climate adaptation and food security of the targeted communities and households and to achieve long-term environmental benefits in the project areas. Management of a watershed entails the rational utilization of land and water resources for optimum production with minimum impact on natural and human resources. Through asset creation activities, such as soil and water conservation measures, soil erosion will be reduced; water retention will increase, helping to the replenishment of the water table; vegetative cover will increase; and soil fertility will be enhanced. In addition to livelihood restoration, food security and nutrition

improvements, and resilience building, targeted degraded landscapes are expected to be rehabilitated with multiple environmental benefits.

Practically, the watershed management activities will support:

- i) Harnessing, conserving, and developing degraded natural resources (e.g. soil, vegetative cover and ground water)
- ii) Prevention of soil run-off/erosion
- iii) Rainwater harvesting and recharging of ground water, increasing potential for promotion of irrigation and fishery activities in the context of river basin benefits;
- iv) Increasing the productivity of crops, including drought-tolerant grants.

This approach is based on evidence from ongoing watershed management programmes in Malawi and other countries, which highlights impact of such initiatives for communities and households that depend on natural resources. The expected environmental benefits are detailed below:

- Improved soil functions from the integration of minimum tillage practices, crop diversification, organic
  matter retention, and the use of organic fertilizers and inputs, as well as the household and community
  structures promoted. The improvements derive from reduced soil erosion and enhance soil processes
  supported by organic matter integration.
- Improved water availability from the integration of minimum tillage practices and conservation structures promoted, such as swales, trenches, and gully reclamation work, which will be done at the household and community levels.
- **Improved productivity of land** based on enhanced land, soil quality, and agricultural practices that are more sustainable and climate-resilient.
- **Improved organic waste management** promoted through the CA, including the retention of organic matter from the fields. This replaces negative practices, such as slash and burn which typically uses fire to clear land and results in the loss of organic matter and soil quality.
- Reduction in disaster risk can be achieved as the soil structure will be consolidated and less prone to destabilization from external hazards. By decreasing soil erosion and improving water retention, risk for flooding is reduced. Also, all asset creation activities aim at improving soil fertility and water harvesting, therefore rendering communities more resilient to droughts.

## Avoiding or mitigating negative impacts of the project

The following measures will ensure that the project activities are designed and implemented in a way that the project mitigates the negative social or environmental impacts identified above:

- Inclusive and representative community engagement in planning and implementation of the programming, including in the monitoring of the project's activities, to avoid and early detection of potential issues on community conflict
- Close collaboration with MoAIWD, (MoITT), (EPD), (DoDMA), (DCCMS), (MoLGRD), (EAD), Reserve
  Bank of Malawi (RBM), Insurance Association of Malawi (IAM), at technical level and at district level
  ensuring implementation of project plans is aligned and fully integrated with the local development plans
- Technical support sought from experts in the field especially in relation to sensitive or specialized services. Examples include gender and protection issues as well as irrigation and integrated resource management.
- Implementation in accordance to national standards and safeguards articulated in various policies strategies and guidance documents.
- The project will also set-up a complaints and feedback mechanism (CFM) to ensure proper accountability to affected populations to the communities in all TAs targeted, with clear established protocols for the resolution of complaints filed. The CFM systems will have clear procedures for recording, referring, taking action and providing feedback to the complainant and will ensure that concerns are addressed promptly and effectively in a transparent manner. The CFMs will be free of

charge for the affected persons, and without retribution and without preventing access to judicial or administrative remedies if required. (see Annex 5: Procedures for handling complaints (Complaints and Feedback Mechanisms)

- Overall (i.e. at project level) environmental and social screening and categorization against AF's Environmental and Social principles has been done during the project formulation stage. For all component 2 activities, activity-level environmental and social screening will take place at the project implementation stage.
- Prior to the implementation of some of the proposed intervention, including land and soil conservation activities and water storage for irrigation, feasibility studies will be carried out.
- An environmental and social management plan (ESMP) has been developed (see annex 6) and will be updated based on the results of the activity-level environmental and social screening.
- Continuous monitoring of the implementation of the ESMP will be ensured by the Executing Entity and WFP.
- Promotion of complementary activities such as village savings and loans groups (VSLs) and income
  generating activities (IGAs) and related technical training that will empower men, women and youth to
  make investment decisions including how much land to cultivate, what crops to produce, how much
  water to use for irrigation and other related cropping activities.
- Assist communities set up mechanisms to facilitate equal participation of and benefits sharing for group
  members, especially youth and women who are envisaged to have a key role in agricultural related
  programmes. This includes the support to the set-up of water user associations for small-scale irrigation
  schemes. These water user associations will ensure the correct management and maintenance of the
  irrigation infrastructure and will also focus on gender equity access, use and benefit of all members.
- The project will also implement further analysis on land tenure and its impact.
- The project will link up with Ministry of Health that have a program on malaria prevention campaign by supplying mosquito nets, in addition the project will only promote small scale structures (<3ha) which will minimize the potential for public health risks spread, while WFP will ensure that the ESMP is properly implemented.
- The project will use a multitude of mechanisms (face to face, radio, cell-phones and sms's, internet, television, newspapers, etc.) to ensure that all men, women and youth have equal access to climate information; training on climate adoptive agricultural practices and other capacity strengthening activities.

Please see Section K for additional information on how the project will avoid or mitigate negative environmental and social impacts, as well as the attached Environmental and Social Management Plan (ESMP) (Annex 6).

# C. Describe or provide an analysis of the cost-effectiveness of the proposed project / programme.

The project concentrates its activities on 22 TAs in Balaka, Zomba and Machinga districts to to reach the maximum benefits in the targeted areas. The project components will be delivered as part of an integrated and holistic package of interventions, mutually reinforcing the achievement of every single component, thus avoiding 'stand-alone' initiatives. The activities of climate risk reduction, couple with risk transfer given by the enrolment in the micro insurance scheme, livelihood diversification, microcredit and savings will all contribute to support beneficiaries in their transition

out of the cycle of food insecurity and poverty. The innovative selected approaches have been trialled and have shown some promising results in Malawi and in other countries.

Regarding the design of Component 1, three alternatives were considered to promote the use of insurance among targeted beneficiaries: The use of large scale commercial agricultural insurance packages , the use of Crop insurance and the use of weather insurance.

In 2016, the Malawi government took out commercial large-scale insurance policy at a cost of \$5 million crop based insurance; however, the timely assistance to more than 6.5 million people was not guaranteed by this scheme. Since the conditions for large scale commercial insurance packages have not changed so far, this option was not considered as a viable option.

Asa second alternative, the use of Insurance Association of Malawi's regulated crop insurance methodology was considered, where pay-outs are linked to the performance of the crops themselves. However, with this systemthe insurance company has to visit a farmer's field for an assessment of the damages and to determine the premiums to be paid to each individual farmer. making this option labour intensive and very expensive especially taking into account that a farmer on average has a plot of 1.2 Ha. In addition to this, the assessment is done after the damage has taken place, therefore exposing the farmers to the need to find coping strategies to deal with the loss incurred, without giving them the opportunity to act beforehand.

The third and final option considered is the one that has finally been selected. Weather-based micro insurance is combined with awareness raising on risk taking and risk reduction. The underpinning concept is that insurance premiums are paid against the risk of rainfall deficit. This risk is triggered by an index, which sets a specific threshold for the payment of the premium, based on calculations on the amount of rainfall. Calculations are based on satellite data mainly, with a considerably lower need for field visits, which decreases the costs linked to the insurance. The main difference with the second option relies on the fact that weather index insurance is triggered before the adverse event has taken place, thus giving the opportunity to insured farmers to still take appropriate measures to mitigate the effect of low rainfall on their yield loss. . In order to be able to tackle the farmers who are most vulnerable to the effects of climate change, the project component 1 will combine WFP's technical expertise and principles of its Food Assistance for Assets (FFA) programme with insurance under what is called 'Insurance for Assets programme'. Targeted farmers who do not have the capacity of purchasing an insurance will be enrolled in the insurance scheme by providing a contribution to build community assets through FFA activities. In this way, they will mitigate the need to use negative coping strategies with long-term impacts on wellbeing. These farmers are normally excluded from traditional insurance, therefore their inclusion in the project activity represent a valuable chance for them to move out from a chronic vicious cycle and get the chance to be better equipped to face increased climatic variability. In addition, since the pay-out is not linked to the crop survival or failure, the farmer has always an incentive to make the best decisions for crop survival by employing climate smart farming practices which could reduce their climate vulnerabilities while also getting pay-out for those bad seasons. This innovation significantly lowers the insurance company's transaction costs and risks, reducing insurance premiums and increasing accessibility to the poor communities.

The table below summarizes an analysis of the benefits of Weather Index Insurance vs Conventional Crop Insurance.

insurance.		
Feature	Conventional Crop Insurance	Weather Index Insurance
Cost	An expert need to make a detailed and indepth assessment to determine premium and cost of damage, by farmer. This is very elaborate expensive taking into account the large number of small scale farmers.	An expert is still required but will not make detailed assessment of the premium levels and the damage by individual farmer, the expert will only make a ground validation in a few sites, reducing the cost and time of the process.
Moral Hazard	Insured change their behaviour (adopting a riskier or less productive behaviour) since claim is paid in case of loss or low yield.	Index is objective, based on neutral climate data. Moral hazard is thus highly limited or even inexistent.
Fraud	Expert can be bribed by the insurer or insured	Index is objective and neutral, the risk of fraud is limited to the risk that a farmer may insure a bigger field than he owns, or for a crop he does not grow. But in this case, insurance cost will also be higher.

Regarding the design of Component 2, three options were considered: labour intensive public works (PWs), Food assistance for Asset Creation (FFA) and insurance for asset creation (IFA).

The first option (PWs) would include resilience building activities in line with Malawi's public works program, which operates under the Malawi Social Action Fund (MASAF). MASAF has provided short-term, labor-intensive employment opportunities to poor households since the mid-1990s. However, the 2015 IPA evaluation has found no evidence that the program improved food security, and there were some indications that the program decreased the food security of non-beneficiaries living in the same communities as program participants. In addition, more recent studies identified that public works did not contribute in building long-term sustainable assets and livelihoods.

As a second alternative, the project reviewed the possibility to use WFP's 'Food for Assets' (FFA) programme experience in Malawi. This is a combined recovery and development activity designed to support communities in reducing their vulnerability to disasters and transitory or chronic food insecurity through the creation and maintenance of productive assets (at household and community level). Food or cash is provided to communities as an incentive for creating community assets, as well as participating in income generating activities and skills trainings in areas with high level of food insecurity. This approach, taken alone, would not ensure the achievement of a satisfactory level of resilience to increase climatic variability in the targeted communities, as it implies an element of risk reduction (natural resources management) which can improve the situation for climate-vulnerable beneficiaries but cannot ensure a graduation path towards more sustainable livelihood options.

In Malawi, WFP is currently implementing an integrated resilience programme (which include the component of FFA) in all areas with high levels of food insecurity.

The integration combines the risk reduction element represented by FFA activities, aimed at creating assets which can contribute to better resources management for the communities, with the enrolment in the insurance scheme and a set of other related activities. Since the combination of asset creation and insurance has already proved to be effective in improving the lives and livelihoods of vulnerable food insecure communities, this has been selected as the best approach to use within this project as well. Based on community consultations conducted in the project districts, some of the activities which will be implemented as part of the IFA scheme will deal with

expansion and promotion of equal access to water, land, forest-based interventions (such as small-scale irrigation, watershed management and afforestation) for women, men and youth, especially newly accessible land resources created by rehabilitation and/or /reclaimed from land-degradation. The list of activities will be nevertheless revised after CBPPs taking place at the beginning of the project to make sure the best and most viable interventions are selected in every community, on the basis of the needs expressed by the beneficiaries.

The insurance activity will be further fostered by the promotion of savings, carried out through village savings and loans (VSL) groups who will act as a buffer for smaller, individual shocks, and to fund investments in diversified and more resilient livelihoods. Credits, promoted through micro-finance, will support larger investments into farmers' livelihoods and agricultural inputs, for prudent risk taking. Furthermore, the Component 2 activities on asset creation and income diversification will ensure that losses faced due to water scarcity and drought are avoided, while at the same it allows for the diversification of staples with the inclusion of high value crops such as fruits and vegetables, and to the promotion of climate-resilient value chains that are likely to continue to provide good returns in relatively bad seasons.

Regarding the design of component 3, three alternatives were reviewed: Linking small holder farmers to national grain reserves; linking holder farmers directly to private sector or linking holder farmers to both government and private sector.

The first option, implies theestablishment of market access for smallholder farmers by building capacity for Farmers' Organisations (FOs) and linking them to the national grain reserve and the price stabilization agency (the National Food Reserve Agency-NFRA and the Agriculture Development and Marketing Cooperation-ADMARC).

A Functional Review of ADMARC (2018)<sup>61</sup>, established that with improved warehousing facilities and establishment of linkages with the Warehouse Receipt System, ADMARC can effectively procure produce from smallholder farmers using a dual system: Cash based purchases for small volumes and encouraging WRS for larger volumes. Producers with larger volumes would then be linked with commercial banks using their produce as collateral in case they need some cash to address immediate needs. ADMARC currently buys directly from individual smallholder farmers with a minimum of three bags, which is not cost efficient compared to procurement through farmer organizations. ADMARC and NFRA do not have a clear prosmallholder procurement policy, but have expressed interest in developing a clear strategy.

With the second option, direct collaboration with private sector bulk buyers (inputs and outputs markets) and service providers (financial institutions like the Agricultural Bank of Malawi, Vision Fund for the provision of small loans for risk taking and purchase of agricultural inputs) is foreseen. However, this option alone was not considered as viable due to the conditionality's raised by banks for loans:

- 1) borrowers need to put up a contribution of up to 40% of the total financing requirement;
- 2) crops must be grown on land held on a freehold or leasehold;
- 3) the farmer/ grower must be registered with the authorities where applicable.

While traders have demonstrated interest to purchase directly from smallholder farmers with assured quality and quantity to reduce their operational cost, bulk-buyers will have less incentive to invest in the area due to the anticipated low volumes.

Finally, the third option combines elements of the previous two. Investing in pro-smallholder procurement policy development and operationalization to improve inefficiencies in public procurement-to address inefficiencies while building the FO capacity; and collaborating with input-output markets to enhance access to inputs and output markets.

Hence the last option, combining investments in policy development and operationalization in collaboration with the private sector (inputs, outputs and service providers) was considered as the best option to address the systemic challenges affecting small holder farmers (SHF) in the selected districts.

By investing in community warehousing coupled with training in collective marketing and market information analysis, participating smallholder farmers will have the option to delay selling their produce immediately after harvest when prices are low to such a time when prices are competitive. A WFP "Capacity Needs Assessment and Feasibility study on Market Access Packages and Business Development Support for Smallholder Farmers and Farmer Organizations", carried out in 2018 revealed that 84.7% FO members are attracted by good/better prices gained through collective marketing, while 54.2% of the FOs respondents cited FOs good bargaining power especially on terms and conditions for the sell transaction as a big incentive for the FO members. SHF selling produce immediately after harvest receive very low prices compared to those who sell later.

The project's cost-effectiveness relies also on the focus on long-term sustainability of project interventions.

The project is intended to develop the capacities, tools, and systems for national stakeholders, ranging from the farmers, to the communities, the financial institutions, all the way up to national actors, with the aim to develop a self-sustaining model that can continue beyond the project cycle and can be replicated by the government and other partners.

The project will also promote sustainable technologies such as the i) use of solar powered irrigation as opposed to the use of treadle pumps or motorized pumps and ii) greater awareness and adoption of technologies including conservation agriculture, pit planting, and sustainable land practices; and iii)

<sup>61</sup>FTHM Consulting & Kadale Consultants, *Review of the Agriculture Development and Marketing Corporation* (ADMARC), 2018

increased access to extension messaging on market information, climate information and nutrition, combined with the greater use of cost-effective tools such as the radio and group approaches.<sup>62</sup>

Another element of cost-efficiency is linked to the synergies that this project will create with other existing investments in microinsurance, climate services, climate smart agriculture and irrigation, microfinance services being implemented through ongoing initiatives such as the Building Resilience and Adaptation to Climate Change (BRACC) project supported by UKAID/DFID, the Integrated Risk Management Programme financed by the Government of Flanders, the Global Framework for Climate services (GFCS) adaptation programme funded by NORAD, the R4 Rural Resilience Initiative funded by The Swiss Agency for Development Cooperation (SDC), and the Government of Malawi/UNDP 'Scaling up the use of Modernized Climate Information and Early Warning Systems' (M-CLIMES) funded by Green Climate Fund in Zomba and Balaka. The project design makes sure no overlap of activities will be present; on the contrary, the project will benefit from

both the governments and WFP extensive field presence and network of partners, and collaboration will be promoted whenever possible to optimize the achievement of results and at the same time, make the most of the project resources. It is also worth noting that the networks leveraged through the project will be institutionalized, in order to guarantee that national stakeholders will have the right structures in place to continue managing the activities initiated by the project. The existing strategic and operational partnership between government and WFP will provide an enabling environment to engage with other relevant partners for effective project coordination. Especially with District Council and Community level Committees such as Village Development Committees (VDCs) and Civil Protection Committees (CPCs) who play a leading role in local level adaptation planning and implementation without forming new/parallel project delivery structures.

The integrated nature of the project's activities means that the delivery mechanisms that are developed can be leveraged across different components, reduces costs in terms of time and financial resources, by comprehensive agreements, coordination and procurement in bulk.

Finally, the cost-effectiveness of the project is also ensured by the project management approach taken. The project will partner with existing local community stakeholders, such as local organization and community members as the main project implementing organs in the field. In this regard, the project will incur in comparatively lower costs. This will help to lower the budget while anchoring the project within communities, thereby safeguarding the project's sustainability. It will also ensure that the majority of resources will go straight to the beneficiaries.

D. Describe how the project / programme is consistent with national or sub-national sustainable development strategies, including, where appropriate, national or sub-national development plans, poverty reduction strategies, national communications, or national adaptation programs of action, or other relevant instruments, where they exist.

The Government of Malawi has made a commitment to address climate change and to promote resilience, with a special emphasis on breaking the cycle of hunger. This project has been developed with representatives of the Government of Malawi to be illustrative of these priorities. To this end, a special Task Force was set up for the design of the project with representation from the following entities: The Ministry of Finance, specifically the Economic Planning and Development Department (EPD), The Ministry of Agriculture, Irrigation and Water Development (MOAIWD), Department of Climate Change and Meteorological Services (DCCMS), Department of Disaster Management Affairs (DoDMA), Ministry of

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<sup>&</sup>lt;sup>62</sup> Synthesis on supply and demand of extension services: http://www.ifpri.org/publication/supply-and-demand-agricultural-extension-services-malawi- percentE2 percent80 percent93-synthesis. Accessed: 21.07.2019

Industry, Trade and Tourism (MoITT), Environmental Affairs Department (EAD), and the Ministry of Local Government and Rural Development (LG&RD). Most notably, EPD houses the National Designated Authority to the Adaptation Fund and EAD houses the country's UNFCCC focal person. Through the engagement of these national stakeholders in the design of the project and through deliberate efforts, project alignment to national priorities on climate change adaptation and resilience has been sought as follows:

- The **National Climate Change Management Policy's** goal is to promote climate change adaptation and mitigation for sustainable livelihoods through measures that increase levels of knowledge and understanding and improve human well-being and social equity while pursuing economic development that significantly reduces environmental risks and ecological scarcities. → Project alignment: adaptation, economic development, increase levels of knowledge and understanding
- The National Climate Change Investment Plan (NCCIP) identifies the four key priority areas to promote climate change management in Malawi as: adaptation; mitigation; climate change research, technology development and transfer; and capacity building. These areas are aligned to MGDS II. → Project alignment is assured as the project is promoting watershed management (as part of IFA) as one way of building community resilience to climate change. Climate services program provides an opportunity to vulnerable communities to develop adaptation measures to climate change and climate variability. In addition the planned climate services component in collaboration with the Department of Climate Change and Meteorological Services (DCCMS), and Ministry of Agriculture Irrigation and Water Development (MoAIWD) and other partners ensures access to weather and climate information from DCCMS. Weather and climate information is then linked to agriculture advice and then disseminate to vulnerable communities in a timely manner to enable them to make educated choices of seed, farming and irrigation practices and other adaptation measures.
- The National Adaptation Programmes of Action (NAPA)<sup>63</sup> has identified the following top 4 priority adaptation areas: (1) Sustaining life and livelihoods for the most vulnerable communities, (2) Enhancing food security and developing community based storage systems for seed and food, (3) Improving crop production through the use of appropriate technologies, (4) Increasing resilience of food production systems to erratic rains by promoting sustainable production of maize and vegetables → Project alignment: focus on livelihoods and food security, as well as increasing resiliene and sustainable production
- Two UNFCCC communications are registered for Malawi, one in 2003 and the other in 2012, as well as (I)NDC submission in 2015. They commonly stress that Malawi produces little emissions, but is severely affected by the impacts of climate change, making issues on equity, justice, and adaptation a key priority. → Project alignment: focus on adaptation as well as equity and justice by focusing on the most vulnerable.
- The Malawi Growth and Development Strategy (MGDS III): aims at building a productive, competitive and resilient nation. MGDS has five priority areas, including agriculture and climate change management. The pillar on agriculture and climate change management's goal is to achieve sustainable agricultural transformation that is adaptive to climate change and enhances ecosystem services. → Project alignment: nutrition enhancement, environmental management, agro-processing and value addition
- The National Resilience Strategy 2017-2030 (NRS) defines resilience as the ability of urban and rural
  communities, households, and individuals, to withstand, recover from, and reorganize in response to
  crises, so that all members of Malawian society can develop and maintain their ability to benefit from
  opportunities to thrive. Strengthening people's capacity for resisting, coping, recovering, and bouncing
  back from shocks and extreme events requires well targeted and long-term investments that recognize

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<sup>&</sup>lt;sup>63</sup> Through this alignment has also been sought to the National Climate Change Investment Plan and the working draft of the National Adaptation Plan

- that adaptation to a changing climate must be tackled at multiple scales. → Project alignment: focus on adaptation and capacity to withstanding shocks
- The National Agriculture Policy (NAP) and its National Agricultural Investment Plan (NAIP) replaces the previous Agriculture Sector Wide Action (ASWAp), which was phased out in 2017 and used to govern the agricultural sector. The NAIP, which is anchored and guided by the NAP, has four pillars on institutional development, resilient smallholder farmers, production and productivity (focused on infrastructure development), as well as market access. → Project alignment focus on resilience smallholder farmers, market access.
- The **National Water Management Policy**, aims to improve the livelihoods of the people through sustainable development, use and management of the water resources of the country. → Project alignment is assured through the focus and inclusion of concrete adaptation measures, including water and soil conservation and integrated watershed management.
- The Malawi National Social Support Programme II (MNSSP II) (2018),
- The Forestry (Amendment) Act (2017), provides for participatory forestry, forest management, forestry research, forestry education, forest industries, protection and rehabilitation of environmentally fragile areas and international co-operation in forestry and for matters incidental thereto or connected therewith. → Project alignment as the planned Adaptation program includes afforestation, natural forest regeneration, woodlot establishment activities as IFA.
- The Water Resources Act (2013) outlines preliminary provisions for management of National Water Resources including water abstraction and use. The Act recognizes the importance of water to human sustenance and the multiple functions that the resource provides .→ Project alignment: as new and or rehabilitated watershed are created Water Users' Associations(WUAs) will be established to manage t irrigated agriculture and piped water points
- The **Disaster Risk Management Policy** (2015), provides a framework for ensuring reductions in disaster losses and impacts. The policy is aimed at ensuring that disaster risk management (DRM) is mainstreamed in development planning and policies in all sectors. → Project alignment; The integrated approach of disaster risk reduction by creation and/or rehabilitation of assets through its IFA activities combined with micro-insurance, access to credit, and savings ensures increased production, reduction of agricultural and livelihoods losses and the reduced needs for humanitarian assistance.
- The National Forest Landscape Restoration Strategy (2017), is a tool for addressing challenges
  Malawi face from unpredictable climate shifts and land degradation. Its ultimate goal is to create an
  enabling environment to promote sustainable use of natural resources. → Project alignment; The
  projects focus on watershed management including rehabilitation of woodlands will contribute to this
  national goal.
- The National Charcoal Strategy 2017-2027, presents a multi-sectoral framework and approach, focused on pillars that define opportunities to incrementally address problems of charcoal production and demand in the near, medium and long term. The Strategy supports the implementation of various global initiatives and goals, including the UN Sustainable Energy for All (SE4ALL) by 2030. → Project alignment as the planned IFA activities will also promote the use of fuel efficient cook stoves amongst the programme participants as one way of reducing or slowing down deforestation in line with NCS strategic pillar number 2: Promote Adoption of Fuel-Efficient Cook stove Technologies of the NCS.
- The National Gender Policy (2015), The National Gender Policy provides guidelines for mainstreaming gender in various sectors of the economy with the overall goal of reducing gender inequalities and enhancing participation of women, men, girls and boys in socio economic and political development.→ Project alignment is assured as throughout the project a special focus is made gender considerations and has mainstreamed gender in all its activities, from the targeting process, selection of activities and ensuring equity access to men, women, boys and girls in the targeted TA's. this is assured through the use of the three-Pronged Approach components (3PA) from design to proper accountability to affected population methodologies.
- The National Youth Policy (2013), provides a framework that guides youth development and implementation of all youth programmes that contribute to the improvement in the welfare of the youth

in Malawi. One of the specific objectives is to mainstream youth development agenda in all national development programmes. . > Project alignment mainstreaming youth in the national development programme will ensure the creation of gainful employment, increased access to services and empowerment

- The Farmer Organization Development Strategy (2018), (FODS): The National Agriculture Policy (NAP) recognizes the role of Farmer Organizations (FOs) as a strategic vehicle to achieving commercialization of agriculture. The objective of the FODS is to promote the development of sustainable, professionally operated and market-oriented FOs that are contributing significantly to growth and development of the Malawi economy. → Project alignment: Strengthening FO management capacity, enhancing production and productivity of SHF, improving policy environment and legal framework to support development of FOs, enhancing access to agricultural financing
- The Malawi Contract Farming Strategy (2016): The Strategy seeks to achieve economic growth and development in the agriculture sector. The strategy seeks to cushion farmers' weaknesses in the production, processing and marketing of various agricultural commodities. The ultimate impact, which this Strategy seeks, is to use contract farming, where appropriate, as a mechanism for creating wealth, reducing poverty and inequality through increased profitable market access for farmers and buyers of agricultural outputs.→ Project alignment: market access for smallholder farmers and access to agricultural production inputs (appropriate technologies)

There are several subnational strategies and district development strategies in the project areas that will inform the design and implementation of the proposed project interventions; these include;

- i) District Development Plan (DDP) which is the overarching development strategy framework at district level, linked to both short, medium and long-term development aspirations of the Central Government. It provides a development roadmap to increase consistency and coordination in promoting socioeconomic development in the district. The DDP is able to translate the strategies into policy outputs (projects and programmes).
- ii) Socio-Economic Profiles (SEP) which is a snapshot of the overall *Physical*, *Social* and *Economic* situation of the district. A SEP paves way for a better appreciation of the socio-economic situation of an area or locality within a district.
- iii) Other sub-national development that feeds into DDP include: i) Decentralized Environment Management Guidelines, ii) District State of the Environment Reporting (DSOER), iii) District Contingency Plans iv) District Environmental Action Plans. v) District Development Investment Plan. All these plans are aligned to sectorial strategies and National Development Frameworks (Malawi Growth

and Development Strategy – MGDS III). The targeted districts have developed and updated their own plans and strategies as mentioned above.

E. Describe how the project / programme meets relevant national technical standards, where applicable, such as standards for environmental assessment, building codes, etc., and complies with the Environmental and Social Policy of the Adaptation Fund.

The interventions will adhere to the Environmental Quality Standards as well as Environmental Management protocols as outlined in the <u>Environment Act, 2008</u>. Any asset construction will be done in line with existing national building standards that will inform the design and construction.

The proposed interventions will be compliant with all national technical standards, particularly those relating to concrete adaptation measures, including water and soil conservation, integrated watershed management, and crop management and quality standards, among others. Specifically, the Malawi National Guidelines: Integrated Catchment Management and Rural Infrastructure will guide the technical design and implementation of CA activities and accompanying land and soil structures. Additionally, the project team will work closely across relevant entities to design and implement the work, linking experts at the national and subnational levels. This also includes liaising with other relevant sector leads such as hydrology, forestry, and others, as needed.

Ongoing consultations with the following entities will take place at all stages of project design and implementation to ensure that all project activities comply with the relevant national technical standards from: MoAIWD; DoDMA; DCCMS; EAD; EPD; MLGRD; Local Development Fund (LDF) and Ministry of Natural Resources, Energy and Environment.

The necessary safeguards will be incorporated into project design and implementation. The project will also comply with the Environmental and Social Policy of the Adaptation Fund and WFP's environmental policy. Refer to Section K for the details on the risks identified and Annex 6 for an outline of the mitigation actions (Environmental Social Management Plan).

## F. Describe if there is duplication of project / programme with other funding sources, if any.

Overall, while there is a recognition that there are other actors working on related issues, the sentiment is that this project is different since it takes on board issues pertaining to adaptation and climate risk management in a holistic and comprehensive manner, while also addressing chronic issues which are exacerbated by the changing climate. It also builds on past experiences by different actors to scale up approaches that have proven to be effective. This is done in the context of government-lead initiatives, helping operationalize commitments on climate change adaptation and resilience building for food and income security. Therefore, the project offers a vehicle for bringing together the other existing initiatives under a common approach and to build national capacities and systems to take forward this work leading up to 2030.

In practice, this will be done by working with the same coordination structures (in particular, the Disaster Risk Reduction and Climate Change Management Technical Committees at national and local level) to ensure harmonization of implementation approaches and supporting the development of national guidelines for designing and implementing insurance projects, climate resilient approaches and capacity strengthening for farmer organizations/cooperatives, as well as standard operating procedures to ensure application of common approaches for delivering climate adaptation and resilience projects. WFP will also facilitate coordination with UNDP and FAO both at national and district level in the context of Delivering as One UN under the United Nations Development Assistance Framework (UNDAF) as well as part of the newly rolled out joint resilience programme, the Building Resilience and Adaptation to Climate Change (BRACC). The project will also support documentation of best practices and dissemination of the same through several channels including learning events and/or review sessions. It is worth highlighting that the layering of integrated resilience building activities is articulated in many national strategies and programmes (e.g. National Social Support Programme II, National Resilience Strategy) and this project will serve to contribute to the government realizing these ambitions, but also serve as a best practice for how to do this.

Finally, it is worth noting that this project explicitly builds on the resilience activities implemented by WFP and its partners in the country. The recurring weather-related shocks experienced in the country and the increasing humanitarian caseload in recent years motivated WFP to leverage its dual mandate as a humanitarian and development actor to transition vulnerable households away from relief to multi-year resilience-building initiatives. In 2015, WFP started these efforts through its Food Assistance for Assets (FFA) programme, which was used as an entry point for subsequently introducing an integrated climate risk management package consisting of weather index insurance, saving, credit, and climate services. Balaka was the first target district with the integrated approach. Zomba and Blantyre were also targeted in the 2017/18 season. Currently, these resilience activities have been expanded in addition to the districts of Mangochi, Chikwawa, and Nsanje. From 500 farmers in 2015, in 2018, over 39,000 farmers now benefit from the resilience package.

The objective of building on this WFP initiative for the proposed project is three-fold: introduce additional components that complement and strengthen the integrated approach, extend the reach of the integrated approach to more vulnerable households, and institutionalize this approach through government capacity strengthening, ensuring sustainability. For climate services, this project is building on the experience and lessons from the Integrated Resilience Management Programme (IRMP), which provides weather and climate information and agro-advisories through extension workers or via radio and SMS and further

combines with risk transfers, prudent risk taking and risk reserves methodologies implemented through Village and Saving and Loan (VSL) groups. The project will ensure this approach is expanded and scale-up to the targeted districts without duplication of already ongoing activities in neighboring communities.

The table 1 below enlists the projects that are similar in nature and to which this proposed project will seek to align and complement.

Table 1: Previous and or ongoing projects with similarities.

		3- 31 -7		
Project Name	Entity	Duration	Description	Alignment
Scaling Up the Use of Modernized Climate Information and Early Warning Systems (M- CLIMES)	UNDP/ DODMA	2017- 2023	Improving weather- and climate-related services, including Early Warning Systems, with a focus on both floods and drought across different livelihood types and the extension of the coverage of hydrometeorological observational systems	Common approach to CS for agriculture using PICSA and content creation committee This project will not make significant investments in the coverage of hydrometeorological observation systems without seeking alignment to the M-CLIMES plans
Building urban climate resilience in southeastern Africa	UNHABI TAT/DO DMA	2017 – 2018	Enhanced capacity of municipal authorities in the target countries to integrate risk reduction and resilience concepts into urban plans and municipal strategies. Focus on improved tools, strategies, policies, and capacities.	Zomba is a target district for both projects, so close coordination will be sought at national and sub-national levels, recognizing that one works on the urban sector and the other rural settings, but on related topics.
Programme for Rural Irrigation Development (PRIDE)	IFAD/ MoAIW D	2015 - 2022	It will establish and strengthen the capacity of the Water Users' Association to manage, operate and maintain irrigation schemes for appropriate land and water governance. It will also identify market opportunities for farmers.	Project is implemented in the northern and southern regions of the country, in the southern region, where there is overlap, the project teams will collaborate making sure to promote common approaches to water management and governance.
Financial Access for Rural Markets, Smallholders and Enterprise Programme (FARMSE)	IFAD/ MoAIW D	2017 - 2024	Nation-wide promotion of social payment graduation programmes, community-based financial organizations, financial cooperatives, micro-finance institutions and commercial banks.	This project will seek to work with MFIs for the saving and credit components, while working with a local insurance company, as such links to FARMSE will be sought to ensure similar approaches to engagement with these institutions.
R4 Rural Resilience Initiative (R4)	WFP	2014- ongoing	R4 aims to increase food and income security through a combination of four risk management strategies, specifically: improved resource management through asset creation (risk reduction); insurance (risk transfer); livelihoods diversification and microcredit (prudent risk taking); and savings (risk reserves).	The project will leverage the learnings and approaches developed under R4 and take these to scale through national programs, systems, and capacities. Principally, the approach to WII index design and monitoring will be leveraged, while new innovations will be trialed for the accessing of the insurance, saving, and credit components.
Food Assistance for Assets (FFA)	WFP	2014- ongoing	FFA addresses immediate food needs through cash, voucher or food transfers, while at the same time it promotes the building or rehabilitation of assets that will improve long-term food security and resilience.	The social and environmental tools and guidance used for the FFA asset creation activities will be used and adopted by this project, specially under component 2. This includes both planning, implementation, and monitoring tools.
Purchase for Progress (P4P)	WFP	2009- ongoing	Through the Purchase for Progress (P4P) programme, WFP encourages national governments and the private sector to buy food in ways that benefit smallholders.	The P4P experience will be leveraged, especially guidance on FO capacity strengthening including approaches to business planning, postharvest loss management, quality assurance, among other topics. WFP's procurement capacity will also be leveraged in support of this project, to the extent possible.

Climate Services (CS) through the Integrated Resilience Management Programme (IRMP) and the Global Framework for Climate Services	WFP	2017- ongoing	CS initiative focuses on helping rural communities to access tailored weather and climate information that they can easily understand and use to take decision to strengthen food security and improve their livelihoods.	Common approach to CS for agriculture using PICSA, content creation committee, and capacity strengthening on national stakeholders.
African Risk Capacity (ARC)	Government	2015-2016	Malawi subscribed to the ARC only for the 2015/16 season, just before the El Niño-induced weather shock. Though Malawi is a signatory to the ARC Agency Treaty, the policy was not renewed during subsequent years. ARC was using the satellite weather surveillance software Africa RiskView, to estimate the impact of drought on vulnerable populations. Building on this experience, this software is currently supporting the seasonal monitoring process for the R4 weather-insurance model. This may be customized to support the micro-insurance scale up process.	The R4 model has taken into account learnings from ARC experience in Malawi. For instance, under ARC, any payouts triggered was directly made to the Government of Malawi (as it is a macroinsurance scheme) to be utilised towards activities for school feeding, water and sanitation, and health and nutrition, as agreed under the contingency plan. This methodology has been evaluated and findings revealed that the approach was unable to address the immediate concerns of insured farmers.  Unlike the above-mentioned model, any payouts triggered under the R4 microinsurance component of the proposed project is directly made to the insured households (as it is a micro-insurance scheme) in Balaka, Zomba and Machinga. This ensures a more effective and time-efficient response.
Pilot Program for Climate Resilience (PPCR)	Govern ment with various stakehol ders	2018- ongoing	The Government, in collaboration with the World Bank and African Development Bank, has formulated a Strategic Program for Climate Resilience (SPCR) under the Pilot Programme for Climate Resilience (PPCR) to act as a framework for addressing the challenges of climate change that impact on the national economy and community livelihoods. The overall objective of the SPCR is to ensure that all stakeholders address climate change impacts and their causes in a coordinated manner through application of appropriate measures, while promoting sustainable development and a green economy.	Intervention efforts under this project will complement those under the PPCR/SPCR in the agriculture, water resources and climate information sectors principally by bringing to scale some common interventions focusing on geographical areas that have not been covered by these interventions. Moreover, this project will introduce some interventions that are not covered by the PPCR such as the weather insurance schemes.
National Climate Resilience Programme (NRCP)	UNDP/ DODMA	2019- 2023	NCRP aims to contribute to accountable, inclusive and effective implementation of climate change policies, and programme approaches to build resilient ecosystems and communities. The focus areas: i) strengthened capacity for improved result-oriented governance and management of climate change at national and district level; ii) scaled-up action, finance and partnerships for climate change adaptation, mitigation and disaster risk management across sectors; ii) strengthened management for effective, and inclusive	Intervention efforts under this project will be supported by the governance structures at national and district level that are to be strengthened by the NRCP.

partnerships, applied research and participatory monitoring, evaluation,	
accountability and learning (MEAL)	

## G. Learning and knowledge management.

This is the first dedicated climate adaptation project implemented by the government directly, through the MoAIWD.

Diligent monitoring and assessment of results and impacts is crucial in order to test cost efficiency and effectiveness of government-prescribed adaptation measures, especially in market access strategies and approaches, risk transfer mechanisms and adopted climate- resilience practices to ensure improved access to weather index insurance and increased reliable market outlets. The results and best practices also need to be disseminated widely to politicians, policy makers, technocrats and public.

The project will serve as a learning model that will allow national technical agencies to test out their own assumptions for community-based adaptation to climate change and to break the cycle of hunger. This is especially true of the strategy (in the Climate Change Management Policy and National Adaptation Programmes of Action (NAPA)) to protect food security and agricultural livelihoods from climate related impacts. This will provide the government with the opportunity to review context specific approaches establish best practices and scale up successful activities to achieve resilience communities and ecosystems to climate impacts in a wider landscape.

The project intends to develop a coherent knowledge management and a range of knowledge products (case studies, policy papers, and technical briefs and media reports) that are widely (and publicly) disseminated. The generated best practices (and those to avoid) will also be used as part of the extension services by the MoAIWD across the country.

The project will develop a robust Monitoring, Evaluation, Accountability and Learning (MEAL) system, which focuses on application of evidence-based lessons in improving or influencing implementation within the project and amongst actors engaged in similar work.

- During the first three years of implementation, the project will facilitate quarterly project reviews and
  in the last two years, bi-annual reviews to identify project gaps and then inform project improvement

   i.e. a process of adaptive management.
- In the third year of implementation, as part of evaluation, a learning document will be produced to build on yearly exercises that will form a basis for replication and scale-up of activities to other districts. The generated knowledge will be shared with stakeholders and donors working in the climate adaptation space in Malawi.
- On a bi-annual basis the project will document lessons learned and improvements to implementation for review with stakeholders, to inform the following year's planning and implementation.
- In the final year of implementation, as part of evaluation, a learning document will be produced to build on yearly exercises that will form a basis for replication and scale-up of activities to other districts. The generated knowledge will be shared with stakeholders and donors working in the climate adaptation space in Malawi

To meet this requirement as outlined in part III section D below the project both within MoAIWD and WFP has included knowledge management and/or M&E officers to meet the specific needs of knowledge generation, analysis and dissemination at different management levels for all outputs.

Information and communication are integral to technical outputs where farmer and official climate change risk awareness would be developed. The use of the Extension Planning Area (EPA) level coordination mechanisms at targeted TA-level, the Village coordination structures (VDCs) and farmer Organizations (FOs) in communities ensures household level risk dissemination and provides a means of measuring adaptation impacts and behavior change through project interventions.

Finally, to ensure nationwide dissemination and sharing of knowledge including success stories, progress, lessons, and milestone events; the project will organize learning events including field learning visits, participate the national social protection symposia and DRM platforms as well as share knowledge through national and local radio channels, television, and other knowledge sharing tools such as social media streams and through brochures, newsletters, factsheets, project briefs, etc.

H. Describe the consultative process, including the list of stakeholders consulted, undertaken during project preparation, with particular reference to vulnerable groups, including gender considerations, in compliance with the Environmental and Social Policy of the Adaptation Fund.

Following the official endorsement of the concept note a meeting was held between the MEP&D, DoDMA, MoAIWD, MoLGRD, DCCMS, MoT and WFP for the development of timelines/roadmap for proposal development and approval process with key areas to be developed identified. In addition, WFP was tasked to work bilaterally with the Taskforce members to facilitate generation of input to the proposal as outlined in the roadmap. See Annex 7: Minutes from the national validation workshop on the Adaptation Fund, November 1, 2018 in Lilongwe.

WFP also met with the Ministry of Gender, Children, Disability and social Welfare in November 2018, in light of the already identified gender disparities from the community stakeholder meetings.

During the community consultations in December 2018, the Government and WFP commissioned the Gender assessment for the AF project. A representative sample of each community was interviewed in the selected project site. These interviews were focused on developing an understanding of local challenges, existing adaptation practices to climate change impacts and to gain local perspectives on possible future interventions that will improve local adaptive capacity. The discussions with women's groups, as well as the elderly and the disabled have ensured that the interventions designed under the proposed project are gender sensitive and take the concerns of the most vulnerable into consideration.

24 Focus Group Discussions (FDGs) and 10 Key Informant Interviews (KIIs) were held, involving 326 people, with a total participation of 176 females and 150 males.

Each FGD involved between 8-28 participants to ensure active participation from each of the invited community members. There were separate FGDs for the following groups: Middle aged women; Middle aged men; the youth (combined boys and girls aged between 15 and 25); Village heads/local leaders combining both males and females; and the elderly men and women.

The separate FGDs for men were led by male facilitators while those specific for women were also led by fellow women facilitators to allow participants to express themselves freely, especially on issues that could be not be discussed in mixed groups

The key Informant Interviews targeted sector technical heads from United Purpose that implements climate adaptation activities and relevant government line ministries at district level.

The key recommendations focus on use of innovative methodologies, gender sensitive communication mechanisms, promotion of shared roles and intra-household decision making, include actions to prevent Gender Based Violence (GBV), ensure empowerment and engagement of youth and ensure equity in access to services, climate information and training opportunities and ensure proper Accountability to Affected population with a proper complaints and feedback mechanism (CFM) and the development of activities through the use of Community Based Participatory Planning (CBPP) processes (See annex 2 for the full report)

The stakeholder and community consultations in Balaka, Machinga and Zomba also identified the main environmental and climate concerns faced by the targeted beneficiaries: over the past 10 years, farmers have experienced unpredictable and unstable onset and cessation of the rains; reduction in cropping season with late onset of rains (on average of 2 weeks late) and early termination of the rains (about 2-3).

weeks earlier). This trend is combined with increased frequency of in-season dry spells (on average about 3 weeks) especially during the months of January and February when the maize crop is at critical stages of flowering and grain filling. It is also observed that the prolonged in-season dry spells come coincide with an increased evolution of crop pests such as the fall army worms, cassava mealy bugs, grasshoppers, caterpillars, cutworms, leaf eaters and suckers, among others. Maize monocropping, conventional tillage practices, lack of soil and water conservation structures, use of local varieties have been cited by farmers as key factors that have increased vulnerability to the effect of climate change.

In April 2019 a bilateral meeting was held between the Acting Chief Director for Economic Planning and Development, Mr. Peter Simbani, as the National Designated Authority to the Adaptation Fund (AF), and the WFP Resident Representative, Mr. Benoit Thiry NDA (April 2019, to update on the progress made so far of the project development and next steps.

Regular technical working meetings were held by the WFP led project development team jointly with MoAIWD this to finalization of the AF proposal including the M&E framework, the budget, the organizational arrangement and taking into account comments from both agencies.

The project has also instituted robust complaints and feedback mechanisms in line with WFP Country Office procedures to ensure that vulnerable populations are not subjected to harm but also to deal with issues of protection, accountability and prevention of sexual exploitation and abuse. The complaints and feedback mechanisms seek to enhance downward accountability to ensure that voices of vulnerable populations are heard through a two-way communication process and influence actions and continuous improvements in the current response as well as future emergency programmes. The project also supports the development of SOPs to streamline operationalization of the complaints and feedback mechanism within the project in the three target districts and support alignment and linkages with the national level systems, thus ensuring sustainability in the long run and enabling the government to replicate the approach in other districts and scale it up at national level. See annex 5 for the details on the set of the complaints and feedback mechanisms.

Annex 8 provides additional details of national stakeholder and community consultations.

### I. Provide justification for funding requested, focusing on the full cost of adaptation reasoning.

The weather index insurance product will be designed to address covariate risks which affects a wider community while other risk mitigating strategies are employed to address household specific shocks. The integration of the interventions will provide participants with more than the benefit of each component alone.

While participation in the risk reduction activities (assets creation) aims at improving the natural resource base of the farmers involved, with beneficial effects on their agricultural production, insurance offers protection for crop losses in case of drought, thereby safeguarding their livelihoods, and also guaranteeing that their investment in crops will not go wasted due to extreme drought event. It also helps unlock formal credit provision, as microfinance institutions become more willing to offer credit as they will be guaranteed that the credit will not be used for consumption but rather to be invested in productive ways because borrower's food gaps will be met through their participation in asset creation activities.

The formal credit along with promotion of savings for individual households through village savings and loans (VSL) groups will be intended to create another layer of protection against household specific shocks, and also provide additional capital for investments. This will provide vulnerable households with a collection of tools, options, assets and skills to avoid negative coping strategies in the face of droughts and other shocks, protect development gains and provide a chance to move to sustained food and nutrition security.

#### **COMPONENT 1**

Improved access to insurance as a risk transfer mechanism for targeted farmers affected by climate change and food insecurity

Baseline scenario:

Currently there are two projects in the country that offer index based micro insurance, of which, only one offers the weather index insurance product (the other offers area yield micro-insurance as part of an input loan package). The weather index insurance project is the WFP and Government of Malawi project being referenced, the R4 Rural Resilience Initiative (R4). Through this project the feasibility of weather index insurance was established and built upon. The R4 initiative is limited to the WFP-supported households who are part of the Food Assistance for Assets Programme (FFA). In this context, the weather index insurance is limited in reach and has limited integration within Government-run initiatives. As such, there are farmers who could stand to benefit from the insurance product to better manage climate shocks, but are unable to access this. The result is that many are having to resort to negative coping strategies that undermine their long-term wellbeing. This undermines national efforts on adaptation.

### Additionality:

This project seeks to take weather index insurance beyond the FFA programme. The objective is to provide weather index insurance as part of an integrated climate risk management approach that supports adaptive capacities and resilience building. It will target the most vulnerable, like in the case of FFA households, but also more productive farmers that are affected by the impacts of climate change. Insurance is also being promoted to protect the investments and efforts made by farmers to support adaptation to a changing climate, thereby, helping build resilience to weather-related shocks.

The level of risk to be insured will be assessed based on climatology analysis complemented with agronomy practices in the project locations and further validated with community-based participatory exercises. Under R4, WFP and its partners have experience with other types of insurance products and is looking to share these insights with national stakeholders in order to explore them as alternatives to the weather index insurance product during the course of programme implementation. This includes insights into livestock products, area yield index insurance, and hybrid models that combine different approaches, like precipitation-based, vegetation-based and area yield-based indices.

Educating farmers about the level of risk they are facing for specific crops in their specific localities will be an integral activity in this project through both the climate services and insurance components. The climate services will support farmers decision-making process (including timing agricultural activities, establishing the types and quantities of agri-inputs needed, the right type of agricultural practices, the suitable markets to target, and thus, the investments needed to successfully harvest for both consumption and profit) by providing them with information on climate risks and the upcoming season accompanied by advisories for their livelihood decision-making.

Climate services, therefore, combine downscaled/location specific weather and agricultural information to help inform farmers' actions using SMS, radio platforms, and agricultural extension services. Through radio platforms and extension services, such information is made publicly available. Under the insurance component, the various community-based participatory exercises conducted during index design, validation and seasonal assessment stages as well as community sensitization processes include education on the economic cost of risk (e.g. higher implicit deductibles for high risk crops such as maize) and try to incentivise practices that will increase their adaptive capacity.

The project will work to avoid maladaptation in the long term by putting greater emphasis on sustainability which will be underpinned by:

- i) the capacity to effectively transition households from subsistence to surplus-producing farmers;
- ii) the capacity to foster national capacities and systems to mainstream this integrated climate risk management approach into public programs working in a cross-sectoral manner,
- iii) the capacity to stimulate viable market opportunities for farmers to benefit from the broad strategies in put forward.

For the insurance component, the project will avoid maladaptation by using an index-based approach that unlike traditional agricultural insurance limits moral hazard; higher implicit deductibles for farmers who do not follow recommended practices; and strong consumer education for management of expectations.

Lastly, farmers are continuously educated on the index design and its parameters and also provided with climate-smart agricultural practices to manage the impacts of climate variability. For example, farmers get advice on modern farming practice, such as planting drought and disease tolerant crops to minimize their vulnerabilities to climatic shocks. The index only triggers in extreme events and farmer losses experienced every year may not always be warranted for compensation and therefore the need for adoption of new climate smart agricultural technologies.

The project also has an explicit focus on mainstreaming this approach via government-operated programs and capacities through the related policies and strategies, especially focused on adaptation. Therefore, it seeks to scale up sustainably the approach and to institutionalize these practices. This way the benefit of the insurance can be realized and sustained over time. In addition, WFP has experience with other types of insurance products and is looking to share these insights with national stakeholders to take these forward as alternatives to the weather index insurance product. This includes insights into livestock products, area yield index insurance, and hybrid models that combine different approaches, like weather and area yield indexes.

#### **COMPONENT 2**

Adopted climate-resilient agriculture practices among targeted farmers contributing to the integrated climate risk management approach

#### Baseline scenario:

Malawi has made resilience building and climate adaptation top priorities. This is demonstrable through a review of all the key policies and strategies. Examples like the MGDS III, NRS, MNSS II, NAIP, and NAPA have already been noted to fall under this category. This has motivated actors across the development and humanitarian sectors to embark in activities related to these objectives. Many are taking narrow sectoral approaches and failing to integrate fully into the national systems. Therefore, they are falling short of their objectives. Agriculture extension in the country has tried to incorporate elements of climate change, but the reach of these activities has been inadequate and inconsistent. In addition, agriculture extension has not been married to the right type of support that helps farmers adopt climate resilient agricultural practices. Lastly, the extension support itself has not been consistently linked to the other supporting services that farming households need to adapt to climate change, for example the WII product. More could be done to bring together these different approaches for greater impact. Multi-sectoral, integrated approaches are needed to help farmers adapt and build resilience to climate change.

#### Additionality:

The integrated climate risk management approach offers a guiding framework to orient different actors. It also offers a flexible and adaptive programming approach that can tackle the different chronic and acute challenges that households face and which are aggravated by the changing climate. Besides being able to offer this package in a comprehensive manner at the household and community level, the project has the added value of aiming to mainstream this approach through national institutions. Therefore, it is an anchor for the implementation of the policies previously noted. So, while the project will have direct, targeted participants, there will be additional spillover effects from the positioning of this approach as an umbrella for other projects aiming to support climate risk management for adaptation and resilience building.

#### **COMPONENT 3**

Strengthened market access strategies and approaches for smallholder farmers

#### Baseline:

Currently, climate considerations are not included in initiatives focused on strengthening market access for smallholder farmers. This means that the full potential of these interventions is yet to be realized and that there is scope to bring into this area of work activities on climate-resilient crop promotion, agricultural practices, and livelihood strategies. There are two reasons for this shortcoming, specifically the absence of fully functioning FOs, which can be targeted systematically with these sorts of initiatives, as well as an absent demand for commodities produced by smallholder farmers, to sustain climate resilient activities. The table below shows some of the challenges that FOs face, based on the FO development strategy, which need to be addressed, in lieu of efforts to use these as mechanisms to mainstream climate-resilient agriculture and investments. As such, it is important to look at the strengthening this organizational unit. Under the Farmer Organization Strategy, a SWOT analysis was conducted to establish the baseline of FO capacities. It identifies the current strengthens, weaknesses, opportunities, and threats of promoting FOs and fostering linkages to markets. This is used to inform this proposed project and is shown below.

Table 2: SWOT analysis of FOs in Malawi as per the FO development strategy.

Table 2. SWOT analysis of FOS in Malawi as per the r	o development endlogy.
Strengths	Weaknesses
<ul> <li>A supportive legal and regulatory environment for FOs</li> <li>Existence of agricultural investment programmes supporting development of FOs</li> <li>Growing appreciation of the role of social enterprises in economic growth and development</li> <li>Existence of few successful FOs with a long-standing history from which upcoming FOs can learn valuable lessons</li> <li>Increasing number of salaried employees and technocrats going into farming and adopting certain models of FOs</li> <li>Willingness among players to run cooperatives based on ICA principles</li> </ul>	<ul> <li>Weak collaboration and coordination between MoAIWD and MoITT</li> <li>Limited capacity within MoAIWD and MoITT to adequately support the development of FOs.</li> <li>Poor funding for FO development in MoAIWD, MoITT, and (Ministry of Education, Science and Technology (MoEST)</li> <li>Lack of harmonization of approaches amongst players on technical messages going to FOs</li> <li>Lack of harmonization of management information systems (MIS) amongst players in the sector making it difficult to monitor progress and identify the status of FOs</li> <li>High illiteracy levels among FO members</li> <li>Lack of interface between the cooperative movement in Malawi and research institutions/higher education institutions</li> <li>The FO founder syndrome is perpetuating issues of weak governance, mismanagement, and poor management</li> <li>Weak capacity among FO members to run FOs as professional entities</li> </ul>
Opportunities	Threats
<ul> <li>Different models of FOs provide a framework for organizing producers and to enable them to speak with one voice on matters of their mutual interest</li> <li>Drive by government and NGOs to develop various models of FOs through various initiatives</li> <li>Existing degree level courses on cooperative management (e.g. at Pentecostal Life University) and the willingness of other institutions of higher learning (LUANAR) to introduce such courses at their institutions</li> <li>Willingness by structured market platforms to provide collateral financing through the Warehouse Receipt System (WRS) to farmers</li> </ul>	<ul> <li>High population growth rates, degraded soils, climate change, are some of the threats to agriculture and development of agricultural FOs.</li> <li>Unrealized markets for agricultural produce and high volatility of agricultural prices</li> <li>High cost of borrowing</li> <li>Weak coordination among FO sector players</li> </ul>

#### Additionality:

The climate additionality of this component is primarily focused on making investments in climate-resilient production sustainable in the medium-long term. To do so, the demand side of agricultural production needs to be stimulated. The project will achieve this objective by fostering FO formation and capacities. In addition, the project will also work to support aggregation, processing, storage and local purchase These activities

are intended to contribute to the establishment of a reliable market outlet providing sustained prices for farmers' increased production. In the long run, this will decrease the need for seasonal/conditional food assistance as smallholders will be able to produce their own food as well as protect and continue investing in climate-resilient practices, resorting only to the private market.

In addition, the proposed project, using the framework above, tries to tackle the most pressing weaknesses and threats faced by FOs, while leveraging the associated strengthens and the opportunities. Thereby, the project proposes a comprehensive and government-led solutions to the barriers that have kept FOs and market access interventions from realizing their full potential, especially in terms of climate adaption and resilience building. Under the weaknesses, the project will: foster collaboration within the FOs and the institutions that support these; promote capacities of FOs and supporting entities to create an enabling environment; support harmonize information sharing; and tackle poor governance issues that plague FOs. On the weaknesses, the climate-sensitive agricultural practices, as part of the integrated risk management approach, as well as the work on the Contract Farming Strategy, will help address some of the volatility issues around agriculture as a business. This will be done in a cross-sectoral manner working with all the relevant stakeholders and leveraging the experiences of successful FOs. In this context, the project will be able to advance on the issues put forward in the FO development strategy, with a focus on supporting FOs (long term strategy), which is markedly different from the status quo that focused on FO formation (short term strategy). All of this in the context of the national adaptation plan and through the integrated risk management approach being promoted in components 1 and 2.

# J. Describe how the sustainability of the project/programme outcomes has been considered when designing the project / programme.

Sustainability is at the core of this project. As such, the project has placed great emphasis on developing and mainstreaming sustainability and ownership aspects within the project design.

The project will take a risk transfer approach, in addition to a livelihood-based approach to adaptation developing key community assets such as; knowledge, human capacity, physical and natural resource assets, social and financial capital. Project impacts will positively influence level of awareness, preparedness, production volumes, income generation, and service delivery in order to build capacity to adapt- at household and community level. Combined with implementation modality of using existing government and community structures, this approach ensures that project impacts are sustainable in the long run.

Salient features of project strategy contributing to sustainability:

• The project will support the execution of key national plans, policies and strategies including the National Climate Change Management Policy and its National Climate Change Investment Plan (NAIP), the National Social Protection Programme<sup>64</sup>. However, there has been no overall framework for coordinating delivery of these investments. Moreover, the existing range of programmes cannot be easily scaled up or down in response to shocks like drought. The National

<sup>64</sup> In addition to the plans, policies and programmes mentioned, the project is also supporting the execution of the National Adaptation Programmes of Action (NAPA)64; the Malawi Growth and Development

of the National Adaptation Programmes of Action (NAPA)64; the Malawi Growth and Development Strategy (MGDS III); the National Water Management Policy; the Malawi National Social Support Programme II (MNSSP II) (2018); the Forestry (Amendment) Act (2017); the Water Resources Act (2013); the Disaster Risk Management Policy (2015),the National Forest Landscape Restoration Strategy (2017); the National Charcoal Strategy 2017-2027; the National Gender Policy (2015); the National Youth Policy (2013); the Farmer Organization Development Strategy (2018), (FODS); the Malawi Contract Farming Strategy (2016); among others.

Resilience Strategy (NRS) launched in 2018 provides a common programme framework that is anchored on a multi-sectoral and multi-stakeholder approach that is strongly led and owned by government. While the NRS framework has been put in place, there is need to support its operationalization. The project will therefore support implementation of the NRS by developing some component specific tailored guidance materials including operational guidelines, SOPs and other tools to support easy scale up of government-led implementation of the best practices to other areas through the national programmes will also be developed and will ensure sustainability of systems and standard procedures.

- The project will utilize existing national institutions, at the central and local levels for project execution. This approach would prevent parallel institutional arrangements at grassroots and ensure that project implementation strategy is merged in to existing programs.
- Capacitating and supporting local service delivery by implementing key activities of the project through government extension services and existing cadre of officers, is important to create national ownership of the programme.
- The PICSA methodology implemented to train extension officers in delivering climate services to targeted communities will be taught also to a pool of national experts who will become the future facilitators for other extension officers. In this way, the spreading of the methodology will not be dependent on the presence of representatives of University of Reading but will be self-sustaining. Advocacy action with the DAES and LUANAR will be strengthen in order to promote the use of PICSA in curricular activities at university, in order to expose students to its principles. Collaboration with MOAIWD, DCCMS (the chair of risk transfer technical working group), and other line ministries will be fostered to make sure the government will act as primary promoter of the approach, in order to foster the institutionalization of climate services in the work arrangements of the national extension service.
- The project's integrated approach aims at promoting farmers from high vulnerability and low productivity to the opposite spectrum of low vulnerability and high productivity by layering all the interventions at the household level. The comprehensive package of support offered by the project would tackle different risks levels while building systems and capacities that will act as the enabler for households' continued access to market and financial services. In addition to this, part of the insurance component, is also focusing on creating the framework, the capacities and the market for the micro-insurance to become sustainable and affordable to smallholders.
- Community empowerment and ownership through participatory planning and execution of project activities at local and community level. The focal community-based organization at village level will be the Farmer Organization (FO). Farmer Organizations are legal entities recognized by the government and registered through the Department of Cooperatives under the Ministry of Industry, Trade and Tourism (MoITT). Farmer organizations will be supported to have a technical and financial plan for future maintenance of the assets created and/or rehabilitated within the selected watersheds. They will also work in close collaboration with the Water Users' Associations (WUAs) for the management of water resources at the community level.
- Demonstrating the viability of market access strategies and approaches, risk transfer
  mechanisms in combination with adopted climate- resilience practices to ensure improved access
  to weather index insurance and increased reliable market outlets, to achieve climate resilience in
  the 3 districts.
- Strong review and feedback mechanisms to assess impact and results at:
  - village level to measure household level change in adaptive capacity
  - divisional level to monitor community activities, especially livelihood resilience building and
  - national level to ensure technical compliance and replication of lessons and models.

will ensure that improvements and modifications to project activities will be operationalized during the project implementation in a timely manner, to ensure the achievement of best results in line with the expectations and needs of the beneficiaries. Corrective measure can be included if the feedback is not in line with the planned outcomes. • Knowledge management and dissemination to support the mainstreaming of the approach through key national agencies such as the Ministry of Agriculture, Irrigation and Water Development (MOAIWD), Department of Climate Change and Meteorological Services (DCCMS), Department of Disaster Management Affairs (DoDMA), Ministry of Industry, Trade and Tourism (MoITT), Environmental Affairs Department (EAD), and the Ministry of Local Government and Rural Development (LG&RD). Fostering mutual collaboration among national authorities and ministries will promote an easier implementation of project activities, and will pave the way for effective, sustainable use of collaborative platforms also after the end of the project. WFP will act as an enabler, facilitating the communication ad exchange of lessons learned.

The project sustainability strategic thinking also determined that sustainability is underpinned by three factors:

- 1. The capacity to effectively transition households from subsistence to surplus-producing farmers;
- 2. The capacity to foster national capacities and systems to integrate this approach into public programs working in a cross-sectoral manner, and
- 3. The capacity to stimulate viable market opportunities for farmers to benefit from the broad strategies input forward.

As such and throughout the project implementation these three factors will be monitored and evaluated.

# K. Provide an overview of the environmental and social impacts and risks identified as being relevant to the project / programme

The project and specific activities are designed in close consultation with all the beneficiaries. The different needs and constraints, particularly of the most vulnerable groups, have been be taken into account to ensure fair and equal access to and inclusion in the project activities.

The adaptation measures proposed are small-scale, culturally-appropriate activities selected by the communities and are expected to generate very limited negative environmental impacts, if they are designed and executed as proposed. The entire project was screened for environmental and social risks according to the 15 principles outlined in the AF's Environmental and Social Policy. The results of the screening and risk assessment process is included in Annex 6. The results – potential risks identified and preventive or mitigation measures planned – are presented in Table 4 below. The project is categorized as Category B (medium risk).

Components 1 and 3 mainly include activities on capacity strengthening, information sharing, data and systems improvements, awareness raising, as well as government advocacy and technical support. These types of activities do not entail environmental risks.

Environmental risks are primarily associated with Component 2, which focuses on climate-resilient agriculture and the integrated climate risk management approach. Specifically, outputs 2.1 - 2.3, may present an environmental risk, if not implemented adequately.

Most of the field activities that will be implemented under Component 2 will be defined at project inception through community-based participatory planning approaches. A menu of options has been pre-identified in consultation with communities and in line with the National Forest Landscape Restoration Strategy (NFLRS) will be implemented (see table 3). This set of options has been pre-screened during design phase and activities are expected to be categorized low to moderate risk. A detailed screening process for activities under Component 2 has been set up (see Annex 6) and will be applied as soon as activities in specific TAs are identified through the CBPP process. The process will allow the project team to identify concrete risks and plan for and implement corrective measures that will avoid, minimize or mitigate these risks.

In-depth consultations and engagement with stakeholders and communities throughout project implementation will ensure that the project is culturally, socially and environmentally appropriate. In

addition, government advocacy and technical support stemming from this project will focus on enhancing the condition of women, youth and marginalized and vulnerable groups, such as elderly and disabled.

An Environmental and Social Management Plan and Grievance Mechanism are included in Annex 7 together with more detailed risk mitigation measures for the specific risks identified in Table 4 below. Table 4: Risk Screening of the project based on the 15 principles of the Adaptation Fund's Environmental and Social Policy.

Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks – further assessment and management required for compliance
Compliance with the Law	Х	No risk
		Relevant national, regional and district authorities have been and will continue to be consulted during the project proposal design and implementation to ensure compliance with all relevant laws.
Access and Equity		Low to medium risk Through in-depth consultations with communities and stakeholders during the proposal development process and throughout project implementation, and through the engagement of community leaders, this project will ensure that no activity will interfere with access to basic services or exacerbate existing inequities. This project will promote the equitable access to activities and assets by youth, elders and women in targeted communities.  Action Required: When designing and planning the activities, ensure that any activity with communities' targets women and includes marginalized and vulnerable groups such as elderly, youth, and disabled. The CBBP methodology will be used, making sure to incorporate the representation and opinions of all, with a principal focus on the typically marginalized. In addition, the gender and HIV/AIDS strategy of R4, will be used and amended to develop this project's own strategy for ensuring access and equity. For the establishment of small-scale irrigation schemes, land access and use rights will be regulated through by-laws.  When appropriate, users will be formalized into land user associations (LUAs) and/or water users' associations (WUAs) to regulate management and ensure year-round maintenance of the small-scale irrigation infrastructure. In addition, and in line with the Government of Water Resources Act No.1165, Water Users' Associations (WUAs) responsible for irrigated agriculture, Each WUAs will be responsible to establish a constitution for the association, to establish a management (executive) committee and to register the water users as members of the Association bound by the WUA's Constitution. All WUAs will be supported to get officially registered through the Department of Cooperatives under the Ministry of Industry, Trade and Tourism (MoITT), in addition the project will provide support to establish users' rules assuring equitable access to all, provide management training and ensure the collection of contributions for maintenance purposes. All the ne
		Feedback Mechanism (CFM) for all sites and all activities a CFM will be established.

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<sup>&</sup>lt;sup>65</sup> Government of Malawi (2013) Water Resources Act, 2013 (Act No.11 of 2013), Office of the Prime Minister, Malawi

Marginalized and Vulnerable Groups	X	No risk  Marginalized and vulnerable groups – especially women - will be consulted during the proposal development process to ensure that their identified threats, priorities and mitigation measures are reflected.  This project will empower vulnerable groups to make decisions on concrete adaptation actions, valuing their traditional and local knowledge. This project will create a space for women, elders and youth to choose adaptation activities in a transparent and participatory manner. Additionally, this project will consider traditional belief of the community as well as land, property and customary rights.  Action Required: When designing and planning the activities, ensure that any activity
		with communities' targets women and includes marginalized and vulnerable groups such as elderly, youth, and disabled. As part of this, perform social and environmental screening of assets during CBPP. The project's strategy on gender and HIV/AIDS mainstreaming will also be developed to account for issues related to marginal and vulnerable groups.
Human Rights	Х	The project will also ensure that no external workforce will be engaged.  No risk
Gender Equity and Women's Empowerment		This project affirms the rights of all people and does not violate any pillar of human rights.  Medium risk  Through targeted consultations with women, project design and implementation will ensure that gender considerations are integrated in each activity. This project will promote women leadership in public spaces and decision-making power for climate change adaptation and food security and nutrition.  In project formulation, gender experts will be consulted to ensure that the project effectively responds to the unique needs of women and girls and promotes gender equity. This will be enhanced by the gender mainstreaming strategy developed by WFP and other similar materials.  Action Required: When designing and planning the activities, ensure that any activity with
		communities targets at least 50% of women. The same principle will be applied to project targeting. As part of this, the project will perform social and environmental screening of assets and project activities during CBPP.
Core Labour Rights	x	No risk The project will ensure respect for international and national labour laws and codes, as stated in WFP's policies.
Indigenous Peoples	х	No risk This project is not implemented in areas where there are sub-groups within the general target population that self-identify as indigenous groups. The overall sentiment is that there are prevailing traditional practices that need to be observed by the project. This includes the inclusion of traditional leaders and structures in the project formulation and delivery. To this end, the project has and will continue to conduct extensive consultations and participatory planning events to ensure that the project appropriately incorporates the priorities and needs of this population in all activities. These consultative events will include women, elders and youth as well as traditional and religious leaders.
Involuntary Resettlement	Х	No risk The project will not lead to involuntary resettlement.
Protection of Natural Habitats		Low/ No risk  By implementing ecosystem-based adaptation activities, such as those promoted by CA and integrated watershed management, the project will ensure the protection of natural habitats. In addition, consultations with government stakeholders, community leaders and communities will ensure that conversion or degradation of critical natural habitats (including those that are legally protected, officially proposed for protection, recognized for their high conservation value, or recognized as protected by traditional or indigenous local communities) is avoided.  Action Required: Perform environmental screening of assets/activities during CBPP.

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Conservation of Biological Diversity		Low risk Crop diversification activities could lead to a deterioration of biological diversity if seed and crop types are not correctly selected (e.g. inadvertent introduction of invasive species) and diversified. To ensure this risk is addressed, this project will prioritize local species and avoid the use of non-native and invasive species. Additionally, these activities will be designed in close collaboration with the MoAIWD. By working with local leaders and village chiefs to rescue traditional and native plants and crop species, this project will support the conservation of biological diversity and increase ecosystem resilience.  Action Required: Perform environmental screening of assets/activities during CBPP.
Climate Change	X	No risk The project will not generate any significant emissions of greenhouse gases and will not contribute to climate change in any other way. All project components and activities contribute to increasing local capacities to sustainably face climate change in the long-term and climate variability in the short and medium terms.
Pollution Prevention and Resource Efficiency		Medium risk  The project will not release pollutants. Energy efficiency, minimization of material resource use, and minimization of the production of wastes will be embedded in project design. Agriculture production/Crop management activities will imply the use of agrochemicals. However, their use and application will follow integrated pest management and integrated soil fertility management approaches and benefit from technical support (i.e. close collaboration with FAO). Alternative practices to avoid/reduce the environmental impact of agricultural practices will be also promoted. The project also will employ low-tech implements for the construction works including hoes, picks; which will avoid any negative impact on either air, land or water pollution. In addition, the project will promote the use of efficient ways of applying water for irrigation such as canals to avoid surface run offs, use of treadle pumps  Action Required: All crop management activities will follow FAO/WHO International Code of Conduct on Pesticide Management through close collaboration with FAO.
Public Health		Low risk
		The project will be designed and implemented in a way that avoids any negative impact on public health. The project will employ low-tech implements for the construction works with clear work norms for the participants to minimize any construction hazards Although, the project will promote small scale structures (<3ha) which will minimize potential health risks from water harvesting structures becoming breeding grounds for mosquitoes. Awareness raising activities on water borne disease risks will be promoted through the linkage with the Ministry of Heath's program on malaria prevention. Depending on the water depth of some infrastructures, relevant signs and messages to indicate the risk of drowning will be put in place. In addition, attention will be given to activities related to water harvesting and storage and communities will be sensitized on how to use and store the water in a safe and efficient way. The same attention will be given to nutrition-sensitive activities that are part of the project ensuring a positive impact
		on health and alignment to nutrition and health services offered beyond the project. The project will ensure that the targeted populations will not face restrictions to their access to public healthcare.  Action Required: perform social environmental screenings of the project activities during CBPP, including health considerations and adhere to the CO SOP for mini-irrigation
Physical and Cultural Heritage	х	on health and alignment to nutrition and health services offered beyond the project. The project will ensure that the targeted populations will not face restrictions to their access to public healthcare.  Action Required: perform social environmental screenings of the project activities during

participatory sessions. The feasibility study will be conducted before implementation starts through the involvement of engineers as specified within the WFP FFA Risk Matrix.  Perform social environmental screenings of the project activities during CBPP
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# PART III: IMPLEMENTATION ARRANGEMENTS

# A. Describe the arrangements for project / programme implementation.

### **Arrangements for Project Implementation**

The proposed project will be executed by the Ministry of Agriculture, Irrigation and Water Development (MoAIWD). MoAIWD will acts as 'executing entity (EE)' and is responsible for the implementation of activities at the field level in accordance with the agreed project document and annual work plan and budget.

The World Food Program (WFP) will serve as the AF Multilateral Implementing Agency (MIE) of the project. WFP will act as fund custodian, with the WFP Country Director acting as the Fund manager. WFP will oversee and coordinate the overall project management, oversee monitoring and evaluation, financial management, capacity strengthening, provide technical backstopping and report to the AF and ensuring the project meets WFP and AF rules and regulations. WFP will provide technical, fiduciary and managerial support throughout all stages of project implementation. At the national level, the project will be coordinated through support of the WFP Country Office, with coordination at the district and community level mainly through the WFP Blantyre District Office, which is responsible for the districts of Balaka, Machinga and Zomba. Additional technical support will be provided as required by the WFP Regional Bureau in Johannesburg, and WFP Headquarters in Rome, Italy.

See Annex 10 for the Specific roles and contributions to the project by each entity.

# **Project Steering Committee (PSC)**

MOAIWD shall establish a Project Steering Committee ("PSC"), who will be the highest decision-making body of the Project and will as such direct the overall implementation of the Project.

The Principal Secretary-Ministry of Agriculture Irrigation & Water Development (MoAIWD) will act as the chair, while WFP will be the co-chair. The MOAIWD Project Coordinator will be an ex-officio member of PSC will serve as the Secretary of PSC. Senior Representatives of The Ministry of Finance, specifically the Economic Planning and Development Department (EPD), The Ministry of Agriculture, Irrigation and Water Development (MoAIWD), Department of Climate Change and Meteorological Services (DCCMS), Department of Disaster Management Affairs (DoDMA), Ministry of Industry, Trade and Tourism (MoITT), Environmental Affairs Department (EAD), and the Ministry Local Government and Rural Development (MoLGRD) are the other members of the PSC. The PSC will meet at least every six months, and extraordinarily if called for by the chair. The Committee will be formed by official communication from the Minister of MOAIWD. The PSC will also ensure coordination and reporting on the progress of the AF project to the National Resilience Steering Committee, which currently is being established as the National Resilience Strategy has been finalized.

#### National Advisory Technical Group (NATG)

The National Advisory technical Group will be convened by the MOAIWD and will meet quarterly. This committee consists of the national implementing agencies (MoAIWD), (MoITT), (EPD), (DoDMA), (DCCMS), (MoLGRD), (EAD), Reserve Bank of Malawi (RBM), Insurance Association of Malawi (IAM), NGO Rep., the Project Coordinator and the WFP Coordinator. It is responsible for monitoring the technical standards of outputs, activities and methodologies employed and should clear all technical reports produced by the project. The National Project Management Committee will input to the bi-annual technical review of outputs and progress based on feedback from the District Level and monitoring visits.

#### At national level

A Project Coordination Unit (PCU) will be established within the MoAIWD and will consist of both MoAIWD staff and WFP staff dedicated to the project. A Project Coordinator will be appointed to manage the project under the overall technical and management guidance of the NATG and the Agriculture Extension Services, Crops Development, Agriculture Research, Agriculture Planning Services, Land Resource and Conservation of the MoAIWD. The PCU will be responsible for the overall implementation of the Project with the technical and management guidance of the climate change division of the MOAIWD. Due to limited project funds, the PCU shall comprise staff to be sourced from the MoAIWD and other Departments such as Climate Change and Meteorological Services. The officers to be attached to the project from government to comprise the PCU shall include: a Project Coordinator, Policy, Monitoring and Evaluation Officer, Climate Change Officer, Extension Methodology Officer, Land Resource Conservation Officer, Finance Officer/Accountant, Procurement Officer, Administrative Officer, and Account Assistant. In addition, WFP will provide one Project technical officer and one Knowledge Management Officer, both part time, to support project execution. They will be housed in the same office block as government officers. To ensure close coordination with the MoAIWD-PCU, jointly they will coordinate the implementation of all project activities. manage project funds and achieve the project outputs as specified in the Project Proposal from the headquarters (Lilongwe) level.

Specifically, the PCU will be responsible for the following:

- Execution of particular project Outputs, ensure swift delivery of technical deliverables as recommended to the NPSC for approval.
- Coordinate and collaborate with other stakeholders to implement the annual work plan of the Project
- Form and work with divisional monitoring and implementation committees in each division to carry out the planned activities of the Project (with technical and management guidance of other relevant units of the MOAIWD and WFP, where relevant).
- Ensure national level and sub-national coordination and collaboration with other governmental and non-governmental bodies to facilitate data exchange

#### At the district Level

At the field level, in each of the 3 targeted districts Balaka, Machinga and Zomba a District Project Team will be established, and each team will consist of 4 fixed term staff: one MoAIWD appointed District Project Field officer and District Project Field Assistant and one driver and one WFP field staff who will provide technical support. All 3 districts will be supported by 7 technical officers & support staff from MoAIWD. They will work under the overall technical and management guidance from the PCU. For cost-effectiveness this would be housed within the Divisional Secretariat or a divisional unit of the national technical agencies-Agrarian Services or Agriculture. The DPCT will also coordinate between DADO and the different divisional actors, the EPA the VDC and Farmer Organizations. They will be responsible to report the meetings of the District Implementing and Monitoring Committees to the National Project Coordination Unit (PCU).

For cost efficiency and where possible they will be housed within the district level MOAIWD offices.

#### Agricultural Development Division (ADD) Level coordination

At the Agricultural Development Division (ADD) level a Divisional Project Implementing and Monitoring Committee will consist of the Divisional Crops Officer, the Divisional Agricultural Extension Officer, the Divisional Land Resources Conservation Officer and other relevant technical Extension officers. The Divisional Project Coordination Unit provides secretarial support to the Committee.

This Committee will meet quarterly and any other time so required and decided by the Programme Manager or requested by the District PCU. The committee will review progress and implementation modality employed at village level and make necessary recommendations to keep activities on track to delivery targets.

# **District Agricultural Development office level (DADO)**

The PCU will form and work with district monitoring and implementation committees in each division to carry out the planned activities of the Project. The committees will include the relevant District Sectoral leads. The District Project Implementing and Monitoring Committee will consist of the district Crops Officer, the Agricultural Extension Methodology Officer (AEMO) and the Land Resources Conservation Officer, who will work in close collaboration and support of the District Project Coordination Teams and other district level relevant technical Extension officers.

The District Project Coordination Teams (DPCT) will provide secretarial support to the Committee. This Committee will meet quarterly and any other time so required and decided by the District Commissioner or requested by the DPCT. The committee will review progress and implementation modality employed at village level and make necessary recommendations to keep activities on track to delivery targets.

# Extension Planning Area (EPA) level coordination (TA-level)

Within the district at the Extension Planning Area level and in the selected Traditional Authorities (TAs) in close coordination of the DPCT the Agricultural Extension Development Coordinator and the Agricultural Extension Development Officer will be support the actual roll-out of the activities in close collaboration with and across the VDCs, the UN agencies, NGOs, private sector and other stakeholders.

## Village Level Project Implementing and Monitoring Committees (VDC)

This is a small unit of village officials brought together to implement the project and also streamline different village development interventions. The unit will oversee the implementation of project activities by FO, and participate in developing village strategies and awareness programs. The VDC will be reporting to the Agricultural Extension Development Officer (AEDO) on progress and challenges.

#### Farmer Organizations (FOs)

FOs will be the project implementing cooperatives/associations and will be responsible for keeping activity accounts, files for each household and for regular monitoring and updating of field level progress. Each Farmer organization will be registered and will have to complete a commitment format to the activities and to ensure sustainability and maintenance.

## B. Describe the measures for financial and project / programme risk management.

In line with WFPs 2018 enterprise risk management policy WFP in its role as MIE will ensure adequate oversight and monitoring of the project throughout its implementation, by regularly updating the project's risk management matrix See table 5 which will continue to guide preparedness and risk mitigation actions.

Table 5: The AF project's risk management matrix

Risk Description	Potential impact	Probability of occurrence			Mitigation action
		High	Medium	Low	
Unavailability of weather and climate data in the targeted district for analysis	Major				Make use of historical archives  Prior assessments have been done to indicate this is unlikely

Partners failure to integrate the project activities into their regular work (framework)	Moderate	Detailed discussions and planning sessions with partners, ensuring that the project plans are integrated into the regular work plan
Humanitarian emergency – A medium/large scale humanitarian emergency occurs in the country, necessitating a diversion of focus for key executing partners and stakeholders.	Moderate	Through contingency planning with partners, this sort of shocks can be addressed, while enabling the continuation of project activities
Low stakeholder support/buy in for the project – Key stakeholders do not participate fully in project activities.	Moderate	Stakeholder meetings held on a regular basis, especially prior to and at the early stage of the project.  Communications strategy prepared for the project to inform different target audiences.
Lack of risk diversification and operation in high risk zones may discourage insurance partners	Moderate	The project will consider the high-risk factors when selecting the targeted districts, ensuring that insurance partners will be able to operate in the context.
Political risk considering upcoming presidential elections	Moderate	In view of the risk that political volatility and civil unrest could interrupt the project, the team will seek to reduce the effects by establishing strong operational partnerships with various national organizations and engaging in advocacy. WFP will strive to establish a sentiment of full ownership amongst government stakeholders
Technical Capacity of government partners	Low	Because unexpected constraints relating to the capacities of national partners could result in delays in implementation, the project will continue to develop partnerships with a broad range of development organizations to ensure sustainability and to limit risks. Capacity strengthening will also be prioritized throughout the project.

WFP will also oversee that the MoAIWD continues to partner with organizations with proven track records on execution, transparency and accountability.

In line with the 2017 WFP Environmental Policy, all activities will integrate environmental considerations and comply with requirements of WFP environmental and social standards and all Malawi National Laws and Regulations.

In order to mitigate protection risks to beneficiaries, including sexual exploitation and abuse, awareness training on the Prevention of Sexual Exploitation and Abuse (PSEA) will be made mandatory for all personnel including volunteers and contractors of both WFP and MoAIWD. WFP will therefore ensure that all MoAIWD partners and staff are fully informed on WFP's policies on fraud and on the prevention of any form of

exploitation of beneficiaries (sexually or otherwise). A dedicated complaints and feedback mechanism will be established as part of the projects accountability to affected populations commitments.

As part of WFPs capacity strengthening of the MoAIWD, internal control and learning processes will be strengthened through regular risk review exercises and the implementation of approved mitigation measures.

Working in tandem with the MoAIWD and all cooperating partners including private sector partners, WFPs risk management officer will help to ensure WFP guidance and standard operating procedures are properly applied to reduce risk of fraud and corruption within the programme.

These efforts will be complemented with reviews and oversight activities conducted by the Regional Bureau and WFP audits.

## C. Describe the measures for environmental and social risk management, in line with the Environmental and Social Policy of the Adaptation Fund.

The entire project was screened for environmental and social risks against the 15 principles outlined in the AF's Environmental and Social Policy, and as included in the E&S screening tool. The project is categorized as Category B (medium risk). The results of the E&S Screening and assessment are included in Annex 6. The project will work to ensure that all measures are implemented to the highest standard with an emphasis on risk avoidance. The project coordinator will support communities in the development, implementation and monitoring of community mitigation plans. The M&E officer will monitor ESMP indicators as part of the M&E system.

An Environmental and Social Management Plan (ESMP) and Grievance Mechanism are included in Annex 6 together with more detailed risk mitigation measures for the specific risks identified in Table 5 of Section B above.

The ESMP designed for this project will track identified risks, or any new risks, ensuring they are properly monitored, evaluated, and reported upon. The proposed project will fully comply with national laws, the Adaptation Fund's Environmental and Social Policy and WFP's social and environmental standards. The overall objective of the ESMP is to ensure that risks are identified, and that the adequate action is taken, whether these be mitigation measures. It also enables effective response to new issues that might emerge during project implementation. In order to ensure effective compliance with the ESMP provisions and standards, environmental and social risks compliance personnel may be engaged during project implementation period to support the project team with the implementation of the ESMP and periodical checks.

All assets identified will be screened before they are constructed. If risks are identified as "low", then the activity will proceed (with adequate monitoring, if needed). If the risks are "medium", then an environmental note will be developed that lists the risk and plans for mitigation measures. If a high risk is identified, then an ESIA will be undertaken by an expert. See the ESMP in Annex 6 for more detail.

MoAIWD and project partners and stakeholders involved in asset creation activities will be trained on the use of the E&S screening tool to identify environmental risks, quantify them, and identify and plan for avoidance or mitigation measures. Technical support from a governmental partner or WFP, where needed, will be provided to deal with medium and high-risk activities and manage them properly.

Finally, the grievance and complaint mechanism described in annex 5 will enable beneficiaries to raise their voice and report any irregularities in project/activity design and implementation. Awareness will be raised among communities, targeting especially vulnerable groups such as women, to inform them of their rights and use of the complaint mechanism.

#### D. Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan.

The M&E section of the Economic Planning and Development under the Ministry of Finance will be responsible for the monitoring and evaluation of activities with WFP technical support. Overall responsibility for monitoring and evaluation will rest with WFP and the MoAIWD Project Coordination Unit.

Outcomes and outputs will be monitored during project implementation using data compiled by Project Coordination Unit with reporting from the District Project Implementing and Monitoring Committee. Additionally, the PCU will be responsible for preparing six-monthly monitoring and evaluation reports (Semi-annual Progress Reports) that will be submitted to the National Project Steering Committee. The reports will contain adequate information for the Steering Committee to make necessary recommendations and decisions on project implementation.

Quality Assurance overall Monitoring Agricultural Project monitoring, reporting and evaluation will be carried out in accordance with WFP established procedures and standards and will be based on WFP's internal "Evaluation Quality Assurance System" (EQAS). Financial monitoring and accounting by the Multilateral Implementing Agency will follow WFP standards that are based on the International Public-Sector Accounting Standards (IPSAS).

M&E will be carried out concurrently with project execution. Quarterly technical reports will be collated from each District Project Coordination team to a format that would enable efficient target tracking. The bi-annual technical report consists of a review of these DSD implementation reports by national technical agencies and their own field monitoring reports to ensure technical compatibility.

Annual Progress Review will be coordinated and produced by the WFP Project Coordinator and PCU National Project Coordinator, with inputs and guidance from the MoAlWD. The data for monitoring will consist of financial, procurement and physical progress reports as well as compliance with the requirements of the environmental and social assessment and management frameworks, along with financial audit reports.

The issues to be reviewed by NPSC on monitoring and evaluation would include the efficacy, efficiency, sustainability, acceptance by the stakeholders of project actions.

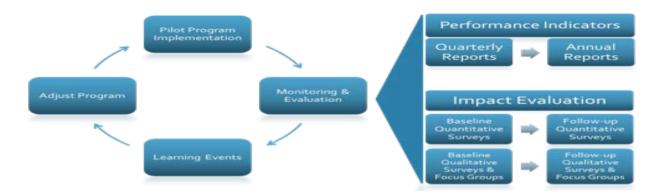
Quantitative targets will be supplemented with narrative reports. Such reports would be made available in time for NPSC to review and discuss during its meetings.

As mentioned in Part II section G above the project both within MoAIWD and WFP has included knowledge management and/or M&E officers to meet the specific needs of knowledge generation, analysis and dissemination at different management levels for all outputs.

They will oversee that the monitoring and evaluation requirements of the project, including bi-annual technical reports from the national implementing agencies and other co-opted agencies are technically sound and ensure that lessons learned identified through learning events and evaluations and joint monitoring, are used to adjust the programme activities.

They will also ensure that baselines, independent impact evaluation of project results and analysis of impact on the field at mid-term and end of project are implemented in close collaboration where possible with national research institutions and following the planned learning cycle plan of the AF project. (see figure 2 below and also the monitoring and evaluation framework below).

Figure 2: M&E processes for the AF project.



The M&E plan is based on the below results framework in table 7.

The M&E system informs program reporting, as follows:

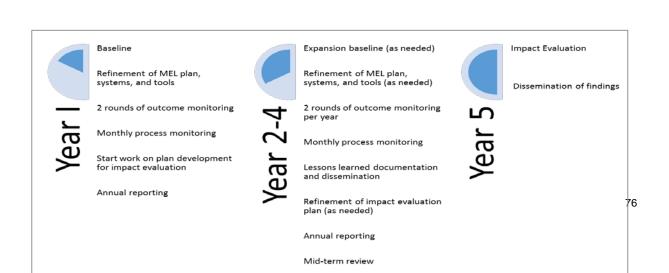
- Inception workshop Held by project executing team before the start of the project. The inception report to be provided on the basis of the workshop will form the basis for the first detailed annual work plan. A Project Inception Report will be prepared immediately following the Inception Workshop by the
- Project Manager with oversight by WFP Coordinator and the PCU of MoAIWD. It will include an
  overall Project Work Plan covering the five-year period and a detailed First Year Work Plan divided
  in quarterly time-frames detailing the activities and progress indicators that will guide implementation
  during the first year of the project. The Report will also include the detailed project budget for the
  first full year of implementation, prepared on the basis of the Annual Work Plan, and including any
  monitoring and evaluation requirements to effectively measure project performance during the
  targeted 12-month time-frame.
- The Inception Report will include a more detailed narrative on the institutional roles, responsibilities, coordinating actions and feedback mechanisms of project related partners. In addition, a section will be included on progress to date on project establishment and start-up activities and an update of any changed external conditions that may affect project implementation. When finalized the report will be circulated to project counterparts who will be given a period of one calendar month in which to respond with comments or queries.
- Baseline Done by WFP 2-3 months prior to project start to establish a benchmark for monitoring progress. Indicator values and targets for the logframe will be finalized and refined upon finalization of the baseline findings.
- Monthly Reports Done by executing entity and submitted to WFP for review based on the output level indicators and other process level indicators from agreements in place intended to track performance.
- Quarterly Reports

   Done by WFP based on the outcome level indicators, considering the output level data collected by partners.
- **Annual Reports** Done by WFP based on the outcome and output level data collected to present a yearly snapshot of progress.
- Mid-term Evaluation- An independent review of progress against milestones at mid-cycle (28th to 32th month of implementation) will be carried out as part of the M&E Plan. The MTE will determine progress made towards the achievement of objectives and will identify corrective actions if needed. It will focus on effectiveness of delivery, timelines and efficiency of implementation and will present the initial lessons of project implementation and management. The findings will be incorporated in a mid-term review report. The MTE will be done by WFP with support from an external third party to assess progress towards the intended impact of the project, leading up to the end line assessment.
- **Final Evaluation** Done by an external third party intended to assess the impact of the whole intervention at the end of the project (6 months after) using the panel data collected through the project. (Impact evaluation)

Table 6: Project M&E budget costs

Type of M&E activity	Responsible Parties	Budget (US\$) not including staff time	Time frame
Project Inception	National Project Coordinator	25,000	Within the first three months
Workshop (IW)	and WFP		
Inception report	National project Coordinator	5,000	Two weeks after IW
Baseline	PCU and WFP with a technical consultant	12,500	Within the first four months
Baseline report	National Project Coordinator and WFP coordinator	2,500	Two weeks after the baseline
Quarterly Technical Reports from the District level	District project Coordination teams	0	End of each quarter
Bi-Annual Technical Reports from EPA level Coordination committees	District project Coordination teams	0	End of every Six months
Semi-annual Progress Reports (SAPR)	National Project Coordinator and WFP coordinator	15,000	End of every Six months
Annual Progress Reports	National Project Coordinator and WFP coordinator	10,000	End of each year
Meetings minutes of Project Steering Committee	National Project Coordinator	0	First within 2 weeks after the IW- report is finalized and thereafter to review SAPRs
Meetings minutes of Technical Advisory Committee	National Project Coordinator	0	At least six monthly to review divisional and basis reports
Technical reports	Technical Consultants	0	As required
Mid-term Evaluation (MTE)	External Evaluator/technical consultants	60,000	(28th to 32th month of implementation)
Final Evaluation (FE)	External Evaluator/technical consultants	60,000	Within six months of the end date
Final Report (including de- briefing presentation, validation workshop)	National Project Coordinator and WFP coordinator	5,000	Within 4 weeks of the FE
Financial information Audit	MoAIWD and WFP	12,500	After completion of the report
	Total	247,500	

The following diagram shows the project's milestones.



E. A Results Framework for the Project Proposal, including milestones, targets and in	naicators
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Table 7: Project Results Framework.

Project Impact	Impact Indicator	Baseline	Target	Source of verification	Risks and assumptions
	% of households in target communities who independently access insurance and climate services by gender of household head	0	80%	Baseline/Midline/Endline	
Enhanced climate adaptation and food security of households through access to	% increase of government owned resilience and climate change adaptation activities	0	50%	Baseline/Midline/Endline	
integrated climate risk management strategies and structured market opportunities	% of targeted communities where there is evidence of improved capacity to manage climate shocks and risks	0	100%	Baseline/Midline/Endline	
	% of the population in targeted communities reporting benefits from an enhanced livelihood asset base by gender	0	50%	Baseline/Midline/Endline	
Project Outcome 1	Outcome Indicator	Baseline	Target	Source of verification	Risks and assumptions
Improved access to insurance as a risk transfer mechanism for	% of households in targeted communities with reduced risk related to extreme weather events by gender of household head	0	F: 65% M: 70%	Sample Surveys	HHs have the willingness to use insurance and climate change
targeted farmers affected by climate change and food insecurity	% of households belonging to vulnerable groups with access to weather index micro insurance by gender of household head	F: 10% M: 31%	F: 30% M:40%	Sample Surveys	services (A)
	% of households not engaged in coping mechanisms	22%	80%		
Project Output 1	Output Indicator	Baseline	Target	Source of verification	Risks and assumptions
Output 1.1 Targeted	Number of people insured (non-cash, partial cash payment and full cash payment by gender	0	F: 10,240 M:15,360	Partner output report	
populations groups covered by adequate risk reduction systems	Total premiums paid, by access modality (insurance for assets or cash)	0	460,800	Partner output report	Communities are able to develop their capacity to enhance and
•	Total sum insured (IFA, partial cash payment and full cash payment)	0	2,477,419	Partner output report	protect their income through insurance and savings and loans to invest in insurance and pay for
Output 1.2 Awareness raised among farmers on weather index insurance	Number of people trained on index design by gender	F: 2 M:18	F: 15 M: 20	Partner output report	their cover by the end of the project (A)
and vulnerable farmers enabled access to weather index micro insurance	Number of people sensitized on insurance as a risk transfer mechanism by gender	0	F: 10,240 M:15,360	Partner output report	

Output 1.3 Develop and test tools and systems for	Number of national coordination mechanisms supported	3	3	Partner output report	
weather insurance insurance tools	Number staff trained on weather index insurance (disaggregated by public/private, national/local) by gender	40	50	Partner output report	
Output 1.4. Inclusion of insurance as risk transfer mechanisms in national agriculture programs and supported schemes	Number of national agriculture programs and supported schemes who insurance packages as risk transfer mechanisms	2	10	Partner output report	
Project Outcome 2	Indicator	Baseline	Target	Source of verification	Risks and assumptions
Adopted climate-resilient	% of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses by gender	0	F: 90% M: 95%	Sample Surveys	Targeted communities are open minded to embrace and adopt the
agriculture practices among targeted farmers contributing to the integrated climate risk	% of households using weather and climate information for decision-making on livelihoods and food security by gender and district	F: 60% M: 80%	F: 75% M: 85%	Sample Surveys	new agriculture practices (A)
management approach	% of targeted households with boarder line to acceptable food consumption score by gender of household head and district	F: 48% M: 51%	F: 75% M: 80%	Sample Surveys	HHs have successfully build sustainable livelihoods (A)
Project Outputs 2	Indicator	Baseline	Target	Source of verification	Risks and assumptions
2.1. Promote soil and water conservation	No. and type of risk reduction actions or strategies introduced at local level	5	5	Partner output report	Communities do not take
practices through individual and group asset creation, including irrigation development	Number of assets built, restored or maintained by targeted households and communities, by type and unit of measure and a percentage of planned	0	36	Partner output report	ownership of the assets created through IFA as the participation is seen as a social safety net (R)
2.2. Promote climate resilient agriculture among farmers through extension service support	% of HHs involved in CA (minimum tillage, crop diversity, retention of crop residues) by gender of household head	F: 18% M: 24%	F: 30% M: 35%	Sampling survey	The MoAIWD is able to mobilize adequate level of qualified and trained extension workers (A)
2.3. Support crop	Number of crops grown by HHs (by type)	2	4	Partner output report	
diversification with a focus on drought tolerant and nutritious crops	Number of HH accessing improved fruit seedlings, leguminous trees and fodder tree seed by gender of household head	0	F: 40,000 M: 45,000	Partner output report	Communities have access to diversified nutritious foods (A)

2.4. Strengthened access to and use of weather/climate information for targeted communities to inform livelihood decision-making among farmers	Number of delivery channels used by households to receive information for the climate agricultural services (i.e. in-person intermediaries, radio advisories, and SMS) by gender	1	3	Partner output report	The media coverage in the three districts is not stable and or not stable. (R)
2.5. Strengthened access to and use of weather/climate information for targeted	Number of households within the targeted communities that receive climate services, disaggregated by source (i.e. farm intermediaries, radio advisories, and SMS), by gender, vulnerable groups and district	Extension Officer: 6,000; Radio: 10,020; SMS: 25,000	Extension Officer: 23,000; Radio: 19,020; SMS: 62,000	Partner output report	All beneficiaries have equitable access to information through extension workers and or other
communities to inform livelihood decision-making among farmers	Number of intermediaries trained in how to access, interpret and communicate climate information to households, to support household decision-making related to food security, livelihoods, and DRR – disaggregated per gender and district	96	F:80 M: 100	Partner output report	media sources (radio, TV, SMS) (A)
	Number of national coordination mechanisms supported	0	5	Partner output report	
2.6. Strengthened national capacities and systems to provide integrated climate risk management approaches	Number of communities extension workers and national agricultural content development committee members engaged in capacity strengthening initiatives to enhance national food security and nutrition stakeholder capacities	0	104	Partner output report	National authorities are committed to strengthen their capacity and government systems to provide integrated climate risk management approaches (A)
	Number of capacity building trainings with national/local entities	0	20	Partner output report	
Project outcome 3	Outcome Indicator	Baseline	Target	Source of verification	Risks and assumptions
	% of households having more secure (increased) access to livelihood assets by gender of household head	0	F:75% M: 80%	Sample Surveys	Severe recurrent drought during project implementation might limit ability of smallholders to produce surplus, despite adaptation measures. (R)
Strengthened Market	% of targeted population with sustained climate-resilient livelihoods by gender of household head	0	F:75% M: 80%	Sample Surveys	
access strategies and approaches for smallholder farmers	% change in household income disaggregated by activity type and gender of household head	0	F:25% M: 30%	Sample Surveys	Farmers are willing to use village and saving and loan (VSLs) groups (A)
	% of targeted smallholders selling through WFP-supported farmer aggregation systems	6%	10%	Sample Surveys	
	% change in HH savings (by type: individual, group, formal, informal)	0	30%	Sample Surveys	

	% of HHs accessing markets to sell surplus	40%	50%	Sample Surveys	
	% of HHs within the targeted communities using market advice to make livelihood related decisions (by type)	43%	Both: 60% F:10% M: 10%	Sample Surveys	
	% change in HH participating in FOs	81%	95%	Sample Surveys	
Project Output 3	Indicator	Baseline	Target	Source of verification	Risks and assumptions
3.1. Strengthened financial capacities and market access opportunities to enhance investment in climate-resilience agriculture (including saving, credit, and	No. and type of adaptive financial capacities (Insurance, saving, credit, and financial literacy) created in support of individual or community-livelihood strategies as a percentage of plan	0	75%	Partner monthly asset tracker	Inadequate interest of the private and government partner/stakeholders within the market to become market outlets for the targeted communities and the FOs targeted by the project, reducing the ability of the targeted HHs to increasingly invest in their production, income diversification and value addition opportunities.  (R)
financial literacy)	Value of HH savings (MK)	30,000.00	80,000	Partner Monthly report	, ,
	Number of HH accessing credit (by type)	0	2,560	Partner Monthly report	
	Value of HH credit accessed (formal) (MK)	50,000	80,000	Partner Monthly report	
3.2. Strengthen performance and outreach of farmer organizations/cooperatives and enhance their capacity to engage in farming as a business	Quantity of food purchased locally from pro-smallholder aggregation systems (in mt)			Partner annual report	
	Number of farmers' organizations trained	0	2,000		
<b>3.3.</b> Provider market information to inform	in market access and post-harvest handling skills	3	25	Partner Monthly report	
business planning & activities	Number of participants receiving market advice (by type)	8,024	23,600	Partner Monthly report	
<b>3.4.</b> Promoted smallholder procurement through government/private sector strategies and programs	Number of smallholder farmers supported	0	23,600	Partner Monthly report	
3.5 promote public pro- small holder procurement	Number of pro-small holder policies developed	0	1	Partner Monthly report	

Cross-cutting Issues							
4. Gender cross cutting indicators	Indicator	Baseline	Target	Source of verification	Risks and assumptions		
Improved gender equality and women empowerment among assisted populations	% of households where women, men or both women and men make decisions on the use/access of markets		Both - 40% Female - 30% (to Male-30%	Sample Surveys			
	nong assisted % of households where women men or		Both - 40% Female - 30% Male-30%	Sample Surveys			

## F. Alignment with the Results Framework of the Adaptation Fund

Project Objective(s) <sup>66</sup>	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
Enhance climate adaptation and food security of households through access to integrated climate risk management strategies and structured market opportunities	% of households in target communities who independently access insurance and climate services by gender of household head     % increase of government owned resilience and climate change adaptation activities     % of targeted communities where there is evidence of improved capacity to manage climate shocks and risk      % of the population in targeted communities reporting benefits from an enhanced livelihood asset base by gender	1. Reduced exposure to climate-related hazards and threats 2. Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses 3. Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level 5. Increased ecosystem resilience in response to climate change and variability-induced stress 6. Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	1. Relevant threat and hazard information generated and disseminated to stakeholders on a timely basis  2.2. Number of people with reduced risk to extreme weather events  3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses  5. Ecosystem services and natural resource assets maintained or improved under climate change and variability-induced stress  6.1 Percentage of households and communities having more secure access to livelihood assets	

<sup>66</sup> The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology but the overall principle should still apply

Project	Project Outcome Indicator(s)	7. Improved policies and regulations that promote and enforce resilience measures  Fund Output	6.2. Percentage of targeted population with sustained climateresilient alternative livelihoods  7. Climate change priorities are integrated into national development strategy  Fund Output Indicator	Grant Amount
Outcome(s)	,	·	·	(USD)
1. Improved access to insurance as a risk transfer mechanism for targeted farmers	% of households in targeted communities with reduced risk related to extreme weather events by gender of household head     % of households belonging to vulnerable groups with access to weather index micro insurance by	Output 1.2. Targeted population groups covered by adequate risk reduction systems  Output 2.1 Strengthened capacity of national and sub-national centers	1.2.1. Percentage of target population covered by adequate risk-reduction systems      2.1.2 No. of targeted institutions with increased capacity to minimize	3,248,000
targeted farmers affected by climate change and food insecurity	weather index micro insurance by gender of household head  • % change in HH savings (by type: individual, group, formal, informal)  • % of households not engaged in coping mechanisms	and networks to respond rapidly to extreme weather events  Output 3: Targeted population groups participating in adaptation and risk reduction awareness activities  Output 7. Improved integration of climate-resilience strategies into country development plans	exposure to climate variability risks (by type, sector and scale) 3.1.1 No. and type of risk reduction actions or strategies introduced at local level 7.1. No., type, and sector of policies introduced or adjusted to address climate change risks	
2. Adopted climate-resilient agriculture practices among targeted farmers contributing to the integrated climate risk management approach	<ul> <li>% of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses by gender</li> <li>% of households using weather and climate information for decision-making on livelihoods and food security by gender</li> <li>% of targeted households with boarder line to acceptable food consumption score</li> </ul>	Output 2.1 Strengthened capacity of national and sub-national centers and networks to respond rapidly to extreme weather events  Output 2.2: Targeted population groups covered by adequate risk reduction systems  3. Targeted population groups participating in adaptation and risk reduction awareness activities  5. Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability	2.1.1. No. of staff trained to respond to, and mitigate impacts of, climate-related events  2.2.1. Percentage of population covered by adequate risk-reduction systems  3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses  5.1. No. and type of natural resource assets created, maintained or improved to withstand conditions	2,012,000

		6. Targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability	resulting from climate variability and change (by type of assets) 6.1.1.No. and type of adaptation assets (physical as well as knowledge) created or strengthened in support of individual or community livelihood strategies	
3. Strengthened market access strategies and approaches for smallholder farmers	% of households having more secure (increased) access to livelihood assets by gender of household head     % of targeted population with sustained climate-resilient livelihoods by gender of household head     % change in household income disaggregated by activity type and gender of household head     Percentage of targeted smallholders selling through WFP-supported farmer aggregation systems     % of HHs accessing markets to sell surplus     % of HH within the targeted communities using markets advice to make livelihood related decisions (by type)     % change in HH participating in FOs	6. Targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability	6.1.1. No and type of adaptation assets (physical as well as knowledge) created or strengthened in support of individual or community livelihood strategies 6.1.2. Type of income sources for households generated under climate change scenario	3,148,000

## H. Budget

	Cost category	Notes	PY1	PY2	PY3	PY4	PY5	Total
1.1	Project staff	Project field staff costs	74,273	74,273	74,273	74,273	74,273	371,365

	International consultants	Insurance design specialist service fee (IRI/other)	30,000	20,000	10,000	7,500	7,500	75,000
	Service contracts/FLA's	Partners (NGOs) Support to Insurance Design and Implementation; District Council Support to Insurance Design and Implementation; Data Collection for Insurance design / refining (focus groups); Data Collection for Insurance - seasonal monitoring costs	22,000	22,000	19,500	19,500	18,000	101,000
	Transfers	Insurance for Asset Premiums	460,800	460,800	368,640	276,480	230,400	1,797,120
	Travel		17,572	17,572	17,572	17,572	17,572	87,860
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	3,004	1,292	1,292	1,292	1,292	8,172
	Total Output 1.1.		607,649	595,937	491,277	396,617	349,037	2,440,517
	Project staff	Project field staff costs	65,329	65,329	65,329	65,329	65,329	326,645
	Service contracts/FLA's	Insurance monitoring costs (rain gauge, training, and maintenance); Community mobilization and sensitization; Verification & Registration of beneficiaries for insurance; Insurance delivery costs (Promotion, Distribution, and Settlement)	28,000	28,000	20,500	20,500	20,500	117,500
4.2	Procurement	Procure NFIs to support implementation of IFA activities	12,500	12,500	8,000	8,000	5,000	46,000
1.2	Travel		17,572	17,572	17,572	17,572	17,572	87,860
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	3,004	1,292	1,292	1,292	1,292	8,172
	Workshop and training	Planning and Review Workshops - National level; Planning and Review Workshops - District level; Community trainings – ToT	11,000	11,000	11,000	11,000	11,000	55,000
	Total Output 1.2		137,405	135,693	123,693	123,693	120,693	641,177
	Project staff	Project field staff costs	1,021	1,021	1,021	1,021	1,021	5,105
	Procurement	Procurement of ICT solutions/Equipment for managing distribution process; Rain gauge procurement and installation	35,000	-	-	-	-	35,000
1.3	Travel		274	274	274	274	274	1,370
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	27	-	-	-	-	27
	Workshop and training	Trainings - on product design for public and private stakeholders	10,000	10,000	10,000	-	-	30,000

	Total Output 1.3		46,322	11,295	11,295	1,295	1,295	71,502
	Project staff	Project field staff costs	939	939	939	939	939	4,695
	Travel		252	252	252	252	252	1,260
1.4	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	25	-	-	-	-	25
	Workshop and training	Coordination workshops with agriculture and financial services sectors	4,000	4,000	4,000	4,000	4,000	20,000
	Total Output 1.4		5,216	5,191	5,191	5,191	5,191	25,980
Total	component 1		796,592	748,116	631,456	526,796	476,216	3,179,175
	Project staff	Project field staff costs	31,358	31,358	31,358	31,358	31,358	156,790
	Service contracts/FLA's	Feasibility study and design; Water management, group dynamics and leadership skills; Development of irrigation scheme; Monitoring of irrigation schemes (crop production monitoring)	73,200	194,600	73,200	12,000	12,000	365,000
2.1	Procurement	Procurement of NFIs for soil & water conservation (hoes, shovels etc) and start-up seeds	42,000	30,000	12,000			84,000
	Travel		8,435	8,435	8,435	8,435	8,435	42,175
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	1,430	608	608	608	608	3,863
	Total Output 2.1.		156,423	265,001	125,601	52,401	52,401	651,828
	Project staff	Project field staff costs	15,679	15,679	15,679	15,679	15,679	78,395
	Service contracts/FLA's	Establishment of demonstration plots (seeds & materials for demonstration) include field annd open days, Promotion of CA	85,000	55,000	45,000	45,000	45,000	275,000
2.2	Travel		4,217	4,217	4,217	4,217	4,217	21,085
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	731	320	320	320	320	2,011
	Total Output 2.2		105,627	75,216	65,216	65,216	65,216	376,491
	Project staff	Project field staff costs	8,574	8,574	8,574	8,574	8,574	42,870
	Service contracts/FLA's	Fruit tree production (grafting)	15,000	15,000	15,000	12,500	12,000	69,500
2.3	Procurement	Procurement of drought tolerant crops (seed multiplication)	20,000	30,000	16,000	14,000	14,000	94,000
	Travel		2,307	2,307	2,307	2,307	2,307	11,535

	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	417	192	192	192	192	1,185
	Total Output 2.3		46,298	56,073	42,073	37,573	37,073	219,090
	Project staff	Project field staff costs	24,498	24,498	24,498	24,498	24,498	122,490
	Service contracts/FLA's	Radio and ICT (SMS) Services; Extension Officer Training services UoR/PICSA; Climate product development	64,000	64,000	63,000	33,000	24,000	248,000
	Procurement	Stationary;	21,000	21,000	11,000	3,000	3,000	59,000
	Travel		6,589	6,589	6,589	6,589	6,589	32,945
2.4	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	1,122	480	480	480	480	3,042
	Workshop and training	PICSA Training of Trainers (ToTs); Review of climate services community activities once a year, planning for climate service activities and co-production of agro-climatic messages with extension officers and other stake holders; Climate services assessments in the new district i.e. Machinga	48,000	23,000	23,000	25,000	25,000	144,000
	Total Output 2.4		165,209	139,567	128,567	92,567	83,567	609,477
	Project staff	Project field staff costs	2,042	2,042	2,042	2,042	2,042	10,210
	Travel		549	549	549	549	549	2,745
2.5	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	54					
	Workshop and training	Training 30 DCCMS Staff in New R-INSTAT and Staff in Data digitization and seasonal forecasting	20,000	-	10,000	ı	5,000	35,000
	Total Output 2.5		22,645	2,591	12,591	2,591	7,591	48,009
Total	Component 2		496,202	538,448	374,048	250,348	245,848	1,904,895
	Project staff	Project field staff costs	18,373	18,373	18,373	18,373	18,373	91,865
3.1	Transfers	Grants to FOs to facilitate credit access and purchases of commodities from members	-	420,000	-	-	-	420,000
	Travel		4,942	4,942	4,942	4,942	4,942	24,710
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	675	193	193	193	193	1,447

	Workshop and training	Financial literacy trainings for 25 FOs and annual Agribusiness Forum (Input-Output markets and services) (2 Day fora) from year 2	-	11,250	11,250	11,250	5,000	38,750
	Total Output 3.1.		23,990	454,758	34,758	34,758	28,508	576,772
	Project staff	Project field staff costs	37,339	37,339	37,339	37,339	37,339	186,695
	Travel		11,247	11,247	11,247	11,247	11,247	56,235
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	1,481	385	385	385	385	3,021
3.2	Workshop and training	Capacity strengthening:  - Conduct mentoring and coaching sessions to operationalize business plans for 25FOs  - Facilitate Gender Household Visioning training in partnership with UN-Women  - Train 25 FOs technical sub-committees (Marketing Committee, Warehouse management Committee, etc)  - Cooperative Management training in collaboration with MoITT  - FO Study Tour  - Develop FO performance monitoring system in collaboration with MoAIWD & MoITT  - FO and MoITT, MoAIWD for the monitoring system equipment	191,515	237,955	88,400	19,175	3,550	540,595
	Total Output 3.2		241,582	286,926	137,371	68,146	52,521	786,546
	Project staff	Project field staff costs	37,339	37,339	37,339	37,339	37,339	186,695
	Transfers	Acquisition of Land Titles for FOs	-	-	13,200	-	-	13,200
3.3	Procurement	Equip aggregation centres with grading equipment (Scales, moisture meters, sampling spears, sieves, stitching machines); Equip temporary aggregation centres with post-harvest equipment (Tarpaulins); Calibration of equipment (Moisture meter, weighing scales) by MBS; Procurement of hermetic bags for demonstration (20 bags/FO), including distribution (Logistics); Procure 12 hammer mills and 12 shellers		324,265	187,910	105,485	89,860	986,441
	Travel		11,247	11,247	11,247	11,247	11,247	56,235

	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	1,481	385	385	385	385	3,021
	Workshop and training		6,250	2,000	-	2,000	-	10,250
	Total Output 3.3		335,238	375,236	250,081	156,456	138,831	1,255,842
	Project staff	Project field staff costs	24,498	24,498	24,498	24,498	24,498	122,490
	Travel		6,589	6,589	6,589	6,589	6,589	32,945
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	882	240	240	240	240	1842.24548
3.4	Workshop and training	Development and dissemination of commodity standards, including Quality assurance accreditation trainings; Market information analysis and dissemination training for extension workers and Farmers; Facilitate private sector engagement in market information dissemination through IT solutions; Participate in Trade fair, agriculture fair and Fair	14,500	37,500	37,500	64,500	33,500	187,500
	Total Output 3.4		46,469	68,827	68,827	95,827	64,827	344,777
	Project staff	Project field staff costs	2,042	2,042	2,042	2,042	2,042	10,210
	Travel		549	549	549	549	549	2,745
	Miscellaneous	Equipment, vehicle running cost for field staff, telecom and consumables	730	677	677	677	677	3,439
3.5	Workshop and training	Technical Support (HQ/RBJ) to develop and review Government pro smallholder procurement; Support Development of Smallholder Agriculture Commercialization Sector working Group; Stakeholder consultations on Prosmallholder Public-private Procurement (WRS, NFRA, ADMARC, WFP) and follow up reviews; Policy validation workshop and review workshops	45,720	68,720	68,720	95,720	64,720	343,600
	Total Output 3.5		49,041	71,988	71,988	98,988	67,988	359,994
Total	Component 3		696,320	1,257,735	563,025	454,175	352,675	3,323,931
		Total Cost Components 1- 3	1,989,114	2,544,299	1,568,529	1,231,319	1,074,739	8,408,000
Proje	ect Execution cost	National Project Coordinator (30%)	5,760	5,760	5,760	5,760	5,760	28,800
		Policy, Monitoring and Evaluation Officer (30%)	5,040	5,040	5,040	5,040	5,040	25,200

Meteorology and Climate Change Officer (30%)	3,600	3,600	3,600	3,600	3,600	18,000
Extension Methodology Officer (20%)	2,400	2,400	2,400	2,400	2,400	12,000
Land Resources Conservation Officer (20%)	2,400	2,400	2,400	2,400	2,400	12,000
Finance Officer/Accountant (25%)	3,000	3,000	3,000	3,000	3,000	15,000
Accounts Assistants (25%)	1,800	1,800	1,800	1,800	1,800	9,000
Administrative Assistant	8,400	8,400	8,400	8,400	8,400	42,000
Procurement Officer (25%)	3,000	3,000	3,000	3,000	3,000	15,000
Driver Lilongwe	6,000	6,000	6,000	6,000	6,000	30,000
Project technical officer (30%)	24,000	24,000	24,000	24,000	24,000	120,000
Knowledge Management officer (30%)	8,400	8,400	8,400	8,400	8,400	42,000
Travel MoAIWD PCU staff	3,000	3,000	3,000	3,000	3,000	15,000
Office running cost and equipment	176,260	4,000	4,000	4,000	4,000	192,260
Vehicle running cost	10,000	10,000	10,000	10,000	10,000	50,000
Inception workshop	30,000	-	-	-	-	30,000
Baseline	15,000	•	-	-	-	15,000
Semi-annual and annual progress (report production and dissemination/validation)	5,000	5,000	5,000	5,000	5,000	25,000
Steering committees and National Advisory Technical Group meeting support	5,000	5,000	5,000	5,000	5,000	25,000
Final financial audit + evaluation	-	-	-	-	77,500	77,500
Total Project execution cost	318,060	100,800	100,800	100,800	178,300	798,760
Total project cost	2,307,174	2,645,099	1,669,329	1,332,119	1,253,039	9,206,760
MIE Management Fees	196,110	224,833	141,893	113,230	106,508	782,575
Total financing request	2,503,284	2,869,932	1,811,222	1,445,349	1,359,547	9,989,335

#### **Budget notes**

**Project staff:** in line with the organizational structure the project will be having a total of 35 staff (28 from MoAIWD and 7 from WFP) most of them on part-time basis and will be working between 20% and 80% of their time on the project. 12 pax, 10 MoAWD of which 2 support staff (one driver and one admin assistant) will working full time; WFP will have 2 staff on part-time basis to ensure technical assistance, support coordination across the government, private sector the other ongoing resilience programmes in the country and ensure proper knowledge management. 12 core project field staff on full time basis who will be responsible for the day to day implementation of the project, per district (1 WFP field staff, 1 district project field staff and 1 district project field assistant and 1 driver). As the project is highly technical and to ensure that the project is implemented fully in line with the governments policies and regulation regular technical

support will be required from the different technical expertise of the MoAIWD technical departments as such the project has included (1 Field Extension Methodology Officer, 1 Field Land Resources Conservation Officer, 1 Field Meteorology and Climate Change Officer, 1 Senior Project Officer, 1 Policy, Monitoring and Evaluation Officer) and 1 driver field based to be used for admin and technical support missions. In addition, and as there is large scale procurement foresee, the ministry will allocate also on part-time basis (1 admin, 1 finance, 1 accountant and 1 procurement officer) to ensure procurement and financial transaction happen at the highest standards.

Transfers: At total maximum of 25,600 Households or 115,200 people (at 4.5 people/HH as per standards HH size in Malawi) will be targeted each receiving support for their crop insurance premium in form of a cash-based transfer. Transfers will be provided by partner microfinance and microinsurance service providers from October to December (3 months with a total of 12 working days a month) per year each. Each HH will have one participant and each participant/workers workload will be aligned to the standard rate of USD 18. The project will ensure sustainability, by progressively increasing cash contributions towards the insurance premium by beneficiaries.

**Project equipment:** As this is a new project and a new unit will need to be established in the first year, some capital investment is required as per the below, a contingency of 10% has been foreseen for payment of extension cords, lights, cabling etc.

No	Category	Total requirem ent	Ministry Provide	Purchasing	Unit Price (MWK)	Total Price (MWK)	Total Price (USD)
	Total allocation for o	ffice equipn	nent+ vehic	le (US\$197,	266.67)		
1	Office Table	16	0	20	250,000	5,000,000	6,667
2	Executive Table	1	0	1	1,000,000	1,000,000	1,333
3	Office Chair	16	0	40	150,000	6,000,000	8,000
6	Laptop	20	0	20	400,000	8,000,000	10,667
7	Telephone	1	0	1	250,000	250,000	333
11	Small cupboard	6	0	6	100,000	600,000	800
12	Camera	1	0	1	150,000	150,000	200
14	Vehicle	5	1	4	25,000,000	100,000,000	133,333
17	Photocopy/Scan Machine with printer (large)	1	0	1	600,000	600,000	800
18	Photocopy/Scan machine and printer (small)	3	0	3	300,000	900,000	1,200
19	contingencies 10%					12,250,000	16,333
	Total					134,750,000	179,667

In addition for the 25 Farmer organization targeted who will be supported with capital equipment for their aggregation centres with grading equipment (Scales, moisture meters, sampling spears, sieves, stitching machines); and post-harvest loss reduction equipment (Tarpaulins, hermetic bags for demonstration);

Calibration of equipment (Moisture meter, weighing scales), 12 hammer mills and 12 shellers; Rain gauge procurement and installation for weather mapping; drought tolerant crops for seed multiplication; Stationary for the Farmer organizations; Calibration of equipment (Moisture meter, weighing scales) by MBS; in addition to tablets for the PICSA TOT trained extension workers and also NFIs for soil & water conservation (hoes, shovels etc) and start-up seeds, with a total value of 1.3 million USD.

Vehicle Acquisitions: Four vehicle will be purchased. One for the Lilongwe team, while the government will provide an additional vehicle for the project at national level. In addition, three vehicles (one for each district for both the MoAIWD and WFP field staff) will be specifically for the implementation of this project and they will be used by full time by the AF project staff in the beneficiary districts for the duration of the project. The purchased vehicles will be handed over to the executing ministry (MoAIWD in this case) in the government of Malawi after the project has ended, although the responsibility for full registration including other associated costs (duty, levi's etc) will be the responsibility of the ministry.

Workshops and Training: As 2 of the 3 component have major capacity strengthen components 1,4 million USD or 14% of the budget has been allocated to These include trainings on seasonal forecasting, training and workshops to validate thresholds, triggers and actions at national and district level, lessons learned exercises for the integrated approach case study, workshops, training and focus group discussions at community level, including CBPP workshops, training project partners on information tailoring and awareness raising. It is expected that over 200 extension workers will be trained with annual repeat session to transfer the knowledge and build their capacity, in addition to members of the 25 Farmer Organizations targeted and other stakeholders.

**M&E**: Costs for monitoring and evaluation have been divided in different parts. The mid-term evaluation will be covered, as per AF rules, by the IE fee, while the final financial audit and final project evaluation are budgeted under the project execution costs. Regular monitoring costs (including an M&E officer and M&E workshops), and the inception workshop have been included in the Execution Costs. M&E budget will cover the monitoring of Log Frame indicators and AF indicators. For further details please see section D above. At a total cost of 207,500 USD of which 60000 will be covered by WFPs MIE fee. In addition a total of 461,000 USD has been foreseen for travel consisting of one day and multiple day trips within the district and to Lilongwe to attend key coordination meetings, technical and review meetings, each staff will betraveling between 10 days for administrative staff to 120 days a year for the technical officers. For which lunch

The DSA-rate use for government staff is in line with the agreed rate between the central government and the UN and stands at 39 USD per overnight stay and 5.5 USD for day-trips/lunch compensations. For WFP the standard UN rate have been used.

**Project Audit Services:** The project accounts shall be audited on annual basis by the National Audit Office (NAO) on an annual basis. Funds to cover costs for the process have been allocated as part of Project Execution Costs. The NAO shall share audit reports with both MoAIWD and WFP at the conclusion of each exercise.

**MIE Management Fees:** The MIE management fees will be utilised by WFP as the Multilateral Implementing Entity to cover costs associated with the provision of the project cycle management services. It covers the costs of management services provided by WFP in support of the implementation of the project. The table 10 below provides a breakdown of the estimated costs of providing these services.

Table 10: MIE management fees breakdown.

#### Breakdown of costs for the project management fees

Finance and Budget Support and Supervision	<ul> <li>General oversight and supervision, management and quality control</li> <li>Ensure compliance with WFP judiciary standards and internal control processes, relevant international and national regulations and Adaptation Fund's rules and policies</li> <li>Manage, monitor and track financial transactions</li> <li>Manage all Adaptation Fund financial resources</li> </ul>
Programme and Performance Management Support and Supervision	<ul> <li>Technical support, troubleshooting, and support missions as necessary</li> <li>Specialized policy, programming and implementation support services</li> <li>Provide guidance in establishing performance measurement processes</li> <li>Supervision of overall project implementation</li> </ul>
Information and Telecommunications Support	<ul> <li>Includes maintaining information management systems and specific project management databases to track and monitor project implementation</li> </ul>
Evaluation and Knowledge Management Advice	<ul> <li>Technical support in methodologies, innovative solutions, validation of Terms of Reference, identification of experts, results validation and quality assurance</li> <li>Mid-term evaluation costs</li> <li>Supervision of preparation of annual project reports and project evaluation reports and quality control</li> </ul>
Audit and Inspection Support	<ul> <li>Ensure compliance with audit requirements</li> <li>Ensures financial reporting complies with WFP and Adaptation Fund standards</li> <li>Ensure accountability and incorporation of lessons learned</li> </ul>
Legal Support	<ul> <li>Legal advice to assure conformity with WFP legal practices and those of Lesotho and contract review</li> </ul>

Table 11: Project Disbursement schedule by year

Cost breakdown	Y1	<b>Y2</b>		Υ3		Υ4		<b>Y5</b>		Total
Total project cost	\$ 2,306,298	\$	2,645,318	\$	1,669,548	\$	1,332,338	\$	1,253,258	\$9,206,760
Implementing Entity Fee (8.5%)	\$ 196,035	\$	224,852	\$	141,912	\$	113,249	\$	106,527	\$ 782,575
Total	\$ 2,502,333	\$	2,870,170	\$	1,811,460	\$	1,445,587	\$	1,359,785	\$9,989,335

# PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

**A.** Record of endorsement on behalf of the government<sup>67</sup> Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:

Date: August 1, 2019

**B.** Implementing Entity Certification Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address

I certify that this proposal has been prepared in ac Adaptation Fund Board, and prevailing National De the approval by the Adaptation Fund Board, common compliance with the Environmental and Social Poliunderstanding that the Implementing Entity will be implementation of this project/programme.	evelopment and Adaptation Plans and subject to hit to implementing the project/programme in icy of the Adaptation Fund and on the				
Benoit Thiry, WFP Country Director					
Implementing Entity Coordinator					
Date: August 1, 2019	Tel. +265 1 774 666				
	Email: benoit.thiry@wfp.org				
Project Contact Person: Bernard Owadi					
Tel. +2651774666					
Email: bernard.owadi@wfp.org					

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<sup>&</sup>lt;sup>6.</sup> Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

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Annex 2: Preliminary Gender Assessment and Considerations on gender inequalities related to climate change impact

Annex 3: Prioritized TAs and targeted beneficiaries within the three priority districts for the AF project

**Annex 4:** The Integrate resilience approach and graduation processes across the three project components

Annex 5: Procedures for handling complaints (Complaints and Feedback Mechanisms)

Annex 6: Environmental and Social Assessment and Management Plan

**Annex 7:** Minutes from the national validation workshop on the Adaptation Fund, November 1, 2018 in Lilongwe

Annex 8: Community and district level stakeholder consultations

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## **Annex 1: List of Acronyms**

3PA	Three-Pronged Approach	
ADD	Agricultural Development Division	
AEMO	Agricultural Extension Methodology Officer	
AF	Adaptation Fund	
AIDS	Acquired Immune Deficiency Syndrome	
ARC	African Risk Capacity	
ASWAP	Agriculture Sector Wide Action	
BRACC	Building Resilience and Adaptation to Climate Change	
CA	Conservation agriculture	
СВРР	Community-Based Participatory Planning	
CBT	Cash Based Transfer	
CFM	Complaints and Feedback Mechanism	
CPC	Civil Protection Committees	
CS	Climate Services	
DADO	District Agricultural Development Office	
DAES	Department of Agricultural Extension Support	
DCCMS	Department of Climate Change and Meteorological Services	
DDP	District Development Plan	
DFID	Department for International Development	
DoDMA	Department of Disaster Management Affairs	
DPCT	District Project Coordination Teams	
DRM	Disaster Risk Management	
DSD	-	
DSOER	District State of the Environment Reporting	
EAD	Environmental Affairs Department	
EE	Executive Entity	
ENSO	El Nino Southern Oscillation	
EPA	Extension Planning Area	
EPD	Economic Planning and Development Department	
EQAS	Evaluation Quality Assurance System	
ESIA	Environmental and Social Impact Assessment	
ESMP	Environmental and Social Management Plan	
ESS	Environmental Social Risk Screening	
FAO	Food and Agriculture Organisation	
FARMSE	Financial Access for Rural Markets, Smallholders and Enterprise Programme	
FCS	Food Consumption Score	
FES	Food Expenditure Share	
FFA	Food Assistance for Assets	
FGD	Focus Group discussion	
FHH	Female Headed Household	

FIES	Food Insecurity Experience Scale	
FMNR	Farmer Managed Natural Trees	
FO	Farmer Organisation	
FODS	Farmer Organisation Development Strategy	
FRT	Farm Radio Trust	
GDP	Gross Domestic Product	
GFCS	Global Framework for Climate services	
GP	Gender Policy	
GVH	Group Village Headman	
HDI	Human Development Index	
НН	Household	
HIV	Human Immunodeficiency Virus	
IAM	Insurance Association of Malawi	
ICA	Integrated Context Analysis	
IFA	Insurance For Assets	
IFAD	International Fund for Agricultural Development	
IFPRI	International Food Policy Research Institute	
IGA	Income Generating Activities	
IHS	Integrated Household Survey	
ILO	International Labour Organisation	
IMF	International Monetary Fund	
IPA		
IPSAS	International Public-Sector Accounting Standards	
IRI	International Research Institute	
IRMP	Integrated Resilience Management Programme	
ITCZ	Inter Tropical Convergence Zone	
LCEDS	Low Carbon Emission Development Strategies	
LCSI	Livelihood Coping Strategy Index	
LDC	Least Developed Country	
LDF	Local Development Fund	
LUANAR	Lilongwe University of Agriculture and Natural resources	
M&E	Monitoring and Evaluation	
MASAF	Malawi Social Action Fund	
M-CLIMES	Modernized Climate Information and Early Warning Systems	
MDD-W	Minimum Dietary Diversity Women	
MEAL	Monitoring, Evaluation, Accountability and Learning	
MFI	Microfinance Institution	
MGDS	Malawi Growth and Development Strategy	
MIE	Multilateral Implementing Agency	
MNSSP	Malawi National Social Support Programme	
MoAIWD	The Ministry of Agriculture, Irrigation and Water Development	
MoEST	Ministry of Education, Science and Technology	
MoITT	Ministry of Industry, Trade and Tourism	

MoLGRD	Ministry Local Government and Rural Development	
MTE	Mid-term Evaluation	
MVAC	The Malawi Vulnerability Assessment Committee	
NAIP	National Agricultural Investment Plan	
NAP	National Agriculture Policy	
NAPA	National Adaptation Programmes of Action	
NATG	National Advisory Technical Group	
NCCIP	National Climate Change Investment Plan	
NDC	National Determined Contributions	
NFI	Non Food Item	
NGO	Non Governmental Organisation	
NORAD	Norwegian Agency for Development Cooperation	
NPSC		
NRCP	National Climate Resilience Programme	
NRS	National Resilience Strategy	
PCU	Project Coordination Unit	
PDNA	Post-Disaster Needs Assessment	
PICSA	Participatory Integrated Climate Services for Agriculture	
PPCR	Pilot Programme for Climate Resilience	
PRIDE	Programme for Rural Irrigation Development	
PSC	Project Steering Committee	
PSEA	PSEA- Prevention of Sexual Exploitation and Abuse	
R4	Rural Resilience Initiative	
RBJ	Regional Bureau Johannesburg	
RBM	Reserve Bank of Malawi	
RIMA	Resilience Index Measurement Analysis	
SBCC	Social and Behavioral Change Communication	
SDC	Swiss Agency for Development Cooperation	
SDG	Sustainable Development Goal	
SE4ALL	UN Sustainable Energy for All	
SEP	Socio-Economic Profile	
SHF	Small Holder Farmer	
SISMOD		
SLP	Seasonal Livelihood Analysis	
SPCR	Strategic Program for Climate Resilience	
TA	Traditional Authority	
ToT	Training of Trainers	
UN	United Nations	
UNDAF	United Nations Development Assistance Framework	
UNDP	United Nation Development Programme	
UNFCCC	United Nations Framework Convention on Climate Change	
UoR	University of Reading	
VDC	Village Development Committees	

VSL	VSL	
WFP	World Food Programme	
WRS	Warehouse Receipt System	
WUA	Water Users' Associations	

## **Annex 2: Preliminary Gender Assessment**



## JULY 2019

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#### ABBREVIATIONS AND ACRONYMS

CCJP Catholic Commission for Justice and Peace

COMSIP Community Savings and Investment Cooperation

CUMO Concern Universal Microfinance Operations

ESP Environment and Social Policy

ESS Environmental and Social Screening

FAO Food and Agriculture Organization

FGD Focus Group Discussion

FINCA Foundation for International Community Assistance

FISP Farm Inputs Subsidy Programme

GVH Group Village Head

ILO International Labour Organization

KII Key Informant Interview

MARDEF Malawi Rural Development Fund

NGO No- Governmental Organization

NSO National Statistical Office

ToT Training of Trainers

UNFCCC United Nations Framework Convention on Climate Change

VSL Village Savings and Loans
WFP World Food Programme

YONECO Youth Net and Counselling Organisation

#### 1.0 INTRODUCTION

The Adaptation Fund is a climate finance mechanism under the United Nation's Framework Convention on Climate Change (UNFCCC). The objective of the Adaptation Fund is to finance projects and programmes that help vulnerable communities in developing countries adapt to climate change. The Government of Malawi, with support from the World Food Programme initiated a process of soliciting support from the Adaptation Fund. A concept note was developed and subsequently endorsed by the Adaptation Fund. The Malawi Government and WFP are therefore required to develop a detailed proposal which is representative of the country's needs, views and priorities. Prior to completing the detailed proposal, one of the requirements was for the Malawi Government and WFP to conduct analysis of gender and environmental

dimensions of the project to incorporate information gathered from the field into the proposal to inform programme design that would increase resilience of the communities to shocks.

#### 2.0 WFP'S GENDER POLICY

WFP believes that ending hunger and malnutrition can only be achieved if men and women, boys and girls have equal access to opportunities and an equal voice to influence decisions on use of resources at household, community and societal level. WFP's gender policy provides overall guidance on integration of gender equality and women's empowerment to ensure that its programmes are designed and implemented in a gender transformative manner and respond to the different needs and capacities of women, men, boys and girls of all ages. The policy (2015-2020) also seeks to promote equal participation of women and men, girls and boys and ensure that food assistance is adapted to address the different needs and capacities of women, men, girls and boys of all ages. The policy also promotes women's decision making besides ensuring that WFP's activities are designed and implemented without causing more harm to the affected women, men, girls and boys. The policy intends to achieve this through a twin track approach with two main strategies of gender mainstreaming and targeted actions.

#### 3.0 OBJECTIVES FOR CONDUCTING GENDER

Climate change affects men, women, boys, and girls differently. Aspects of environmental changes and their consequences vary greatly for men and women, for boys and girls. Similarly, their capacities to cope and adapt varies greatly (FAO, 2016). Therefore, interventions that seek to strengthen adaptation and resilience to be more effective and sustainable, must be designed taking into consideration the gender inequalities and discriminations that persist against the people at risk.

Considering the gendered impacts of climate change on women, men, boys and girls and their varying capacities to adapt, WFP and Malawi Government commissioned an assessment at field level aimed at answering to the following:

- What are the practical implications of the different roles and status of women and men in the project area for the feasibility of the project and its effective design?
- Which are the different roles and status of women and men in the project area and which practical
  implications these have on the feasibility of the project and its effective design?
- How will the project accommodate the different roles of women and men?
- To establish best approaches/working arrangements of accommodating the different roles of women and men;
- How can the project contribute to long-term strategies to achieve gender equity?
- To identify gender-responsive activities that contribute to long-term strategies to achieve gender equity;
- To identify specific gender issues in the communities earmarked for the climate adaptation project;
- To ensure that gender is an integral part of the climate adaptation project so that interests and needs
  of women, men, girls and boys shape planning for the climate adaptation project;
- To generate gender and age disaggregated data on climate adaptation to shape completion of the project proposal in a participatory manner;
- To identify gender transformative gender-responsive activities for the climate adaptation project;

- To figure out practical implications of the different roles and status of women and men in the project area for the feasibility of the project and its effective design;
- To explore how the project will accommodate the different roles of women and men and how it can contribute to long-term strategies to achieve gender equity;
- To establish mitigation measures that respond to the potential risks identified.

#### 4.0 METHODOLOGY

The assessment employed a qualitative approach starting with review of relevant literature and guidelines relating to integration of gender, social and environmental issues in climate adaptation projects. The team conducted desk analysis of the legal and regulatory context with respect to gender equality and women's empowerment in which the programme will be implemented to identify any potential obstacles to compliance. The team also reviewed WFP Gender Policy and the Adaptation Fund's gender, and social and environmental risk management policies and guidelines as well as the legal and regulatory framework with respect to gender equality and women's empowerment in which the project will take place to identify any obstacles to compliance.

After the desk review, the assessment team developed tools for collection of qualitative data in three districts namely; Balaka, Machinga and Zomba which have been earmarked for the climate adaptation project. The tools included checklists for key informant interviews (KII) and checklists for focus group discussions (FGDs) with community members in the targeted districts. With support from government counterparts and WFP's field-based staff, the assessment team purposively identified one traditional authority from each of the three districts where the interviews were conducted. Two group villages (GVH) were sampled purposively in each of the selected traditional authority. The team ensured that the two GVHs selected in each Traditional Authority had similar/common characteristics for easy comparison- such as distance to the markets, distance to the district centre, and presence of interventions like those being proposed by the climate adaption project.

In addition to the FGDs, the team also conducted 10 key Informant Interviews in each of the 3 districts targeting sector technical heads from one NGO that implements climate adaptation activities and relevant government line ministries including:

- District Agriculture Development Officer,
- District Environmental Affairs Officer,
- Land Resources Officer
- Irrigation Officer
- Director of Planning and Development,
- Agribusiness Development Officer
- Gender Officer,
- District Nutritionist

At community level, the assessment team conducted a total of 24 focus group discussions (FGDs) across the 3 districts with each FGD involving between 8-28 participants to ensure active participation from each of the invited community members. There were separate FGDs for the following groups:

• Middle aged women

- Middle aged men
- The youth (combined boys and girls aged between 15 and 25)
- Village heads/local leaders combining both males and females
- The elderly men and women

FGDs comprised mixed groups of both men and women while other FGDs were held separately for women and men. The separate FGDs for men were led by male facilitators while those specific for women were also led by fellow women facilitators to allow participants express themselves freely especially on issues that could be not be discussed in mixed groups. In total the FGDs and KIIs involved 326 people comprising 176 females and 150 males. Qualitative data from the FGDs and KIIs was analysed using excel to map out trends and emerging themes.

#### 5.0 CONTEXTUAL ANALYSIS

#### 5.1 POVERTY AND GENDER EQUALITY ISSUES

Malawi is one of the least developed countries in the world with 50.7 percent of the population living below the poverty line and 25 percent living in extreme poverty. UNDP (2017) estimates Malawi's Human Development Index value at 0.477 which puts the country in the lowest human development category positioning it at 171 out of 189 countries. With an estimated population of 18 million people, efforts to reduce poverty have proven to be a challenge due to several factors one of them being rapid population growth which erodes the marginal gains from economic growth (IMF, 2017). Rapid population growth exerts so much pressure on land leading to depletion of natural resources due to overuse of land for subsistence farming, deforestation, and overgrazing. The high reliance on natural resources increases the country's vulnerability making it more susceptible to impacts of climate change. The country is experiencing more frequent extreme weather events, with floods in 2015 and a major El Niño-related drought in the 2015-16 season. These extreme weather conditions create adverse humanitarian conditions and impact negatively on the fragile economy leading to an average loss of 1.7% of its GDP (IMF 2017).

UNDP 2017 report on the Gender Inequality Index ranked Malawi 148 out of 160 countries depicting high levels of entrenched gender inequalities across all sectors including education, health, governance, agriculture and food security. The high levels of gender inequalities put women and girls in a disadvantaged position limiting their access to and control over productive resources hence eroding their capacity to adapt and cope with the impacts of climate change. In Malawi, women play a key role in agriculture producing 70% of food that is consumed locally and perform 50-70% of all agricultural tasks (UN Women et al, 2015). However, despite their massive contribution, women rarely have control over the land and proceeds emanating from production. A study on the cost of the gender gap conducted by UN Women and Malawi Government estimates that on average female-managed plots are 12% smaller than those of their male counterparts and that they are 25% less productive. Further to that, the study also contends that women have less access to male labour and their productivity is also further constrained by other factors such as lower levels of education, lesser control over natural resources and extra burdens of unpaid care work which further reduce availability of labour on their plots. These factors contribute to limiting women's knowledge of improved production practices, access to farm inputs and labour-saving technologies and the ability to practice more labour-intensive farming methods. These differences are noted to exacerbate women's vulnerability hence eroding their resilience to withstand impacts of climate change.

In Malawi women provide most of the agricultural labour yet they have limited access and control over productive resources and means of production such as land and credit, as well as to extension and drought relief services. About 88 percent of rural women are employed in the agricultural sector as smallholder farmers, compared with 73 per cent of rural men (NSO, 2009). More women than men are full time farmers mainly responsible for the daily food supplies. Their high numbers are reflected in village meetings, where more women than men attend. They work as much as men on the farm, with minimal differences in farming activities such as land preparation, planting, weeding, harvesting, grading, curing, packaging and marketing (NSO, 2009). In addition to working on the farm, women are responsible for most domestic work. For example, NSO (2009) estimated that 75 percent of females were engaged in fetching firewood as compared to 33 percent for males; 88 percent of females were engaged in fetching water as compared to 45 percent for males and about 53 percent of females did care for the sick while for males it was 40 percent.

Recognizing the importance of youth to the country's development, Malawi has created a National Youth Policy, designed to empower and develop the youth of Malawi to reach their potential. Grounded in valuing the rights and responsibilities of the younger generation, the policy defines youth as aged between 10 to 35 years old. However, despite government efforts to empower the youth, unemployment and underemployment remain a major challenge for development in Malawi, with the most recent Labour Force Survey showing that 21.7 percent of the nation's youth aged 15-24 are neither in employment, education or training, and approximately 27 percent of those with a job are underemployed (ILO, 2019). The survey further notes that women are especially disadvantaged due to lower earnings than men and with two-thirds among those of working age in vulnerable employment. These disparities contribute to reducing the capacity of the youths to cope and withstand effects of climate change.

#### 5.2 ANALYSIS OF THE LEGAL AND POLICY ENVIRONMENT FRAMEWORKS

Malawi is considered as a policy rich country, yet implementation is poor. The country has put in place appropriate legal and policy frameworks to promote gender equality and women empowerment across all sectors including agriculture, food security, education, health, livelihoods and climate change. However, the major challenge is to translate such laws and policies into effective programmes and practices. Gender equality and human rights are enshrined in the Republican Constitution which is the supreme law of the land. It guarantees gender equality between men and women. Article 24 of the constitution stipulates that women have the right to full and equal protection by the law, and have the right not to be discriminated against on the basis of their gender or marital status which includes the right to be accorded the same rights as men in civil law, including equal capacity to enter into contracts, to acquire and maintain property rights either independently or in association with others, regardless of their marital status.

Furthermore, the Government of Malawi is also committed to its National Gender Policy (2015) which promotes non-discriminatory cultural practices against women's property rights, including access to land. The policy seeks to promote development and implementation of gender responsive Agriculture Policies and actions and ensure the mainstreaming of gender in all government sectors, programmes and projects. The Gender Equality Act (2013) came into force in 2014. The country is also a signatory to major international commitments to achieving gender equality, including the Convention on the Elimination of Discrimination Against Women (CEDAW), the Beijing Declaration and Platform for Action, and the SADC Protocol on Gender and Development.

The Marriage, Divorce and Family Relations law (2015) also addresses the issues of child marriages in Malawi, as it raises the age of marriage to 18. Further, the law protects women, young, old and the girl

child, against any form of abuse or violence be it economic, emotional, physical or otherwise-that are related to marriage, sexual relations and family. It also seeks to hold accountable those parents who marry their children off below the age of 18. Ending and preventing child marriages ensures that girls remain in school leading to attainment of education which is also plays a vital role in increasing women's resilience and capacity to cope and adapt to the impacts of climate change.

Some progress has been made in implementing these laws and policies. Although Malawi did not fully attain the target for the third Millennium Development Goal which focuses on Promotion of Gender Equality and Women Empowerment, progress was made on the ratio of girls to boys enrolled in primary school. In reviewing progress after 20 years of the Beijing Declaration, women's percentage in non-agriculture wage employment has also increased.

#### 6.0 SUMMARY OF KEY FINDINGS AND RECOMMENDATIONS ON GENDER

The following are the key findings emerging from the study:

#### 6.1 GENDER AND SOCIAL ANALYSIS

- The matrilineal landholding system which is practiced across the three districts earmarked for the climate adaptation project entails that women are the owners of land. In matrilineal landholding system, men move to settle in the wife's village hence they access land through the wife. Land is devolved from mothers to their daughters. However, despite the women owning land, the study found that it is men who exercise actual control over the use of land except under rare circumstances when there are marital challenges between the husband and wife. Despite the matrilineal land holding system which is prevalent in three districts of Zomba, Balaka and Machinga, it was evident across all FGDs for both men and women that actual decisions on how to use land were made by men except in female headed households. There were also perceptions from women and the youths indicating that some men are reluctant to invest in agriculture because the land does not belong to them.
- The study found that two main ways for accessing land in the three districts are through inheritance
  from parents who pass on the land to their children, and through traditional leaders (chiefs) who have
  the power to administer customary land to their subjects. The chiefs have the responsibility to share
  portions of land to those that ask for it.
  - o The village chiefs negotiate with those who own land so that they can release part of it to other villagers who need land. When inheriting land from parents, due to the matrilineal system, boys are usually left out. Instead it is girls who are allocated a piece of land that belongs to their clan/parents.
  - Considering the matrilineal land holding system which places ownership of land in women, it
    was observed that men who have the financial capability have been able to increase them to
    exercise ownership and control over land through buying.
  - o Despite existence of programmes and policies meant to empower the youths (10-35 yrs.) who comprise over 40% of the country's population, the study observed that the youths in the 3 districts, particularly those that are single are excluded and face a lot of constraints that limit their participation and access to and utilization of land for agricultural activities. The youths across the three districts think they are excluded and left out in many programmes including agricultural related trainings, capacity building, transfer of technology and provision of microcredit facilities. This was echoed by the youths across the 3 districts as a missed opportunity

which could have been utilized to lay strong foundation in building and sustaining capacity of households in agriculture to increase resilience to adapt to effects of climate change. Despite existence of laws that promote non-discrimination and inclusion, it was noted that actual application on the ground is contrary where exclusion and discrimination based on gender, age and other factors is prevalent and entrenched in the social-cultural norms of the society.

- Due to lack of provision of services relating to credit and microfinance in all the 3 districts, the self-propelled Village Savings and Loans groups (VSL) emerged as the commonest and most accessible source of credit and microfinance to a typical smallholder farmer particularly women. The fact that VSL groups are formed by community members themselves and are based right in the community makes them more accessible to women. Considering more barriers that faced by women from accessing formal credit and finance from credit institutions ranging from lack of collateral, employment, assets and education, the VSLs groups were outstanding and featured highly across all the 3 districts as the most accessible and convenient way to access microcredit which is crucial for climate adaptation. It was noted that most of the VSL groups which also happen to be the main source of credit in the communities comprise of women. The climate adaptation project could therefore use VSL groups as an entry point for economic empowerment of women in a holistic manner to increase their resilience to climate change. The climate adaptation project could therefore use VSL groups as an entry point for building capacity of women with financial literacy skills, business management skills to ensure better use of credit and to promote alternative livelihoods which will in the long run increase their resilience to climate change. The study found that the offer such credit services have programmes which deliberately target women. Though most of the institutions that offer micro-credit services target both men and women, their preference is for women. The institutions usually use groups or clubs as their entry points to reach out to potential clients. The membership of most of the groups comprises more women.
- The youths across the three districts are of the view that they are excluded and left out in many programmes including agricultural related trainings, capacity building, and transfer of technology and provision of micro-credit facilities. This exclusion impedes their participation in agricultural activities.
- The most preferred means for receiving climate information for women is through visits by extension workers and lead farmers because it's done face to face and there is room for probing, questioning or clarification where some information is not clear. This is contrary to preferences which were expressed by men and the youths who prioritized use of radios, cell phones, internet, television, and newspapers as good mechanisms for receiving climate information. These variations in preferences are due to a range of challenges that women face such as lower level of education/illiteracy, limited access to income opportunities, limited access to and control over technology and assets. It is therefore imperative for the climate adaptation project to consider promoting approaches that take into consideration the specific needs, capacities and constraints of faced by women, men and the youths when designing strategies for dissemination of climate information which is key to building resilience for climate adaptation.
- It was evident across all FGDs that there is gendered division of labour between men and men at
  household and society level. The social-cultural norms prescribe specific roles to women and men. The
  society has very clear expectations and sets limitations in terms of what women must do as compared
  to their male counterparts. It was noted in all FGDs across the 3 districts that women are expected to

concentrate more on unpaid care reproductive roles in the home while men are expected to do productive work and provide for the family. Such gendered division of labour entails that women spend more time on reproductive roles and have very limited time to spend on productive activities which could help build their resilience and help them adapt to climate change.

- Despite existence of laws and policies that seek to promote gender equality at household and society
  level, the reality on the ground is contrary to expectation. Considering the burden of unpaid care work
  that impacts negatively on women, the climate adaptation project should therefore employ gender
  transformative approaches by promoting labour and time saving technologies that help women to free
  up their time spent on unpaid care work at home such as fetching firewood for energy. Discriminatory
  gender roles and relations also need to be challenged and pathways for positive behaviour change
  identified.
- One of the issues that came out in all women's and men's FGDs across the 3 districts is that despite women contributing a fare share of labour for agriculture, women are denied access to proceeds emanating from agricultural production. It is common practice that after toiling together in the field during cultivation period, when it is time for harvest it is usually men who dominate and monopolize decision making on use of proceeds emanating from sell of produce. Women's FGDs in Zomba and Machinga also contended that it is common for some men to abandone their spouses and make away with proceeds earned after selling produce.
- Gender based violence is rampant and erodes gains registered by households to achieve food security
- Unpaid care burdens shouldered by women limit their participation in productive work including
  agriculture hence limit their capacity to produce and withstand negative impacts of climate change.

#### 6.2 KEY RECOMMENDATIONS AND CONCLUSIONS RELATING TO GENDER

In view of the findings from this assessment, the following are the recommendations for gender to be taken forward in the climate adaptation project:

The climate adaptation project should institutionalize integration of gender transformative actions. The project team should be aware of the cultural context and the different barriers (physical, attitudinal, informational and communicational) that may undermine equal gender participation. It is important to communicate, explicitly and very early, to partner communities and NGOs/ community-based organization that participation from the entire community in CBA project implementation – especially from traditionally disadvantaged and vulnerable groups whose participation otherwise might not be assured – is required. If appropriate, make arrangements to speak to women and men separately (e.g. have separate focus groups for women and men before gathering them together). This ensures that their participation is meaningful, that is that they all feel free to speak and be heard without fear of recrimination.

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The project team should be responsive and open to adapting their plans and activities as required when information emerges from community members as implementation unfolds:

o The programme should explore innovative strategies to ensure participation of the youths in agricultural related activities. The study has noted that there is systematic exclusion of the youths in various programmes ranging from access to agricultural land, technology transfer, extension, inputs, training and capacity building. The youths in the country constitute much of the productive

- population hence their systematic exclusion due to social-cultural norms entail great loss of opportunity. Failure to involve and build capacity of the youths also renders the current interventions unsustainable.
- o Interventions in the upcoming climate adaptation project should take into consideration the gender dynamics that come into play at household and community level so that the design and implementation should not help to further reinforce and exacerbate the existing gender disparities. Gender inequalities relating to access to and control over land, decision making on use of land and proceeds emanating from land, access to and control over markets should all be taken into consideration. Implementation planning activities such as community based participatory planning sessions will assist to identify gender transformative actions that will need to be mainstreamed at all level of activity implementation. From FGDs such activities may include engendering work norms for asset creation activities to ensure fair participation for both male and female participants.
- o The programme should adopt the household approach which entails targeting the entire household so that the members participate in creating and pursuing a shared vision. Intensive behavioural change and communication coupled with various capacity building interventions for the households may help to address the gender disparities and intra-household conflicts currently existing in families in the three districts.
- o Apart from engaging other formal institutions that provide credit services to communities in the three districts, the programme should build on the strengths of village savings and loans approach which attracts more participation of women. The project could also look at how to address other gender issues in the VSL groups such as ensuring access to trainings in basic business management for the members, financial literacy trainings, supporting the VSL groups to put in place formal terms of references/procedures, training the members on how to develop business plans, linking the VSL groups to other services such as functional adult literacy considering high illiteracy levels among women.
- o Women, men and the youths decried and denounced the exploitative and prohibitive conditionalities which are attached to loans provided by formal credit institutions. This is the reason why the VSLs groups have become the main option for accessing loans particularly for women smallholder farmers. The climate adaptation project may consider including a policy advocacy component to join forces with other like-minded institutions to engage the microfinance and other lending institutions as well as policy makers to influence review of policies and practices relating to micro-credit.
- o Develop a comprehensive approach to training and capacity building taking into consideration the specific needs and constraints that women, men and the youths face. One key issue that emerged from the assessment is that the trainings offered by most of the organizations are short and once off. This is not in tandem with the nature of the target groups particularly women most of whom are semi-literate adults who are slow to learn due to low levels of education
- o Review the approach to extension to ensure effectiveness of the lead farmers. Engage into dialogue with village chiefs so that they are supportive rather than antagonize with the lead farmers.
- o When designing channels for dissemination of climate information, the project will have to take into consideration the different needs, capacities and constraints faced by women, men and the youths. What emerged from the assessment is that unlike men and the youths who prefer to receive climate information through radios, cell phones, internet, television and newspapers- the most preferred way of receiving climate information for women in the 3 districts is through face to

face interaction with extension workers. These variations in preferences are due to difference between men and women in terms of access and control over household assets, technology, and literacy levels. to get climate information. Consequently, delivery channels should be diversified and take these preferences into consideration, perhaps investigating on additional channels that could work for women.

- Explore strategies for reducing the burdens of unpaid care work that is shouldered by women small holder farmers. Ensure that interventions for the upcoming climate adaption project do not further increase the burdens. Explore and promote time and labour-saving agricultural technologies to reduce the amount of labour and time spent in the fields so that women can balance up the conflicting demands between productive work in the fields and unpaid care work in their homes.
- Integrate and mainstream considerations on gender-based violence in the climate adaptation activities. For each of the planned interventions, explore how they may further exacerbate GBV and figure out activities to mitigate. Integrate awareness raising on GBV and gender in climate adaptation activities.
- o Implement interventions to promote shared role in intra-household decision making. Use of household approach is likely to mitigate intrahousehold conflicts that come into play due to the gender and power relations between men and women. The household approach could help promote creation of a shared vision and strengthen collaborative decision making between men and women.
- o Timing and location of project activities will have to be selected taking into consideration women's daily routine, men and women working schedule and cultural appropriateness. Gender awareness raising activities should involve the whole community to avoid men feeling threatened and to reduce the risk of gender-based violence. The project might identify leaders in the community and raise their awareness of gender (and how including it can benefit the whole community) so that they can act as local ambassadors. Project information could be disseminated through various media, including notices, leaflets, announcements in community forums, and picture-based texts (to serve those who cannot read). In particular, meetings require good facilitation so that everyone has adequate explanation

#### 6.3 CONSIDERATIONS ON GENDER INEQUALITIES RELATED TO CLIMATE CHANGE IMPACT

The following recommendations will be key for the development of project activities:

- o Institutionalize integration of gender transformative actions: The project should institutionalize integration of gender transformative actions. The project team should be aware of the cultural context and the different barriers (physical, attitudinal, informational and communicational) that may undermine equal gender participation. It is important to communicate, explicitly and very early, to participating communities and NGOs/ community-based organizations that participation from the entire community in project implementation especially from traditionally disadvantaged and vulnerable groups whose participation otherwise might not be assured is required. If appropriate, plan to speak to women and men separately (e.g. have separate focus groups for women and men before gathering them together). This ensures that their participation is meaningful, that is that they all feel free to speak and be heard without fear of recrimination.
- o Implementation planning activities such as community based participatory planning sessions will assist to identify gender transformative actions that will need to be mainstreamed at all level of activity implementation. Project interventions should take into consideration the gender dynamics that come into play at household and community level so that the design and implementation

should not help to further reinforce and exacerbate the existing gender disparities. Gender inequalities relating to access to and control over land, decision making on use of land and proceeds emanating from land, access to and control over markets should all be taken into consideration. Engendering work norms for asset creation activities will ensure fair participation for both male and female participants. The programme should adopt the household approach which entails targeting the entire household so that the members participate in creating and pursuing a shared vision. The project team should be responsive and open to adapting their plans and activities as required when information emerges from community members as implementation unfolds.

- Women and youth participation: To facilitate women's participation, planned project activities need to be mindful of women's daily routines and where their activities take place. Meetings should not be planned in the evenings, as women can feel insecure being out after dark. Timing and location of the meetings should also be adapted to men's and women's working schedules and convenience respectively. Some meeting locations may also undermine women's participation because they may not be culturally appropriate. The project activities should also align with the cropping calendar so that activities are planned when both women and men are available. The youths in the country constitute much of the productive population hence their systematic exclusion due to social-cultural norms entail great loss of opportunity. The project should therefore explore innovative strategies to ensure participation of the youths in agricultural related activities. The study has noted that there is systematic exclusion of the youths in various programmes ranging from access to agricultural land, technology transfer, extension, inputs, training and capacity building. Failure to involve and build capacity of the youths also renders the current interventions unsustainable. The will also. The project will also ensure that project interventions do not further increase the burdens, while also exploring strategies for reducing the burdens of unpaid care work that is shouldered by women small holder farmers. The project will explore and promote time and labour-saving agricultural technologies to reduce the amount of labour and time spent in the fields so that women can balance up the conflicting demands between productive work in the fields and unpaid care work in their homes.
- Gender 'training' or raising of awareness including through social behavioural change communication: Women may not be allowed to be in public places or they may feel embarrassed or even threatened in some unfamiliar environments. Gender 'training' or raising of awareness should take place within the community to avoid men feeling threatened and to reduce the risk of gender-based violence. It is ideal to identify leaders in the community and to raise their awareness of gender (and how including it can benefit the whole community) so that they can act as local ambassadors. Project information could be disseminated through various media, including notices, leaflets, announcements in community forums, and picture-based texts (to serve those who cannot read). Meetings require good facilitation so that everyone has adequate explanation. Intensive behavioral change and communication coupled with various capacity building interventions for the households may help to address the gender disparities and intra-household conflicts currently existing in families in the three districts.
- o The project will integrate awareness raising on gender-based violence (GBV) and gender in climate adaptation activities and implement interventions to promote shared role in intra-household decision making. Use of household approach is likely to mitigate intrahousehold conflicts that come into play due to the gender and power relations between men and women. The household approach could help promote creation of a shared vision and strengthen collaborative decision making between men and women.
- o **Promotion of village savings and loans groups**: Apart from engaging other formal institutions that provide credit services to communities in the three districts, the programme should build on the

strengths of village savings and loans (VSL) approach which attracts more participation of women. The project will also address other gender issues in the VSL groups such as ensuring access to trainings in basic business management for the members, financial literacy trainings, supporting the VSL groups to put in place formal terms of references/procedures, training the members on how to develop business plans, linking the VSL groups to other services such as functional adult literacy considering high illiteracy levels among women. Women, men and the youths decried and denounced the exploitative and prohibitive conditionality's which are attached to loans provided by formal credit institutions. The project may consider including a policy advocacy component to join forces with other like-minded institutions to engage the microfinance and other lending institutions as well as policy makers to influence review of policies and practices relating to microcredit

O Promote appropriate information dissemination channels for information: When designing channels for dissemination of climate information, the project will have to take into consideration the different needs, capacities and constraints faced by women, men and the youths. Unlike men and the youths who What emerged from the assessment is that women prefer to receive climate information through radios, cell phones, internet, television and newspapers, the most preferred way of receiving climate information for women in the 3 districts is through face to face interaction with extension workers. These variations in preferences are due to difference between men and women in terms of access and control over household assets, technology, and literacy levels to get climate information.

#### 7.0 DETAILED FINDINGS FROM THE ASSESSMENT-GENDER ISSUES

#### 7.1 ACCESS TO AND CONTROL OVER LAND

Matrilineal landholding system is the most prevalent in the three districts. While women are regarded as owners of land, men exercise actual control and dominate decision making on use of land. On the other hand, the youths are denied access to use of land.

The study found that two main ways for accessing land in the three districts are through inheritance from parents who pass on the land to their children, and through traditional leaders (chiefs) who have the powers administer customary land to their subjects. The chiefs have the responsibility to share portions of land to those that ask for it. The village chiefs negotiate with those who own land so that they can release to the other villagers who need land. The most dominant land holding system in the three districts is matrilineal which entails that a husband settles in a woman's village hence it is the woman (wife) who is entitled to own a piece of land. It was also noted that some forms of a patrilineal system also exist in the three districts where the family settles in the man's village though this is not as prevalent as matrilineal. The youths that participated in the FGDs across the three districts also highlighted that when inheriting land from parents, due to the matrilineal system, boys are usually left out. Instead it is girls that are allocated a piece of land that belongs to their clan/parents.

Despite girls getting an upper hand, all FGDs for boys and girls across the three districts also highlighted that the youths (both boys and girls) face a lot of constraints that limit their access to and utilization of land for agricultural activities. This was noted as one of the factors that contribute to limited participation of the out of school youths in agricultural activities.

"When it comes to allocation of land, we are side-lined just because we are the youths. Adults consider us less mature. The situation is even worse particularly for those of us who are still single"-Youths FGD at Chingale in Zomba.

Similar sentiments were also echoed by the youths in Machinga district. They noted that the youths face a lot of restrictions when it comes to access to and control over land which limit their participation in agricultural and livelihoods activities.

"It is very hard for us the youth to access land. Whenever there is an opportunity to access land, priority is always given to the elderly children particularly those with a spouse."

Under rare circumstances, when the youths have an opportunity to own a piece of land, it was emphasized that the priority is always given to the eldest children. In addition, due to the prevailing matrilineal system, land is allocated to girls. It is only under very rare circumstances when land is allocated to boys.

At Household level, land is controlled by parents. Though women primarily own land, it was noted across the three districts in all the FGDs and KIIs that it is usually men who exercise actual control over land and have an upper hand in terms of influencing final decisions on how the land is going to be used by the family.

Rapid population growth was also identified by the participants in this assessment as one of the major challenges impacting negatively on access to land and has contributed to diminishing landholding size.

"Due to increase in population, the landholding size has been reduced. This has put more pressure on land and has led to resistance from the community members to give out land for community projects e.g. irrigation fearing that land will be grabbed from them". -KII with Irrigation Officers from Zomba district council.

Consequently, owing to population pressure and the diminishing landholding size, those in need of land have been exploring other alternative ways for accessing land through consensual agreements between parties. Other than inheriting land from parents or accessing land through an allocation from the chief, in the recent years people have resorted to renting land from other villagers on yearly basis or buying from those that are willing to release part of their land. It was noted that this way of accessing land has now become so common. In such arrangements, it was noted that, unlike in situations where the land has been inherited from parents, for the rented land or that which has been acquired through buying, the spouses in the family (husband and wife) are more likely to exercise shared control and ownership over land because it's neither held under matrilineal nor patrilineal system. This was also noted as an approach used by men to increase their power and regain control over land in the context of a matrilineal land holding system.



#### 7.2 ACCESS TO CREDIT AND FINANCE

Village Savings and Loans is the commonest source of micro-credit across the three districts due to prohibitive conditionalities associated with formal credit institutions

Access to credit and finance plays a vital role in enhancing the capacity of smallholder farmers to boost agricultural production because they can access farm inputs, technology and labour besides enabling them to also engage in other off- farm alternative livelihoods activities. The assessment attempted to figure out the extent to which smallholder farmers in the three districts have access to credit and finance besides exploring how gender issues affect the same.

Out of the three districts that were targeted by this assessment, the feedback from KIIs and FGDs showed that comparatively Zomba district had better access to services relating to credit and finance for the smallholder farmers. Compared to the other two districts, several organizations and programmes were mentioned as providing credit and financial services to smallholder farmers in Zomba district. However, participants emphasized that, despite existence of these organizations, community members (particularly small holder farmers) still face several barriers impeding them from fully accessing these services. Some of the organizations that provide micro-credit and financial services in Zomba district include One Acre Fund, COMSIP, FINCA, MARDEF, CUMO, Micro Loan, Malawi Rural Finance, APIP and Village Savings and Loan groups (VSL). On the other hand, for Machinga and Balaka districts, the existing sources of credit and

finance that were mentioned in KIIs and FGDs include VSL groups, Malawi Lake Basin, Great Lakes Company, CUMO, Vision Fund and Toleza Farm.

However, in all the three districts, VSL groups clearly emerged as the commonest and most accessible source of credit and finance to a typical smallholder farmer. The fact that VSL groups are formed by community members themselves and are based right in the community make them more accessible. VSLs comprise community members who come together to do group savings. When the savings accumulate, members start accessing loans at an interest rate which is agreed upon by the group. In all the three districts, it was evident that the VSLs are more accessible because they offer loans at an affordable interest rate unlike the other formal lending institutions whose terms and conditions are perceived to be more prohibitive and exploitative. The interests that are realized from the loans in VSLs also go back to the shareholders who also happen to be from within the same community. This strengthens ownership.

In all the 3 districts, 50% of the FGDs for men indicated that women have more access to credit and finance compared to their male counterparts and the youths. Amongst the main contributing factors that they cited, it was noted that most of the VSL groups which also happen to be the main sources of credit in the communities comprise of women. On the other hand, other groups, for instance the youths FGD participants in Chingale in Zomba area, noted that owing to higher levels of vulnerability and exclusion of women, more organizations that come into the community to provide microfinance services give first preference to women. Many NGOs are deliberately targeting women because they consider them to be more vulnerable than men. However, this perception that women are more likely to access microfinance services was contrary to what key informants at district level in Balaka and Machinga had. They noted that men have more comparative advantages to access credit from formal credit institutions because of their better education, better access to information, and having more access and control over assets that are usually presented to lenders as collateral.

It was also noted by participants in the FGDs and KIIs that, though most of the institutions that offer microcredit services target both men and women, their preference is for women for several reasons. The institutions usually use groups or clubs as their entry points to reach out to potential clients. Unlike menwho are usually mobile and engaged in other activities away from home - women are comparatively less mobile and like to participate in such groups. Besides that, participants noted that comparatively, the default rate on repayment of loans among women is usually very low. With the matrilineal landholding system that also prevails in Zomba, Machinga and Balaka districts, women are regarded as owners of land hence this might be used as an opportunity to increase their chances to access credit by the virtue of the fact that they own a piece of land.

Some key challenges affecting access to credit and finance include prohibitive and exploitative terms and conditions by most of the formal credit and microfinance institutions that provide services in the three districts. Collateral was highlighted in all the three districts as a major barrier impeding access to credit particularly for women and the youths. Those that default are likely to lose their assets as they are confiscated by the credit institutions. High illiteracy levels - particularly among women - was also mentioned as one of the barriers limiting women's access to credit from formal credit institutions. Women have limited access to information about the existing credit facilities despite presence of formal lending institutions that offer credit facilities in the three districts. The youths, both boys and girls, were also of the view that most of the programmes that are run by the lending institutions exclude them hence their failure to participate.

Considering that VSL groups are the most dominant and accessible source of credit, one challenge faced is that the amount of loans that are usually accessed by borrowers from the VSL groups are usually small and not in tandem with the needs of clients. Lack of proper training in basic business management among women who participate in VSL groups and high interest rates were also identified as some of the critical

factors that prevent smallholders from making proper use of the loan facilities resulting into default, in extreme circumstances leading to dispossession of assets that are confiscated by the lending institutions. In relation to the same, it was also observed by local leaders, women, men, as well as the youths who participated in the FGDs in Machinga and Balaka districts that in most cases smallholder farmers who access, credit be it from the formal lending institutions or from the VSLs, usually do not have clear plans as to how to make use of the loans. Women participants in two FGDs in Zomba district contended that this was a huge challenge affecting mostly women due to inadequate exposure to training. On a different note, women from Machinga district were of the view that the short payback period for the repayment of loans dictated by most of the lending institutions is not in tandem with the calendar and duration of agricultural activities, hence they opt to shun access to the loans for fear of losing their property in case they are unable to pay back on time. In relation to the same, the negative impacts of climate change which have usually resulted into low agricultural production have brought uncertainty among smallholders:

"We are afraid to access loans and invest in agriculture. With climate change, we are not sure if we are going to have better yields, hence we do not have the confidence that we will be able to pay back loans,"-Women FGD participants from Mposa in Machinga district.

#### 7.3 ACCESS TO TECHNOLOGY, TRAINING AND CAPACITY BUILDING

NGOs and government extension workers are the main sources for transfer of agricultural related technology. However, the youths including those that are out of school are usually excluded.

The assessment also explored access to training and technology which play a positive role in enhancing agricultural production and increasing smallholder farmers' resilience to effects of climate change. The assessment also sought to figure out how gender issues impact on access to and uptake of the technology and training.

In all the three districts, the main sources or channels for accessing agricultural related technology by the smallholder farmers include government extension workers, radios, NGOs, lead farmers, village chiefs, farmer clubs, newspapers, television and individual farmers who are requested by fellow farmers to coach them. However, out of the list, government extension workers, NGOs and lead farmers were perceived as the most prominent channels for transfer of technology to women and men small holder farmers. On the other hand, the main channels for transfer of agricultural related technologies to the youths include NGOs, extension workers, television and schools.

The common types of technologies which are transferred include conservation agriculture, fertilizer application, recommended plant population and spacing (such as one/one planting of maize) compost manure making, contour marker ridges, ridge alignment, vegetable farming, backyard gardening, nutrition, rain water harvesting, irrigation farming using sunken beds, use of herbicides to control weeds, and nutrition. In terms of training, NGOs and government extension workers were identified by assessment participants in all the three districts as the main providers. Most of the trainings are also provided in form training of trainers (ToT) which target the lead farmers and monitoring champions who are then tasked to train the rest of smallholder farmers in their community.

Participants in the assessment also shared the main challenges that affect agricultural related trainings and technology transfer. One notable challenge that was pointed out by over 50% of the all the FGDs across the three districts is about conflicts which arise between some village chiefs and the lead farmers after the latter have attended training as ToTs. Participants argued that some village chiefs think that lead farmers have monetary gains because they receive allowances whenever they go to attend training of trainers.

"Some chiefs demand money from lead farmers whenever they organize community-based training for the rest of the smallholder farmers in the community."-

The issue of village chiefs demanding a share of allowances from the lead farmers emerged in all the three districts, hence was perceived as a major challenge constraining effectiveness of the lead farmers. In relation to the same, youths from GVH Nsanja in Balaka district contended that when opportunities for trainings arise, in most cases those that are close to the chiefs are the first to be targeted, hence leaving out other smallholder farmers who are equally deserving. The common procedure is that the village chiefs act as gate keepers who must give a seal of approval and mobilize their subjects to attend such trainings. Generally, the youths from all the three districts were concerned that they are side-lined and are rarely targeted in these trainings despite the potential they must contribute to agricultural production:

"These programs do not fully engage the youth. The only time these programs involve us the youths is during community mobilization when the youths are asked to provide entertainment. During actual implementation, the youths are left out", -Youth FGD in Mposa, Machinga district.

Despite the services and trainings provided by extension workers and other service providers, women from Zomba argued that adoption of these technologies is apparently low. This was also evident in FGDs and KIIs in the other two districts of Machinga and Balaka who attributed low uptake of technology to several factors such as the cost of adoption which they noted is not affordable to many smallholder farmers. Some technologies need equipment and inputs which are costly. On top of that, they also observed that trainings which are offered are usually short and once off, yet the normal learning process - particularly for adults is lengthy. There are also minimal outreach activities to communities by government extension workers because they are few. Most of the extension workers are also based in town/urban centres, hence difficult to commute to communities on regular basis. Frequent power blackouts were also noted to have worsened the situation impeding access to technology and messages through radios, cell phones and televisions for most of the smallholder farmers. Lastly, it was also noted that participation of men in the trainings is minimal. Men are more interested in activities which bring immediate benefits.



#### 7.4 ACCESS TO SEEDS AND FERTILIZERS

While collaborative decision making is common place at intra-household level, men have more influence on what type of seeds to grow because they are regarded as bread winners.

There are several ways that are used by the smallholder farmers in the three districts to access seeds and fertilizers which also determine farmers to have better yields or not. The assessment noted that main ways for accessing seeds and fertilizers include buying from agro-dealers, farm inputs subsidy programme which is run by government, free inputs from NGOs, recycled seeds, selling farm produce in order to buy seeds and fertilizers, and composite manure making. At times farmers also access seeds and fertilizer on loan from NGOs and other lending institutions.

There were mixed views from FGDs and KIIs across the three districts with 55% of the groups consulted indicating that it is men who make decisions on what type of seeds to grow. It was observed that men are usually breadwinners with more access to finances compared to their female counterparts, hence they have a strong say on what type of seeds to grow. On the contrary, other participants from FGDs across the three districts said were of the view that, for those smallholder farmers who access seeds on credit, it was the lending institutions which were likely influence decision on what type of seeds to grow particularly for those smallholder farmers who accessed seeds on credit. However, about 40% of the remaining FDGs were of the view that decision making around use of seeds was more collaborative with family members, particularly parents discussing and reaching a consensus while excluding involvement of the youths.

Some of the challenges faced in accessing seeds include lack of legalized seed markets which has led to usage of fake seeds bought from vendors. Fake seeds affect crop productivity because most of them are unable to germinate and will usually give poor output. Smallholders, for instance in Machinga, also protested about travelling long distances to the market to purchase seeds, hence incurring in substantial transport costs. Participants in all the three districts also pointed out that the farm inputs subsidy programme (coupons) usually targets very few households in each village leaving out majority of equally vulnerable households. This was said to be a cause of conflict between the village chiefs and those villagers who are left out. For instance, in Asani village in GVH Mtumbwe in Balaka district, out of 74 households, only 11 were targeted for the 2018 FISP.

#### 7.5 GENDER AND CLIMATE SERVICES

The most preferred way to receive climate information for women is through face to face interaction with extension workers. This is because unlike men and the youths, women have limited access to technology such as internet, radios, phones and newspapers.

The main ways for accessing climate information in the three districts are through extension workers, radios, mobile phones, SMS, village chiefs, schools, friends, community meetings, newspaper, internet, television, village civil protection committees, community radio listening clubs, lead farmers and NGOs. However, out of the list, it was evident in all the FGDs that the most reliable channel is through meetings with extension workers. There was a general perception that women get more climate information compared to men because the former are readily available to attend meetings which are called by extension workers.

The most preferred means for receiving climate information for women is through extension workers because it's done face to face and there is room for probing, questioning or clarification where some information is not clear. It was noted that the other modalities, for instance cell phone messages, depend on literacy which affects capability to decode and interpret the message. Women also pointed out that

they usually have limited access to phones and radios which are usually shared with men who exercise control, hence limiting women's access to climate information through these channels.

"When we women keep on checking messages on the mobile phone, at times men become suspicious. For those of us who are illiterate, we also have to seek assistance from men to read the messages received on cell phone", -women's FGD in Chingale, Zomba district.

On the other hand, the youths kept on mentioning schools as another important channel for accessing climate information. On the contrary to women, the youths also prefer cell phones, and radios as better modalities for receiving climate information.

Several challenges were mentioned as affecting access to climate information. It emerged from all the three districts that the weather forecasts which are usually disseminated by the department of weather and climate change are usually contrary to the actual weather that is experienced by communities. This erodes confidence and trust that the communities place in specialized institutions which provide climate services. In addition, most of the information is also relayed to communities through clubs, yet there are very few people who do participate in these clubs. It is therefore important that better ways are explored in order to reach out to most community members including those that do not participate in clubs. It was also noted that most youths are not invited to community meetings where climate information is shared. The meetings are mostly attended by parents and they rarely share with the youths. It was also requested that messages about climate change should be well packaged with recommendations included so that farmers should be able to make informed decisions. Placing rain gauges and river gauges in the community was also recognized as an innovation that empowers communities to have access to climate information.

In consideration of the issues above, the climate adaptation project will have to take into consideration the specific needs and preferences of women, men and the youths when designing and executing strategies for dissemination of climate information. Otherwise employing a one size fits all approach in dissemination of climate information will risk exclusion of women and other vulnerable groups hence making them more prone to succumb to the negative effects of climate change.

#### 7.6 GENDERED DIVISION OF LABOUR

While men are expected to concentrate on productive paid work, due to social cultural norms women are made to shoulder the burden of unpaid care work hence this is likely to limit their participation and productivity in resilience building and climate adaptation activities.

The study noted that there is clear division of roles between males and females in society in all the three districts. There are very clear expectations from the society in terms of what men need to do and what women are also expected to do. It was emphasized in all FGDs and KIIs across the districts that women are expected to concentrate more on unpaid care work in the home such as cooking, washing, taking care of the children and the family, fetching water, fetching firewood and cleaning the house.

On the other hand, men are expected to do productive work and provide for the family. Men are also expected to perform those tasks that demand physical strength such as construction of a house, construction of a fence, thatching a house, digging graveyard during funeral while their female counterparts concentrate on cooking. At community level, women are also expected to participate in afforestation activities while charcoal burning is done by men. Even the youths who were consulted think it is not right for men to be involved in household chores such as cooking, caring for children, and cleaning the house. However, there was recognition in all the FGDs that things are changing though slowly with both men and women sharing and completing tasks that are culturally perceived to belong to a specific gender group.

In view of the challenges of unpaid care burdens that women and girls face, if the climate adaptation project employs a gender-blind approach, its activities may run the risk of contributing to further widening the gender gap that exists between men and women, boys and girls. If continuous gender analysis is not fully integrated during all stages of the programme cycle, the climate adaptation project may also end up contributing to further increasing the burdens for women. Therefore, the project will have to promote effective and innovative strategies to free up women's time which is spent on reproductive roles in the home such walking long distances to fetch fuel wood and water. The Project may also consider to implement activities which may promote redistribution of unpaid care burdens that usually rest on the shoulders of women.

#### 7.7 GENDER-BASED DISCRIMINATIONS

#### Gender based violence is rampant and erodes any gains registered to achieve household food security.

WFP recognizes the important role that gender-based violence plays in exacerbating food and nutrition security. In view of this, the assessment also explored prevalence of gender-based violence in the three districts earmarked for the climate adaptation project.

The assessment found that gender-based violence exists in all the three districts and plays a critical role in eroding the gains registered by households in ensuring food security. To begin with, it was pointed out by 80% of the FGDs by village chiefs, women, men and the youths across the three districts that women are denied access to proceeds emanating from agricultural production. It is common practice that, after toiling in the field together during cultivation period, when it is time for harvest it is usually men who dominate and monopolize decision making after selling the produce. It is men who usually go to the markets to sell produce, hence exclude their spouses in decision making on use of the proceeds. This is despite the fact that-culturally - the land that is used for cultivation belongs to women.

On top of that, it was also noted that women are usually overburdened with too much workload. Besides the unpaid care work that women do in the home, they also must fully participate in all agricultural activities that take place in the field. For instance, men who participated in FGD in Machinga district from Mtumbwe area confessed:

"We do not give women the chance to rest. After coming from the field, they still have to prepare food and make sure everything is in order".

Most of the women also fail to fully participate in agricultural activities because of their busy work schedule in the home. Women in Balaka also pointed out that some men stay away from home soon after selling agricultural produce and do not involve the women in making decisions on how to spend the earnings from agriculture. Physical beating of wives and sexual abuse were also pointed out in all the three districts as common forms of gender-based violence.

Other forms of abuse that women face include rape, at times divorced/abandoned by husband without any reason, women denied sexual reproductive health rights hence forced to bear too many children, property grabbing upon the death of a husband, women not given space to occupy leadership positions in community groups, and women are also denied business links and markets. On the other hand, common forms of violence against girls include forced early marriages, girls withdrawn from school for no good reason, defilement and rape perpetrated by step fathers, and too much workload not matching up with their age. Girls help in farming, but when parents sell the harvest, they do not give them a penny and encourage them to find boyfriends to provide for them and that leads to early pregnancies and marriages. Some parents do not even send their children to school. Instead they send boys to herd cattle or sell food in the markets.

Men also face certain forms of violence. Due to matrilineal system, after divorce, men are left without land. Men complained that they lack control over valuable resources such as land. This demotivates them from adapting to agricultural innovations. Men also lamented that at times women have too much control over produce. All men's FGDs in the three districts also mentioned withholding of conjugal rights as another common form of gender-based violence that is perpetrated by women against their spouses. Considering the matrilineal land holding system, men also argued that some women end marriages when they expect high yields in the fields which exist in their home villages. In view of these challenges, household approach applied in the context of climate adaptation project was recommended by KIs from Zomba and Balaka as the best strategy that could help resolve issues at HH level and bring harmony to strengthen relationships and participation of all family members in striving to achieve a shared vision.

In view of the prevailing social-cultural practices in the 3 districts where the society is matrilineal, the risk that the climate adaptation project faces is that if the project is seen to exclude men and focus more on women, this might also play a role in further increasing men's resistance hence likely to fuel further gender-based violence that persists in the society. Much as the project will need to empower women in a range of areas, the aspect of male involvement will need to be integrated in the activities so that males are not perceived as rivals but rather as allies. Positive role models can be nurtured, reinforced and given more skills to play the role of change agents.

#### 7.8 GENDER IN FARMER ORGANIZATIONS

## Despite women constituting much of the membership of farmer organizations, it is men who dominate leadership positions and decision making

It was noted that farmer organizations exist in the three districts, though most of them are seen to be inactive. The most active are farmers clubs are usually small and comprise a few members. In Zomba, the FGD participants and KIs mentioned that there are some cooperatives which were facilitated by COMSIP. In Balaka they gave an example of Namibawa Farmers Association as a prominent farmer organization.

In terms of women's participation, it was observed that there are more women than men as members of the farmer organizations. However, despite women constituting much of the membership, it was observed that leadership and decision making is usually dominated by men who also happen to be a minority. In all the three districts, those that were consulted noted that it is men who usually go to look for markets. Comparatively, men have better education hence the perception that they are likely to seal better market deals. Similarly, others also claimed that men possess better negotiation skills hence cannot be easily cheated by vendors.

It was also pointed out that men also take the lead in searching for markets at household level. In Zomba, assessment participants identified several factors that impede participation of women in markets both at household level and in the farmer organizations. For instance, they noted that some husbands do not allow women to participate in groups due to jealousy. Other barriers for women include too much household chores which take up much of women's time, lack of self-confidence, and lack of exposure. On the contrary, there were claims that men have better networks and links to the markets because of their social capital. At times the equation changes depending on the type of crop that is to be taken to the market. For example, the FGD for the youths in Zomba, Chingale area noted that when it is vegetables or tomato which must be taken to the market, it is women who are asked to take the lead. However, if it is a cash crop, it is usually men who go to the market.

In relation to above, the risk that the climate adaptation project is likely to encounter is that if gender transformative approaches are not employed to challenge the gender inequalities that underpin the

governance structures for farmer associations, the project might end up contributing towards further widening of the gender gap. Findings from this study have observed that even if women constitute the majority of the membership in farmer organizations, a few men who are members still dominate and monopolize decision making processes. Therefore, building capacity of farmer associations on marketing and gender issues, providing leadership and confidence building trainings for women coupled with creation opportunities for women to take up leadership positions will help the farmer contribute to achieving gender equality.

#### 8.0 CONCLUSIONS AND RECOMMENDATIONS

Considering the findings from the gender assessment the climate adaptation project will need to employ a gender transformative approach so that climate adaptation interventions provide stepping stones for engaging women, men, boys and girls to start questioning and challenging the unequal power relations and negative social norms that reinforce gender inequalities. This will have to be done through integrating SBCC in project interventions. The project will also need to address and mitigate the burdens of unpaid care work that are shouldered by women and ensure that the interventions are designed and implemented without further increasing the burdens faced by women.

With the systematic exclusion of the youths (both boys and girls) manifesting across all agricultural related interventions, the project will need to figure out strategies that promote active participation and inclusion of the youths. A good example is the involvement of the youth in dissemination of information related to weather and early warning systems. Gender disparities in relation to access and control over productive resources will also need to be addressed in the project. Otherwise even if women are empowered to produce, men will continue to monopolize decision making over use of proceeds emanating from production despite women having equally made substantial contributions and investments in agriculture.

Gender based violence was also noted to be prevalent in all the three districts and further exacerbates food and nutrition insecurity. The project will have to mainstream measures against GBV through intensive awareness raising targeting both men and women.

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20.12.2018

FGD - Youth

Zomba

Mlumbe

### Table 1: SUMMARY OF KIIS AND FGDs CONDUCTED

					Number of		
Date	Type of interview	District	ТА	GVH	participants		
20.12.2018	FGD - Chiefs	Zomba	Mlumbe	Chibwana		11	
20.12.2018	FGD - Men	Zomba	Mlumbe	Chibwana		14	
20.12.2018	FGD - Women	Zomba	Mlumbe	Chibwana		11	
20.12.2018	FGD - Youth	Zomba	Mlumbe	Chibwana		31	
19.12.2018	FGD - Chiefs	Machinga	Mposa	Mbando		6	
19.12.2018	FGD - Men	Machinga	Mposa	Mbando		6	
19.12.2018	FGD - Women	Machinga	Mposa	Mbando		8	
19.12.2018	FGD - Youth	Machinga	Mposa	Mbando		13	Formatted: Font color: Auto
19.12.2018	FGD - Women	Machinga	Mposa	Mikunga		14	Formatted: Font color: Auto
19.12.2018	FGD - Youth	Machinga	Mposa	Mikunga		11	Formatted: Font color: Auto
19.12.2018	FGD - Chiefs	Machinga	Mposa	Mikunga		14	Formatted: Font color: Auto
19.12.2018	FGD - Men	Machinga	Mposa	Mikunga		18	Formatted: Font color: Auto
18.12.2018	FGD - Men	Balaka	Kachenga	Mtumbwe		16	Formatted: Font color: Auto
18.12.2018	FGD - Women	Balaka	Kachenga	Mtumbwe		21	Formatted: Font color: Auto
18.12.2018	FGD - Chiefs	Balaka	Kachenga	Mtumbwe		4	Formatted: Font color: Auto
18.12.2018	FGD - Youth	Balaka	Kachenga	Mtumbwe		4	
20.12.2018	FGD - Men	Zomba	Mlumbe	Nkanda		7	
20.12.2018	FGD - Women	Zomba	Mlumbe	Nkanda		12	
20.12.2018	FGD - Chiefs	Zomba	Mlumbe	Nkanda		11	

Nkanda

28

18.12.2018	FGD - Women	Balaka	Mbera	Nsanja	17	
10.12.2016	rgb - women	DalaKa	IVIDEIa	INSalija		Formatted: Font color: Auto
18.12.2018	FGD - Youth	Balaka	Mbera	Nsanja	21	Formatted: Font color: Auto
18.12.2018	FGD - Chiefs	Balaka	Mbera	Nsanja	10	Formatted: Font color: Auto
18.12.2018	FGD - Men	Balaka	Mbera	Nsanja	9	Formatted: Font color: Auto
	KII - Land					
18.12.2018	Resources	Balaka			3	Formatted: Font color: Auto
	KII - Environmental					
18.12.2018	Officer	Balaka			1	Formatted: Font color: Auto
	KII - Environmental					
18.12.2018	Officer	Machinga			1	Formatted: Font color: Auto
	KII - Agribusiness					
19.12.2018	Officer	Zomba			1	
	KII - Irrigation					
19.12.2018	Officer (2), Land Resources (1)	Zomba			3	
	TOTAL				326	

Table 2: MEMBERS OF THE ASSESMENT TEAM

NAME	ORGANIZATION	GENDER	RESPONSIBILITY
Amos Ngwira	Consultant	M	Lead for the environmental analysis
Christopher Mhone	WFP	NFP M Lead for gender analysis	
Sandra Mukiwa	Mukiwa WFP F		Facilitator
Abeeba Banda	WFP	F	Facilitator
Wongani Mwandira	WFP	F	Facilitator
Edson Ndalama	United Purpose	M	Note taker
Annie Gama	United Purpose	F	Note taker

Appendix 1: CHECKLIST FOR KII AND FGD

### Gender Analysis for Climate Adaptation Fund

Screening for environmental and social (E&S) risks is an important part of WFP's safeguards framework, which is designed to protect the beneficiaries and the organization against the consequences of unwanted impacts arising from our activities. Screening for environmental and social standards assists in the planning process to avoid or mitigate unwanted potential impacts

by highlighting where an activity could be in violation of WFP's policies or international best practice. Screening for environmental and social risks will be based on eight standards namely: Biodiversity & Ecosystems, Sustainable Natural Resource, Resource Efficiency and Waste Management, Pollution Prevention and Management, Human Rights, Gender Equality, Community Health, Safety and Security, and Accountability to Affected Populations. In addition to Screening for environmental and social (E&S) risks, WFP recognizes that gender equality and women's empowerment play a critical role in strengthening food and nutrition security. WFP is therefore conducting an assessment to figure out effective strategies for integrating gender equality to break the cycle of hunger. The findings from this assessment will help shape programming to ensure that resilience programmes are designed, planned and implemented in a gender transformative manner.

WFP recognizes that gender equality and women's empowerment play a critical role in strengthening food and nutrition security. WFP is therefore conducting gender, social and environmental assessment to figure out effective strategies for integrating gender equality, mitigate negative social and environmental impacts in an effort to break the cycle of hunger. The findings from this assessment will help shape programming to ensure that resilience programmes are designed, planned and implemented in a gender transformative manner.

Each Focus Group Discussion will be led by one moderator and one note-taker. The moderator will be responsible for conducting the interviews and guiding the discussion with participants, while the note-taker will take detailed notes of the conversation. Below is a Focus Group Discussion Guide to be used when interviewing beneficiaries.

On the other hand, the individual interviews will target 6 opinion leaders at community TA level. These may include a chief, extension workers, CBO leaders also taking into consideration the issue of gender balance.

#### **Focus Group Discussion Guide**

Number of Participants = 6-12 Duration = 1 -2.5 hours

Good morning/afternoon everyone,

Welcome and thank you for agreeing to participate in our focus group discussions in talking gender in resilience activities. We are very interested to hear your valuable opinion on how the program has been

We value your input, and there are no wrong answers but only different points of view - please share your viewpoint even if it differs from others' comments. To ensure that we do not miss anyone's comments, we will be recording this session to capture everyone's opinions and ideas.

We would like to assure you that any information you provide is completely confidential, and we will not associate your name with anything you say in the focus group. We understand that confidentiality is very important, and we ask participants to respect each other's confidentiality.

#### Introduction:

- 1. Welcome Introduce yourself and the note-taker, and ask a few quick demographic questions (age, role in family/community, etc.) around to the group.
- 2. Explanation of the process Ask the group if anyone has participated in a focus group before.

#### About focus groups

- We learn from you (positive and negative)
- There are no right or wrong answers. Every person's experiences and opinions are important.
   Speak up whether you agree or disagree. We want to hear a wide range of opinions.
- Not trying to achieve consensus, we're gathering information
- For this exercise, we are conducting focus group discussions to get more in-depth information
  from a smaller group to build upon and verify information that we have gathered from other
  sources.
- 3. Ground Rules Ask the group to suggest some ground rules. After they brainstorm some, make sure the following are on the list.
  - Everyone should participate equally (no dominating participants). The moderator may call on those participants s/he hasn't heard from in a while.
  - Information provided in the focus group must be kept confidential
  - Stay with the group and please don't have side conversation
- 4. Ask the group if there are any questions before we get started, and address those questions.
- 5. Turn on Recorder
- 6. Introductions
  - Go around to ask everyone about their background: Can each of you tell the group your name, your age, how long each one has been participating in resilience and climate adaptation activities.

Discussion begins, make sure to give people time to think before answering the questions and don't move too quickly.

Date:			
District:			

TA:	 	
Group Village	 	
Details of participants:		

#### CHECKLIST FOR FGDs FOR GENDER ANALYSIS.

In each GVH there will be the following FGDs:

- 1. Middle-aged women's group 6-12
- 2. Middle-aged men's group 6-12
- 3. The youth (boys and girls aged between 18-25) 6-12
- 4. local leaders/village chiefs 6-12

#### A. Men and women's access to and control over resources and services that determine production

- 1. LAND: How do you access land? What are the challenges? Are there any restrictions in terms of access to land? How and why? Who controls use of land at HH level? Who controls use of land at community level?
- 2. **CREDIT AND FINANCE**: How do you access credit and finance? What are the challenges? Are there any restrictions, how and why? Who has more access to credit? Why?
- 3. **TECHNOLOGY:** How do you access technology for agricultural production and livelihoods? What type of technology? What are the challenges?
- 4. SEEDS & FERTILIZERS: How do you access seeds and fertilizers? At HH level who makes decision on what type of seeds/ crops to grow? What are the challenges in terms of access to seeds and fertilizers? Why?
- 5. **EXTENSION SERVICES:** What are the main sources of extension services? How do you access extension services? What are the challenges? Why?
- 6. **FARM IMPLEMENTS:** What are the main farm implements? How do you access farm implements? What are the main challenges? Who controls each of the main farm implements? Why? How does this impact on livelihoods and production?
- 7. NATURAL RESOURCES: What are the existing natural resources for agricultural production and livelihoods (forests, dams, rivers/streams, weirs, dambos)? Who has access to the natural resources? Who uses them? Who controls the natural resources? Why? What are the challenges relating to the natural resources? Are there any restrictions in terms of access? How and why? Who is affected by these restrictions? How?
- 8. **INFORMATION/CLIMATE SERVICES:** How do you access information about weather/climate? What are the sources or channels you use to access climate information? What are the challenges/barriers? Why? What are your preferred ways for accessing climate information? Why?
- 9. **TRAINING AND CAPACITY BUILDING:** How do smallholders access training for agriculture and livelihoods? Who provides the training? What type of training? What are the challenges for women? Why? What are the challenges for men? Why?

#### B. Gendered division of labour at household and community level

- 10. EXPECTED ROLES OF WOMEN AND MEN: Are there any roles or responsibilities women are not allowed/discouraged to undertake? Why? What are the expected roles of women? Why? Are there any roles or responsibilities men are not allowed/discouraged to undertake? Why? What are the expected roles for men? Why?
- 11. **AGRRICULTURAL ACTIVITIES:** What activities do men do in relation to agriculture? Why? What activities do women do in relation to agriculture? Why? What activities do boys do in relation to agriculture? Why? What activities do girls do in relation to agriculture? Why?
- 12. **CHANGES IN CLIMATE:** Are there any changes in climate that you have experienced over the past 5 years? What are the exact changes? How have the changes impacted on agriculture? What measures have you taken to adapt to climate change?
- 13. **CARE WORK:** Who typically does care work (cooking, taking care of baby, etc)? why? How is this person remunerated for their work? If not remunerated, why?
- 14. **GENDER BASED DISCRIMINATIONS**: what are the gender based discriminations that you face in relation to agriculture? Why?

#### C. Livelihoods gender analysis

15. **LIVELIHOODS ANALYSIS:** What are the activities that you do in relation to livelihoods? What are the activities that men do in relation to livelihoods? What are the main sources of expenditures for men? What are the main sources of expenditures for women?

#### D. Governance, participation in farmer organizations and access to markets

- 16. PARTICIPATION AND REPRESENTATION IN FARMER OGANIZATIONS: Do farmer organizations and cooperatives exist? Are women adequately represented in the producer organizations? Why? Are the youths adequately represented in the producer organizations? Why? Do women actively participate in decision making processes in the FOs? Why? Do women take up leadership positions in the organizations? Why? What are the specific challenges that affect women's participation? What are the specific challenges that affect youth participation? Between men and women, who aggregates more? Why? Who has more access to storage facilities? Why?
- 17. **GENDER BASED VIOLENCE:** What are the specific gender discriminations which affect girls? What are the specific gender discriminations and forms of gender based violence which affect boys? What are the specific gender discriminations and forms of gender based violence which affect women?
- 18. **STORAGE FACILITIES:** How do you access storage facilities? What type of facilities? Who owns the facilities? Who makes decisions over use of the facilities?
- 19. **ACCESS TO MARKETS**: In the FOs, who goes to look for markets? Why? In the HHs, who goes to look for markets? Why? What are the specific challenges that women face to access markets? What are the specific challenges that men face to access markets?

#### E. Gender and power relations/decision making at household and at community level

20. **DECISION MAKING:** Who makes final decision at HH level on how to use land? Who makes a final decision at community level on how to use community land? Who makes final decision at HH level

about what type of crops to grow? Who makes final decision about prices when taking produce to markets? Who makes final decision on how to use proceeds from sell of produce?

#### CHECKLIST FOR KEY INFORMANT INTERVIEWS FOR GENDER ANALYSIS

- B. Men and women's access to and control over resources and services that determine production
- 1. LAND: How do women smallholders access land? How do men smallholders access land? How do boys (youths) access land? How do girls access land? Are there any challenges for women? Why? Are there challenges for men? Why? Why? Are there challenges for girls? Why? Are there challenges for boys? Why? Are there any restrictions in terms of access to land? How and why? Who controls use of land at HH level? Who controls use of land at community level?
- 2. CREDIT AND FINANCE: How do women smallholders access credit and finance? How do men smallholders access credits? What are the challenges for women? Why? What are the challenges for men? Why? What are the challenges for the youths-males? What are the challenges for youths-girls? Are there any restrictions, how and why? Who has more access to credit? Why?
- 3. TECHNOLOGY: How do women smallholders access technology for agricultural production and livelihoods? How do men smallholders access technology? What type of technology? What are the challenges women? What are the challenges for men? Why? What are the challenges for the youths-girls? What are the challenges for the youths-boys?
- 4. SEEDS & FERTILIZERS: How do smallholders access seeds and fertilizers? At HH level who makes decision on what type of seeds/ crops to grow? What are the challenges in terms of access to seeds and fertilizers? Why?
- 5. **EXTENSION SERVICES:** What are the main sources of extension services? How do smallholders access extension services? What are the challenges for women? What are the challenges for men? What are the challenges for the youths-girls? What are the challenges for the youths-boys? Why?
- 6. FARM IMPLEMENTS: What are the main farm implements? How do smallholders access farm implements? What are the main challenges for women? What are the main challenges for men? Who controls each of the main farm implements? Why? How does this impact on livelihoods and production?
- 7. NATURAL RESOURCES: What are the existing natural resources for agricultural production and livelihoods (forests, dams, rivers/streams, weirs, dambos)? Who has access to the natural resources? Who uses them? Who controls the natural resources? Why? What are the challenges for women relating to the natural resources? What are the challenges for men relating to natural resources? Are there any restrictions in terms of access? How and why? Who is affected by these restrictions? How?
- 8. INFORMATION/CLIMATE SERVICES: How do smallholders access information about weather/climate? What are the sources or channels used to access climate information? What are the challenges/barriers for women? Why? What are the challenges/barriers for men? What are the challenges/barriers for What are your preferred ways for accessing climate information? Why?
- 9. TRAINING AND CAPACITY BUILDING: How do smallholders access training for agriculture and livelihoods? Who provides the training? What type of training? What are the challenges for women? Why? What are the challenges for men? Why?
  - B. Gendered division of labour at household and community level

- 10. EXPECTED ROLES OF WOMEN AND MEN: Are there any roles or responsibilities women are not allowed/discouraged to undertake? Why? What are the expected roles of women? Why? Are there any roles or responsibilities men are not allowed/discouraged to undertake? Why? What are the expected roles for men? Why?
- **11. AGRRICULTURAL ACTIVITIES:** What activities do men do in relation to agriculture? Why? What activities do women do in relation to agriculture? Why? What activities do boys do in relation to agriculture? Why? What activities do girls do in relation to agriculture? Why?
- **12. CHANGES IN CLIMATE:** Are there any changes in climate that you have experienced over the past 5 years? What are the exact changes? How have the changes impacted on agriculture? What measures have you taken to adapt to climate change?
- **13. CARE WORK:** Who typically does care work (cooking, taking care of baby, etc)? why? How is this person remunerated for their work? If not remunerated, why?
- **14. GENDER BASED DISCRIMINATIONS**: what are the gender based discriminations that women face in relation to agriculture? What are the gender based discriminations that men face in relation to agriculture? What are the gender based discriminations that girls face in relation to agriculture? What about boys? Why?

#### C. Livelihoods gender analysis/vulnerability analysis

- **15. LIVELIHOODS ANALYSIS:** What are the activities that women do in relation to livelihoods? What are the activities that men do in relation to livelihoods? What are the activities that boys do in relation to livelihoods? What are the activities that girls do in relation to livelihoods? What are the main sources of expenditures for men? What are the main sources of expenditures for women?
- D. Governance, participation in farmer organizations and access to markets
- 16. PARTICIPATION AND REPRESENTATION IN FARMER OGANIZATIONS: Do farmer organizations and cooperatives exist? Are women adequately represented in the producer organizations? Why? Are the youths adequately represented in the producer organizations? Why? Do women actively participate in decision making processes in the FOs? Why? Do women take up leadership positions in the organizations? Why? What are the specific challenges that affect women's participation? What are the specific challenges that affect youth participation? Between men and women, who aggregates more? Why? Who has more access to storage facilities? Why?
- 17. GENDER BASED VIOLENCE: What are the specific gender discriminations which affect girls? What are the specific gender discriminations and forms of gender-based violence which affect boys? What are the specific gender discriminations and forms of gender-based violence which affect women?
- **18. STORAGE FACILITIES:** How do smallholders access storage facilities? What type of facilities? Who owns the facilities? Who makes decisions over use of the facilities?
- **19. ACCESS TO MARKETS**: In the FOs, who goes to look for markets? Why? In the HHs, who goes to look for markets? Why? What are the specific challenges that women face to access markets? What are the specific challenges that men face to access markets?
  - E. Gender and power relations/decision making at household and at community level

<b>DECISION MAKING:</b> Who makes final decision at HH level on how to use land? Who makes a final decision at community level on how to use community land? Who makes final decision at HH level about what type of crops to grow? Who makes final decision about prices when taking produce to markets? Who makes final decision on how to use proceeds from sell of produce?	

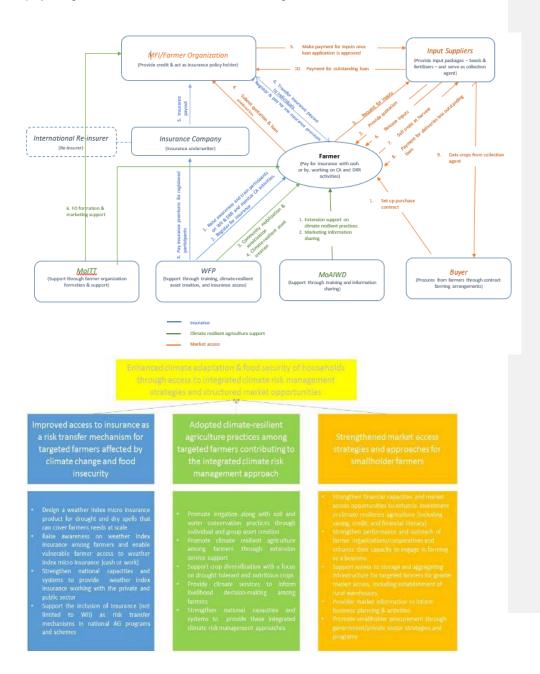
Annex 3: Prioritized TAs and targeted beneficiaries within the three priority districts for the AF project

District	та	Total TA Population	Total # of Households	Total # of Targeted Households	# of beneficiaries
	TA Nkula	27,349	6,078	3,040	13,680
	STA Nchinguza	31,816	7,070	3,610	16,245
	TA Kawinga	92,144	20,476	9,220	41,490
	TA Nkoola	54,169	12,038	7,230	32,535
Machinga	TA Mposa	36,000	8,000	4,210	18,945
	TA Chiwalo	13,149	2,922	1,500	6,750
	TA Kapoloma	15,789	3,509	1,860	8,370
	TA Nyambi	55,989	12,442	6,230	28,035
	STA Chesale	14,599	3,244	1,630	7,335
Sub total		341,004	75,779	38,530	173,385
- total		•			
	TA Mkumbira	6,211	1,380	700	3,150
	TA Mkumbira		1,380 18,958	700 6,640	3,150 29,880
		6,211	•		
Zomba	TA Mbiza	6,211 85,311	18,958	6,640	29,880
	TA Mbiza  TA Malemia	6,211 85,311 82,320	18,958	6,640 5,490	29,880
	TA Mbiza  TA Malemia  STA Nkagula	6,211 85,311 82,320 51,548	18,958 18,293 11,455	6,640 5,490 6,440	29,880 24,705 28,980
	TA Mbiza  TA Malemia  STA Nkagula  STA Ntholowa	6,211 85,311 82,320 51,548 50,738	18,958 18,293 11,455 11,275	6,640 5,490 6,440 5,640	29,880 24,705 28,980 25,380
Zomba	TA Mbiza  TA Malemia  STA Nkagula  STA Ntholowa	6,211 85,311 82,320 51,548 50,738 45,355	18,958 18,293 11,455 11,275 10,079	6,640 5,490 6,440 5,640 5,040	29,880 24,705 28,980 25,380 22,680
Zomba	TA Mbiza  TA Malemia  STA Nkagula  STA Ntholowa  STA Nkapita	6,211 85,311 82,320 51,548 50,738 45,355 <b>321,483</b>	18,958 18,293 11,455 11,275 10,079	6,640 5,490 6,440 5,640 5,040	29,880 24,705 28,980 25,380 22,680

	TA Chanthunya	30,229	6,718	2,020	9,090
	TA Sawali	19,254	4,279	1,940	8,730
	STA Matola	20,292	4,509	1,360	6,120
	STA Toleza	5,579	1,240	380	1,710
Sub total		222,066	49,348	16,520	74,340
Total Population		884,553	196,567	85,000	382,500

# Annex 4: The Integrate resilience approach and graduation processes across the three project components

The project will pursue an integrated resilience approach that is adaptive and able to support graduation processes. The below diagram represents the linkages and the flow of interventions across components, the below illustration has been developed. In addition, an illustration of the project logframe is also included to orient the reading of the flow of interventions.



# Annex 5: Procedures for handling complaints (Complaints and Feedback Mechanisms)

#### 1.0 Introduction

Accountability to Affected Populations (AAP) is one of the core values that helps project stakeholders to provide the best possible services to the people that are receiving assistance. One of the mechanisms for ensuring Accountability to Affected Populations will be by setting up and implementing robust Complaints and Feedback Mechanisms (CFMs). For WFP and partners, AAP denotes a shift from exclusive focus on upward accountability to donors, local and national governments to the recognition that project stakeholders must also be accountable to women, girls, men and boys that are receiving assistance through the project.

For this project, CFM will be mainstreamed as a beneficiary protection system across all interventions in the targeted districts. The design, a user-led feedback mechanism, works with both beneficiary communities and project stakeholders. The main purpose is to provide a safe, inclusive and confidential platform that can be used by targeted communities to raise their voices and channel their complaints and feedback to WFP, partners and the government to provide an informed basis for improving quality of services. Targeted communities will also report alleged noncompliance with WFP's operational policies and procedures. CFM will also aim to:

- Avoid or minimize, mitigate, and manage adverse impacts to people and the environment affected by projects, where avoidance is not possible;
- Strengthen WFP and partner capacities for managing social and environmental risks; and
- Ensure full and effective stakeholder engagement, including through a mechanism to respond to complaints from project-affected people.

This design recognizes that beneficiary protection borders on three critical aspects (i) community knowledge of basic programming and protection principles including ability to recognize non-adherence (ii) availability of safe, confidential and accessible platforms for lodging complaints including reporting incidences of abuse or violation of the code of conduct and (iii) existence of support structures to coordinate remedial actions. Below is an outline of the standard operating procedures for implementing the CFMs:

# 2.0 STANDARD OPERATING PROCEDURES (SoPs) FOR COMPLAINTS AND FEEDBACK MECHANISMS (CFMs)

#### 1. WFY CFMs?

CFMs provide a formal platform for receiving and responding to complaints from men, women, boys and girls from communities where WFP and partners implement food assistance programmes. The main objective of CFMs is to create space for the affected communities to raise voices and influence actions that enhance quality of programmes.

CFMs are also in line with WFP and partners' commitment to deliver food assistance under safe and dignified conditions without exposing the affected people to more harm. CFMs help to create platforms for the affected people to raise their voices and channel their complaints and feedback relating to the

food assistance programmes in a safe and dignified manner. In all food assistance programmes, formal systems must be put in place for receiving and processing complaints and feedback.

#### 2. WHY THE STANDARD OPERATING PROCEDURES?

The Standard Operating Procedures (SoPs) have been created to ensure efficiency and effectiveness in implementation of the CFMs. Among other things, the SoPs seek to achieve the following objectives:

- Provide procedural guidance to WFP staff and partners for effective management of CFMs
- Define the roles of each of the partners in relation to implementation of CFMs
- Spell out the minimum standards to be adhered to by all partners

#### 3. PRINCIPLES GUIDING IMPLEMNTATION OF CFMs

The following principles shall be adhered to by WFP and Cooperating Partners (CPs) implementing CFMs:

- **3.1 Privacy, confidentiality and safety:** Information about details of complainants shall only be made available to a limited number of people whose role necessitates access. WFP and CPs shall strive not to expose community members to potential harm or retaliation. WFP and CPs shall implement CFMs in a way that offers physical protection and shall address potential retaliation.
- **3.2 Community participation**: Partners shall continuously seek views of the affected communities to input into design and implementation of the CFMs. WFP and all CPs shall ensure that community structures actively participate during all stages of the CFM.
- 3.3 Multiple channels: One CFM channel cannot address the different needs of all men, women, boys and girls of all ages with diverse socio-geopolitical characteristics. All CPs shall therefore ensure that the affected communities have safe access to multiple channels for receiving and processing complaints.
- 3.4 Taking timely action and providing regular responses to communities: WFP and all CPs shall put in place deliberate strategies to ensure that complaints are followed up in a timely manner and that where possible actions are also taken in a timely manner to address the issues raised through CFMs. Failure to take actions in a timely manner and provide responses demotivate communities hence they see no reason to continue providing feedback.
- **3.5** No cost to the affected communities: WFP and CPs shall ensure that they do not promote CFMs that attract monetary costs from the affected community members. Monetary costs act as a barrier and demotivate vulnerable communities from using the CFMs.
- **3.6 Neutrality of the structures that handle complaints:** As much as possible, structures charged with responsibility to handle complaints must demonstrate high degree of neutrality. Lack of objectivity erodes confidence and trust. This may also act as a barrier and discourages the affected community members from providing complaints and feedback.
- **3.7 Community sensitization**: WFP and CPs shall ensure that communities are continuously sensitized using multiple channels so that they have full information about the existing CFMs and how to

use them. Communities also need to be reminded that it is their right to complain and that humanitarian assistance is not a gift but rather an entitlement. Examples of channels for awareness raising include community meetings, posters, radios, theatre, distribution gatherings.

**3.8 Staff training:** WFP and CPs shall ensure that staff are well trained on CFMs. WFP and CPs shall designate specific focal persons to coordinate CFMs

#### 4. KEY COMPONENTS OF THE CFM

CFMs shall be integrated in all food assistance programmes supported by WFP. The CFM at a minimum shall have a system for **receiving** complaints, **recording** complaints, **referring** complaints, **responding** back to communities, **returning** to communities, **reporting**, and **reviewing** the CFM to draw lessons.



#### 4.1 RECEIVING COMPLAINTS

- WFP and CPs shall deploy multiple channels for receiving complaints such as Toll-free lines and local Suggestion Boxes, Help Desk, Community Complaints Committees, Community Feedback Meetings, verifications, pre-distribution talks etc. The purpose of deploying multiple channels is to be inclusive and accommodate some groups that could have been left out if only one channel was used.
- While WFP shall engage a third-party organization, YONECO, to deploy toll-free lines for receiving
  complaints, the CPs shall also use community-based channels such as the Suggestion Boxes, the Help
  Desks, community complaints committees, community feedback meetings, pre-distribution talks,
  sharing phone numbers of selected staff with communities, drama, face to face interactions between
  staff and community members, verifications, and office walk-in.
- YONECO and CPs shall acknowledge community members that give complaints.

#### 5. RECORDING COMPLAINTS

- YONECO and CPs shall record all complaints immediately after receiving them. The complaints and feedback shall be recorded in a consistent and systematic manner for easy tracking and analysis.
- WFP shall also maintain a central register of all complaints including those received by the CPs and YONECO

- All CPs shall maintain a complaints and feedback register in excel spreadsheet that shall be updated
  on daily basis capturing all the complaints received throughout the month.
- Information to be captured in the complaints register include name of programme, location including
  district and traditional authority, date of the complaint, description of the complaint, where possible
  age and sex of complainant, channel used for receiving the complaint, categorization of the
  complaint, action taken, outcome, status of the complaint whether resolved or still pending, and
  name of focal point for follow up.
- WFP, YONECO and CPs shall ensure that the complaints data are well protected and secured. Access
  to the data base shall be restricted to a limited number of staff who are playing an essential role in
  the CFM including CFM focal points, programme managers from the CPs, programme officers
- While ICT and other sections will play a supportive role in providing technical support, the programme section will oversee implementation of CFMs.

#### **5.3 REFERRING**

- All complaints received by YONECO through the toll-free lines and through other community based feedback mechanisms shall be referred through email within 24 hours to relevant CPs and WFP focal persons for verification, follow up and action.
- After receiving the complaints through community based channels, CFM focal persons within the CP shall refer the complaints through emails to other relevant sections within 24 hrs.
- All the complaints that are neither for WFP nor for CP shall also be referred to relevant stakeholders within 4 working days after receiving the complaint.

#### 5.4. RESPONDING

- After receiving complaints from YONECO, the CP shall acknowledge receipt through email within 24 hours
- The CP shall review, verify and where possible investigate the complaints provide responses within 5 working days.
- The responses shall be inserted in right column in the agreed complaints tracking template.
- By the end of each month, the CP shall have provided responses to all complaints filed in that month.

#### 5.7 RETURN

- Each month, the CP shall return to the concerned community to clarify complaints received during
  the month and explain the actions that have been taken to address the issues.
- The CP shall figure out appropriate forums that can be used as a regular platform for returning to community to provide responses and clarifications on how the complaints are being addressed.
- In case of FFA and general food distribution, before commencing distribution, CP staff shall brief the
  gathering giving them a quick overview of the complaints received last time and how they are being
  addressed.

#### **5.8 REPORTING**

- YONECO shall provide weekly update reports on the complaints received through the toll-free lines.
- YONECO shall also generate comprehensive analysis reports at the end of each month.
- CPs shall also generate monthly complaints reports every 5<sup>th</sup> of the following. The report shall use an
  agreed excel template and brief narrative for not more than 2 pages.

#### 5.9 REVIEW

- WFP, YONECO and CPs shall conduct joint reviews of the CFMs to learn lessons that can help shape programming and improve quality of services
- YONECO and WFP shall conduct user satisfaction surveys to get feedback from callers of the toll-free lines to identify areas of strengths and areas that need improvement in the CFM
- WFP shall generate monthly and quarterly complaints and feedback reports analyzing the trends and giving recommendations of the actions to be taken to address the issues.

#### 6. CATEGORIZATION OF COMPLAINTS

For purposes of these SoPs, a complaint will be defined as a grievance, a concern, a disapproval or an expression of dissatisfaction by community members from the affected populations beneficiaries and non-beneficiaries inclusive about certain processes relating to the assistance being provided. All the complaints and feedback shall be classified under six main categories as follows:

#### **CATEGORY 1: POSITIVE FEEDBACK**

This is about expression of appreciation from communities. The positive feedback is good because it gives us an indication of the good work that needs to be sustained. This type of feedback does not necessitate a specific action but just needs to be acknowledged and closed immediately in the complaints log/register.

#### **CATEGORY 2: REQUEST FOR INFORMATION**

In some cases, communities will be calling the toll-free lines just to get more information about various aspects of the assistance. This feedback is vital because it will help identify information gaps and shape Social Behavior Change and Communication interventions. This will have to be responded to immediately by frontline staff like food/cash distributors. If the need for information exceeds their level, support should be sought from supervisors/senior programme staff. An action must be taken in not more than 5 working days to address this.

#### **CATEGORY 3: REQUEST FOR ASSISTANCE**

At times complainants will be seeking basic assistance from WFP and CPs. This will have to be responded to by the frontline staff the food/cash distributors and monitors immediately. However, support should be sought from senior programme staff or the supervisor if it happens to be beyond their level. Such types of complaints should be responded to in not more than 5 working days.

#### **CATEGORY 4: EXPRESSION OF DISATISFACTION**

Community members may express dissatisfaction with the processes in provision of assistance such as inclusion and exclusion errors, delays to commence distributions, late distributions, wrong ration sizes, mishandling by some staff. Depending on the level of dissatisfaction, these complaints can require the involvement of several programme officers and the supervisor, or the attention of the managerial level. These cases need to be followed up and resolved within 14 days. Cases of fraud and mismanagement should also be escalated to WFP immediately within 24 hours for investigation and action.

#### **CATEGORY 5: VIOLENCE AND ABUSE COMMITTED BY COMMUNITY MEMBERS**

This requires referral to the district police or social welfare focal point or the nearest protection response service point (child protection worker or gender officer, victim support units, one stop centre) according to the referral protocol. All cases of physical abuse, material abuse, economic abuse committed by community leaders and other community members must be referred to the district police or social welfare focal point or the nearest protection response service point immediately within 5 days.

#### CATEGORY 6: BREACH OF CODE OF CONDUCT OF THE SECRETARY GENERAL'S BULLETIN ON PSEA.

These breaches involve sexual exploitation (actual or attempted exchange of money, employment, goods or services, for sex, including sexual favours, or other forms of humiliating, degrading or exploitative behaviour) or sexual abuse (actual or attempted intrusion of a sexual nature whether by force or under unequal or coercive conditions) by UN, non-UN staff or other personnel involved in humanitarian assistance. SEA is serious misconduct and may inflict serious pain to the survivors and damage the reputation of WFP and partners. These cases should be reported to the WFP confidential reporting focal point immediately within 24 hours

#### 7.0 HANDLING SENSITIVE COMPLAINTS

All sensitive complaints about fraud and sexual exploitation shall be treated with utmost urgency and shall be reported straight to WFP. Cases of this nature need to be handled with care and speed as they are likely to tarnish cooperate image of the UN and CPs.

#### 8.0 CLOSING COMPLAINTS

WFP, CPs and YONECO shall close complaints after they have been followed up, where necessary action taken, feedback provided to the complainants and resolved. Partners will put in efforts to close all complaints within each calendar month.

#### 9.0 ROLES AND RESPONSIBILITIES OF YONECO

#### YONECO will play the following roles and responsibilities:

- 1. Provide a platform for receiving any type of complaints from the affected communities through toll free lines & community feedback meetings
- 2. Helpline counsellors handle complainants that call the toll-free lines with care and dignity
- 3. Helpline staff record all complaints within 24 hours.
- 4. Helpline staff document all the complaints capturing important details so that CPs should not have challenges in following up
- 5. Helpline counsellors immediately (within an hour) refer all cases of sexual exploitation and abuse to ED/Helpline Manager
- Helpline manager/ED refers to WFP PSEA focal person/DCD all cases of sexual exploitation within 24 hours
- 7. Helpline manager/ED refers all complaints and feedback that need CPs and WFP's attention and action within 24 hours after receiving the complaints
- 8. Helpline counsellors provide immediate responses to callers requesting for basic information
- 9. Helpline staff conduct community feedback meetings in some selected communities in collaboration with the CPs and the district councils
- 10. Helpline manager/ED shares with WFP and CP a written summary of key issues emerging from each of the community feedback meetings not later than 24 hours after conducting the feedback meetings highlighting key findings and recommendations
- 11. Helpline manager/ED follows up on weekly basis with each CP to ensure progress on the complaints

- 12. Helpline manager/ED escalates all complaints to senior managers of the concerned CP keeping WFP in copy if 4 working days elapse without getting feedback from the designated focal person
- 13. Helpline manager share weekly updates with WFP
- 14. Sensitize communities and other stakeholders through a range of channels such as radios and community engagement activities so that the affected communities have full information about the CFMs and how to use them
- 15. Helpline manager closes complaints as per the standard procedure
- 16. Helpline manager/ED ensures that the complaints and feedback data generated is protected, kept confidential and not shared with the media, unauthorized individuals and institutions without prior consultation with WFP

#### 10. ROLES AND RESPONSIBILITIES OF THE COOPERATING PARTNER (CP)

### 10.1 Programme Manager for a WFP supported programme shall ensure that the following processes are followed:

- 1. All project staff are fully oriented specifically on CFMs, Accountability to Affected Populations (AAP), gender and protection
- 2. CP designate a focal person for gender and protection who will also be a lead on CFMs for each of the WFP supported programme
- 3. The Cooperating Partner deploys local CFMs for receiving and processing complaints and feedback from communities. Examples include Help Desk, Suggestion Boxes, pre-distribution talks, community feedback meetings, complaints committees, office walk in etc
- 4. The Cooperating Partner maintains a complaint register using an agreed format for recording all complaints and feedback
- 5. CFMs are available and accessible to communities at every distribution point
- 6. Communities are sensitized about YONECO toll-free lines and the other CFMs using a range of channels such as distribution gatherings, community meetings, TfD, banners, posters etc
- 7. Provide written acknowledgement of complaints filed by YONECO within 24 hrs
- 8. Review, verify and follow up on the complaints shared by YONECO including those received directly through local CFMs
- 9. Provide responses and feedback to YONECO and WFP on the complaints filed by YONECO no later than four working days
- 10. Ensure that the CP submit protection report (narrative) and CFM report (excel) every 5<sup>th</sup> of the following month using an agreed template
- 11. Ensure that sensitive and high priority complaints such as sexual exploitation and abuse are reported with utmost urgency and are treated with strict confidentiality
- 12. Follow up, where necessary investigate and take actions to resolve complaints and close them by the end of each month.
- 13. Close complaints as per the standard procedure
- 14. Ensure that the data generated is well protected, kept confidential and not shared with the media, unauthorized individuals and institutions without prior consultation with WFP

## 10.2 The front- line staff for the Cooperating Partner led by the Gender and Protection Focal Person shall be directly responsible for:

- 1. Deploying the local CFMs at all final distribution points. The local CFMs include Suggestion Boxes, Help Desk, pre-distribution talks, complaint committees and community feedback meetings
- 2. Sensitize communities about the local CFMs and YONECO toll free lines
- 3. Orient community structures that are involved in the food assistance on CFMs
- 4. Follow up on all complaints and update the status in the complaints register

- 5. Provide immediate responses and take corrective actions when communities request for basic information and when they also request for assistance
- 6. Within 5 working days, refer all cases that are not for WFP and partners to relevant stakeholders for action
- 7. Maintain and update complaints log/register on weekly basis
- 8. Ensure that the data generated is well protected, kept confidential and not shared with the media, unauthorized individuals and institutions without prior consultation with the programme manager
- 9. Compile narrative report on protection (max 2 pages) and CFM report using CFM tracking template

#### 11. ROLES AND RESPONSIBILITIES OF WFP

#### 11.1 WFP District Office-Programme Associate/Monitoring Assistant (based in the district)

- 1. serve as a focal person on CFMs in the district
- 2. support the NGO partner to deploy CFMs
- 3. follow up with the relevant partner to ensure progress in resolving complaints received in the district
- 4. coordinate with the NGO partner and the district council periodic meetings on CFMs with district stakeholders
- 5. support the NGO partners to ensure systematic documentation and tracking of the complaints and feedback using agreed templates
- 6. remind the NGO partner to submit monthly CFM reports every 5<sup>th</sup> of the following month
- 7. ensure confidentiality and privacy of the complaints and feedback

#### 11.2 WFP Sub Office-Programme section

- 1. Conduct periodic review of the complaints to identify critical issues emerging from the district
- 2. Follow up on the outstanding complaints from the districts
- 3. Take corrective actions to address complaints
- ${\it 4.} \quad \hbox{Provide responses to complaints that are directed to/escalated to the sub-office}$
- 5. Coordinate capacity building activities for CPs including orientations on CFMs, trainings
- 6. Refer complaints to relevant sections within the sub office for action
- 7. ensure confidentiality and privacy of the complaints and feedback

#### 11.3 WFP Gender and Protection Focal Person at the Country Office

- 1. In collaboration with the sub office and other sections, support training of partner staff on the CFMs
- Facilitate development, updating and dissemination of CFM reporting templates, SoPs, and other guidelines on CFMs
- 3. Refer complaints to relevant units/sections for action
- 4. Provide centralized documentation of all complaints received through all mechanisms
- 5. Coordinate with the national protection cluster on CFMs
- 6. Coordinate with the inter agency taskforce on CFMs
- 7. Ensure privacy, confidentiality and protection of the data generated through CFMs
- 8. Consolidate monthly and quarterly analysis reports by 15<sup>th</sup> march
- 9. Coordinate reviews of the CFMs to draw lessons

#### 11.4 WFP ICT section

- collaborate with CP's ICT sections to provide technical support in installation of software for recording and tracking of complaints and feedback
- 2. provide technical support in training staff and partners on use of technology for the CFM
- 3. undertake periodic checks on the functionality of ICT system for supporting the CFM

#### 11.5 WFP Programme Heads/Activity Managers

- 1. Provide timely responses to the complaints
- 2. Take corrective actions in response to complaints and feedback directed at their specific programs

#### 9.6 WFP M&E section head

- 1. Ensuring that the CFMs are integrated in the M&E processes
- 2. Facilitate periodic review of the CFMs to draw lessons to shape programming

#### Annex 6: Environmental and social management and monitoring plan

The ESMP designed for this project will track identified risks, or any new risks, ensuring they are properly monitored, evaluated, and reported upon. The proposed project will fully comply with national laws, the Adaptation Fund's Environmental and Social Policy and WFP's environmental and social standards.

According to the Adaptation Fund's Environmental and Social policy this project has been screened for its potential environmental and social impacts. The risk screening and assessment carried out is in compliance with the 15 social and environmental principles of the AF as described in Table 5, section K. The checklist used to screen the project and assess potential environmental and social impacts is presented below.

Most of the field activities that will be implemented under component 2 will be defined at project inception through community-based participatory planning approaches. A menu of options has been pre-identified in consultation with communities. This set of options has been pre-screened during design phase (see screening checklist filled-in below) and activities are expected to be categorized low to moderate risk. Specific community adaptation plans will be screened before their approval to assess the actual risk category of each activity, taking into consideration the location and the social and environmental context. Should a moderate or high risk be identified, the project will take adequate measures to address and mitigate the risk.

#### Risk screening and assessment results – Project level

Name and location of activity:	Adapting to climate change through integrated risk management strategies and enhanced market opportunities for resilient food security and livelihoods.  Project activities will be implemented in Balaka, Machinga and Zomba Districts in southern Malawi
Responsible WFP unit or office:	Malawi Country Office
Implementing partner(s):	Ministry of Agriculture and Irrigation and Water Development in collaboration with Department of Disaster Management Affairs (DoDMA), Economic Planning and Development (EP&D), Insurance Association of Malawi (MIA), Department of Climate Change and Meteorological Services (Ministry of Local Government and Rural Development (MoLGRD), Ministry of Industry, Trade and Tourism (MoITT) and NGOs.
Expected timing & duration of activity:	January 2020 to December 2024
Brief summary and main elements of the activity (e.g. from activity brief or similar):	The project aims to enhance climate adaptation and food security of households through access to integrated climate risk management strategies and structured market opportunities. It will purposely target 85,000 households (450,000 beneficiaries) especially women and other marginalized groups who rely on agricultural livelihoods and are most affected by poverty, food insecurity, climate change and related shocks. The project will pursue an integrated resilience programming that is adaptive and able to support graduation processes. This approach adopts a theory of change that represents an emerging evidence on how investments leading to improvements in access to productive assets, skills and knowledge gradually combined with an integrated risk management package (financial savings, credit, insurance scheme, climate services), access to structured markets and basic services. This process of layering and converging the interventions offers the vulnerable and food insecure households' access to the safety net, then additional protection mechanisms, like the insurance. Providing the same households with such an integrated package targeting the same

		and reduce risks	beneficiaries is critical to breaking the cycle of food insecurity; improving resilience and reduce risks that in turn lead to positive impact on targeted households, communities, and enabling them to effectively participate in the food system.						
Result of screening:  Category A / High degree of  concern  Names, affiliation, and positions of p screening for environmental issues:		Dr. Amos Ngwira,	Progra Natior	Category C / Low degree of concern mme Policy Officer, WFP Malawi nal Consultant (Environmental and Social Safeguards) gramme Policy Officer (Gender and Protection)					
Names, affiliation, and positions of p screening for social issues:	lames, affiliation, and positions of personnel who did the creening for social issues:			Duncan Ndhlovu, Programme Policy Officer, WFP Malawi  Dr. Amos Ngwira, National Consultant (Environmental and Social Safeguards)  Christopher Mhone, Programme Policy Officer (Gender and Protection)					
Screening was done as team/group (Yes/No)	work	Yes	Yes						
Was additional specialist advice/sup (Yes/No) If yes, indicate name, affiliation and	Yes, Dr. Amos Ngv Safeguards)	Yes, Dr. Amos Ngwira, National Consultant (Environmental and Social Safeguards)							
Was advice sought from HQ E&S Saf (Yes/No)	advice sought from HQ E&S Safeguards Team? /No)			Yes					
Did screening lead to changes in acti (Yes/No) If yes, please briefly describe how.	vity design?	Yes, for all the risl in the project des		tified, appropriate mitigation actions have been outli	ned				

Please write any observations, uncertainties or other factors of importance here. Positive co-benefits of the activity can also be described here.

If the activity is categorised of Low Concern/Cat. C, please provide a short description explaining why.

This screening is based on initial consultations with the potential target communities and the relevant stakeholders. Appropriate mitigation measures for all the identified risks have been defined based on recommendations from the consultations. Further consultations leading to project implementation roll out will be conducted using the community based participatory planning approach and consequent targeting processes. This will assist to elaborate detailed mitigation actions that will be implemented in inclusive manner working with project participants and all the relevant stakeholders. Furthermore, a robust complaints and feedback mechanisms supported by a functional M&E system will be instituted to capture any emerging issues that will be addressed in a timely manner. Independent Environmental and Social Impact Assessments will be carried out at site level for irrigation schemes.

#### Screening Questionnaire

This screening tool consists of a list of around 20 general level 1 questions (indicated with two digits, e.g. 3.1) and around 60 detailed level 2 questions (indicated with three digits, e.g. 3.1.1), corresponding to the 15 principles of the Adaptation Fund Environmental and Social Policy.

The level 1 questions need to be answered first and they need to be answered ALL. If a level 1 question is answered with a 'yes', it leads to more detailed questions of level 2. All level 2 questions under a level 1 question that triggered a 'yes' need to be answered. If a level 1 question is answered with a 'no', then the corresponding level 2 questions do not need to be answered.

Answers to the detailed Level 2 questions result in one of three degrees of concern. If any Level 2 question is answered with a 'yes', the indicated degree of concern will determine the degree of concern for the whole activity. This means that if a single question indicates a high degree of concern, the activity is classified as an activity of high concern and appropriate measures must be taken. If no question is answered with a high degree of concern, but at least one medium-level concern is raised, then the activity is a medium concern activity. If no Level 1 or Level 2 questions are answered with a 'yes', then the activity is of low concern and no further action is required.

It is possible that a level 1 question is answered with a 'yes' and all associated level 2 questions are answered 'no' as they are more detailed and specific questions of the same issue. If all the level 2 questions are answered 'no', then this area will be of low concern, even if the level 1 questions was answered with a 'yes'. If a potential impact is not covered by any of the L1 or L2 questions, it can be added in the empty box at the end of each of the sections.

1. Compliance with the law	Category	Answer	Justification / Risk description
1.1 Is there a risk that the activity would not comply with an applicable domestic or international law?		No	The proposed project well complies with the relevant national guidelines and regulations such as the National Climate Change Management Policy of 2016, National Climate Change Investment Plan, National Agriculture Policy of 2016, National Agriculture Investment Plan, Malawi National Social Support Programme II (MNSSP II) of 2018, Forestry (Amendment) Act of 2017, Water Resources Act of 2013, Disaster Risk Management Policy of 2015, National Resilience Strategy 2017-2030, National Forest Landscape Restoration Strategy of 2017, National Charcoal Strategy 2017-2027, National Gender Policy of 2015, Farmer Organization Development Strategy (2018), Contract Farming Strategy (2018)
1.1.1 Is there a risk that the activity would not comply with an applicable international law?	High		
1.1.2 Is there a risk that the activity would not comply with an applicable national or local law?	High		

2. Access and Equity			
2.1 Could the activity lead to changes in local tenure arrangements for existing resources or resources created by the activity?		Yes	For the establishment of small-scale irrigation schemes, land access and use rights will be regulated through by-laws. When appropriate, users will be formalised into water users' associations (WUAs) to regulate management and ensure year-round maintenance of the small-scale irrigation infrastructure. All the necessary access and use arrangements will be constitutionalised at local community level to avoid any access and user conflicts.
2.1.1 Could the activity lead to changes in tenure arrangements that potentially could put groups or individuals at a disadvantage or could lead to disagreements and conflicts?	High	No	Potential conflict could arise in relation to land access and user rights. The project will institute appropriate local governance arrangements to avoid conflicts. Water Users' Associations will be also created to better regulate access and use aspects including proper management and correct maintenance.
2.2 Could the activity create or exacerbate intra- or inter-community conflicts?		Yes	
2.2.1 Could activities lead to opening up of existing or creating new minor conflicts or disagreements within or between groupings or communities?	Medium	Yes	Potential women participants expressed fear that men participants will opt for proportionately low level of participation especially in the agricultural production activities but monopolize on benefit sharing from produce sales.
2.2.2 Could activities lead to opening up of existing or creating new conflicts or disagreements within or between groupings or communities which potentially could become entrenched, violent, or spread to additional groups or communities?	High	No	From the community consultations and key informant interviews with district level stakeholders, there is no potential for the conflicts or disagreements within or between groupings or communities becoming entrenched, violent, or spread to additional groups or communities?
2.2.3 Could the activity bring unequal economic benefits to a limited subset of the target group?	Medium	Yes	While project participation will be inclusive of all participants in the target group, there could be potential women participants disproportionately receiving lower benefits especially from agricultural production sales than their male counterparts
2.2.4 Could the activity lead to increased un-employment that would not be absorbed by other sectors or activities?	Medium	No	
2.3 Could the target beneficiaries or stakeholders be dissatisfied due to limited consultation during activity design or implementation (including due to inadequate Complaints and Feedback Mechanisms)?		No	Project design will be inclusive of all the relevant stakeholders and target beneficiaries through their involvement in community based participatory processes as well as multi-stakeholder action planning process. More over the project will institute a robust complaints and feedback mechanism that will always be widely disseminated and accessed from planning stage. Community and

		stakeholder consultations ensured inclusiveness. For example, separate and mixed groups consultation sessions were facilitated for the different categories to ensure the voices were heard from male, female and both at the same time. For the separate groups, consultations with women were led by female facilitators, to capture issues that women cannot speak out in front of a male facilitator or male counterparts.
2.3.1 Could the activity lead to dissatisfaction or negative impacts due to lack of beneficiary or other stakeholder participation in planning, design, implementation, or general decision making?	Medium	
2.3.2 Is there a risk that not all relevant stakeholders, and especially marginalised or vulnerable groups, have been identified and consulted or that they have been exposed to internal or external pressure or coercion or not able to comprehend the consultations?	Medium	
2.3.3 Could there be negative impacts due to an inadequate Complaints and Feedback Mechanism during project implementation?	Medium	Reference: WFP Minimum Standards for Implementing a Complaints and Feedback Mechanism docs.wfp.org/api/documents/310fde2bfbfa4bc8b3ecabe44c0f0815/download/

3. Marginalized	and Vulnerable Groups			
3.1 Could the activity marginalized and vulnera	be imposing disproportionate adverse impacts on able groups?		No	Vulnerable women, youth (boys and girls aged between 15 and 25), the elderly men and women were consulted to ensure that their identified threats, challenges and priorities are reflected in project design.
discriminatory	likelihood that the activity would have inequitable or adverse impacts on affected populations, particularly n poverty or marginalized or excluded individuals or	Medium		
	e activity potentially restrict availability, quality of and urces or basic services, in particular to marginalized roups?	High		
	he activity aggravate the situation of vulnerable, rotherwise disadvantaged individuals or groups?	High		
3.2 Could the activity lead	d to influx of a temporary or permanent alien workforce?		No	The project activities will address needs at community level and therefore the project design will target participants from the same community(ies). No external workforce either on temporary or permanent basis will be engaged.
	activity lead to influx of a temporary or permanent alien elatively small size in a relatively isolated or culturally junity?	Medium		
permanent ma smaller group	activity lead to influx of a relatively large temporary or jor alien workforce (>10% of existing community) or a which could be expected to have important cultural, economic impact on a local community?	High		

#### 4. Human Rights

4.1. Cou	uld the activity fail to respect human rights?		No	This project affirms the rights of all people and does not violate any pillar of human rights.
	4.1.1 Could the activity lead to violation of fundamental human rights as	High		
	defined by international, national or local law?			
	4.1.2 Could the activity of partners, contractors, or suppliers, lead to	High		
	violation of fundamental human rights as defined by international,			
	national or local law?			

5. Gender Eq	5. Gender Equality and Women's Empowerment					
5.1 Could the activi unwanted workload	vity lead to gender-based inequality, discrimination, exclusion, ad, or violence?		Yes			
5.1.1 Cou inequalitie	uld the activity create or amplify conditions for gender-based ies?	Medium	Yes	Although women have control over land due to the prevalent matrilineal land holding system in the Project area, they lack equal control and access over complementary productive input such fertilisers and seed, as well as implements to make the land productive. This demotivates them from adopting agricultural innovations, leading to unequal distribution of incomes.		
5.1.2 Coul	uld the activity lead to gender-based violence?	High	No			
5.1.3 Cou decisions?	ould the activity lead to gender inequities in who makes 5?	Medium	No			
5.1.4 Coul girls?	uld the activity lead to increased unpaid work for women and	Medium	No	_		

6. Core Labour Rights				
6.1 Could the activity fail to respect core labour rights?		No	The IE and its partners respect international and national labour laws and codes, as stated in WFP's policies. WFP has a zero-tolerance policy for child labour of children below 14 year. There is low risk of child labour in the targeted districts as established from the field consultations	
6.1.1 Does the activity involve support for employment or livelihoods that may fail to comply with national and international labour standards (i.e. principles and standards of ILO fundamental conventions)?	High			
6.1.2 Could the activity, or that of partners, contractors, or suppliers, involve use of child (<14y) or forced labour?	High			

7. Inc	digenous Peoples				
7.1 Doe peoples	es the activity involve indigenous peoples or could it affect indigenous s?		No	There are no recognized indigenous people in Malawi. However, the consultative process engaged the various local people from the communities including traditional leaders and elders.	
	7.1.1 Could the activity negatively affect indigenous peoples, culturally or otherwise, without their specific Free, Prior, Informed, Consent (FPIC)?	High	No		

8. In	voluntary Resettlement			
8.1. Co	ould the activity lead to resettlement?		No	The project will not lead to involuntary resettlement of community members
	8.1.1 Could the activity lead to involuntary economic or physical	High	No	
	resettlement of households or individuals?			

9. Protection of Natural Habitats			
9.1 Could the activity lead to negative impacts on natural habitats?		No	The project will promote climate resilient agriculture practices including crop diversification, agroforestry, soil and water conversation as well as reduce pressure of natural forests through tree regeneration and afforestation. In addition, the promotion of fuel-efficient stoves is expected to reduce pressure on forests by reducing the use of timber for cooking purposes.
9.1.1 Could there be negative impacts on critical migration corridors of endangered or otherwise or important animal or insect species?	High		
9.1.2 Could the activity lead to increase in unregulated or unlicensed collecting, hunting, or fishing?	Medium		
9.1.3 Could a natural habitat be significantly degraded, fragmented, or more than half of extent destroyed?	Medium		
9.1.4 Could a natural habitat be almost fully destroyed or degraded so that it no longer could function as natural habitat for the original fauna/flora?			
9.2 Could the activity lead to negative impacts in protected or internationally recognised areas?		No	The project will not be implemented in protected areas, critical habitats or areas of particular/ locally recognised ecological significance
9.2.1 Will any major constructions be located close (<200m) to critical habitats, protected areas, or areas of particular or locally recognised ecological significance?	Medium		
9.2.2 Could the activity lead to negative impacts on protected or internationally recognised areas?	High		

10. Conservation of Biological Diversity									
10.1 Could the activity lead to negative impacts on biodiversity or endangered species?		No	The project will promote restoration of the degraded landscapes and biodiversity through afforestation, tree regeneration and soil and water conservation, which will restore the habitat for any endangered fauna such as bees, plants and other animal species. The project will not introduce any alien species as part of the afforestation or reforestation activities						
10.1.1 Could the activity lead to degradation of biodiversity or significant reduction in one or more common animal, insect, or plant species?	Medium								
10.1.2 Could the activity lead to loss (eradication or removal from local area) of one or more animal, insect, or plant species?	High								
10.1.3 Could there be negative impact on any endangered or critically endangered animal, insect, or plant species?	High								

10.1.4 Could the activity lead to introduction of invasive alien	Medium											
varieties or species which could influence local genetic resources?												
10.1.5 Could the activity lead to introduction of invasive alien	High											
varieties or species which potentially could eradicate, change, or												
significantly reduce local naturally occurring varieties or species?												
10.1.6 Could the activity introduce genetically altered organisms?	Medium		Reference:	WFP	follows	national	law	regarding	the	use	of	GMOs
		docs.wfp.org/api/documents/WFP-0000020247/download/										

11.1 Could the activity lead to increased exposure, increased vulnerability, or		No	The project components and activities will contribute to enhancing climate adaptation
reduced resilience of beneficiaries to the effects of climate change?			and food security of the targeted communities and households through access to integrated climate risk management strategies and structured market opportunities
11.1.1 Could the activities result in increased exposure to climate induced hazards?	High		
11.1.2 Could the activity result in beneficiaries being more vulnerable to climate-related stresses?	High		
11.1.3 Could the activity lead to beneficiaries having less means or options to withstand shocks resulting from extreme weather events (floods, storms, drought)?	High		
11.2 Could the activity lead to increases in greenhouse gas (GHG) emissions or to reduction of carbon sinks?		No	The project will implement technologies that will contribute to reduction in GHG emissions and increase in carbon sinks.
11.2.1 Could the activity lead to significant increases in GHG emissions during operation phase?	Medium		
11.2.2 Could the activity lead to significant degradation or destruction of elements which absorbs and stores carbon from the atmosphere (trees, plants, soils)?	Medium		

12. F	12. Pollution Prevention and Resource Efficiency										
12.1 Could the activity lead to significantly increased release of pollution to air, land, or water during construction or operation?			No	The project will employ low-tech implements for the construction works including hoes, picks; which will avoid any negative impact on either air, land or water pollution. The project will also promote the use of efficient ways of applying water for irrigation such as canals to avoid surface run offs, use of treadle pumps							
	12.1.1 Could the activity lead to a dangerous increase in release of pollutants (incl. noise) to air, land, or water during construction or as result of accidents?	Medium									
	12.1.2 Could the activity lead to a dangerous increase in release of pollutants (incl. noise) to air, land, or water during normal operation?	Medium									
	12.1.3 Will the activity lead to any open burning of plastic waste during construction or operation?	Medium									
	12.1.4 Could the activity lead to significant negative impacts on visual aesthetic values?	Medium									

12.1.5 Could the activity lead to discharge of untreated wastewater to	High		
the environment?			
12.2 Could the activity lead to procurement, transport, or use of chemicals,		No	Crop management activities will follow FAO/WHO International Code of Conduct on
hazardous materials, or ozone depleting substances subject to international			Pesticide Management. This will involve close collaboration with FAO.
bans?			
12.2.1 Could the activity lead to procurement, transport, or use of chemicals or other hazardous materials, including asbestos and ozone depleting gases which will not be handled and disposed of safely by following normal Standard Operating Procedures?	Medium		
12.2.2 Could the activity lead to procurement, transport, or use of chemicals or other hazardous materials subject to international bans?	High		
12.3 Could the activity lead to increased use of agrochemicals?		Yes	Agriculture production/Crop management activities will imply the use of agrochemicals. However, their use and application will follow integrated pest management and integrated soil fertility management approaches and benefit from technical support (i.e. close collaboration with FAO). Alternative practices to avoid/reduce the environmental impact of agricultural practices will be also promoted
12.3.1 Could the activity lead to use of agrochemicals that potentially could be replaced or reduced by alternative environmentally friendly products or techniques?	Medium	Yes	The project will promote the adoption of alternative environmentally friendly products or techniques to replace or reduce the use of inorganic agrochemicals.
12.3.2 Could the activity lead to use of pesticides or other chemicals, which could have an unintended effect on non-target species and environment?	Medium	Yes	The use of pesticides may have unintended effects on non-target species. The project will promote an integrated pest management approach and, where unavoidable, ensure the correct use of the most environmentally friendly agrochemicals available on the market.
12.3.3 Could the activity lead to use of WHO class 1a, 1b, or Class II pesticides without proper application of the International Code of Conduct on Pesticide Management?	High	No	
12.3.4 Could the activity lead to use of pesticides, herbicides or other chemicals or materials containing or polluted by Persistent Organic Pollutants (POP's) as listed by the Stockholm Convention?	High	No	
12.4 Could the activity lead to very high resource use (such as fuel or water) during operation?		No	The project will promote gravity fed and solar powered irrigation systems to avoid reliance on diesel powered irrigation technologies
12.4.1 Could the activity lead to more than 100,000 litres per year of diesel, in vehicles and/or generators?	Medium		
12.4.2 Could the activity lead to major use of water from unsustainable sources (bottled and transported, gradual depletion of ground- or surface-water, change of local waterways etc.)?	Medium		
12.5 Could the activity lead to generation or transport of hazardous or non-		No	
hazardous waste which could have negative environmental impacts?			
12.5.1 Could the activity lead to significant increase in generation of waste that will not be disposed of in an environmentally friendly manner (recycled, re-used, or recovered) by WFP, beneficiaries, or third parties?	Medium		
12.5.2 Could the activity lead to generation of hazardous waste which will not be handled and disposed of safely by following normal Standard Operating Procedures?	Medium		

#### 13. Public Health

13.1 Could the activity lead to increased risk to community health and safety from			Yes	
use of e	equipment, materials, transportation, or natural hazards?			
	13.1.1 Could activities during construction or operation phase lead to increased community risks from e.g. increased traffic, inappropriate design or use of equipment and materials which would not be handled by following normal Standard Operating Procedures?	Medium	No	The project will employ low-tech implements for the construction works with clear work norms for the participants to minimize any construction hazards
	13.1.2 Could the activity cause community exposure to water-born, water-based, water-related, vector-born or communicable diseases?	Medium	Yes	Although, the project will promote small scale structures which will minimize such potential for public health risks, normally water harvesting structures such as irrigation dams and other water reservoirs, could be breeding grounds for mosquitoes. Awareness raising activities on water borne disease risks will be promoted through the linkage with the Ministry of Heath's program on malaria prevention. Depending on the water depth of some infrastructures, relevant signs and messages to indicate the risk of drowning will be put in place.

14.	14. Physical and Cultural Heritage								
14.1 (	ould the activity negatively affect heritage?		No	During community level and stakeholder consultations, no proposed project activities were identified as to affect the physical and cultural heritage					
	14.1.1 Could the activity negatively impact any form of physical or cultural heritage?	Medium							

15. L				
15.1 Could the activity lead to negative impacts on soils, groundwater, water bodies, water ways, coastal areas, or the sea			Yes	Through asset creation activities such as land and soil conservation measures, soil erosion will be reduced, water retention increased helping to the replenishment of the water table, vegetative cover increased, and soil fertility enhanced. However, if not implemented and managed appropriately, some of these measures could collapse, with subsequent increases in run-off, soil erosion and flooding that can cause harm to live and livelihoods. Selection of the areas for the interventions will be informed by site-specific feasibility studies and align with recommendations from the community based participatory sessions. The feasibility study will be conducted before implementation starts through the involvement of engineers as specified within the WFP FFA Risk Matrix
	15.1.1 Could there be significant impacts on quality or quantity of surface- or ground-water?	Medium	No	
	15.1.2 Could the activity lead to major changes in flow regimes of local waterways, conditions of water bodies, or coastal areas?	High	No	
	15.1.3 Could the activity lead to increased soil erosion, run-off, or significant changes to soil characteristics?	Medium	Yes	If badly designed and/or poorly managed, land and soil conservation measures could cause adverse environmental effects.
	15.1.4 Could the activity lead to serious soil erosion (e.g. major gullies, sheet erosion etc.) or major detriments to soil quality over a large or locally important area?	High	No	
	ould the activity lead to negative impacts on forests, wetlands, farming or land, or other landscape elements of ecological or economic importance?		No	The project will promote restoration of the degraded landscapes through afforestation, tree regeneration and soil and water conservation, which will restore the microcatchments for both ecological and economic benefits. The project will promote

		development of local governance arrangements such as by-laws that will support for example, sustainable harvesting of forest products.
15.2.1 Could the activity lead to degradation or fragmentation of local forest areas, wetlands, prime farming or grazing land, or other landscape elements of ecological or economic importance?	Medium	
15.2.2 Could forests, wetlands, prime farming or grazing land, or other landscape elements of ecological or economic importance be almost fully destroyed or degraded or heavily fragmented?	High	
15.2.3 Could the activity lead to significant increase in consumption of locally sourced fuel-wood?	Medium	

#### Risk mitigation measures for general risks identified and related monitoring arrangements

AF ESP principle	Risk identified	Possible impact	Level of Risk	Mitigation measures	Responsible	Monitoring arrangements and/or indicators
Compliance with the Law	No risks identified	NA	NA	NA	NA	NA
Access and Equity	Potentially unequal access to land and user rights, credit and finance  There is potential unequal distribution	Potential conflicts and disputes raising among land and water resource users due to unclear/change in land tenure rights  From the community and stakeholder consultations,	Low to medium	The project will ensure fair and equitable access to land and user rights, credit and micro-finance for both women and men through the following mitigation measures:  - Promotion of complementary activities such as VSLs and IGAs and related technical training that will empower them to make	Programme Officer and field project officers	Conduct household surveys to assess level of participation and benefits of community members
	of project benefits between male and female participants	there is potential for women to receive lower economic benefits from agricultural sales compared to male counterparts. This puts female participants at a disadvantage in contributing effectively to land investment decisions		investment decisions including how much land to cultivate, what crops to produce, how much water to use for irrigation and other related cropping activities.  - Assist communities set up mechanisms such as local bylaws whose enforcement will facilitate equal participation of and benefits sharing for group members, especially youth and		

				women who are envisaged to		
				have a key role in agricultural		
				related programmes.		
	Potential disputes			related programmes.		
	among participating			Through the community based		
	households			participatory planning processes, the		
	nousenoius			1		
				project will ensure that identified needs		
				and priorities of different groups have		
				corresponding defined strategies on use		
				of assets to be created and benefits		
				sharing		
				Training of communities on use of		
		Communities may disagree		appropriate feedback mechanisms and		
		on issues related to land		setting up of community by-laws		
		issues, and water for		secting up or community by laws		
		irrigation, assets		Develop clear guidelines of resolving		
		contribution and benefits		conflicts by establishing community level		
		sharing. This may lead to		committees with clearly defined		
		intra household conflicts		modalities of receiving conflicts and		
		intra riouseriola comincis		setting up schedules of resolving them		
				setting up schedules of resolving them		
				Social behaviour change communication		
				messaging will be a cross-cutting activity		
				delivered through various channels		
Marginalized	No risks identified	N/A	N/A	N/A	N/A	N/A
and		,	,	,		
Vulnerable						
Groups						
Human Rights	No risks identified	N/A	N/A	N/A	N/A	N/A
Gender Equity	Potential	Although women have	Medium	The project will empower women on	Programmes Officer	Process, output and outcome
and Women's	disproportionate	control over land due to		actual control over the use of land by	and	monitoring will focus on
Empowerment	access and use of	the matrilineal land holding		supporting them with complementary	M&E Officer	tracking progress of women's
	land resources by	system, they lack equal		activities such IGAs and VSLs to allow		access to complementary
	men and women.	control and access over		them to make their own informed		resources and participation in
	While land	complementary productive		decisions on investments related to land		all project activities
	ownership in the	input such fertilisers and		management. This will enhance adoption		

	earmarked project location is matrilineal, men exercise actual control over the use of land	seed, as well as implements to make the land productive. This demotivates them from adopting agricultural innovations, leading to unequal distribution of incomes		of improved agricultural innovations by women farmers hence increase productivity and incomes from sales of agricultural produce  WFP will revise the work norms for asset creation activities to ensure that they are gender-sensitive. This will be supported by related trainings for both women and men.  Project design will be inclusive of all the relevant stakeholders and target beneficiaries through their involvement in community based participatory processes as well as multi-stakeholder action planning process. More over the project will institute a robust complaints and feedback mechanism that will always be widely disseminated and accessed from planning stage  Social behaviour change communication messaging will be a cross-cutting activity delivered through various channels		This will be done through both household and qualitative surveys that will be organized at defined intervals in the course of project.  Detailed of indicators/targets will be outlined in the monitoring and evaluation plan
Core Labour Rights	No risks identified	N/A	N/A	N/A	N/A	N/A
Indigenous Peoples	No risks identified	N/A	N/A	N/A	N/A	N/A
Involuntary Resettlement	No risks identified	N/A	N/A	N/A	N/A	N/A
Protection of Natural Habitats						
Conservation of biological diversity	No risks identified	N/A	N/A	N/A	N/A	N/A

Climate	No risks identified	N/A	N/A	N/A	N/A	N/A
Change						
Pollution Prevention and Resource Efficiency	Potential increased use of agrochemicals	Environmental impacts and health issues caused by over or incorrect application of inorganic agrochemicals and/or inadequate equipment	Medium	Alternative practices to avoid/reduce the use of inorganic agrochemicals and their environmental impact will be promoted Correct use and application of agrochemicals will follow integrated pest& soil fertility management approaches also through technical expertise support (i.e. FAO).	Programme Officer and field project officers	Number of trainings on correct agrochemicals application and use; Number of protective gears made available to beneficiaries
Public Health	Possible impacts of water reservoirs on community health arising from construction of water reservoirs and dams which could be breeding grounds for mosquitoes	Water reservoirs and dams could be breeding grounds for mosquitoes that could transmit malaria for the target project participants	Low	The project will employ low-tech implements for the construction works with clear work norms for the participants to minimize any construction hazards The project will link up with Ministry of Heath on its program on malaria prevention campaign by supplying mosquito nets	Programme Officers, Field based staff in collaboration with District Environmental Health Officer and District Health Officer will identify the most appropriate mitigation measures and ensure that they are included in the community plans	Depending on the specificities of each location the following parameter could be monitored: disease occurrence and other public health indicators related to water-borne diseases and infections
Physical and Cultural Heritage	No risks identified	NA	NA	NA	NA	NA
Land and soil conservation	If badly designed and/or poorly managed, land and soil conservation interventions could cause adverse environmental effects	Increase in run-off, soil erosion and flooding	Low to medium	Selection of the areas for the interventions will be informed by site-specific feasibility studies aligning with recommendations from the community based participatory sessions.  Feasibility study will be conducted before implementation starts through the involvement of engineers as specified within the WFP FFA Risk Matrix.	Programme Officers and field-based staff	Number of feasibility studies carried out

# Annex 7: Minutes from the National Validation Workshop on the Adaptation Fund - November 1, 2018, Lilongwe

#### Introduction

The National Validation Workshop on the Adaptation Fund held on November 1, 2018, in Lilongwe, was convened by the Acting Chief Director for Economic Planning and Development, Mr. Peter Simbani, as the National Designated Authority to the Adaptation Fund (AF), in conjunction with the WFP Resident Representative, Mr. Benoit Thiry. The purpose of workshop was to present the project concept note for feedback and endorsement prior to submission to the AF Board on August 6<sup>th</sup>, 2018. The minutes note the feedback from stakeholders that led to the validation of the project concept note.

#### **Feedback from Stakeholders**

The feedback from the participating stakeholders is summarized below. Overall, national stakeholders welcomed the project concept note. Notable positive feedback was received on the participatory approach that was followed, the detail and depth achieved in the project concept note, and the suitability to the national context and priorities.

- The focus on three districts is welcomed to focus the activities and consolidate the impact and learnings from the project, before scaling it up.
- Across a number of policies, including the Malawi National Social Support Programme (MNSSP II) and the National Resilience Strategy (NRS),
  there is a focus on integrated watershed management. This has led significant efforts on the implementation of this approach across a number
  of districts. This is particularly an approach being mainstreamed across district councils. As such, the project is recommended to align to this
  in its design and implementation.
- The irrigation component of the water and soil conservation activities under Component 2 should be focused on community structures and assets, especially if priority is going to be given to the integrated watershed management approach. This is in recognition of work by other on irrigation infrastructure.
- When proceeding with planning, the project team should be mindful that as water access is enhanced for production, undoubtedly households will also want support to access water resources for consumption. So, a strategy should be developed for this with a focus on minimizing risks of using unsafe water for drinking or cooking purposes.
- Diversification away from maize is welcomed and this should come out more strongly. Though there is a recognition that maize in diets will likely need to be complemented, rather than eliminated.
- Collaboration with the Insurance Association of Malawi and the Reserve Bank was commended. In addition, the project team is encouraged to work with the Treasury in the Ministry of Finance going forward with the possible project proposal and implementation.
- The challenges currently faced by the government to collect commodity prices were noted and it was stressed that the project should seek to strengthen these efforts, rather than duplicate these.

- The integrated approach to water and soil management is welcomed. In addition, the recommendation was made to explore ways that this can be leveraged to support livelihood diversification. The example of fish ponds was presented, which was a viable water harvesting practice and offered an alternative income to its beneficiaries.
- It was stressed that district level plans need to be strengthened and prioritized to support district level coordination and coherence. This project was encouraged to adopt this approach and to work closely with district staff.
- Building on the above, it was noted that as part of adaptation that is truly transformative there is a need to work also with communities to do long term planning. As such, the project team was invited to reflect on how its participatory planning approaches help achieve this aim. Also, the project team was encouraged to align this community planning approach to the district plan.
- Graduation pathways as part of pillar 3 on resilience under the MNSSP II is a key priority. This sort of thinking within the project concept could be emphasized, especially in relation to the transitioning of farmers from subsistence to surplus-producing farmers.
- The project coordination structure and processes needs to be further fleshed out, especially as the project transitions form concept and potentially to a fully fledge proposal.

The comments received were very constructive. As the feedback was mainly positive and aiming to further enhance the project concept note, there was a general agreement that the project concept note could be endorsed in the context of the meeting, accordingly, the participants supported the validation of the project concept, under the understanding that the comments provided would be taken on board by the project team.

#### **Next Steps**

The feedback received will be taken on board by the Task Force. This means that it will be incorporated into the project concept note to the extent possible and applicable. Where this is not fitting, the recommendation may be further fleshed out in the context of the possible project proposal development phase. This latter approach applies more to the specific details of project activities, as further consultation at the district and community levels will be needed to further validate these recommendations. The comments that are to be incorporated will be included in the concept note. Submission to the AF Board will be done by August 6, 2018.

#### **Workshop Participants**

Name	Organization
Mr. Peter Simbani	Department of Economic Planning and Development
Mr. Harry Mwamlima	Department of Economic Planning and Development – Poverty
Ms. Bessie Msusa	Reduction & Social Protection
Mr. Victor Mbamba	
Mr. Alex Namaona	Ministry of Agriculture, Irrigation and Water Development
Mr. Gilbert Kupunda	

Mr. Ben Twinomugisha	United Nations Development Programme		
Mr. Benoit Thiry			
Mr. Hussein Madih	Linited Nations World Food Drogramma		
Ms. Daniela Cuellar	United Nations World Food Programme		
Ms. Miki Fujiwara			
Mr. Martin Magomero Reserve Bank of Malawi			
Ms. Tryness Mankhwazi	Environmental Affairs Department		
Ms. Hannah Siame			
Mr. Dalitso Chikoti	nikoti Department of Disaster Management Affairs		
Mr. Godwin Nyirongo	Ministry of Industry, Trade, and Tourism		
Mr. Zalimba Makawa	NICO General Insurance, Representing Insurance Association of		
	Malawi		

#### **Annex 8: Community and district level stakeholder consultations**

#### Objective:

As part of the proposal design stage extensive community and district level stakeholder consultations were held to establish the environmental hazards and their drivers, their environmental and social impacts.

#### Methodology:

In December 2018, 24 Focus Group Discussions (FDGs) and 10 Key Informant Interviews (KIIs) were held involved 326 people comprising 176 females and 150 males.

Each FGD involving between 8-28 participants to ensure active participation from each of the invited community members. There were separate FGDs for the following groups: Middle aged women; Middle aged men; the youth (combined boys and girls aged between 15 and 25); Village heads/local leaders combining both males and females; and the elderly men and women.

FGDs for the elderly and the Village heads/local leaders, comprised mixed groups of both men and women, while other FGDs were held separately for women and men. The separate FGDs for men were led by male facilitators while those specific for women were also led by fellow women facilitators to allow participants to express themselves freely especially on issues that could be not be discussed in mixed groups

The 10 key Informant Interviews targeted sector technical heads from United Purpose that implements climate adaptation activities and relevant government line ministries at district level.

#### Key Findings:

Key points arising from the key informant interviews and focus group discussions regarding major environmental hazards and their drivers, their environmental and social impacts include:

- The most common environmental hazards identified by participants in the FGDs and KIIs:
  - ✓ Drought/dry spells
  - ✓ Floods
  - ✓ Strong winds
  - ✓ Crop pests such as fall armyworm and diseases
  - ✓ Heat
  - ✓ Landslides

- Practices that lead to unstainable use of natural resources such as land husbandry practices, deforestation, overgrazing and overstocking and avoidance of such practices were the proposed ways to address them:
  - Land husbandry practices such as farming along river banks, cultivating on steep slopes and along the slopes, farming in buffer zones, monocropping leading to mining of same types of nutrients from the same layers of the soil:
  - ✓ Deforestation due to charcoal burning and clearing of forests to open up new land for farming
  - ✓ Overgrazing and overstocking
- Practices that could lead to increased vulnerability or reduced resilience of beneficiaries to the effects of climate change/climate variability trends are as follows:
  - ✓ For the past 10 years or so, the cropping season has become shorter compared with the past, characterized by late onset (late onset of rains on average by two weeks) and early termination of the rains (2 − 3 weeks earlier) and increased frequency of in-season droughts especially in the months of January and February when maize crop reaches critical stages of flowering and grain filling.
  - ✓ The communities are experiencing unpredictable and unstable onset of the rains.
  - ✓ Another characteristic of climate change is erratic rains at onset, longer dry spells averaging three weeks and early termination of rains
  - The communities have also noted an increase in the evolution of insect pests such as fall armyworm, cassava mealy bugs, grasshoppers, caterpillars, cutworms, leaf eaters and suckers among others.
  - ✓ Limited access to weather related information such as early warning since most people in the communities do not own mobile phones and radios which are the most common methods of channelling weather related information to the communities.
  - ✓ Notably, maize monocropping, conventional tillage practices, lack of soil and water conservation structures, use of local crop varieties, limited access to weather related information were among the reasons cited by participants to the FGDs and KIIs that lead to increased vulnerability of the beneficiaries to the effects of climate change.
- Livelihood activities that lead to use of child labour, conflicts at community levels and determine feedback mechanisms for resolving such conflicts:
  - o selling fritters and engagement in farming operations such as weeding, tomato production; piece works in cotton and tobacco;
  - o fishing and herding livestock; in care work among others.
  - o Most common source of intra community conflicts relate to chieftaincy; land issues; water and grazing land; livestock disputes.
- The most appropriate feedback mechanism for the community include: suggestion boxes, clan leaders, community police and social workers, community leaders and traditional chiefs.
- Potential risks of the proposed climate adaptation project and suggested mitigation measures
  - ✓ Women are denied access to and control over proceeds emanating from production. The climate adaptation project could therefore indirectly contribute towards reinforcing gender inequalities Low agricultural production due to frequent drought and dry spells
  - ✓ Climate adaptation activities will continue to systematically exclude the youths

- ✓ Gender based violence e.g. men denying women's participation in decision making over proceeds emanating from production may contribute to HH food insecurity
- ✓ Climate adaptation activities exacerbate the burdens of unpaid care work shouldered by women/increasing the workloads of women who are already overburdened.
- ✓ Actions related to environmental management are not fully embraced by communities due to long term benefits and lack of appropriate incentives
- ✓ Limited access to credit and finance due to lack of collateral, high rate of default, low productivity of agricultural produce and high interest rates
- ✓ Market risks due to limited market access and price volatilities
- ✓ Land degradation due to ownership issues
- ✓ Channels of delivering weather related information do not reach all households in the communities
- ✓ Conflicts on use of water for irrigation as well as conflicts between livestock and winter farming.

## Annex 9: Minimum Standard Operation Procedures (MSOP) For Mini Irrigation Scheme Construction

This Minimum Standard Operation Procedure (MSOP) is designed to guide mini (<3ha) Irrigation Scheme planned to be constructed by The United Nations World Food Programme (WFP) and Cooperating Partners (CP) under FFA (Resilience Building) projects.

#### 1. Site selection/verification

The site to be selected for such mini or micro scale irrigation scheme should have the following minimum principles:

- 1.1 Coverage 3 ha depending on land and water resources availability in planned area based on Community Based Participatory Planning (CBPP) request/recommendation.
- 1.2 Reliable water sources and preferably land owned by many land owners (not only by one person)
- 1.3 Top soil depth of irrigable area about 50 centimeter (cm) or half a meter (0.5m). Also determine the type of soil for crop water requirement.
- 1.4 Slope percentage of the field/area should be less than 4% (four percent)
- 1.5 Not exposed to very high soil erosion (with no or minimum gullies)
- 2. Beneficiary community members and land owner's consultation and agreement must be documented and signed by all parties involved.
- 2.1 Planned Irrigation participants should be consulted and agree on how to use the land and benefit the land owners will be getting from land users. Starting and end dates of the land use for irrigation as well as all terms and conditions should be arranged and agreed.
- 2.2 Memorandum of understanding should be signed between land users and land owners.
- 2.3 Water use access and rights adhering responsibilities with other water users should be discussed and agreed.
- 2.4 All new schemes should establish Irrigation Committee and related memorandum of understanding(MOU) between members, roles and responsibilities of committee members, etc.
- 3. Survey and design
- 3.1 **Surveying**

The planned irrigation land should be surveyed properly based on defined grids. Grids of 20m by 20m could be used, however depending on the topographic nature of the site smaller (less than 20m for non-uniform slope sites) or bigger grids for uniform slope could be deployed.

#### 3.2 Design

Design should indicate:

- > General location of the site/Command Area, locations of boreholes, reservoir stand, panels, general field layout, etc.
- > Details irrigation area field layout.
- Distribution pipe lines (main supply line and secondary pipes).
- > Location of hydrants and other structures.
- > Water control valves, including main valves and individual hydrant or second supply pipeline valves.
- > Crop water requirement, irrigation interval, etc.
- > Solar panel requirement and arrangement
- > Scale and legend

#### 4. Preparation and content of Bill of Quantiles

Based on survey and design, Bill of Quantities (BOQ) should be prepared by the CP and WFP District based staff in collaboration with the District Council Irrigation, Land Resource and Public Works Departments. The BOQ should be detailed and quantified in a tabular form consisting of item no, types of items (type of works to be done, materials, equipment, etc.), unit (specific, not lump sum), quantity, unit price, total cost and remarks.

#### 5. Contract document preparation

The contract document should include background, rationale, objectives, expected outputs and outcomes, activities planned to be implemented, BOQ, specification of items, works, tools and equipment, schedule of work including beginning and end of contract period, roles and responsibilities of all stakeholders including the community, Cooperating Partners (CP), Government (specifically District Council Irrigation Office and Extension Planning Area Offices -EPA) as well as WFP. Terms and condition, obligations, contract termination should also be part of the contract document.

#### 6. Community Contribution

The community could contribute labour and it should be clearly reflected in the contract documents. The main and lateral pipe lines and distribution boxes foundation could be constructed by FFA participants after discussing on the matter and agreed accordingly.

#### 7. Constructions

Main and auxiliary structures of a mini irrigation scheme should include the following among others.

#### 7.1 Water supply sources.

Irrigation water supply sources could be surface water like rivers or ponds, shallow ground water sources, wet lands (*Dambo* areas) and ground water like boreholes. However, the reliability of this sources should be critically assessed, since most of the rivers dry up in June and July including big ones and negatively affects irrigation process/activities. In most of the places the only reliable source is ground water extracted using boreholes. Therefore, the emphasis of this MSOP is on construction of boreholes and related irrigation infrastructures.

#### 7.2 Boreholes

It was thought there is no well documented study of ground water potential for most of the districts in the country, however,the information available indicates that ground water yield is about 2-4 liters per second (I/s), but there are also some areas like Blantyre Domwe irrigation having a discharge of about 10 I/s. The other problem is also availability of high capacity drilling machine, especially drilling diameter. As the ground water potential is not high and unreliable, it requires preliminary assessment of the area and select site with high yielding probability aquifer and start drilling with medium diameter (about 120mm). If there are symptoms of high yield i.e. above 5 I/s then shift to a bigger diameter drill (200mm) and install casing pipe accordingly. The depth of the borehole should be 60-70m. Conduct pumping test and determine the discharge and static water depth. Based on the pumping test, determine pump capacity and related solar power requirement. No borehole to be considered for further development, if the discharge is below one litter per second (1 I/s).

#### 7.3 Submersible pumps and solar panels

Based on the pumping test in section 7.2 above, the right pump commensurate with the discharge rate should be installed and solar power requirement determined accordingly.

#### 7.4 Reservoir

A minimum of 20,000lts capacity reservoir is required for each scheme under consideration. Four 5,000lts capacity each reservoir is preferable.

#### 7.5 Reservoir stands

A reservoir stand made up of concrete bricks and top slab is to be considered. The size of the stand is base, width and length 4.5m and 4.5m with 5m height. The top slab also 4.5m by4.5m with 15cm thickness. The top slap should be waterproofed. The stand could also be used as control unit houses and it will have a wooden and flash door protected by a well secured 0.40x.0.40 square tubing grill door.

#### 7.6 Infield hydraulic farm structures

A network of 65-110mm PVC Class 6 pipes should distribute the water in the field depending on discharge capacity of borehole. The pipes will be spaced at 40m apart and will be connected to the main 80-110mm pipeline from the reservoir by 0.65mx0.65mx0.3m internal measurement offtake structures. Along the 65-110mm pipe lines distribution boxes 0.5mx0.5mx0.3m internal measurement spaces at 20m apart will distribute the water in the farmers' fields.

#### 7.7 Control valves and clearing the site

A control valve should be fitted to each distribution box hydrant. All debris, trenches and holes created during construction of an irrigation system must be cleared, backfilled and compacted to the original level.

#### 7.8 Perimeter fencing

A minimum of 10mx15m perimeter fence to protect the solar panels and control unit house with 2.5mm diamond, flat wrap razor wire on top, reinforced entrance gate with padlock, 75mm corner poles with two support stays, 40/50mm fence support poles and all-round pipes(poles) to be coated with non-rusting material.

#### 8. Management of irrigation scheme under construction

The scheme under construction should be managed by the contractor.

#### 9. Trainings

For successful and sustainable utilization of irrigation schemes, at least, the following two trainings are important:

#### 9.1 Irrigation System operation training

This training should focus on system management including operating the switch board, on and off the system, precautionary measures to start and stop the power, management of valves and other control systems and other related practical training. This training should be provided at least for five members of the community and by the contactor.

#### 9.2 On farm irrigation water and crop management training

This training is again a technical training on water, land crop, etc. management and should be provided to all participating farmers immediately after the completion of the scheme. This focuses on crop water requirement, soil management, crop rotation and related topics. This will be provided by the CP and Extension workers following the completion of the scheme. Both trainings should be provided for all new schemes.

#### 10.Reports

Regular and time bound reports including inception, progress, midterm and completion reports are important for new schemes under construction.

**Inception Report (IP):** After the contract is signed with the competitively selected contractor and the contractor mobilize to the site, an inception report should be prepared and distributed by the contactor. This report includes discussion and agreement reached with the community, site observation, reassessment of land and water resources and other reflections on startup of the project. This must be done by the contactor within 10 working days after the agreement signed with the CP.

**Progress Report**: This report should be prepared and submitted to CP every two weeks starting from the submission date of the IP. This report should have contained progress made on the construction as per the schedule. It should include types and quantities of work done, challenges faced (if any) with possible solutions.

**Midterm Report**: This report should be submitted as a midterm progress report covering what has been done at the mid of contract period based on work schedule. It must be very clear that this is very important to trace where is the project implementation status beads on an agreement made. It will also help to reschedule and speed up implementation and bring on board stakeholders.

Completion Report: This is the final report covering the whole process of planning implementation and achievement made, type and quantity of work, tools and equipment utilized, challenges, faced and action taken, lesson learned, conclusions and recommendations. All reports should be CC to WFP

#### 11. Handing over

After construction, the schemes should be handed over to the community with close follow up and monitoring of CP and government partners.

Annex 10: Specific roles and contributions to the project by each entity

Expected Outcome/Project Component	Expected Concrete Outputs	Contributing Entities	Role
	1.1 Design a weather index micro insurance product for drought and dry spells that can cover farmers needs at scale	MoAIWD	Provide agronomical data for index design Input into field data collection for index design
		DoDMA	Input into field data collection for index design
		EPD	Input into field data collection for index design
		MIA	Input into field data collection for index design Package the index as an insurance product
		DCCMS	Provide historical rainfall and climate data Input into field data collection for index design
	1.2 Raise awareness on weather index insurance among farmers and enable vulnerable farmer access to weather index micro insurance (cash or work)	MIA	Develop education & protection materials Conduct sensitization activities Underwrite the insurance product Organize re-insurance arrangements Support index monitoring Conduct payouts, as needed
Improved access to insurance as a risk transfer mechanism for targeted farmers affected by climate change and food insecurity		MFI (TBD)	Support sensitization activities Act as policy holder, as needed Facilitate payouts, as needed
insecurity	1.3 Strengthen national capacities and systems to provide weather index	MoAIWD	Participate in index design group Engage in the handover strategy development & implementation
	insurance working with the private and public sector	DoDMA	Participate in index design group Engage in the handover strategy development & implementation
		EPD	Participate in index design group Engage in the handover strategy development & implementation
		MIA	Participate in index design group Engage in the handover strategy development & implementation
		DCCMS	Participate in index design group Engage in the handover strategy development & implementation

	1.4 Support the inclusion of insurance (not limited to WII)	MoAIWD	Provide leadership to direct efforts on the inclusion of insurance
	as risk transfer mechanisms in national AG programs and	MIA	Support technically the inclusion of insurance into AG programs and schemes
	schemes	DCCMS	Support technically the inclusion of insurance into AG programs and schemes
Expected Outcome/Project Component	Expected Concrete Outputs	Contributing Entities	Role
Component	2.1 Promote irrigation along with soil and water conservation practices through individual and group asset creation	MoAIWD	Lead on irrigation and soil and water conservation practices
		LG&RD	Support irrigation and soil and water conservation practices through extension officers
	2.2 Promote climate resilient	MoAIWD	Lead on climate resilience agricultural practices
	agriculture among farmers through extension service support	LG&RD	Support climate resilience agricultural practices through extension officers
	2.3 Support crop diversification with a focus on drought tolerant and nutritious crops	MoAIWD	Lead on crop diversification practices
		LG&RD	Support crop diversification practices through extension officers
	2.4 Enhance sustainable ecosystem management with climate resilient farming systems	DCCMS	Provide information on early warning systems
Adopted climate-resilient agriculture		MoAIWD	Lead strategic geographical targeting for agro-forestry systems
practices among targeted farmers contributing to the integrated climate risk management approach		MoAIWD	Provide agricultural data Lead the content creation committee Support PICSA roll out
		LG&RD	Provide input to content creation Support CS activities in the field through extension officers Support PICSA roll out
		DCCMS	Historical climate/rainfall data rescue Production of downscaled seasonal forecast Production of downscaled in-season forecasts Support PICSA roll out Provide input to content creation
		NGO (FRT)	Support PICSA roll out Provide input to content creation Support dissemination through SMS, radio, extension officer
	2.6 Strengthen national capacities and systems to		
	provide these integrated	LG&RD	Participate in capacity and systems strengthening activities

	climate risk management approaches		
	3.1 Strengthen financial capacities and market access opportunities to enhance	MFI	Support VSL and credit  Foster links to agro-dealers
	investment in climate-	RB	Support technically with standards for VSL and credit
	resilience agriculture (including saving, credit, and financial literacy)	NGO (TBD)	Community mobilization
	3.2 Strengthen performance and outreach of farmer	MoAIWD	Co-lead on FO development and technical support
Strengthened market access strategies		MoITT	Co-lead on FO development and technical support
and approaches for smallholder farmers	organizations/cooperatives and enhance their capacity to engage in farming as a business	NGO (TBD)	Community mobilization
	3.3 Support access to storage and aggregating infrastructure for targeted farmers for greater market access, including establishment of rural warehouses	MoAIWD	Support technically and operationally to activities on storage and aggregating infrastructure
		MoITT	Lead technically and operationally to activities on storage and aggregating infrastructure
Expected Outcome/Project	Expected Concrete	Contributing	Role
Component	Outputs	Entities	Role
	3.4 Provider market information to inform business	MoAIWD	Develop & disseminate market information
	planning & activities	MoITT	Lead on business planning activities technically & operationally
Strengthened market access strategies and approaches for smallholder farmers		MoAIWD	Support technically and operationally activities on market access as informed by the contract farming strategy and other relevant government initiatives
		MoITT	Lead technically and operationally activities on market access as informed by the contract farming strategy and other relevant government initiatives
		Private Buyer	Procure from smallholder farmers (their FOs) as informed by the contract farming strategy

#### **Annex 11: PICSA Implementation Plan**

This plan outlines PICSA implementation in Machinga, Zomba and Balaka district under the AF project for period 2020-2025. Other projects in Balaka and Zomba support similar initiative and this project will look for interlinkages and complementarity i.e. BRACC project under WFP support similar initiative in Balaka, M-CLIMES project support similar initiative in Zomba. Currently, the GFCS-APA II is supporting similar initiatives in Zomba and Balaka; however, this project is phasing out this December 2019 therefore there will not be any overlapping. Participatory Integrated Climate Service for Agriculture (PICSA) training and its implementation is planned over the five-year project period. The aspect of sustainability has also been considered in the roll out plan, to enable continuity beyond the project period.

#### 1. Number of Extension Officers to be trained / # of farmers to be trained

Overall, 84 extension officers will be trained over the project period. The 84 extension officers are expected to train a minimum of 23,000 farmers over the five-year project period.

#### 2. ToTs roll out plan

The five-year plan would involve an 'expert trainers' workshop where University of Reading (UoR) in collaboration with the Government and WFP would train national representatives from MoAIWD/DAES, DCCMS, District Council Officers from Agriculture sector, and Cooperating Partners(CP). This initial training would be followed by PICSA training and implementation in the districts over the five years followed by roll out activities. The 'expert trainers' would be key resource persons for the duration of the project and will be able to support continued implementation after the completion of the project.

Each **AF** district would receive a Training of Trainers (ToT) workshop, a 2-day Planning and Review (P&R) workshop in their first year and in subsequent years of project implementation and a 2-day refresher training in their third year and subsequent years of project implementation. Extension Officers (Intermediaries) will roll out the PICSA in the targeted areas after the PICSA ToTs by training (interacting with) farmers. The intermediaries will then convene for the P&R workshop to review the ToTs implementation process; this provides an opportunity to get feedback from extension workers and also for the expert trainers to provide technical support to intermediaries on areas that they had difficulties in the roll out. During P&R, DCCMS provides downscaled seasonal forecast for the respective districts and discussions are held on how best the trained extension workers can communicate the forecast to farmers.

In the first year of project implementation, each extension worker will train at least 3 farmer groups (each farmer group has an average of 20 farmers). In the third year of project implementation, refresher training will be given to the same intermediaries trained in first and second year of project implementation. In the 4<sup>th</sup> and 5<sup>th</sup> year of project implementation refresher training will be given to all extension officers trained. In the second year of project implementation, extension officers will continue to provide support to the farmer groups trained in first year – support to

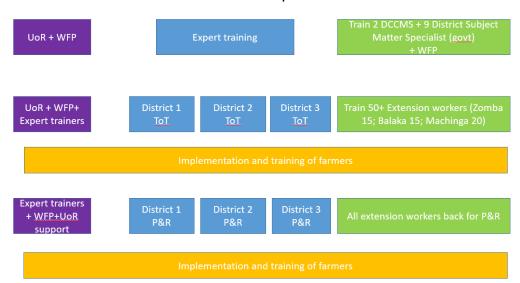
farmers will include taking the farmer groups through PICSA steps particularly areas that they had problems with the previous season and delivering the seasonal forecast and advisories. Additionally, each extension officer will train at least one new group in the second year of project implementation. Similarly, in the third year and other subsequent years of project implementation extension officers will support farmer groups trained in first, second, third, fourth year and additionally train at least one new group where applicable.

PICSA app will be piloted in Machinga district in the first, second and third year of project implementation. 70 extension officers will implement PICSA app.

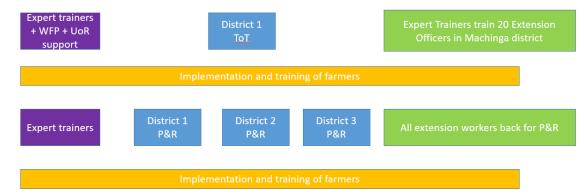
WFP will lead this PICSA process by coordinating the different partners i.e. UoR, MoAIWD/DAES, DCCMS and district level stakeholders, organising the various workshops and supporting monitoring and reporting throughout the process.

Implementation Plan:

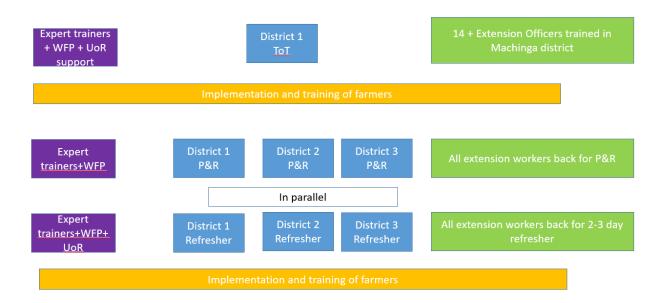
## Year 1 - 2020/21



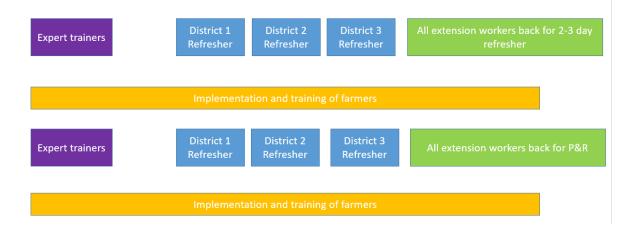
## Year 2 – 2021/2022



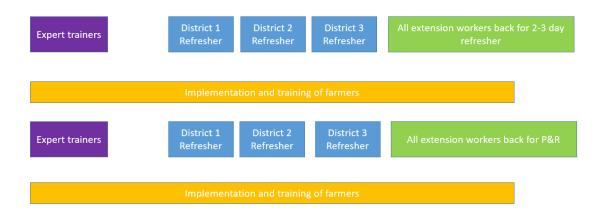
## Year 3 - 2022/23



## Year 4 - 2023/24



## Year 5 - 2024/25



### Learning and support / M&E



#### **Annex 12: PICSA Manual (reduced version)**

Smallholder farmers are key to food security in sub-Saharan Africa where two thirds of the population depend on small-scale, rain-fed farming as their main source of food and income. Critical farming and household decisions depend upon the weather, for example, how much rain falls, the length and start date of the rainfall season and the timing of dry spells. Such aspects of the weather vary considerably from year to year. The Participatory Integrated Climate Services for Agriculture (PICSA) approach aims to facilitate farmers to make informed decisions based on accurate, location specific, climate and weather information; locally relevant crop, livestock and livelihood options; and with the use of participatory tools to aid their decision making.

Considering farming and livelihood options in the context of climate is crucial for making good decisions. A farmer in Matumba village in central Tanzania expressed this notion perfectly when he said, "We should select crops that look like the climate".

The PISCA approach has been designed with field staff in mind and aims to support you to do your job better by providing you with improved resources and information.

This field manual is a step by step guide to working though the PICSA approach with farmer groups. It is primarily for the use of facilitators (e.g. NGO and extension field staff who have received training in the use of the PICSA approach). The PICSA approach is divided into twelve steps to be carried out with groups of farmers. Due to the location specific nature of PICSA there are a number of preparatory activities that need to be completed before field staff are trained in the approach. The details of these activities can be found in the document 'Preparing for PICSA' on the PICSA website (http://www.walker-institute.ac.uk/research/PICSA).

#### The key components of PICSA

1. Providing and considering climate and weather information with farmers - including historical records and forecasts



2. The joint analysis of information on crop, livelihood and livestock options and their risks, by field staff and farmers

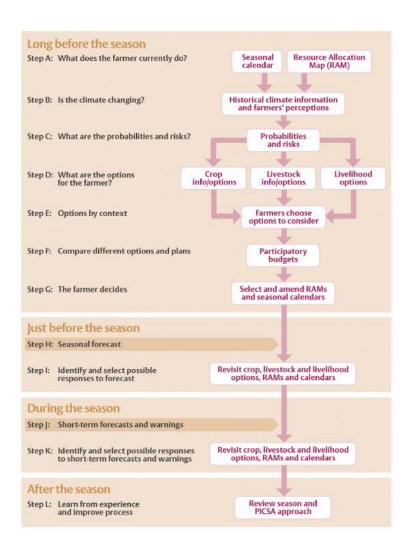


 A set of participatory tools to enable farmers to use this information in planning and decision making for their circumstances



Activity Flow Chart

This activity flow chart provides an overview of the whole PICSA process.



Formatted: Width: 8.5", Height: 11" **Annex 13: Endorsement letter** 

Telephone: +265 1 788 888 Telefax: +265 1 788 093/247 Telex: 44648 Email: epd@malawi.net



MINISTRY OF FINANCE, ECONOMIC PLANNING AND DEVELOPMENT, P.O. BOX 30136, CAPITAL CITY, LILONGWE 3, MALAWI.

Ref. No. EPD/14/12/3

5th August, 2019

The Adaptation Fund Board c/o Adaptation Fund Board Secretariat Email: Secretariat@Adaptation-Fund.org

Fax: 202 522 3240/5

Dear Sir/Madam,

<u>Subject: Endorsement for Adapting to Climate Change through Integrated Risk Management Strategies and Enhanced Market Opportunities for Resilient Food Security and Livelihood.</u>

In my capacity as the designated authority for the Adaptation Fund in Malawi, I confirm that the above selected national project proposal is in accordance with the government's Malawi Growth and Development Strategy III priorities in implementing adaptation activities to reduce adverse impacts of, and risks posed by climate change in Malawi.

Accordingly, I am pleased to endorse the above full project proposal and I recommend it for support from the Adaptation Fund. If approved, the project will be implemented by the World Food Programme with the Ministry of Agriculture, Irrigation and Water Development as the Executing Agency.

Yours faithfully,

Peter K. Şimbani

ADAPTATION FUND NATIONAL DESIGNATED OFFICIAL For: SECRETARY TO THE TREASURY

Сору:

The Secretary for Agriculture, Irrigation and Water Development,

Lilongwe 3.

The WFP Country Director, Lilongwe 3.

Telephone: +265 1 788 888 Telefax: +265 1 788 093/247

Telex: 44648

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Peter K. Simbani

ADAPTATION FUND NATIONAL DESIGNATED OFFICIAL For: SECRETARY TO THE TREASURY

Сору:

The Secretary for Agriculture, Irrigation and Water Development,

Lilongwe 3.

The WFP Country Director, Lilongwe 3.

# PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. Record of endorsement on behalf of the government<sup>1</sup> Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:

Peter K. Simbani, Acting Chief Director, Ministry of Finance, Economic Planning and Development, Department of Economic Planning and Development Date: August 2, 2019

**B.** Implementing Entity Certification Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

Benoit Thiry, WFP Country Director

Implementing Entity Coordinator

Date: August 2, 2019

Tel. +265 1 774 666

Email: benoit.thiry@wfp.org

Project Contact Person: Bernard Owadi

Tel. +2651774666

Email: bernard.owadi@wfp.org

<sup>&</sup>lt;sup>6.</sup> Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.