

# REQUEST FOR PROJECT/PROGRAMME FUNDING FROM THE ADAPTATION FUND

The annexed form should be completed and transmitted to the Adaptation Fund Board Secretariat by email or fax.

Please type in the responses using the template provided. The instructions attached to the form provide guidance to filling out the template.

Please note that a project/programme must be fully prepared (i.e., fully appraised for feasibility) when the request is submitted. The final project/programme document resulting from the appraisal process should be attached to this request for funding.

Complete documentation should be sent to:

The Adaptation Fund Board Secretariat 1818 H Street NW MSN P4-400 Washington, D.C., 20433 U.S.A

Fax: +1 (202) 522-3240/5

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# FULLY DEVELOPED PROPOSAL FOR SINGLE COUNTRY

# PART I: PROJECT/PROGRAMME INFORMATION

<b>Title of Project/Programme:</b> water scarcity in the agriculture sector in	Increasing resilience to climate-aggravated ector in Libya			
Country:	Libya			
Thematic Focal Area:	Agriculture			
Type of Implementing Entity:	Multilateral Implementing Entity			
Implementing Entity:	IFAD			
<b>Executing Entities:</b>	UNOPS			
Amount of Financing Requested:	9,997,156 (in U.S Dollars Equivalent)			
Letter of Endorsement (LOE) signed:	Yes ⊠ No □			
NOTE: The LOE should be signed by the Desimust be on file with the Adaptation Fund. To page: https://www.adaptation-fund.org/apply	find the DA currently on file check this			
Stage of Submission:				
□ This proposal has been submitted before including at a different stage (concept, fully-developed proposal)				
$\Box$ This is the first submission ever of the proposal at any stage				
In case of a resubmission, please indicate the last submission date: 9/5/2022				
Please note that fully-developed prop 100 pages for the main document,				

# **Project Background and Context:**

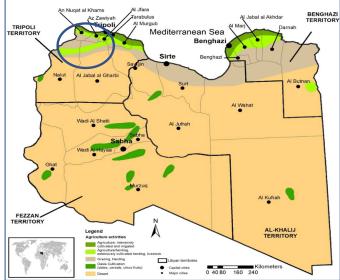
## Introduction project approach

- 1. **Main problem:** Libya has an existing water problem that will be exacerbated by climate change and water demand in the agriculture sector. To avoid the depletion of water resources, heavy investment in desalination and wastewater treatment may be needed. However, this will take time and major funding sources, and the country needs to stabilize its electrical grid first. Until then, fossil water and rainfall in the north will remain Libya's primary sources of water, including for the agriculture sector, and its lifespan needs to be lengthened.
- 2. **Project aim:** the aim of this project is to support maximizing the lifespan (i.e., increasing the sustainability) of available water resources by using water as efficient as possible in the agriculture/ livestock sector, which is the sector consuming most water, while also being the most heavily impacted by and vulnerable to climate change.

### Geographic, social, economic, and environmental context

3. **Population:** Libva has a total population of about 6.8 million (2020),1 of which only 21 percent is rural.

Figure 1 Agriculture areas (in green) in Libya and project target area in the blue circle



Source: Zurgani, Hamdi & Mikhailova, Elena & Post, Christopher & Schlautman, Mark & Elhawej, Azzeddin. (2019). A Review of Libyan Soil Databases for Use within an Ecosystem Services Framework. 10.3390/land8050082.

Geography: 90 percent of Libya is desert. Over Four regions can be distinguished in Libya: (i) the coastal plains; (ii) the northern mountains that run close to the coastal plains and include the Jabal Nafusah in the west and the Jabal al Akhdar in the east; (iii) the internal areas that cover the centre of Libya and include several oases; and (iv) the southern and western mountains. Only the coastal plains are not regarded as desert areas.

- 4. Politics: The political situation in Libya has been complex since the fall of Muammar Qaddafi in 2011. There have been recent transitions, but the UN-brokered road map agreed at the Libyan Political Dialogue Forum in 2021 has faced serious challenges and obstacles. On the short to medium term, the country's political institutions are likely to remain divided and unstable.
- Economy: A combination of political volatility, military conflict, oil output fluctuation has created insuperable challenges in devising and carrying out economic policy. These factors have led to a chronic imbalance between supply and demand for goods and foreign exchange. This was exacerbated by the pandemic in 2020-21 and currently with the crisis in Ukraine, which raises concerns about high food prices and food security. According to the EIU<sup>2</sup>, oil and gas output will remain the main driver of economic growth in 2022-26.
- 6. **Poverty:** It is estimated that the proportion of the population living in multidimensional poverty increased over the past decade while social protection systems remain inadequate to support those most in need. An estimated

<sup>&</sup>lt;sup>1</sup> World Bank data

<sup>&</sup>lt;sup>2</sup> Economist Intelligence Unit: Global Insight

800,000 people are in-need of humanitarian assistance in Libya in 2022, which is a decrease compared to 2021.

- 7. Agriculture: 90 percent of Libya's land area is desert while just one per cent is arable (about 2 million ha see Figure 1), which is further threatened by soil erosion and desertification.<sup>3</sup> The agricultural sector in Libya suffers from several problems, including the lack of government funding, high prices of production inputs such as fertilizers, pesticides and improved seeds, declining areas of arable land due to the population growth and the expansion of the cities, weak agricultural mechanization, the lack of trained manpower, fluctuation in supplies electricity due to instability and, finally, the impact of climate change, especially droughts, sea-level rise and saltwater intrusion and high temperatures. Soil salinity along the coast is already high and is expected to increase in the future due to increasing sea levels. Permanent pastures account for 13.3 million ha, annual crops for 1.72 million ha and permanent crops for only 0.34 million ha.4 In rural areas, 20% of households are engaged in the agriculture sector<sup>5</sup>, often producing crops only for household consumption. Approximately 47 percent of households reported cultivating areas of land of less than one ha; another 45 percent reported areas of 1–10 ha. Tomatoes, peppers, onions, and leafy greens are the most grown crops. Olives and pulses predominate in Al Jabal Al Gharbi (close to Tripoli). In the Fezzan Region (southwestern Libya), barley and fodder cultivation are notable, reflecting the relevance of livestock in those regions. Livestock production predominates in some areas of the interior of the country with 12 percent of the population engaged in the sector, while it is less common along the more urbanized coast. Small ruminants are the most common livestock, with sheep being most frequent, followed by goats. Most of the households involved in livestock production own fewer than 10 small ruminants.
- 8. **Rangelands**: rangelands in North Africa are subject to severe degradation, primarily because of cropping encroachment, which is responsible for 50 percent of rangeland degradation, versus 26 percent accounted for by overgrazing and 21 percent by fuel wood utilization. In the semiarid steppes, vegetation is sparse. The most found species are saltwort (a plant used in making soda ash) and spurge flax (a shrubby plant), while goosefoot, wormwood, and asphodel also are widespread. Annual grasses grow in the rainy season, and leguminous plants appear in years of good precipitation. Only 0.1 percent of the land in Libya is forest. These forest areas are located along the coast.
- 9. Water Resources: With very limited perennial water resources, Libya relies almost completely on non-renewable groundwater resources. There are no permanent rivers in Libya, only ephemeral rivers or wadis. The total renewable water resources are 700 million m³/year constituting 111.5 m³/year per capita in 2015 making Libya an extremely water-scarce country. Around 95.2 percent of water is extracted from groundwater resources and irrigation takes up around 83.2 percent. Five major aquifers underlie Libya namely Al Hamada, Al Jefara, Al Jabal Al Akhdar, Murzuq and Al Sarir-Kufra. The coastal aquifer Al Jefara in the north-west is shallow and naturally recharged from the rainfall. Water scarcity and the population concentration along the north coast triggered the Great Man-made River Project (GMRP) in 1984 aiming to transfer 5-6 million m³/day to the northern cities through over 500 wells. In terms of other water infrastructure, Libya currently has 19 dams in operation with a total storage capacity of about 390 million m³. However, their average annual storage is estimated at less than 61 million m³ due to lower flow records or damage to some dams. In addition, Libya has many desalination plants and the total desalinated water produced in Libya in 2012 was estimated at 70 million m³/year aimed at municipal and industrial water demands and using both thermal and membrane technologies<sup>7</sup>.

<sup>&</sup>lt;sup>3</sup> EU, UN, World Bank, Supporting Peace and Stability in Libya: A Compilation of Existing Analysis on Challenges and Needs, 2019.

<sup>&</sup>lt;sup>4</sup> FAO (2016). AQUASTAT Profile: Libya.

<sup>&</sup>lt;sup>5</sup> FAO Libya Humanitarian Response Plan, 2020

<sup>6</sup> Youngh, S. And Silvern, S. International perspective on global environmental change - Agricultural Technological and Institutional Innovations for Enhanced Adaptation to Environmental Change in North Africa

<sup>&</sup>lt;sup>7</sup> FAO (2016). AQUASTAT Profile: Libya.

Table 1 Water use for agriculture in Algeria, Tunisia and Libya

Country	Total amount used, million m³/year	Agricultural area irrigated (hectares)	Water used per hectare, m <sup>3</sup>
Algeria	313	170,000	10,000
Tunis	95	40,000	15,000
Libya	57	40,000	12,275

Source: Source: African Development Bank (2014) Libya Water Sector M&E Rapid Assessment Report

**Table 2** Libva water budget in 2012

Water Resources	3 Quantity (Mm /yr)	Sector	Water consumption (Mm³/yr)
Groundwater (Gefara plain, Jabal Akhdar, Kufra, Murzuk, Sarir, Hamada)	3,650 (3,000 Non-Renewable, 650 Renewable)	Agriculture	4,850 (83%)
Surface water (Dams, springs)	170	Industry	280 (5%)
Desalination	70	Domestic	700 (12%)
Green water estimate	2,350		
Total	6,240	Total	5,830

Source: Source: African Development Bank (2014) Libya Water Sector M&E Rapid Assessment Report

- 10. Water Quality: Since 2011, the quality and general availability of water services have declined notably due to serious damages caused by armed conflict and lack of security, aggravated by political, economic, and institutional instability, along with continuous cuts in power supply and fuel. There is massive leakage in all parts of the system, illegal connections, unstable supply patterns and poor maintenance. Network losses are estimated to be in the range of 50-70%. In 2020, nearly 438,000 people needed access to safe water, hygiene and sanitation services including displaced people, returnees, migrants, and refugees9.
- 11. Libya had 79 wastewater treatment plants in 2010 for a total capacity of 74 million m<sup>3</sup> designed to produce effluents suitable for irrigation. However, out of the 504 million m<sup>3</sup> municipal wastewater produced in 2012, only 40 million m³ were treated and directly used in irrigation for 2,900 ha10. It is reported that in 2020 only 10 wastewater treatment plants were functioning<sup>11</sup>. Deterioration of the water quality due to untreated municipal wastewater exists. However, the main concern regarding water quality is related to saline intrusion in the coastal aquifers, where both population and agricultural activities are concentrated. The uncontrolled use of groundwater for agriculture and falling water tables in the coastal aguifers, result

<sup>&</sup>lt;sup>8</sup> UN (2018). Libya Joint Country Assessment 2018. Pathways towards a Stable and Resilient Libya.

<sup>&</sup>lt;sup>9</sup> OCHA (2020). Humanitarian Needs Overview 2021: Libya.

<sup>&</sup>lt;sup>10</sup> FAO (2016). AQUASTAT Profile: Libya.

<sup>&</sup>lt;sup>11</sup> OCHA (2020). Humanitarian Needs Overview 2021: Libya.

in seawater intrusion, with an interface progressing up to two kilometres inlands in the Jefara plains and salinity levels increasing from 150 ppm to over 5000 ppm during the period 1950-199012.

12. Gender and Youth: In 2019 the Gender Development Index (GDI) for Libya was 0.98. The index score in the country increased annually from 2015 onwards, indicating worsening gender equality in the fields of education, health, and wealth. The GDI measures the levels of gender parity within societies. It ranges from zero (perfect gender equality) to around one (no gender parity).<sup>13</sup> Due to the crisis, women are now playing a more prominent role in agriculture, one third of households are now estimated to be female headed.<sup>14</sup> Given the relatively high threshold of the official governmental youth category (39 years, compared to 17-35 used by the UN), two thirds of the population is considered as youth<sup>15</sup>. Youth unemployment rates are high, particularly for females (41 percent).

### **Climate Change**

Figure 2 Climate - Aridity Index Libya (left) and Days with Temp. > 32° threshold - Heat Stress (right)



Source: Earthmap

- 13. Current climate: Libya is one of the driest countries in the world; less than 2 percent of the country receives enough rain to support agriculture, and only 5 percent of the country receives more than 100 mm of rainfall per year. Libya's climate ranges from a temperate Mediterranean climate in isolated areas on the Mediterranean coast to a tropical desert climate in the vast majority of the country's interior (i.e., high aridity - see **Figure** 2). The mean annual temperature is 22.67 °C and the mean annual precipitation is 42.46 mm. 16 Heat stress (number of days with + 32°C) is already high in Libya (see Figure 2).
- 14. Trends: While global temperatures have already increased 1.02°C by 2020 above pre-industrial levels in 1880, temperatures in the southern Mediterranean have increased by 1.5°C. 17 Precipitation has decreased to 20.92 mm per month since the 1950's.18

<sup>&</sup>lt;sup>12</sup> FAO (2016). AQUASTAT Profile: Libya.

<sup>13</sup> Statista

<sup>&</sup>lt;sup>14</sup> UNFPA, Libyan Female-headed households – hoping to survive.

<sup>&</sup>lt;sup>15</sup> UN Libya (2022), Common Country Analysis. Link: here

<sup>&</sup>lt;sup>16</sup> World bank climate knowledge portal

<sup>&</sup>lt;sup>17</sup> NASA, 2021; Union of the Mediterranean, 2019 in Adelphi (2021) Climate-Fragility Risk Brief: Libya

<sup>18</sup> Idem

15. **Projections**:<sup>19</sup> The faster-than-average warming trend is set to continue. By 2040 the increase of temperature will likely be 2.2°C and could reach approximately 4°C by the end of the century.<sup>20</sup> The annual precipitation is also expected to reduce, and Libya may lose 7 percent of its rainfall by 2050.<sup>21</sup>

Mean Annual Temperature is expected to rise mid-century (2040-2059)

- SSP1-1.9 Ensemble
   23.69 °C (22.86 °C TO 24.29 °C)
- SSP5-8.5 Ensemble 24.92 °C (24.27 °C TO 25.58 °C)

Annual precipitation is expected to reduce mid-century (2040-2059)

- SSP1-1.9 Ensemble 37.29 mm (10.78 mm to 67.93 mm)
- SSP5-8.5 Ensemble 37.84 mm (10.78 mm to 67.30 mm)

#### Main hazards

**Droughts**: The agricultural areas that depend on rain fed systems (in the north of the country are the areas most affected by climate change. Yields of rainfed agriculture, which are located in the north / along the coast, are already low but risk to be even lower due to increasing risks of droughts (see **Figure 3**), Libya is also faced with desertification, mainly in the Jefara Plain, located **in the north-western part of the country**. Drought aggravates soil degradation resulting from a combination of climate change, vegetation cover loss from overgrazing, groundwater depletion, over-cultivation, and population growth. To give an example: recently, the western highlands of the country were affected by a drought that lasted for four seasons, which led to a severe shortage in the production of the main grains such as wheat and barley (Picture 1), degradation of natural pastures (Picture 2.) It also led to the drying of the olive trees fields which are the main component of the cropping system in those areas (Pictures 3). As shown Figure 4, the likelihood of droughts will increase is the future, as well heat waves.

Picture 2 A field under the rain-fed system, two months after it was planted with barley and wheat (no germination) due to the lack of rain.

Picture 1 An image in the Western Mountain region showing the deterioration of natural pastures.





<sup>&</sup>lt;sup>19</sup> NASA, 2021; Union of the Mediterranean, 2019 in Adelphi (2021) Climate-Fragility Risk Brief: Libya

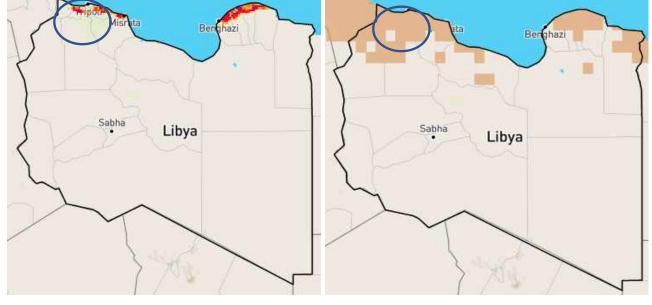
<sup>&</sup>lt;sup>20</sup> Adelphi (2021) Climate-Fragility Risk Brief: Libya

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

<sup>&</sup>lt;sup>21</sup> Idem

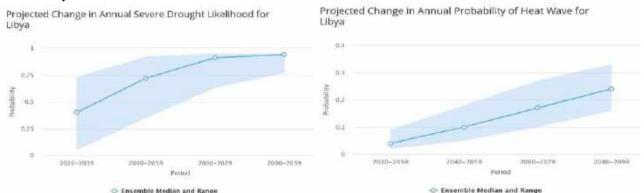


Figure 3 Rainfed cultivated land (left) and drought risk areas (right) in Libya



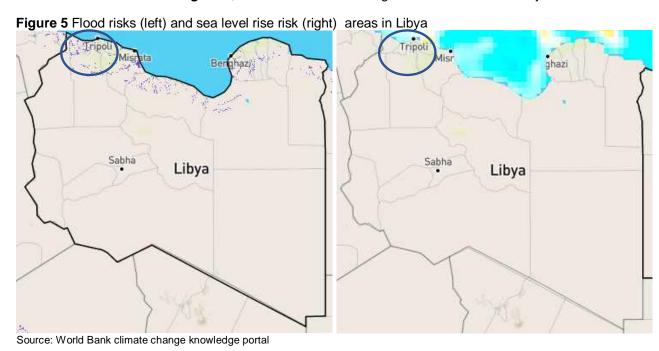
RAINFED, CULTIVATED LAND, YEAR 2000

Source: World Bank knowledge portal



**Figure 4** Projected Change in Annual Severe Drought Likelihood (Left) and Probability of Heat Wave (Right) in Libya under RCP 8.5 between 2020 and 2099.

- 16. Sandstorms and Dust Storms: Strong dry wind blowing over the desert raises and carries along clouds of sand and dust that is often so dense that it obscures the sun and reduces visibility to almost zero. Wind speeds are high, often moving dunes and sometimes wiping out roads in flat, dry regions and halting air and road transportation. Sand and dust storms are also responsible for health-related illnesses resulting from the inhalation of dust and chemical contaminants.
- 17. **Floods**: Flooding is not very common in Libya although flash flooding can be disastrous. In terms of spatial distribution, Libya is considered a flood-prone country with potentially large economic losses<sup>22</sup>. Heavy rainfall during winter often causes flooding in roads and streets within city centers. Occasionally, floods cause loss of life, significant economic damage and loss of crops. Flood damage is aggravated by Libya's poor drainage infrastructure. As shown in **Figure** 5, flood risk areas are along the coast in northern Libya.



18. **Sea Level Rise:** while global sea levels rose between 20 and 24 cm in the 20th century, the rate of sea level rise in the Mediterranean was faster than global averages.<sup>23</sup> Whereas global sea levels rise 2.5 mm a year, in

<sup>&</sup>lt;sup>22</sup> Suwihli, S. (2020). Geospatial Analyses of Seismic Hazards and Risk Perception in Libya. *Theses and Dissertations: University of Arkansas*.

<sup>&</sup>lt;sup>23</sup> Adelphi (2021) Climate-Fragility Risk Brief: Libya

the Mediterranean it is 6.8 mm per year.<sup>24</sup> Depending on how quickly climate change occurs, the sea could rise over 1 meter by the end of the 21st century<sup>25</sup>. As most Libyans live along the coast, most of the population will be affected, as well as agriculture strips along the coast. Sea level rise risk areas are shown in **Figure 5.** 

#### **Climate Change risks and Impacts**

- 19. **Decline in water availability and quality:** As mentioned above, Libya already suffers from severe water scarcity and its water demand is far greater than its renewable supply. Climate change is expected to cause a decline in annual precipitation thus decreasing water availability. An anticipated increase in annual drought days on the coast from the current 101 to as many as 224 within the next four decades is expected to also put significant stress on all water sources. Saltwater intrusion into renewable aquifers due to sea level rise also will affect the water quality in those aquifers. The water from the Great Man-Made River project, which feeds Libya's agriculture, cities, and industry, is from non-renewable aquifers that cannot be recharged by rain<sup>26</sup> and are over 500 meters below the surface, leading to high pumping costs.
- 20. **Lower agricultural and livestock productivity:** Agricultural productivity is already hindered by the limited renewable water resources and poor soil quality. Projected annual temperature increases and reduced precipitation and water availability may lead to crop yield reduction of 30 percent in 2060. According to FAO<sup>27</sup>, managed pasture (i.e., gras), rice and wheat may reduce between 2020 and 2032 as follows:

Managed pasture (i.e., gras) from -6% (2020) to -26% (2032)
Rice from +0.6% (2020) to -20% (2032)
Wheat from -6% (2020) to -9% (2032)

- 21. While rain-fed cultivation is dominant in sparsely populated (semi)arid areas, larger-scale agriculture in the Mediterranean region is dependent on irrigation from non-renewable aquifers. The expected increase in both temperatures and number of drought days will lead to higher extraction rates from these aquifers while rain-fed agriculture and pastoralism may no longer be viable for the rural populations of semiarid Libya. Projected increases in the frequency of extreme weather events such as floods, sandstorms, and dust storms are likely to damage fields and irrigation infrastructure and further reduce crop yields. Seawater intrusion due to sea level rise is also expected to increase soil salinity and thus affect agricultural production<sup>28</sup>.
- 22. **Deterioration in coastal areas:** With around 86 percent of the population of Libya living in coastal cities, many Libyans are vulnerable to even slight sea level rise. Due to rising sea-levels, Libya could lose between 3.2 and 12.8 km² due to submergence and between 0.31 and 1.9 km² due to erosion by the end of the century. The number of people affected by flooding would vary between 3.7 and 131.2 thousand per year. Floods due to increased rain intensity on the coast may increase the rate of coastal erosion and damage drainage and piping infrastructure. Flooding from sea level rise and storms could also salinize soils and renewable aquifers along the coast. As most of the population, agriculture, and industrial activity are centred on the coast, salinization of soils, freshwater contamination and infrastructure damage pose a great risk to the economy. The sea level rise projected by 2100 could cost the country an estimated \$1.7 billion.<sup>29</sup>
- 23. Increase in diseases: Health service capacity in Libya has deteriorated due to the ongoing conflict and already suffers from dependence on foreign health workers, an insufficient primary care network, neglected services in rural areas and damage to or inaccessibility of existing health facilities. The projected increase in temperature coupled with the damage to critical water infrastructure will likely increase cases of water-borne illness. In addition, the increase in frequency and duration of heat waves could also lead to heat-related deaths. Increases in dust storms and sandstorms could increase prevalence of illnesses resulting from increased exposure to sand, chemical contaminants, or related particulates, as well as further aggravate existing respiratory

<sup>26</sup> USAID (2017). Climate Change Risk Profile: Libya. Fact Sheet.

<sup>&</sup>lt;sup>24</sup> Adelphi (2021) Climate-Fragility Risk Brief: Libya

<sup>&</sup>lt;sup>25</sup> Idem

<sup>&</sup>lt;sup>27</sup> FAO <u>CARD</u>

<sup>&</sup>lt;sup>28</sup> Ibid.

<sup>&</sup>lt;sup>29</sup> UN (2019). United Nations Strategic Framework for Libya 2019-2020.

- conditions. Although Libya is reliant on imports for much of its food, the predicted decline in agricultural productivity due to climate change as mentioned above could result in increased food insecurity and malnutrition and thus negatively impact human health<sup>30</sup>.
- 24. In short, Libya is already water stressed and rising temperatures, saltwater intrusion and the fact that the National Strategy for Integrated Water Resources Management (2000 2025) (NSIWRM) is quite old leads to inter-communal competition over water resources. Libya may be unable to provide water to its population in the future with the prospect of water exhaustion threatening the agricultural sector.<sup>31</sup>
- 25. Thus, Libya has a major water problem. It will need to invest heavily in desalination and wastewater treatment to have any chance of managing its future water needs. This will take time and the country first needs to stabilize its electrical grid. Until then, fossil water will remain Libya's primary source of water and its lifespan needs to be lengthened. The most effective way to do so is to rationalize water use in agriculture and to adapt to dryer and saltier conditions, including by introducing salt and drought resilient crops.
- 26. Livestock already faces challenges due to lack of veterinary services, vaccines, and medicines as well as lack of access to fodder and animal feed. The livestock sector will be negatively affected by climate change due to rising temperate and related declining water availability and increase of animal diseases. Therefore, increasing the adaptive capacity of the sector through climate-resilient rangeland interventions benefitting pastoralists will be key in supporting the livelihoods of the target communities.

#### Climate change adaptation options in Libya

27. Libya has not developed any national strategies on climate change or any national communications to the UNFCCC. Hence, the climate change adaptation and mitigation priorities in Table 3 are adapted from the United Nations Strategic Framework for Libya (2019-2020) and 2023-2025 (with a focus on increasing climate change resilience to water scarcity and environmental degradation. The proposed project is also in line with IFADs country strategy note for Libya and IFADs Adaptation framework. Activities identified as being relevant for this project are shown in the rights column of **Table 3**.

**Table 3** Possible climate change adaptation measures in Libya

Table 3 i ossible climate change adaptation mea	<b>,</b>
Proposed adaptation measures from the United Nations Strategic Framework for Libya	Relevant for this project
Build capacity in terms of data generation and utilization with direct link to disaster risk reduction and climate change action.  Support the development of a National Climate Change Adaptation Framework;  Advocate for the mainstreaming of disaster and climate risk management into Libya's national development framework;	Conduct a climate change risks and vulnerability assessment in vulnerable areas (i.e., areas with high share of agriculture / livestock land and vulnerable groups)  Support the development of a National Climate Change resilient agriculture strategy  Mainstream climate change risks and vulnerabilities into the National Climate Change resilient agriculture strategy
Mobilise policy expertise for orientation and guidance in terms of policy design and technical interventions, also including disaster risk reduction-related support;	See above. Include research institutions / universities
Promote Climate Smart Agriculture (CSA) practices across agricultural areas;  Strengthen the management of natural resources, particularly water, land and biodiversity;	Promote efficient irrigation technology and climate smart rangeland interventions, including efficient technologies for soil and water conservation and management to minimize runoff and soil erosion and improve water retention and infiltration.
Enhance the protection of arable land and shifting to crops that can resist heat waves / droughts is required;	Identify hazard risk areas and avoid further development in these risk areas; Shift to heat and drought resilient and salt resistant crops
Increase resilience of vulnerable populations to environmental risks and climate change.	Target smallholder farmers / pastoralists, women (female headed households) and youth; income generation activities

<sup>&</sup>lt;sup>30</sup> USAID (2017). Climate Change Risk Profile: Libya. Fact Sheet.

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<sup>31</sup> Adelphi (2021) Climate-Fragility Risk Brief: Libya

Bo:	x 4 Details of main climate change adaptation practices and products relevant for this project
	Soil and water conservation / harvesting and use: 'in arid areas, rainfall is rare, unpredictable, and sometimes comes in unexpected violent bursts causing erosion and floods, and quickly evaporating under the dry and hot conditions of the arid environment. Based on experiences in the region, options exist to revive, enhance and promote an old indigenous practice of collecting (harvesting) the runoff water for subsequent use. To retain water, farmers generally use small circular or semi-circular basins or bunds around the trees or the plants. Soil is assembled and raised in such a way as to make a barrier to hold the water, which is therefore collected and made available for agricultural or domestic uses. Water harvesting (WH) proved effective for replenishing the soil water reserve and for the establishment and maintenance of vegetation cover, trees, shrubs or other crops for various uses. Larger catchments are similarly arranged to harvest water and exploited in arid areas by sheep herders to sustain rangeland species. Water harvesting not only provides a much-needed additional source of water for drinking or growing plants for feed and food, but it also raises soil moisture, reduces soil erosion, and contributes to Carbon sequestration and improved soil quality.' This approach can be combined with supplemental irrigation, when only used during critical times.
	<b>Salt resistant crops:</b> 'while water harvesting and supplemental irrigation are effective technologies for augmenting and enhancing the value of freshwater resources, these resources are still too limited to cope with the increasing rural and urban user demands that are further exacerbated by unabating climate change. However, there is a potential for other avenues for additional water sources, including brackish water, saline water, and treated wastewater. As wastewater treatment is not a feasible option under this project, using salt resistant crops is a feasible and cost-effective way to address the issues. Where possible, salt resilient crop varieties will be introduced of crop species already in use.
	<b>Drought and heat resilient crops:</b> where feasible, drought and heat resilient crop varieties will be used to reduce water demand.
	Integrated crop-livestock-rangeland production systems: Where feasible, this project will support an approach of integrated systems of crop-livestock-rangeland production systems, including consideration of mobile or transhumant grazing practices that reduce the risk of having insufficient forage in any location, investment in aforementioned water conservation / harvesting and diversification of crops and livestock (agropastoralism). This could include e.g. cactus to rehabilitate degraded rangelands. In some countries in North Africa, cactus is successfully associated with water harvesting structures. In combination of well-designed ridges and cactus, farmers are able to meet a large proportion of their fodder requirements. Cactus crop is easy to establish and to maintain and has various utilizations. It produces good quality fruits; it is an excellent fodder; cactus young cladodes (nopalitos) are used as vegetable.
	<b>Promoting community-based organizations and empowerment:</b> The project intends to fully involve relevant institutions and various groups and to empower these. This will be done by supporting community-based planning and decision-making by organizing farmers, pastoralists and women and by involving representatives from authorities and, where possible, researchers. The objective is to develop community development plans which include agreements about operation and maintenance of project activities. The plans should allow for the recognition of local and specific groups present in the areas now-how and equal distribution of project benefits.

#### Main National barriers identified to adapt to climate change

28. Table **4** provides an overview of the main National barriers identified<sup>32</sup> to adapt to climate change in Libya. In the right column it is explained whether or not addressing these barriers will be the focus of this project.

Table 4 Main National barriers to adapt to climate change in Libya

ı ab	able 4 Main National barriers to adapt to climate change in Libya					
	Main issues / barriers identified	Focus of this project		Explanation / Justification		
	Lack of available information on climate change risks and vulnerabilities Limited government and population awareness to understand climate-related hazard risks and vulnerabilities and capacity to respond Non-existing policy framework / strategies on climate change			Focus on vulnerable agriculture / livestock sector with identification of hazard risks and how to adapt to these;		
	Weak government coordination on climate change			Focus of FAO programming with coordination mechanism to be established		
	Limited funding capacities to implement adaptation options High poverty rate Dependency on oil economy Dependence on fresh water from aquifers and the Man-Made River project (with high pumping costs, potential depletion and saltwater intrusion) and underdevelopment desalination and wastewater treatment			Focus on poor and vulnerable groups. Strengthen the agriculture / livestock sector, which is the most important sector after oil, while a high-water consuming sector, with no regret interventions. Support lengthening the lifespan of available fresh water sources through efficient water use for agriculture and livestock sector. Potential desalination and wastewater treatment activities to be done by development banks and after improvement of the national power grid		
	Limited technical capacities to implement and maintain adaptation options			Focus on increasing capacities to implement (operate, maintain and sustain) and replicate adaptation options		
	Limited generation and dissemination of relevant knowledge and learning on climate change resilient practices, products and technologies and to replicate these at national, district and community level			Focus on establishing a mechanism to capture and disseminate relevant knowledge and learning on climate change resilient practices, products and technologies and to replicate these as well as developing a National Climate Change resilient agriculture strategy		

#### Climate change vulnerabilities and justification to select project target area

- 29. Libya is ranked 125 (out of 182) on the country ND Gain index, which summarizes a country's vulnerability to climate change and other global challenges in combination with its readiness to improve resilience, 93 (out of 182) on the vulnerability index and 170 on the readiness ranking.<sup>33</sup>
- 30. Although the proportion of households in Libya engaged in agriculture is the highest in the districts Wadi Ashshati and Sebha (see **Figure 6**), some of the districts most food insecure are located in the north-west of Libya (see Figure 7), besides those in the south (Marzug and Alkufrah). The districts in the north-west can be regarded as highly vulnerable because they are not only highly food insecure, but also face climate change-related risks/ impacts of droughts (see **Figure 3**), floods, sea level rise (see **Figure 5**), including salt water intrusion, while being the areas most dependent on rainfed agriculture (see **Figure 3**). The northwestern

<sup>32</sup> IFAD Country Strategy Note for Libya 2022 - 2024

<sup>33</sup> https://gain.nd.edu/our-work/country-index/rankings/

districts are also the most populated districts, as shown in are relatively safe and well accessible.

Figure 8. Further, the districts in the northwest

Figure 6 Proportion of Households in Libya Engaged in Agriculture (2019)

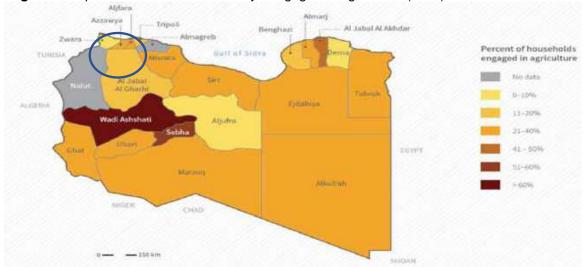


Figure 7 Prevalence of household in Libya with food insecurity



Source: FAO Libya Humanitarian Response Plan 2020

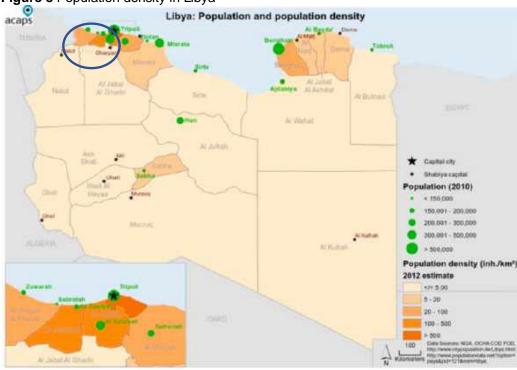


Figure 8 Population density in Libya

Source: Assessment Capacities Project (ACAPS)

31. The final selection of target districts are those in the north-west of Libya, including:

Table 5 Selected project target districts.

Target districts	Focus concrete interventions
Zuwara	Climate change resilient crops
Aljfara	
Nalut	Climate change resilient rangeland interventions
Al Jabal al Gharbi	

- 32. For the climate change vulnerability assessment and climate change resilience strategy (component 1), the districts with main agriculture areas as shown in **Figure 1** are included as well. These are: Benghazi, Al Marj, al Jabal al Akhdar and Damah in the northeast (4 districts) and Wadi al Shale, Wadi Al Hay, Sabha and Murzug in the south (4 districts).
- 33. A rapid climate change vulnerability assessment has been conducted in four target districts in the north-west of Libya. As further described in section II.H. districts and municipal-level representatives have been surveyed, including women, youth and farmer representatives. A summary of the results is shown in Outcomes of the rapid climate change vulnerability assessment conducted.
- 34. Table 13. The table provides insight in population / beneficiary numbers, including the percentage of women, youth and farmers and their economic situation (i.e., poverty and average income. Besides that, the main climate change stressors / hazards have been identified, the main effects of these on the communities, barriers for adaptation action and adaptation options.
- 35. A detailed climate risk analysis including predicted impact on some crops in the target areas is available in annex 5.

#### Detailed information on the project target areas

36. **Table** 6 provides an overview of the number of farm areas (hectares) and number of farmers in the project target areas. The average size of owned land per farmer is estamited at 4.72 ha and the percentage of females farmers is estimated at 13 percent. For details on cultivated and produced trees and crops, see annex 4.

Table 6 Farm area (hectares) and number of farmers (male and female) affected by the saltwater intrusion and

drought in the districts of Nalut, Al-Jabal Al-Gharbi, Zwara, Al-Jafara, Al-Zaweya.

Name of the district	Area of Farms (ha)	Number of Farmers (own private farm land)			
Name of the district		Male	Female	Total	
Nalut	30074	4932	256	5188	
Al-Jabal Al-Gharbi	89096	14069	954	15023	
Zwara	72299	14976	1220	16196	
Al-Jafara	154349	33647	3185	36832	
Total	345818	67624	5615	73239	

Source: - Bureau of Statistics and Census, 2007.

37. **Table** 7 provides an overview of the farm animals in the project target areas. Sheep are by far the animals most held, followed by goats and camels.

Table 7 Numbers of farm animals in the districts affected by the saltwater intrusion and drought in the districts of Nalut, Al-Jabal Al-Gharbi

Name of the district	Sheep	Goats	Camels
Nalut	148430	70802	6161
Al-Jabal Al-Gharbi	268807	98550	5843
Zwara	200316	40329	10523
Al-Jafara	612642	53194	10211
Total	1230195	262875	32738

Source: - Bureau of Statistics and Census, 2007.

38. Table 8 provides an overview of the water requirements for agriculture crops and fruit trees in Libya. Chickpeas consume the least, followed by fresh beans, dry peas, winter tomatoes, wheat and barley. Alfalfa and citrus trees consume most water.

Table 8 Water requirements for agricultural crops and fruit trees (cubic meters per hectare per year)

Crop	Ministry of Agriculture estimates	Estimates from other sources.	Mean
Wheat	4800	7000	5900
Barley	4800	7000	5900
Corn	10000	11000	10500
Millet	8000	11000	9500
Tobacco	7000	-	7000
Peanuts	9000	11000	10000
Alfalfa	12000	23500	17250
Sesame	7000	-	7000
Chickpeas	4000	-	4000
Fresh beans	4800	-	4800
Dry Peas	4800	-	4800
Spring potatoes	4800	8000	6400
Onion	8000	-	8000
Cabbage	8000	-	8000
Water Melon	10000	12000	11000
Pepper	10000	-	10000
Winter tomatoes	4800	6000	5400
Summer tomatoes	9000	10000	9500
Aubergine	10000	1	10000

Citrus trees	13800	18500	16150
Olive trees	8000	-	8000
Date Palm trees	10000	-	10000
Grapevine trees	9000	-	9000

Source: Ministry of Agriculture.

39. Table 9 and Figure 9 provide an overview of the areas / municipalities most affected by saltwater intrusion in the regions of Zuwara and Al-Jafara. Out of the 16 municipalities affected, most affected ones are highlighted in green due to proximity to the sea.

Table 9 Municipalities most affected by the problem of saltwater intrusion in Zuwara and Al-Jafara regions

Number on the map	Name of the municipality	Number on the map	Name of the municipality
1	Zelten	9	Al-Zaweya
2	Zuwara	10	Al-Nasereya
3	Regdaleen	11	Al-Amereya
4	Al-Jamail	12	Al-Zahra
5	Al-Ajailat	13	Al-Mamora
6	Sebrata	14	Al-Maya
7	Sorman	15	Ganzur
8	Al-Zaweya Al-Gharb	16	Al-Sawani

Figure 9 Municipalities most affected by the problem of saltwater intrusion in Zuwara and Al-Jafara regions.



40. Table 10 and Figure 10 provide an overview of the areas / municipalities most affected by drought in the regions of Zuwara and Al-Jafara. The ones highlighted in green are most affected due to low levels of rain and groundwater.

Table 10 Municipalities most affected by the problem of drought in Zuwara and Al-Jafara regions.

Number on the	Name of the municipal	lity
map	rianic of the manicipal	nty

1	Al-Azezeya
2	Al-Zaweya Al-Janub
3	Al-Jalaida

Figure 10 Municipalities most affected by the problem of drought in Zuwara and Al-Jafara regions.



41. Table 11 and Figure 11 provide an overview of the areas / municipalities most affected by drought in the region of Nalut. The ones highlighted in green are most affected due to low levels of rain and groundwater.

Table 11 Municipalities most affected by the problem of drought in Nalut region.

Number on the map	Name of the municipality
1	Wazen
2	Nalut
3	Al-Hawamed
4	Baten Al-Jabal
5	Kabaw
6	Al-Haraba
7	Seanawen
8	Derj

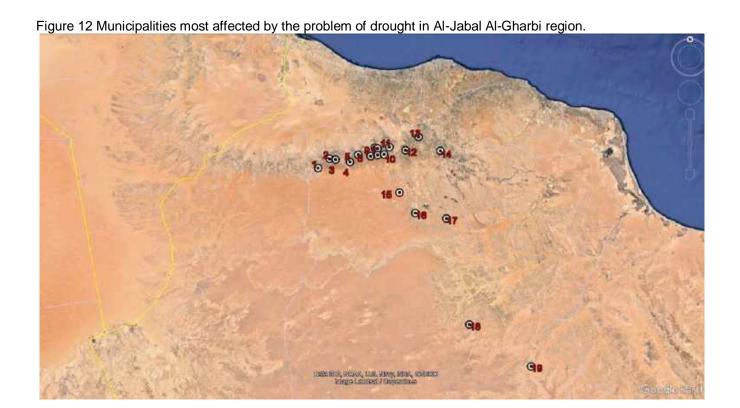


Figure 11 Municipalities most affected by the problem of drought in Nalut region.

42. Table 12 and Figure 12 provide an overview of the areas / municipalities most affected by drought in the region of Al-Jabal Al Gharbi. The ones highlighted in green are most affected due to low levels of rain and groundwater.

Table 12 Municipalities most affected by the problem of drought in Al-Jabal Al-Gharbi region.

Number on the map	Name of the municipality	Number on the map	Name of the municipality
1	Al-Rohaibat	11	Kekla
2	Jadu	12	Al-Assabaa
3	Al-Rujban	13	Gerian
4	Al-Zentan	14	Al-Orban
5	Al-Rayayena	15	Al-Shagaiga
6	Al-Owaineya	16	Mezda
7	Dhaher Al-Jabal	17	Nessma
8	Yefren	18	Al-Garyat
9	Al-Gelaa	19	Al-Shwairef
10	Al-Gawaleesh		



#### Outcomes of the rapid climate change vulnerability assessment conducted.

Table 13 Outcomes of Rapid climate change vulnerability assessment in target districts

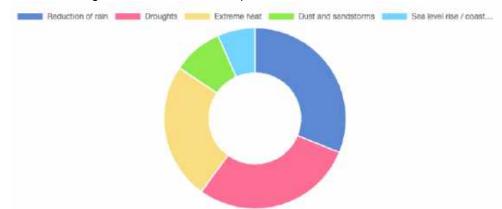
				N.		_	1		0/ Other	1		Main making dua ta	Day		A doutation actions
Baladiyats	Population		%	%					% Other		ressors and	Main problems due to	Bai	riers	Adaptation actions
			youth	tarmers	poverty	income	Agrı-	Live-	Income /	на	zards	stressors / hazards			needed
		rural					cult		specify						
Zuwara	Avg HH: 5.3 with approx 6 for rural	49.41	40	of which 7.5 % women		200 USD	4		1% of people can benefit from financial services (savings, credit, insurance, remittances)	1. 2. <b>3.</b>	Droughts Reduction of rain Sea level rise (salt water intrusion)	<ul> <li>Decreased access to safe drinking water</li> <li>Lack of water for cattle</li> </ul>	-	Lack of knowledge Lack of plans	<ul> <li>Water harvesting</li> <li>Drought resilient crops</li> <li>Rangeland management</li> <li>Early warning systems</li> </ul>
Aljfara	693 750 Avg HH: 5.7 with approx 6 for rural	49.03	35	of which 8.7 % women		115 USD	40		5% government Jobs + self- employees (privet trade and marketing) and 33% free business	1. 2. 3. 4.	Droughts Reduction of rain Extreme heat Sea level rise (salt water intrusion)	<ul> <li>Overall decreased         agriculture</li> <li>Lack of water for cattle</li> <li>Decreased access to safe         drinking water</li> </ul>	-	Lack of knowledge Lack of money/ poverty Lack of plans	<ul> <li>Water harvesting</li> <li>Drought resilient crops</li> <li>Rangeland management</li> <li>Trainings</li> </ul>
Nalut	87 772 Avg HH: 5.9 with approx 6 for rural	48.88	35	35 of which 5 % women		150 USD	35			1. 2. 4.	Droughts Reduction of rain Extreme heat	<ul> <li>Loss of arable land or degradation rangeland due to desertification</li> <li>Damage to crops</li> <li>Reduced groundwater</li> </ul>	-	Lack of knowledge Lack of information	Well water quality protection     Drought resilient crops     Better plans     Efficient irrigation
Al jabal al Gharbi	288 944 Avg HH: 5.9 with approx 6 for rural	49.48		30 of which 6.3 % women		150 USD	25		55% private business	1. 2. 5.	Droughts Reduction of rain Extreme heat	<ul> <li>Lack of water for cattle</li> <li>Loss of arable land or degradation rangeland due to desertification</li> <li>Reduced groundwater</li> <li>Decreased access to safe drinking water</li> </ul>	-	Lack of knowledge Lack of money/ poverty Lack of plans	Well water quality protection     Drought resilient crops     Better plans     Efficient irrigation
Total	1 340 019														

<sup>\*</sup>Remark: In some areas (in the municipalities of Janzour and Suani Ben Adem, People have noticed a change in the taste of drinking water, which is believed due to the rise in sea level. Fresh water sources are gradually becoming salty. In Nalut it was noticed that a large percentage of the households is female-headed. This shows an opportunity to target female-headed households as one of the main beneficiary groups.

- 43. The number of farmers is especially high in Nalut, while the percentage of female farmers is highest in Aljfara. The percentage of people living in poverty ranges between 10 and 30 percent, while the average income is around USD 150 per month.
- 44. The technologies currently used for irrigation are immersion, drip irrigation, while relying on rainwater and sea-water (desalinated).

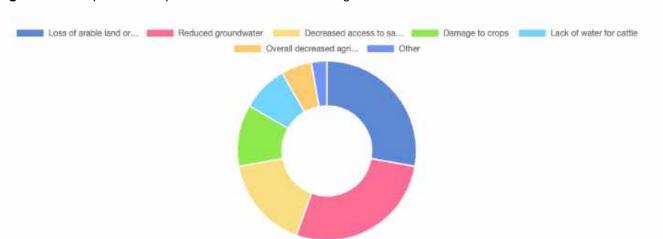
- 45. The type of crops cultivated include mainly wheat and barley. Tree types include olive, figs and palms. Onions, cucumbers, tomatoes, peppers and animal feed are also grown.
- 46. As for organizations, there are agricultural and animal breeders associations, women and youth associations as well as a cooperative specialized in the field of olives.
- 47. The main climate change stressors / hazards identified are droughts, reduction of rain, extreme heat and sealevel rise resulting is saltwater intrusion and dust / sandstorms. There has been some reporting on floods. It is clear that droughts and a reduction of rain are the main issues, while saltwater intrusion due to rising sea levels (and overextraction of groundwater) can be linked to reducing quality of water and the related priority action of protecting water quality (see Figure 16)

Figure 13 Main climate change stressors / hazards experienced



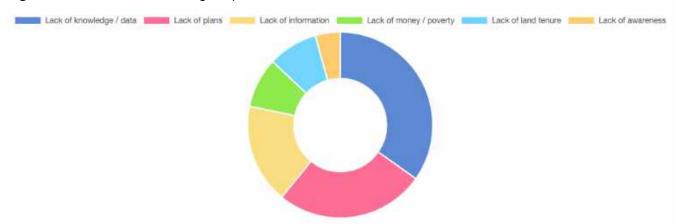
48. The main problems experienced due to the climate change stressors / hazards include loss or arable land, reduced groundwater, decreased access to safe drinking water, damaged crops, lack of water for cattle and an overall decrease of agriculture production.

Figure 14 Main problems experienced due to climate change hazards



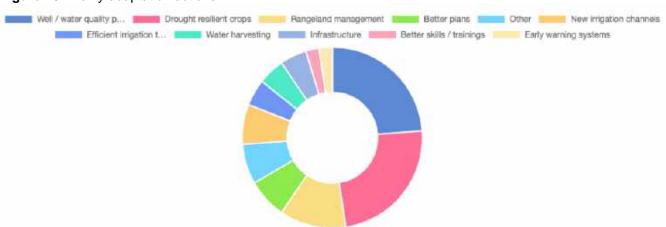
49. The main barriers for taking adaptation action include a lack of knowledge and data, a lack of plans, a lack of information, a lack of money /poverty, a lack of land tenure and a lack of awareness. It is clear that there is a need for knowledge and information to respond to the main climate change hazards, including risks (areas) and options to respond. A lack of tenure is an issues for people who want to grow crops but don't own the land.

Figure 15 Main barriers for taking adaptation action



50. Adaptation actions required include well / water quality protection / improvement, drought resilient crops, rangeland management, better plans, efficient irrigation, water harvesting, training and early warnings. The main priorities are introducing drought resilient crop varieties (of already existing crop varieties), rangeland management and dealing with contaminated water. This contamination can be saltwater intrusion or pollution. As for water getting saltier, the introduction of salt resilient crops (of already existing crop varieties) could be a solution besides protecting clean wells.

Figure 16 Priority adaptation actions



51. The main concerns respondents have include a lack of maintenance arrangements, possible conflict over access of services, Potential non-equal access to service, a lack of participation /involvement and safety issues during construction. The main maintenance arrangements have been agreed upon. There is a clear concern about equal access and participation. Therefore, a community-based organization and plans are needed, where all group are involved. This will be combined with grant packages specifically allocated to vulnerable groups in an equal manner.

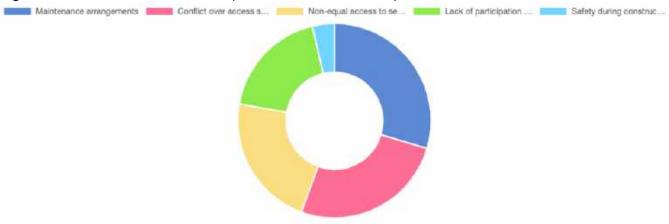


Figure 17 Possible concerns when adaptation actions would be implemented

## **Project objectives**

- 52. As mentioned earlier, Libya has an existing water problem that will be exacerbated by climate change. To avoid the depletion of water resources, heavy investment in desalination and wastewater treatment is needed. However, this will take time and major funding sources, and the country needs to stabilize its electrical grid first. Until then, fossil water and rainfall in the north will remain Libya's primary sources of water and its lifespan needs to be lengthened.
- 53. The aim of this project is to support maximizing the lifespan (i.e., increasing the sustainability) of available water resources by using water as efficient as possible in the agriculture / livestock sector, which is the sector consuming most water, while also being the most heavily impacted by and vulnerable to climate change.

#### 54. Overall goal:

☐ Increasing the climate change resilience of the agriculture sector to water scarcity in Libya.

#### 55. Overall objective:

☐ Enable the government and vulnerable groups to adapt to climate change in the agriculture/ livestock sector, and especially to water scarcity and land degradation

Table 14 Main climate change adaptation issues/ barriers and proposed project response/ sub-objectives

IV	ain issues / barriers identified		Proposed response / sub-objective	Proposed project component
	Lack of available data / information on climate change risks and vulnerabilities Limited government awareness to understand climate-related hazard risks and vulnerabilities and capacity to respond Non-existing policy framework / strategies on climate change	1. In I	Increase the awareness of public institutional staff, farmers / pastoralists and women groups of relevant climate change hazard risks and adaptation options and priorities for the agriculture / livestock sector and improved mainstreaming of this information into planning processed	Component 1
	Limited funding capacities to implement adaptation options High poverty rate Dependency on oil economy Dependence on fresh water from aquifers / the Man-Made River project (with high pumping costs and potential depletion and saltwater	3.	Increase the climate change resilience and sustainability of agriculture livelihoods, including strengthened socurces of income and ownership of adaptation measures, benefitting farmers, women and youth in four (4) districts in the northwest of Libya  Increase the climate change resilience and sustainability of pastoralist livelihoods, including	Component 2 and 3

intrusion) and underdevelopment desalination and wastewater treatment Limited technical capacities to implement and maintain	increased natural / asset resource production system resilience and ownership of adaptation measures, benefitting pastoralist and women in two (2) districts in the northwest of Libya	
adaptation options  Limited generation and dissemination of relevant knowledge and learning on climate change resilient practices, products and technologies and to replicate these at national, district and community level	<ul> <li>In line with AF outcome 3 and 6</li> <li>4. Climate change resilient practices and products piloted in the four (4) districts in the northwest of Libya and encouraged / supported for replication in one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south through a national – district – community replication mechanism</li> <li>*In line with AF outcome 8</li> </ul>	Component 4

- 56. **Key assumptions:** Achieving these objectives is based on a number of assumptions. The main assumption in the Libyan context is that any emerging issues related to the political and security situation do not negatively impact the project's execution or cause instability in the project target areas. Similarly, the project assumes that targeted communities have the incentive to collaborate with the project to increase their adaptive capacity and no intra-communal conflict would interfere with the project's progress based on win-win solutions provided by the project. The project also assumes that the political will to develop the climate change policy environment and institutions in the agriculture sector will remain. To achieve gender mainstreaming throughout the project, the project is assuming that traditional views of women's role in family and society can be changed through tailored interventions and a strict targeting strategy.
- 57. The project assumes that despite capacity challenges in the country, sufficient and capable executing service providers trusted by communities and able to operate in the target districts after obtaining the necessary security clearances. Given the current global macro-economic situation and predictions, the project assumes that the budget provided for each output will remain sufficient to reach the number of beneficiaries estimated during the project's lifetime. This includes inflation, tax changes, exchange rate and other economic and financial factors.

# **Project / Programme Components and Financing:**

Table 15 Overview project components and financing

Project Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
Component 1 Participatory prioritization of climate change adaptation options into national, district and community planning for agriculture / livestock development	Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women  Output 1.2. National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women	Outcome 1 Increased awareness of public institutional staff, farmers / pastoralists and women groups of relevant climate change hazard risks and adaptation options and priorities for the agriculture / livestock sector and improved mainstreaming of this information into planning processed  In line with AF oputcome 1	140,500
Component 2 Climate resilient investment in	Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented	Outcome 2 Increased climate change resilience and sustainability of agriculture livelihoods, including	3,800,000

concrete activities in	in four (4) districts in the northwest of	strengthened socurces of income			
the agriculture sector	Libya, including through around 5900	and ownership of adaptation			
tilo agricultare ecotor	grant packages (of USD 560 each) to	measures, benefitting farmers,			
	farmer, women and youth groups.	women and youth in four (4)			
	Output 2.2.	districts in the northwest of Libya	467,500		
	Relevant public Institutional staff,	,	,		
	farmers and women trained to	In line with AF outcome 3 and 6			
	implement, maintain and sustain				
	climate change resilient crops and to				
	support the strengthening or creation				
	of community organizations and				
	community development plans				
Component 3	Output 3.1.	Outcome 3	2,385,600		
Climate resilient	Climate change resilient natural asset	Increased climate change			
investment in	/ resource (i.e. rangeland	resilience and sustainability of			
concrete activities in	management) production system	pastoralist livelihoods, including			
the livestock sector	protection / rehabilitation	increased natural / asset resource			
	improvements implemented in two (2) districts in the northwest of Libya,	production system resilience and ownership of adaptation			
	including through around 3600 grant	measures, benefitting pastoralist			
	packages (of USD 560 each) to	and women in two (2) districts in			
	pastoralists and women groups	the northwest of Libya			
	Output 3.2.	1	351,500		
	Relevant public Institutional staff,	In line with AF outcome 3 and 5	33.,333		
	pastoralists and women trained to				
	implement, maintain and sustain				
	climate change resilient natural asset				
	/ resource (i.e. rangeland				
	management) production system				
	improvements and to support the				
	strengthening or creation of				
	community organizations and				
Component 4	community development plans  Output 4.1.	Outcome 4	560,542		
Capturing and	Mechanism implemented to capture	Climate change resilient practices	300,342		
disseminating	and disseminate relevant knowledge	and products piloted in the four (4)			
relevant knowledge	and learning of climate change	districts in the northwest of Libya			
and learning on	resilient practices, products and	are encouraged / supported for			
climate change	technologies and to replicate these at	replication in one (1) district in the			
resilient practices,	the national level and to one (1)	northwest, four (4) districts in the			
products and	district in the northwest, four (4)	northeast and four (4) districts in			
technologies and to	districts in the northeast and four (4)	south through a national – district			
replicate these at	districts in south and to vulnerable	<ul> <li>community replication</li> </ul>			
national, district and	groups and women, including through	mechanism			
community level	workshops, guidelines, farmer field	In the socials AE social and C			
	schools, a ToT programme and field	In line with AF outcome 8			
5. Total components	visits to demo plots.		8,338,642		
6. Project/Programme Execution cost					
7. Total Project/Programme Cost					
	Cycle Management Fee charged by the Ir	nplementing Entity	9,213,969 783,187		
Amount of Financing		-	9,997,156		

## **Projected Calendar:**

Table 16 Project calendar

Milestones	Expected Dates
Start of Project/Programme Implementation	July 2023
Mid-term Review (if planned)	
Project/Programme Closing	July 2027 (6 month after project completion)
Terminal Evaluation	March 2027 (2 months after project completion)

#### PART II: PROJECT / PROGRAMME JUSTIFICATION

# A. Project components

- 58. To achieve the overall project goal' to increase the climate change resilience of the agriculture / livestock sector to water scarcity in Libya' and the overall project objective 'to enable the government and vulnerable groups to adapt to climate change in the agriculture / livestock sector and especially to water scarcity and land degradation,' it is proposed to generate, mainstream and share relevant climate change hazard risks information for the whole agriculture / livestock sector in Libya (components 1) and to strengthen capacities of project beneficiaries to implement, maintain and sustain climate change resilient agriculture and livestock intreventions (component 2 and 3) and encourage replication or activities (component 4). It is proposed to have a set of concrete 'no-regret' climate change adaptation activities in the agriculture / livestock sector in four (4) target districts in the northwest of Libya, including the introduction of drought and heat resilient crops, salt resistant crops, water conservation / harvesting and rangeland production system improvements. For more info on the main concrete climate change adaptation interventions considered see **Box 1** and the outcomes of the rapid climate change vulnerability assessment. over 2/3 of the funds will be distributed to concrete adaptation measures.
- 59. The specific needs and possible concerns of smallholder farmers, pastoralists and women have been identified during the project proposal development phase. Engagement with these groups will continue during project implementation through the four proposed project components.
- 60. The above approach will be achieved through the following proposed components.

Component 1: Participatory prioritization of climate change adaptation options into national, district and community planning for agriculture / livestock development

61.	In lii	ne with AF outcome 1 and government priorities (see section H), this component will focus on:
		Increasing the awareness of public institutional staff, farmers / pastoralists and women groups of relevant
		climate change hazard risks and adaptation options and priorities for the agriculture / livestock sector and improved mainstreaming of this information into planning processed
	П	Improving the mainstreaming of climate change information generated into national, district and
	_	community-level planning processes for agriculture / livestock development.

62. This will be done through the following outputs:

**Output 1.1.** Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women

**Output 1.2.** National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women

63.	Thi	s component is needed to respond to the issues / barriers identified to adapt to climate change:
		Lack of available data / information on climate change risks and vulnerabilities Limited government awareness to understand climate-related hazard risks and vulnerabilities and capacity to respond.
64.	and the cor pur imp targ nor inst sar prid gro	mate change vulnerability assessment will be conducted in agriculture/ livestock areas in the whole of Libya a specifically in 5 target districts in the northwest, 4 target districts in the northeast and 4 target districts in south. During the project proposal preparation phase, a rapid climate change vulnerability assessment was aducted to identify the main climate change vulnerabilities in the 5 target districts in the northwest, with the pose to identify concrete adaptation activities needed as proposed under component 2. During the project plementation phase, further detailed climate change vulnerability assessment will be conducted in all 13 get districts. Comprehensive climate change vulnerability assessments in the 5 target districts in the three three three planning process for this at the district and national level. The assessments will be follow the participatory approach that was applied in the rapid assessments to ensure that the concerns and orities of the communities are reflected. Dedicated consultations with women, youth and other vulnerable ups will ensure that the voices of these groups are heard and their priorities are taken into consideration in assessments.
65.	an incl vuli prio	e climate change hazard risks analyzed are droughts, extreme heat, coastal flooding/inundation, salinization inland flooding, and adaptation options include practices and products. The risk profile/ mapping should lude identified areas to be avoided for development due to high risks and safe areas. Besides that nerability profiles will be developed per district with possible climate change adaptation measures and prities. This will be done with the participation of government staff and smallholder farmers, pastoralist and men.
Со	mpc	onent 2: Climate resilient investment in concrete activities in the agriculture sector
66.	In I	ine with AF outcome 3 and 6, and government priorities (see section H), this component will focus on:
		Increasing the climate change resilience and sustainability of agriculture livelihoods, including strengthened socurces of income and ownership of adaptation measures, benefitting farmers, women and youth in fou (4) districts in the northwest of Libya
67.	Thi	s will be done through the following outputs:
	ir to C	Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) in plemented in four (4) districts in the northwest of Libya, including through around 5900 grant packages of farmer, women and youth groups.  Output 2.2. Relevant public Institutional staff, farmers and women trained to implement, maintain and ustain climate change resilient crops and to support the strengthening or creation of community rganizations and community development plans
68.	Thi	s component is needed to respond to the issues/ barriers identified to adapt to climate change, including:
	Ov	erall: Dependency on oil economy

	□ Dependence on fresh water from aquifers / the Man-Made River project (with high pumping costs and potential depletion and saltwater intrusion) and underdevelopment desalination and wastewater treatment
	Specific for target areas:  a lack of knowledge and data a lack of plans, a lack of information a lack of money /poverty and funding capacities to implement adaptation options a lack of awarenes Limited technical capacities to implement and maintain adaptation options
69.	As water pumping costs are high, water depletion and saltwater intrusion are serious threats to water available and agriculture production and food security, water demand needs to be reduced. Desalination and wastewater treatment are options but require large investments. Therefore, this proposal focused on no-regret concrete adaptation interventions, including introducing drought and heat resilient crops and salt resistant crops. These are introduced to deal with climate change hazards and to reduce water consumption. Under component 4 a mechanism to replicate these adaptation measures to other areas in Libya is proposed.
70.	The grant packages that will be distributed as inputs as part of component 2 will include one or more of the following:
	<ul> <li>a. Seeds of drought and heat resilient crop varieties</li> <li>b. Seeds of salinity resistant varieties</li> <li>c. Drip irrigation networks (if needed)</li> <li>d. Water conservation/ harvesting basins / buns (if needed)</li> <li>The project will apply specific criteria that will prioritize the poorest (e.g. small land size), the most vulnerable and will define a certain percentage for women (30%) and youth (30%). The final set of criteria for the selection of beneficiaries will be defined at the inception of the project.</li> <li>Trainings will include good agriculture practices including integrated soil management, water harvesting, minimum tillage, use of organic feritlizers and Integrated Pest Management.</li> </ul>
Co	mponent 3 Climate resilient investment in concrete activities in the livestock sector
73.	In line with AF outcome 3 and 5, and government priorities (see section H), this component will focus on:
	□ Increase the climate change resilience and sustainability of pastoralist livelihoods, including increased natural / asset resource production system resilience and ownership of adaptation measures, benefitting pastoralist and women in two (2) districts in the northwest of Libya
74.	This will be done through the following outputs:
	Output 3.1. Climate change resilient natural asset / resource (i.e. rangeland management) production system protection / rehabilitation improvements implemented in two (2) districts in the northwest of Libya, including through around 3600 grant packages to pastoralists and women groups  Output 3.2. Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and community development plans
75.	This component is needed to respond to the issues/ barriers identified to adapt to climate change, including:
	Overall:  Dependency on oil economy Dependence on fresh water from aquifers / the Man-Made River project (with high pumping costs and potential depletion and saltwater intrusion) and underdevelopment desalination and wastewater treatment

Sp	ecific for target areas:
	a lack of knowledge and data
	a lack of plans, a lack of information
	a lack of money /poverty and funding capacities to implement adaptation options
	a lack of awarenes
	Limited technical capacities to implement and maintain adaptation options

- 76. As water scarcity is a serious threats to livestock production and food security, rangeland needs to be improved from a climate change reslinece point of view. This proposal focuses on no-regret concrete adaptation interventions, including water conservation / harvesting and integrated crop-livestock-rangeland production systems improvement. These are introduced to deal with climate change hazards and to reduce water scarcity and land degradation. Under component 4 a mechanism to replicate these adaptation measures to other areas in Libya is proposed.
- 77. The grant packages that will be distributed as inputs as part of component 3 will include one or more of the following:
  - a. Euipment and designs for water conservation/ harvesting basins / buns and ridges
  - b. Equipment and support with mobile or transhumant grazing practices
  - c. Cacti /animal feed:
  - d. Food processing package;
  - e. Milk production package
- 78. The project will apply specific criteria that will prioritize the poorest (e.g. less than 3 goats), the most vulnerable and will define a certain percentage for women (30%) and youth (30%). The final set of criteria for the selection of beneficiaries will be defined at the inception of the project.
- 79. Trainings will include good livestock practices including better feed practices, composting, animal health in addition to sustainable rangeland practices.

Figure 18 example of water harvetsing through buns / ridges



Component 4: Capturing and disseminating relevant knowledge and learning on climate change resilient practices, products and technologies and to replicate these at national, district and community level

- 80. In line with AF outcome 8 and government priorities (see section H), this component will focus on:
  - □ Climate change resilient practices and products piloted in the four (4) districts in the northwest of Libya and encouraged / supported for replication in one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south through a national district community replication mechanism
- 81. This will be done through the following output:

**Output 4.1.** Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field visits to demo plots.

82.	This component is needed to respond to the issues/ barriers identified to adapt to climate change:
	Limited generation and dissemination of relevant knowledge and learning on climate change resilient practices, products and technologies and to replicate these at national, district and community level
83.	There is a huge potential to replicate no-regret concrete adaptation activities to other agriculture / livestock areas with the same needs. Based on the outcome of component 1 and lessons from component 2 and 3, mowledge and learning will be captured on climate change resilient practices, products and technologies and promoted for replication. This will be done through workshops, guidelines, farmer field schools, a Totherogramme and field visits to demo plots.
В.	Project economic, social and environmental benefits
84.	The proposed project aims to maximize benefits to the most vulnerable groups while maximizing the positive environmental impact and reducing any potential social risk due to sensitivities among the local communities. Farget groups under this nproject include:
	<ul> <li>Small-scale farmers and pastoralists (poor households and female-headed households prioritized)</li> <li>Youth willing to engage in agriculture production and have no other income source</li> <li>Internal-Displaced Persons – IDPs and returnees</li> </ul>
	For an overview of project beneficiary numbers see table Outcomes of the rapid climate change vulnerability assessment conducted.
	Table 13. Needs and possible concerns of formers / posteralists, wemen and youth and other relevant

2. Table 13. Needs and possible concerns of farmers / pastoralists, women and youth and other relevant groups have been identified through a rapid climate change vulnerability assessment conducted (see summary of outcomes also in Outcomes of the rapid climate change vulnerability assessment conducted.

1.

Table 13) in 4 northwestern target districts. The total number of beneficiaries in the target districts is 1 340 019, of which between 30-35 percent farmer, 49 percent women and 25-40 percent youth, depending on the district. Under outcome 1 (output 1.1 and 1.2) the whole country will benefit and specifically the farmer communities (around 20 % of a total population of 6.8 million). Under the concrete interventions (outcome 2 and 3) around 9 500 grant packages will be provided (5900 under component 2 and 3600 under component 3) which, with an average household size of at least 6 in rural areas, will benefit approximately 57 000 people. Female-headed farmer and pastoralist households will be prioritized with a target of at least 30 percent of the total population targeted. Heads of all households will be involved in capacity strengthening activities, while also ministry and local government staff will be targeted for trainings. The total number of direct beneficiaries of the project is estimated at 57 840. For detailed beneficiary numbers see Table 35 and Table 36, which present the results framework and core indicators, including targets for women.

- 85. The inhabitants of the project target areas are not indigenous people, but rather ethnic groups namely: Arab-Berber and Berber. However, the Amazigh people live in many areas including the town of At-Wilul at Zwara district which the project is not targeting specifically (the district is targeted but not the town). As almost all inhabitants belong to ethic groups, ethnic groups were already involved in consultations.
- 86. In addition to the target groups mentioned, the direct beneficiaries of each proposed project activity are selected based on vulnerability selection criteria to ensure that the programme is targeting:
  - a. the most vulnerable households among those who fulfil the technical requirements of the proposed activity;
  - b. to ensure equity and avoid any social tensions in the local communities.

- 87. Beneficiaries have been identified through consultations at the ministry, district and municipal level. Also, a mapping of ethnic groups has been done, to make sure these are equally involved per target area. Such direct engagement of the target local community will ensure communities contribution and participation in applying the criteria to their committees and suggest beneficiaries who are eligible.
- 88. As part of project compliance to the AF ESP and GP, possible negative environmental and social risks and impacts will be avoided/ mitigated, through participatory assessment, planning and decision-making processes, also during project implementation. Below is a summary of the project benefits:

Table 17 Economic, Social and Environmental benefits

Component Component 1	Baseline  Beneficiaries have limited awareness of climate change hazard risks and response options.  Agriculture / livestock production is threatened by climate change hazard risks and limited water resources. Water pumping is expensive due to high energy prices and low water table. Populations are vulnerable due to high poverty rates and dependence on vulnerable sectors. Women and youth participation can be regarded as low	With/after project (economic, social, environmental)  Economic: development in climate risk areas (with risk of losses due to sealevel rise, floods, etc) can be avoided; climate change cost-effective measures will be identified through assessments to stabilise/increase production and reduce risk of losses in a climate constraint context. Once implemented, these can support increase of income of farmers and especially women (womenheaded households). In addition to this, other non-quantifiable economic benefits include the empowerment of farmers, and more particularly women and youths, that will be benefited from the project support, not only allowing the realization of economic benefits mentioned above, but also better preparing them to face climate-change challenges in selected activities.  Social: participatory approach will ensure benefits to women, youth and other vulnerable groups through their inclusion in the process and the National climate resilient agriculture/ livestock strategy will pay specific attention to the differentiated impact of climate change on most vulnerable groups (including farmers, internally displaced people and women and youth) and the suitable adaptation options for the areas they live in. This will enable these groups to adapt to change climate conditions Emphasis will be put on addressing gender inequalities and empowering women to reduce the negative impacts of climate change. This will be done in three ways: (i) recognition of gender differences in adaptation needs and capacities; (ii) gender-equitable participation and influence in adaptation decision-making processes; (iii) gender-equitable access to finance and other benefits resulting from investments in adaptation (e.g. support for climate adaptive businesses). In addition, special attention will be given to promoting a more equitable balance in workloads and in the sharing of economic and social benefits between women and men, for example by introducing time and labour-saving technologies. In addition, rural youth will be
Component 2		target areas and will identify potential threats to biodiversity, natural habitats and people.  Economic: climate change resilient cost-effective measures implemented will support increase of income through 9,500 grants with the objective to stabilize/increase incomes and reduce losses, in particular post-harvest losses. The cost per grant beneficiary is estimated at US\$560/household, which is comparable to similar AF and IFAD projects's investments in the region of North Africa and has a potential to generate sufficient income for smallholders with a substantial benefit-to-cost ratio ensuring their resilience and adaptive capacity to climate change. The adaptation technologies that will be adopted through
Component 3		these grants are expected to be upscaled and/or adopted at a wider scale. Social: Targeting strategy will focus on the poorest and most vulnerable farmers/pastoralists. The Participatory approach will ensure benefits to women, youth and other vulnerable groups. Women-headed households will be prioritized for grant packages. Displaced person may also benefit as the migration trend is from the south to the north. This project may involve migrants from the north willing to work in agriculture. Environmental: Agriculture / livestock activities implemented will apply good practices streghtening resilience against climate change, reducing the advrse effect of land degradation, avoiding any increase in use of pesticides in

also demonstrate adaptation options that would be adopted and upscaled by the wider community in the target areas and other areas.
Economic: information on climate change resilient cost-effective measures will be available/ accessible which will yield economic benefits at scale. This will fill a gap at the national level which will save the costs of different pilots at the local
level to identify adaptation solutions.
□ Social: information on climate change resilient cost-effective measures will be available/ accessible to women and youth and other vulnerable groups and specific lessons on gender and youth mainstreaming strategies will be captured. The National climate resilient agriculture/ livestock strategies will pay specific attention to the differentiated impact of climate change on most
vulnerable groups (including farmers, internally displaced people and women and youth) and the suitable adaptation options for the areas they live in.
Environmental: knowledge and information in avoiding negative environmental impacts will also be shared helping the country to fill in the current knowledge gap in the climate change policymaking process.

# C. Cost-effectiveness of the proposed project

89. The cost-effectiveness of the project can be seen in comparison with business as usual (or without-project) scenario and the value added resulting from its activities, which outweighs the costs. The proposed activities are primarily focused on maximizing impact while being cost-effective. The adaptation technologies that will be adopted by the project will capitalize on the existing best and cost-effective practices in the region. Currently, due to low agirucultural yields, the country has to import 75 percent of the food to satisfy the domestic demand, which is exacerbated by the fact that 95 percent of the country is desert and 70 percent of the population lives in the coastal area prone to floods<sup>34</sup>. According to the World Bank estimates, on average every US\$1 invested in adaptation to climate change brings US\$4 in benefits<sup>35</sup>, which justifies the project investments. The table below demonstrates the cost-effectiveness rationale within each output of the project.

Table 18 Proposed interventions cost-effectiveness rationale

Project output/ activity	Costs	Alternative interventions and rationale why priority interventions/activities have been selected from a cost-effectiveness perspective
Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the northwest (5), north-east (4) and south (4) with the participation of vulnerable groups and women  13 climate change vulnerability assessments with priority adaptation actions.  Directly involved 570   Women: 30 % Indirect: 6,8 million of which about 30 percent farmers	633,000	In the absence of any climate-related policies and the lack of institutional arrangement to address climate risks as the district level, climate vulnerability assessments are much needed to prioritize the most cost-effective adaptation options in the agriculture/livestock sector. Without the climate change vulnerability and hazards risks assessment and National agriculture / livestock strategy to be developed there would be no identified and prioritized climate change adaptation options for agriculture/livestock areas in Libya. The alternative to act without prior assessment would lead to costly and not adapted interventions without positive outcomes.  This is needed to make people aware of these options, but also to identify / attract and prioritize funding for adaptation activities, also within small communities.

<sup>&</sup>lt;sup>34</sup> "Climate change threatens Libya's economic development and sustainability", UNOCHA situation report, 26 August 2021, <a href="https://reports.unocha.org/en/country/libya/card/2r82XSiHkw/">https://reports.unocha.org/en/country/libya/card/2r82XSiHkw/</a>

<sup>&</sup>lt;sup>35</sup> "Hallegatte, Stephane; Rentschler, Jun; Rozenberg, Julie. 2019. Lifelines: The Resilient Infrastructure Opportunity. Sustainable Infrastructure, World Bank.

Output 1.2.  National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women  1 strategy Directly involved 570  Women: 30 % Indirect: 6,8 million of which about 30 percent farmers	140,500	Alternative scenario: conventional practices such as development in high risk areas, expensive water pumping, use of high water consumption crops, etc. will continue and are more expensive compared to the adaptation outcome. Cost-efficient adaptation options are not identified in a strategy at the national level. Selection of interventions is not done in a participatory manner and thus the adaptation options might not be suitable to the context or not sustainable due to lack of ownership.
Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in three (3) districts in the northwest of Libya, including through around 5900 grant packages to farmers, incl. women  Farmers: 5900 households / 35400 people (6 persons / household)     Women: 30 %  Output 2.2 Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans  Institutional staff: 60    Women: 30%  Farmers: 5900  Women: 30%  Output 3.1. Climate change resilient natural asset / resource (i.e. rangeland management) production system protection / rehabilitation improvements implemented in two (2) districts in the northwest of Libya, including through around 3600 grant packages to pastoralists, incl women  Pastoralists: 3600 households / 21600 people (6 persons / household) Women: 30 %	3,800,000	Using heat and drought resilient crops and salt resistant crops are cost-effective in comparison with conventional crops, as these crops will grow better and survive extreme conditions. This should be combined with efficient irrigation technology and landscape interventions to capture and store available water to avoid potential cost of water depletion. Sustainable rangelands management is key to ensuring the livestock sector remains productive and communities are able to benefit from them while contributing to their management. Grant packages are cost-effective approach to involve beneficiaries and ensure they do part of the works against (relatively) low fees.  Alternative scenario: more expensive options such as desalination or wastewater treatment are used, but these are more costly interventions, also per person, and feasibility is limited with existing conditions and available funds.  Capacity strengthening to operate and maintain implemented activates is needed to avoid loss of investment if activities are not sustained.  Alternatively: Activities are implemented without capacity building for communities and institutions to be able manage these technologies jeopardizing the sustainability of these investments.

Output 3.2.  Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and community development plans  Institutional staff: 40	351,500	
Output 4.1.  Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field visits to demo plots.  - Guidelines: 1 - Farmer field schools: 9 - ToT: 9 - Visits to demo plots: 9	560,542	Making knowledge / lessons of tested activities available / accessible to inhabitants of other districts is a cost-effective way to replicate the activities.  Alternative scenario: Number of awareness beneficiaries decline drastically thus increasing the cost per beneficiary and then other funding sources will need to be sought to implement adaptation activities in other areas. Duplication of pilots/knowledge generation could occur.

#### 90. Altogether, the project will be cost-effective by:

- ☐ Avoiding cost of inaction associated with damage and loss due to climate change impacts (especially droughts, sea inundation and saltwater intrusion, floods) and to ensure the interventions are sustainable.
   ☐ Community involvement with development/construction of concrete interventions and because of
  - Community involvement with development/construction of concrete interventions and because of community capacity building which will also ensure the sustainability of investments
- ☐ Having selected the technical / concrete adaptation options based on <u>cost-feasibility and</u> resilience/sustainability criteria, including:
  - Location suitability (Location + suitability)
  - Cost-effectiveness (cost per beneficiary)
  - o Comparison to alternative solutions
  - o Beneficiaries' vulnerabilities and needs (direct and indirect) + benefits
  - Operation + maintenance needs and arrangements feasibility
  - o Sustainability needs and arrangements, incl. replication, upscaling and exit strategy feasibility
  - o Limited / manageable environmental and social risks / impacts

# D. Project consistency with national or sub-national sustainable development strategies

91. The proposed project is designed to be consistent with international, national and sub-national development strategies, plans and goals. From an international perspective, the project directly supports targets under SDG 13 (climate change adaptation & DRR) and indirectly under environmental-related SDG 6 (increasing safe and clean water) and SDG 15 (reducing land degradation and improve sustainability of natural resource management). The project also indirectly supports targets under SDG 1 (reducing poverty), SDG 2 (increasing

food security) SDG 3 (improving good health and well-being), SDG 5 (improving gender equality), SDG 9 (improving innovation and infrastructure), SDG 10 (reducing inequalities), SDG 11 (increasing the sustainability of communities) and SDG 16 (enhancing social cohesion).

92. As per below, the project directly supports IFADs priorities:

Strategic Objective 1 (IFAD Strategic framework 2016-2025)

Strategic Objective 3 (IFAD Strategic framework 2016-2025)

Strengthen the environmental

sustainability and climate resilience of poor rural people's economic activities Increase poor rural people's productive

capacities

Development result (IFAD11 Results Management Framework)

By 2025 – 24 million people with greater

resilience

93. Libya is party to the United Nations Framework Convention on Climate Change. In 2016, Libya has signed the Paris Agreement but has not yet ratified it. Libya did not develop any national strategies on climate change or any national communications to the UNFCCC.

- 94. The Libyan Environment General Authority (EGA) has attempted to work with international partners to improve its reporting capacity and, in 2020 the first inter-ministerial climate change committee was established. However, there is still no communication to the UNFCCC and function of the committee questionable.
- 95. Due to the lack of relevant national policies and strategies, the UN follows the United Nations Strategic Framework for Libya, which identified adaptation measures as shown in **Table 3.** Besides that, **Table 19** provides a brief overview of the available government policies and strategies and how this project aligns with these. The project also aligns with the forthcoming United Nations Development Cooperation Framework for Libya (UNSDCF) 2023 2025 IFADs country strategy note for Libya and IFADs Adaptation framework

Table 19 Project alignment with National priorities

Stra	tegies and plans	Year submitted / ratified	Relevant priorities the project is aligned with
	The government follows the SDGs and African Water vision 2025 as a vision / framework for the water sector		The project will support reducing water demand while increasing the use of efficient water use technologies
	National Strategy for Sustainable Development	2008	The project will support sustainable approaches, products and technologies
	National Strategy for Integrated Water Resources Management (2000 – 2025) (NSIWRM) and annual sector plans	2006	The project will support the ultimate objective of the strategy, which is to stop continuing water deficits and quality deterioration and set a base for sustainable development

96. As shown above, the existence of national policies and strategies is limited. In fact, Libya has not had a national development plan since 2011, which impedes coherent national planning and hampers the ability of international development partners to align their support to national priorities. There is also no national agriculture strategy or plan. However, there is a plan to formulate a national food security plan. Therefore, the project aligns with the UNSDCF for Libya 2023-2025 and identified national priorities in key sectors and alignment with these, through consultations with key actors from the national government and local authorities.

# E. Project compliance with relevant national technical standards

- 97. The proposed project is designed to meet all relevant international and national technical rules, regulations, standards, and procedures. During the preparation phase, all the relevant rules, regulations and standards have been identified, including steps / procedures to comply per proposed activities / interventions.
- 98. Regarding any environmental and social risks screening and impact assessments and related approvals required by Libyan law, the following mechanism is in place to obtain environmental approvals for projects:
- 99. The environment general authority is an independent autonomous institution which exercises its duties in accordance with the <u>environmental law no. 15 of 2003 to protect and improve the environment</u>. The law specifies public duties and the other related parts towards preserving the environment in the following fields:

	General Provision (Articles 1 – 8)
	Air Pollution (Articles 10 – 17)
	Protection of Sea and Marine wealth (Articles 18 – 38)
	Protection of Water Sources (Articles 39 – 47)
	Protection of Foodstuffs (Articles 48 – 50)
	Environmental Hygiene (Article 51)
	Protection from Common Animal Diseases (Article 52)
	Protection of Soil and Plants (Article 53 – 55)
	Protection of Wildlife (Article 56 – 57)
	Biological Safety (Article 58 – 63)
	Penalties (Articles 64 – 76)
	Final Provisions (Articles 77 – 79)

100. Process of EIA: The Environment Impact Assessment includes the following stages:

Table 20 Steps Environment Impact Assessment in Libya

□ Description of alternatives□ Environmental Management Plan

Steps		Responsibilities	
<ol> <li>Project preparation Usual</li> </ol>		Usually made by the developer (owner) and the consultant.	
2.	Notification to EGA	The developer will notify EGA about the plan (field survey, activity type, etc)	
3.	Screening and scoping	The field survey (data acquisition) and the data arrangement in the office will be	е
		made by the consultant according to the owner plan	
4.	Environmental studies	The studies will be achieved and completed.	
5.	Submission to EGA /	EIA, EBS studies are submitted to EGA.	
	EIA dept		
6. Reviewing and The evaluation is		The evaluation is done by the EIA dept. staff	
	evaluation of studies		
7.	Consultation with EIA	Discussion with the manager about the permission condition depending on the	)
manager evaluation of the introduced study		evaluation of the introduced study	
8.	Final decision	The final decision will be issued by EIA Manager or EGA secretary	

01		According to EGA, Environmental Impact Assessment report should include the following:
		Executive Summary
		General information
		Legislation
		Description of the proposed project
		Description of the surrounding environment and current situation
		Description of the environmental impacts of the proposed project
		Description of environmental impact assessment
	П	Description of mitigation actions

- 102. All proposed project activities fall below the threshold where environmental and social impact assessments (ESIAs) are required by national law. Thus, there are no EIA required by national law during the preparation or implementation of the project. Although ESIA are not required by national, a risks screening and impact assessments will be conducted in line with the Environmental and Social Policy (ESP) and Gender Policy (GP).
- 103. International conventions Signed by Libya:

Convention on Preservation of Fauna and Flora in their Natural State (London, 1933)
African Convention on the Conservation of Nature and Natural Resources (Algeria, 1968)
Convention on Wetlands (Ramsar, 1971)
World Heritage Convention (Paris, 1972)
Convention on International Trade in Endangered Species of Fauna and Flora (CITES Washington, 1973)
Convention for the Protection of the Mediterranean Sea against Pollution (Barcelona, 1976)
Convention on the Conservation of Migratory Species of Wild Animals (Bonn, 1979)
United Nations Convention on the Law of the Sea (UNCLOS) (Montegoby, 1982)
The Basel Convention on the Transboundary Movement of Hazardous Wastes and their Disposal (Basel,
1989)
Bamako Convention on the Ban of the Import Into Africa and the Control of Transboundary Movement and
Management of Hazardous Wastes Within Africa (Mali,1991)
Convention on Biological Diversity (Rio, 1992)
16th November 1994. Libya has signed but not yet ratified the convention
Cartagena Protocol on Biosafety to the convention on biological diversity (Montreal, 2000)
Framework Convention on Climate Changes (FCCC).

- 104. **Gender**. Libya is party to several international instruments that provide for gender equality under the law, including the convention on the elimination of all forms of discrimination against women (cedaw), which libya ratified in 1989. In practice, however, much of women's legal status is defined by the pre-2011 previous political system's family and personal status laws that are in part derived from the maliki school and include provisions for marriage, divorce and inheritance. Article 7 of the 2017 constitutional proposal represents a strong step forward for gender equality in libya. Nevertheless, the libyan legal system does not adequately protect women against domestic violence, honour crimes or rape<sup>36</sup>
- 105. **Youth.** The legal and policy environment for youth is mixed. The draft constitution of 2017 has not been ratified, so libya operates without a legitimately enacted constitution. Some laws, if they were implemented, might have positive effects on youth. These include the legal right to equal pay for men and women ("law 12"), the 10 percent quota for women in elective office proposed in the draft election law, and the decentralization law ("law 59").

Table 21 Overview project compliance with relevant national technical rules, regulations and standards

Project output/ activity	Relevant rules, regulations, standards (to comply to AF principle 1)	Authorizing offices and procedure / steps to comply and authorizing offices
Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women  13 climate change vulnerability assessments with priority adaptation actions.	Not relevant	In coordination with ministry of environment, ministry of agriculture, and ministry of water resources

<sup>&</sup>lt;sup>36</sup> UN Women (2020). The economic and social impact of conflict on Libyan women.

Output 1.2.	Not relevant	In coordination with ministry of
National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women	Not relevant	environment, ministry of agriculture, and ministry of water resources
Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in three (3) districts in the northwest of Libya, including through around 5900 grant packages to farmers, incl. women  Output 2.2 Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans  Output 3.1. Climate change resilient natural asset / resource (i.e. rangeland	Agriculture  - Law No.15 of 1992 on the protection of agricultural land.  - Resolution No. 176 of the Secretary of the General popular Committee for Agrarian Reform implementing the Pesticides Regulation.  - Resolution of the General Popular Committee No. 308 of 1987 on measures for facing agricultural diseases and epidemics.  - Law No. 9 of 1985 on the establishment of Tasharukiat;  - Law No.2 of 1974 on Cooperative Farms.  - Resolution No. 740 regulating the use of pesticides.	Authorizing authority: ministry of agriculture; Ministry of Heath  Required:  - Check / control if land is dedicated to agriculture - Check / control use of pesticide and species - Set-up of corporations in line with national guidance  Approval of ministries required through steering / technical committees
management) production system protection / rehabilitation improvements implemented in two (2) districts in the northwest of Libya, including through around 3600 grant produces to posterplists, including the protection.	Rangeland management - Law No.5 of 1982 on the protection of grasslands and forests;	See above
packages to pastoralists, incl women  Output 3.2. Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and	Water allocation: Law 3 year 1982 on regulating the utilization of water resources General People's committee memo no 612 / year 1993 on Manmade River water allocation Law 15 year 2003 on environmental protection and enhancement	Authorizing authority: Ministry of Water Resources  Required: - Check / control water quantity and quality and source
community development plans	Water quality and national drinking Water - Law 3 year 1982 on regulating the utilization of water resources - Libyan standard 82 year 1992 drinking water standards - Law 106 / 1976 on health - Law 15 year 2003 on environmental protection and enhancement	Approval of ministries required through steering / technical committees

Output 4.1.  Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field	Not relevant	In coordination with ministry of environment, ministry of agriculture, and ministry of water resources
visits to demo plots.		

106. Potential foreign approaches, products and technologies may be introduced. These should comply with national laws / standards.

## F. Duplication of project with other funding sources

Table 22 Other projects in Libya, avoidance of overlap and lessons used

Relevant projects/programme (incl. amount and impl agency)	Summary / focus	Geographical focus (i.e. avoiding overlap)	Thematic overlap, complimentary or potential synergies
GCF readiness project Libya 2017: Preparation of Libya to climate finance through GCF country programming and the establishment of the GCF designated national authority	Strengthen focal point and Strategic Engagement Framework with the Fund	No geographic focus	No thematic overlap as the GCF p roject was limited to NDA/ focal point team set-up and strengthening and to the development of the Strategic Engagement Framework with the GCF.
FAO and AICS and MoWR 2021-23 (USD 1,004,843\$) Towards efficient agriculture water use in Libya / Monitoring, evaluation and rationalization of water use for the agriculture sector in Libya	Build national capacities for Monitoring, evaluation and rationalization of water use for the agriculture sector	Country-wide capacity building with focus Fezzan region.	The project has recently started and is underway. There is some thematic overlap with capacity strengthening for water management. Therefore, this project can build on capacities strengthened at national level to rationalize water. As FAO is an executing partner to this project, there is strong coordination already. Any outcomes of any assessment conducted by FAO will feed into this project (esp agriculture strategy) while made available. Any overlap in activities will be avoided.
FAO 2021-24 (USD 288,000\$) Evaluation of irrigation, infrastructure crop mapping and estimation of agricultural water use-ICAWU	Method developed and tested to evaluate 'performance' of irrigation infrastructure and water consumption crops	Nation-wide with some test locations in the south	There is a partial thematic overlap as the FAO project addresses agriculture water management and irrigation. However, the FAO project does not draw attention to climate change risks nor to adaptation. As FAO is an executing partner to this project, there is strong coordination already. Any effective method used or assessment conducted by FAO will feed into this project (esp. agriculture strategy and selection of crops) while made available. Any overlap in activities will be avoided.
WFP Facilitation of the Agriculture Information Networking among	Providing agriculture information	Eastern and southern Libya	There is a partial thematic overlap as the WFP initiative addresses food production. However, it does so from a humanitarian aid

smallholder farmers in eastern and southern Libya (including Sebha) through WhatsApp groups.			perspective aimed at fostering food security; efficient water use and climate change adaptation are not a primary concern  Possible complementarities/ synergies: information sharing on good practices that could be replicated. Coordination is already established through the food security coordination cluster in Libya
IFAD – AF "Economic, Social and Solidarity Insertion for Resilience in the Governorate of Kairouan- IESS-Adapt" in Tunisia	Includes rangeland management with the purpose of avoiding land degradation and efficient water use	Tunisia (No geographical overlap but similar geographical context)	There is a thematic overlap regarding rangeland management, grant packages and the involvement of women and vulnerable groups. Lessons learnt from the Tunisia project are being used and tailored in the present AF project, especially related to rangeland interventions with the purpose of avoiding land degradation and efficient water use is used.
IOM regional research project in Libya and Sudan with the purpose to get a better understanding of the linkages between climate change and environmental degradation, community cohesion, gender dynamics and mobility decisions from a regional perspective	Research in Libya focuses on water use	Research project so no concern of overlap	The project just started. Coordination is already established.  Thematic overlap is climate change assessments being conducted, although the focus is on mobility / migration  Possible complementarities/ synergies: using the outcomes of the study findings on climate change impacts on community cohesion and mobility to ensure project interventions can contribute to reinforce cohesion and stability in target districts and integrating these findings in the climate change vulnerability assessments

# G. Learning and knowledge management component to capture and disseminate lessons learned

107. Effective knowledge management – including the collection, generation and dissemination of information – is an important component of climate change adaptation. Learning from adaptation activities and being able to transform knowledge into products that are targeted at various audiences is essential to effective climate change adaptation. Component 3 will compile and disseminate project information, experiences and results on an on-going basis. Dissemination of information will be through field visits, workshops and seminars, guidelines, a website, social media (YouTube, Facebook, Instagram etc.), posters and leaflets. In addition, engagement with relevant academic and research institutions will be explored in order to capitalize on their technical knowledge and ensure they absorb the lessons learned/best practices from the project. Finally, the project will ensure that knowledge management responsibilities are included in the Terms of Reference of at least one of the project staff.

Table 23 Learning objectives and knowledge products

Project output/ activity	Learning objectives (Io) & indicators (i)	Knowledge products

Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women  13 climate change vulnerability assessments with priority adaptation actions.	Learning objectives:  Identify and understand climate change hazards risks  Identify adaptation measures and priorities Indicators:  No of assessment conducted (in districts)  No of maps	<ul> <li>13 Climate change vulnerability and hazards risks assessment</li> <li>Risk maps</li> <li>Vulnerability maps and data</li> </ul>
Output 1.2.  National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women	Learning objectives:  - Accessible information on climate change hazard risks, vulnerabilities, and adaptation options Indicators:  - No of Climate change resilient agriculture strategy	- Climate change resilient agriculture strategy
Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in three (3) districts in the northwest of Libya, including through around 5900 grant packages to farmers, incl. women  Output 2.2 Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans  Output 3.1. Climate change resilient natural asset / resource (i.e. rangeland management) production system protection / rehabilitation improvements implemented in two (2) districts in the northwest of Libya, including through around 3600 grant packages to pastoralists, incl women  Output 3.2. Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and community development plans	Learning objectives:  - Understand feasible, costeffective climate change adaptation options in the agriculture / livestock sector  - Understand operation and maintenance requirements and practices Indicators:  - No of training workshops to support above  - No of community and / or maintenance plans	<ul> <li>Training workshops</li> <li>Vocational trainings</li> <li>Community and / or maintenance plans</li> </ul>

Output 4.1.  Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field visits to demo plots.	Learning objectives:  - Understand replication techniques of above Indicators:  - No of tools / supporting products for replication	<ul> <li>Field visits</li> <li>Workshops</li> <li>Guidelines</li> <li>Website</li> <li>Social media (YouTube, Facebook, Instagram etc.)</li> <li>Posters and leaflets.</li> </ul>
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## H. Consultative process

- 108. The proposed project has been designed based on inputs from key stakeholders in Libya and project beneficiary groups, including farmers, pastoralists, women, and youth. During project preparation, five types of consultations / inputs shaped the proposal:
  - 1. To align with National priorities, including with the ministry of environment, the ministry of agriculture and the ministry of water resources. The target areas and project activities have been selected together.
  - 2. To align with District-level and community priorities, including with district representatives and vulnerable groups, women and youth.
  - 3. To collect data and information on climate change risks, vulnerabilities, and target beneficiaries (through research, surveys and university involvement.
  - 4. To avoid duplication with other projects, including with government, UN agencies, etc.
  - 5. To identify potential environmental and social risks and impacts, in line with AF policies

During the concept note preparation phase, a technical working group was established to support the preparation of this proposal. Representatives from the following intuitions / organization are part of the working group: the ministry of environment; the ministry of agriculture; the ministry of water resources; UNOPS; FAO; universities. Also, a rapid climate change vulnerability assessment was conducted through consultations / surveys with the purpose to collect data in the five northwestern target districts (managed to get info on four districts so far) on the population, vulnerable groups and climate change hazard risks, main problems experienced due to hazards, barriers to respond / adapt and possible adaptation measures. For outcomes see Outcomes of the rapid climate change vulnerability assessment conducted.

- 109. Table 13 and the paragraphs before.
- 110. As part of the rapid climate change vulnerability assessment, representatives of the following were surveyed / consulted:

Table 24 Surveyed / consulted as part of the rapid climate change vulnerability assessment

Zuwara	Zuwara Municipality	Sanousi Hamoud
	Zuwara Municipality (including farmers representative)	Ali NZDIF
Aljfara	Ministry of Youth Branch Janzour	Mahmoud Ghnidi
	Municipality of Janzour	Farai Aban
	Women's Support and Empowerment Office	Huda Al Hadi Shuwaikh
	Agriculture and Livestock Sector (Suani Ben Adem)	Abdul Mawla Abu Ghanima
Nalut	Nalut Municipality, including the authority of youth, the municipality's youth office)	Muhammad Omar Abu Saw

	Nalut Municipality	Abdulwahab Al-Hajam ( the mayor )	
	Agriculture and Livestock Office	Mohamed Kunis	
	For You Libya Group, which is a euro-	a Group, which is a euro- Najua Eiad Elhijam	
	mediterranean women's foundation		
Al jabal al	Ghiryan munciplity	Yosef Bediri (Ghiryan mayor)	
Gharbi	Ministry of Agriculture & Farmers' Welfare	Osama Al-Tayeb Al-Qunfud	
	Gharyan		
	Agriculture office	Ashur Swiss	
	Agriculture Bureau	Haitham Abdullah Arhouma	
	Women's Support and Empowerment Office	Saeda Alamr	

- 111. In total, the following group representatives were consulted:
  - a. 6 Association of farmers/breeders in the districts of Al jabal al Gharbi, Zuwara, Nalut and Jafara
  - b. 2 Youth Organization in Nalut and Aljfara districts
  - c. 3 women's organizations in the districts of Jabal al Gharbi, Nalut and Aljfara.
  - d. 4 municipalities Gharyan, Nalut, Janzour and Zuwara
  - e. 1 young climate change activist from the Mulan Project.
- 112. Table 25 provides an overview of actors consulted and how outcomes have been incorporated in the project proposal design.

Table 25 overview of outcomes of consultations and how these have been incorporated in the project design

Stakeholder		Outcome / conclusion	Incorporation in	Proof
Main	Sub		project design	
Ministry of environment	Ahmed Abdulqader Alsoudani AF NDA	<ul> <li>Different ministries have different geographical priorities. To ensure the involvement of all three ministries, activities covering not only the north-west, but the north,</li> </ul>	- Components 1 and 3 cover the northwest, northeast and south, ensuring	Multiple e-mails and calls
Ministry of water resources	Fathe Abubker  Director of International cooperation Office  Rep: Rashid elfutaisi	east and south are included - Agreed project target area and interventions.	the involvement of all three ministries	Technique: call Date: July 2022
Ministry of Agriculture, Livestock and Marine Resources	Hana Aghel, Director of International cooperation Office Rep: Sadiq Kamuka			Through e-mail.
Ambassy of Libya in Rome	Dr Ali Kafu	Support coordination between IFAD and ministries in Libya		Multiple e-mails and meetings in Rome
Target districts considered west of Tripoli Target districts considered	Zwara Azzawya  Nalut (focus on north)	For details see description about the rapid climate change vulnerability assessment outcomes and table 17 and the paragraph under it	A planning and decision-making mechanism / process to ensure participation and	A detailed report is available on request

South-west of	Al jabal al		equal distribution of	
Tripoli	Gharbi (focus on north)		project benefits to women, youth, ethnic groups and other vulnerable groups is put into place	
FAO	Helen Sow Faycel Chenini	- FAO uses an innovative methodology to analyze water consumption of different crop systems and damage of irrigation infrastructure through current projects and will test the methodology - FAO is establishing a national coordination mechanism between Ministry of agriculture, water, meteorological center  Lessons learned: - Reached only 3 % women of target - Limited farmer association; women unions	- IFAD to work with FAO on component 1 to align / build upon FAO activities Ensure women involvement targets are feasible - Support establishment of associations / organizations, if needed	Technique: call Date: May 2022
Germany / GIZ	Anke Scholtz Emami Morteza	Youth (17-35) centers have been established in selected municipality –     Main challenges of projects     Involvement government     Travel / logistics with companions required for women	Involve youth     centers where     possible     Minimize travel     as much as     possible	Technique: call Date: May 2022
IOM	David Arnold Masako Ueda Raffaele Bertini Genevieve Lavoie	IOM will have a regional research project targeting Sudan and Libya focusing on linkage between climate change and mobility / displacement. Expected result: baseline info on the topics	Coordinate on data producton and sharing     Use-baseline information / tool / report for CCVA and visa-versa	Technique: call Date: June 2022
UNDP	Mathew Brubacher	According to UNDP, project priority should be: water rationalization (as aquifers may run out and pumping is very costly Challenges:     Limited maintenance and funding desalination plants and wastewater treatment	<ul> <li>Focus on         efficient water         use</li> <li>Avoid focus on         desalination         plants and         wastewater         treatment as this         is not feasible (to         costly and basic         infrastructure not         present)</li> </ul>	Matthew Brubacher UNDP  Technique: call Date: May 2022
<u>UNFPA</u>	Salman Khalid	<ul> <li>UNFPA focuses on the following activities in Libya:</li> <li>Sexual and reproductive health</li> <li>Gender-based violence (GBV) prevention and response</li> <li>Youth</li> <li>Covid-19 response</li> </ul>		Technique: e-mail exchange Date: June 2022
UN Women	Ghada Kannou	Libya is conservative / tradional if it comes to women (e.g. women don't own land; women engineers not allowed to work in the field),	- Conduct analysis of opportunities and risks of women to be involved in	Technique: call

		but young women inceasinlgy active  - Use women tradtional knowledge on water resource use  - Terminology of gender equally is avoided as negative in Libya  - Use quota for women involvement at ministerial level (through women empowerment units in each ministry – esp Ministries of planning, social affairs)  - Access to women at local / municipal level through women councillers	agriculture / livestock (incl. using women knowledge on water) as part of CCVAs planned - Use quota at ministerial level to have women reps in steering committee - Work with women councillers at municipal level and through families - Consider working in yards of houses (safe space)	Date: Nov 2022
UNOPS	Claudia Rosano Nathalie Angibeau Sylvain Cote	- Partnership with IFAD in Libya	- UNOPS to support proposal preparation on the ground potential execution concrete interventions	Technique: call Date: May 2022
USAID	Kelsey Dunn Rabab Shamayleh	USAID focuses on economic growth and some climate change mitigation measures through support of renewable energy.		Technique: call Date: May 2022
WFP	Shaker Alozzi	IFAD became member of the Food security Cluster, which coordinates on food security in Libya:  WFP activities include:     Food distribution     Response to seasonal flooding in the south and east     Post humanitarian agriculture and fishery activities in Fezzan region.		Technique: call Date: May 2022
World Bank	Henriette von Kaltenborn- Stachau Lyad Rammal	WB main focused is on the water sector and (future) activities include:  - Nationwide desalination and institutional capacity building – coordinate on desalination for salt resilient crops - Improving data management (and help the water and wastewater company to prepare and a request for Bid), water emergency plan for Tripoli and	- Avoid focus on desalination plants and wastewater treatment	Technique: e-mail exchange Date: May 2022

		capacity building and training on the procurement and contract management.	
University of Tripoli  Faculty of Engineering  University of Tripoli  Soil and Water Department, Agriculture Faculty	Dr Khaled Dedesh  Solar Energy and Climate change  Prof Ahmad Ibrahim Kamaj  Water Sci, Irrigation and Water resource management	<ul> <li>Proposed target areas and interventions are relevant and priorities</li> <li>Suggestions were made to include other areas as well</li> <li>Expert from university supported the development of the full proposal</li> </ul>	Technique: call Date: July 2022
Climate change activist working at Mulan project	Nissa Bek Derna	<ul> <li>There is no clear national plan of environmental management / cc or leadership</li> <li>There is a need for waster water treatment and waste management but no national funding</li> <li>Olive harvest worst in 2021</li> <li>Low awareness climate change Issues in project target areas: groundwater pollution; unefficient irrigation;</li> <li>Potnetial risk around scarce resources</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if possible</li> <li>Support awareness about climate change</li> <li>Involve president council, if</li> </ul>	Technique: Call Date: July 2022

## I. Justification for funding requested

Table 26 Overview of impact of AF funding compared to no funding (baseline) related to expected project outcomes

Project output/ activity	Baseline (without AF)	Additional (with AF) and alternative adaptation scenario	Budget (USD
Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women  13 climate change vulnerability assessments with priority adaptation actions.  Directly involved 570	Beneficiaries are not aware of climate change hazard risks and response options.  There is no evidence-based and policy framework to respond to climate change impacts / vulnerabilities in the vulnerable agriculture / livestock sector.	The climate change vulnerability and hazards risks assessment (total of 13 for each agriculture area in Libya) and the National climate resilience agriculture / livestock strategy will allow all farmers / pastoralsits in the country to identify climate risks and adaptation options and act within a relevant policy framework. Full climate change vulnerability and azards risks assessment are needed in all agriculture areas, including those that were already	633,000
Women: 30 % Indirect: 6,8 million of which about 30 percent farmers		covered by the rapid assessment as the assessments need to be institutionised (involvement of key	

Output 1.2. National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women  1 strategy Directly involved 570  Women: 30 % Indirect: 6,8 million of which about 30 percent farmers Output 2.1.	Agriculture / livestock	government stakeholders and outcomes) to feed into the national climate resilience strategy.  Alternative: conventional practices such as development in high risk areas, high water consumption for crops, wrong crops in saline environments, etc. will continue, which may result in a loss of yields, income and threated food security, while conventional practices are also more expensive and will be even more in the future.  Using heat and drought resilient	140,500
Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in three (3) districts in the northwest of Libya, including through around 5900 grant packages to farmers, incl. women  Farmers: 5900 households / 35400 people (6 persons / household) Women: 30 %  Output 2.2 Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans  Institutional staff: 60	production and related income and food security is threatened by climate change hazard risks, including conventional / high water consuming crops, irrigation methods and technologies and management of land  Populations are vulnerable due to high poverty rates. Women and youth participation can be regarded as low  There is limited capacity to operate and maintain climate change resilient agriculture / livestock approaches, products and technologies.	crops and salt resistant crops are cost-effective and sustainable solutions in comparison with conventional crops, as these crops will grow better and survive extreme conditions.  Efficient irrigation technology and landscape interventions to capture and store available water will allow farmers / pastoralist to have a more sustainable approach towards water use, reducing risks.  Alternative: conventional practices such as the use of high water consumption crops and limited water storage, etc. will continue, which may result in a loss of yields, income and threated food security. Desalination and wastewater treatment solutions are possible but are not feasible from a timeline and cost-effective perspective  Capacity strengthening to operate and maintain implemented activities is needed to avoid loss of investment if activities are not sustained.	2,385,600

Output 3.2. Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and community development plans			351,500
Institutional staff: 40  O Women: 30% Pastoralists: 3600 Women: 30 %  Output 4.1. Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field visits to demo plots.  - Guidelines: 1 - Farmer field schools: 9 - ToT: 9 - Visits to demo plots: 9	Knowledge and learning of climate change resilient practices, products and technologies and replication of these is limited	Making knowledge / lessons of tested activities available / accessible to inhabitants in other districts will support the replication of these activities Alternatively, other funding sources need to be sought to implement adaptation activities in other areas.	560,542

## J. Sustainability of the project/programme

- 113. Long-term sustainability of the project is ensured by i) emphasising the active participation of communities in the implementation and management of project interventions; ii) strengthening the community-level technical capacity to ensure stakeholders have adequate knowledge and skills to maintain the benefits of the project interventions; iii) training communities extensively on used techniques; and iv) the maintenance of technology and basic business management skills.
- 114. The project ensures sustainability through the participatory approach promoted throughout all project activities, that allow local communities and authorities to build ownership of the project results. Long-term sustainability will be ensured through institutional development and capacity building programmes designed to create a critical mass of efficient practitioners, and among all actors from institutional to grassroots. Where possible, the project will encourage the formation of informal groups of farmers/pastoralists to manage agriculture lands and natural resources (i.e. water resources and rangelands). Moreover, the project will help organizations and households to develop operation and maintenance plans for the the proposed interventions. In addition, the development of the National Climate Resilient Agriculture strategy will ensure that these practices are integrated into the policy process which ensure sustainability of these interventions and also upscaling at the national level. The involvement of the Ministry of Agriculture and the other relevant ministries in the development of this strategy will ensure the political endorsement of the document and act as a guiding note for the government and other development partners when channelling climate finance into the agriculture sector.

115. Replicability will be further ensured through the dissemination of lessons learnt in the field demonstration sites in the four north-western districts. The dissemination of climate-resilient agricultural practices, products and technologies will be supported through workshops, guidelines, farmer field schools, a ToT programme and demo plots. This will ensure that there will be scope for extensive training opportunities for the local communities and will support the continuous transfer of knowledge between trainers and farmers. It will also foster collaboration between local farmers attending the field schools, further supporting the transfer of knowledge and skills throughout local communities.

Table 27 Maintenance / sustainability arrangements

Project output/ activity	Maintenance / sustainability arrangements
Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women  13 climate change vulnerability assessments with priority adaptation actions.  Output 1.2. National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and	<ul> <li>Institutionalisation of assessment and strategy through involvement of kay actors and government planning process</li> <li>Government endorsed national climate resilient agriculture / livestock strategy</li> </ul>
Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in three (3) districts in the northwest of Libya, including through around 5900 grant packages to farmers, incl. women  Output 2.2 Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans	<ul> <li>Operation and maintenance plans developed by target households, organizations and government authorities supported by the national climate resilient agriculture strategy under component 1</li> <li>Guidelines to be developed under comp 4</li> <li>The Training of trainers under comp 4 will ensure that resource people are available for continued adoption and upscaling of adaptation technologies in the agriculture sector. Success of the grant packages to generate income combined with demo plots under comp 4 will also ensure wider adoption.</li> <li>Trainings on operation and maintenance (see 2.2.)</li> </ul>
Output 3.1.  Climate change resilient natural asset / resource (i.e. rangeland management) production system protection / rehabilitation improvements implemented in two (2) districts in the northwest of Libya, including through around 3600 grant packages to pastoralists, incl women  Output 3.2.  Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and community development plans	<ul> <li>Operation and maintenance plans developed by target households, organizations and government authorities supported by the national climate resilient livestock strategy under component 1</li> <li>Guidelines to be developed under comp 4</li> <li>The Training of trainers under comp 4 will ensure that resource people are available for continued adoption and upscaling of adaptation technologies in the livestock sector. Success of the grant packages to generate income combined with demo plots under comp 4 will also ensure wider adoption.</li> <li>Trainings on operation and maintenance</li> </ul>

#### Output 4.1.

Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field visits to demo plots.

- Guidelines
- Farmer field schools (also to support operation and maintenance and replication)
- ToT programme (also to support operation and maintenance and replication)
- o Demo plots

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

- 116. The proposed project seeks to fully align with the Adaptation Fund's Environmental and Social Policy (ESP), and its 15 safeguard areas, as well as its Gender Policy (GP). Further to Section II.E on compliance with regulations/ standards, outlined below is a summary of the findings of the initial screening process to identify and evaluate potential environmental and social risks and impacts of proposed interventions and based on that, of the entire project. With this information, the entire project has been categorized.
- 117. Because of the scope of the proposed project activities, which are numerous and localized, and, where possible, managed by communities who have a stake in avoiding environmental and social risks and impacts, potential direct impacts will be minimal and indirect impacts and transboundary impacts are highly unlikely. Given this, cumulative impacts are also unlikely. As a result, the entire project is regarded as a **medium risk** (Category B) project. Under IFAD categorization this would match 'Moderate.' The project is also categorized as High Climate Risk as per IFAD's 2021 SECAP guidelines.
- 118. The project is designed to generate positive economic, social, and environmental impacts, using inputs from especially farmers/ pastoralists women and youth in target communities and by incorporating best practices from other projects. The adaptation measures proposed will be selected in full agreement with all beneficiary groups, making sure they are culturally appropriate and local.
- 119. The environmental and social risks screening presented in the table below provides a brief overview of the risk screening conducted during the project proposal concept note development phase.
- 120. An Environmental, Social and Climate risk Management Plan (ESCMP) has been prepared to manage any risks and impacts identified then. The same accounts for the gender approach and baseline / plan.
- 121. In addition, the project will comply to IFAD's updated 2021 SECAP guidelines including the development of the Environmental, Social and Climate Management Plan (ESCMP) and a Grievance and Redress Mechanism (GRM).
- 122. **Table 28** provides an overview of the potential project risks and if any further assessment is required. **Table 29** describes these risks and proposed mitigation measures associated with AF Social and Environmental Principles to avoid or reduce these potential risks.

Table 28 Checklist of environmental and social principles

	Checklist of environmental and social principles	No further assessment required for compliance (during project implementation)	Potential impacts and risks – further assessment and management required for compliance
1.	Compliance with the Law		X
2.	Access and Equity		X
3.	Marginalized and Vulnerable Groups		X
4.	Human Rights		X

5. Gender Equality and Women's Empowerment		X
6. Core Labour Rights		X
7. Indigenous Peoples		X
8. Involuntary Resettlement	X	
9. Protection of Natural Habitats	X	
10. Conservation of Biological Diversity		X
11. Climate Change		X
12. Pollution Prevention and Resource Efficiency		X
13. Public Health		X
14. Physical and Cultural Heritage	X	
15. Lands and Soil Conservation	X	

Table 29 Overview of the potential environmental and social impacts and risks and mitigation measures

Checklist of environmental and social principles	Potential risks	Explanation	Mitigation measures to avoid / reduce any potential risks
1. Compliance with the Law	There is a small risk of subcontractor non- complying with national laws / standards	Relevant national standards and project compliance with these been identified. No impact assessment is required by national law (see part II.E) for proposed interventions.  However, there is still a small risk of subcontractor non-complying with national	The project complies with all identified relevant national and international standards and laws. For an overview, see part II.E.  Include standard clause in all project contracts with reference to laws / standards as described in this proposal (Part II.E)
2. Access and Equity	There is a small risk of Inequitable participation in project decision making and access to project benefits due to a weak targeting strategy.	Inputs of potential project beneficiaries have already been collected. These groups include small-holder farmers, ethnic groups, women and youth	The project design supports equal access to project benefits through a participatory approach (i.e. a participatory planning and decision-making process) The project will ensure equal opportunities in participation and
3. Marginalized and Vulnerable Groups	There is a small risk of marginalised groups being excluded from project implementation processes and benefits. This is mainly due to traditions related to gender roles and the tribal culture that could exclude certain groups.		decision-making concerning the project of women, youth, ethnic groups and other vulnerable groups by using quotas and by agreeing on representation in decision-making processes through the use of ToRs, agreements, etc. The targeting strategy will take into consideration the different needs of the different groups for each activities and will apply strict criteria for selection of beneficiaries. A Grievance and Redress Mechanism (GRM) will be put in place to receive complaints and solve them.

	Human Rights	Human rights breaches can arise over denial of access to decision making and project benefits or other human right violations (including sexual harassment and gender based violence).	Treaties not ratified in Libya include:  - CAT-OP - optional protocol of the convention against torture  - CCPR-OP2-DP - second optional protocol to the international covenant on civil and political rights aiming to the abolition of the death penalty  - CED - convention for the protection of all persons from enforced disappearance  - CED, art.32 - interstate communication procedure under the international convention for the protection of all persons from enforced disappearance	Any agreement / contract for the project will include reference to human rights treaties and to respect these. As per principle 8, the project will not allow any involuntary resettlement. The IE will monitor and report on human rights risks and opportunities and adjust activities if necessary if risks occur. A Grievance and Redress Mechanism (GRM) will be put in place to receive complaints and solve them.
5.	Gender Equity and Women's Empowermen t	There is a risk of local cultures / traditions blocking women's voices or exclude them from decision making.	Women are not well represented in local government authorities. An initial gender analysis has been included in the annex 2	See principles 2 and 3 The project has specific gender targets and budget allocations
6.	Core Labour Rights	There is a small risk of labour standards not being respected in project contracts by service providers. This may include:  Non-involvement of local employment  Non-compliance for worker rights  Limited facilities	ILO conventions and protocols currently not ratified: Relevant standards not ratified in Libya include:  Fundamental: C155 - Occupational Safety and Health Convention, 1981 (No. 155) C187 - Promotional Framework for Occupational Safety and Health Convention, 2006 (No. 187) Governance: C129 - Labour Inspection (Agriculture) Convention, 1969 (No. 129) Technical: C184 - Safety and Health in Agriculture Convention, 2001 (No. 184)	The project follows ILO core labor standards. Looking at the conventions and protocols not ratified, the project will be particularly attentive to any health and safety and inspections  Any agreement / contract for project works signed will include reference to compliance with ALL ILO labour standards, also not ratified relevant standards in Libya
7.	Indigenous Peoples	There is a small risk of non-integration of ethnic groups' needs, cultural considerations and possible concerns	Initial consultations with ethnic groups have already been conducted to identify specific needs and possible concerns The inhabitants of the project target areas are not indigenous people but rather ethnic groups namely: Arab-Berber and Berber. However, the Amazigh people live in many areas including the town of At-Wilul at Zwara district which the project is not targeting specifically (the district is targeted but not the town).	The project recognises the rights of all ethnic groups. Free, Prior, Informed Consent (FPIC) will be applied by 1) mapping all ethnic groups and potential impacts of the project on these groups and 2) involving ethnic groups in planning and decision-making processes, including not going ahead with activities if not agreed by ethnic groups (including having written consent The engagement of ethnic groups will be monitored.

	untary ettlement	There is no risk of involuntary resettlements	It is not foreseen that land other than agriculture land will be targeted under this project.	Resettlement as a result of project activities will be avoided at all time.  Owners of private land or people with informal livelihoods that may affected by the project will need to agree with project interventions before they start People without land title can be selected as project beneficiaries without risk of losing investment / land.
9. Prote Natu Habi		There is no risk of Natural Habitats being negatively impacted by project activities	As per Ramsar there are no vulnerable natural habitats in the five north-western target districts. There are only two in Marj and Derna districts.  As per UNESCO there is one biosphere reserve (Ashaafean) in the Nafusa mountains in the target districts of Nalut and Al jabal al Gharbi. No project interventions will take place in these reserve	Natural habitats in Marj and Derna districts will be considered in the CCVAs.
10. Cons of Bid Dive	ological	There is a very small risk of biodiversity being negatively impacted by the project activities under component 2.	As per IUCN Red List From the 21 critically endangered and 24 endangered species, 3 are potentially located in the five north-western target districts: the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture.  Drought and heat resilient and salt resistant crop varieties will be varieties of crops already in use	Although it is highly unlikely, the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture may be impacted by project activities.
11. Clima Char		There is a small risk of increased energy use due to project activities and thus a negligible increase in GHG emissions.	Negligible increase in Libya's GHG emissions.	The project will not support any activities that will increase energy use, such as an increase of water pumping, unless energy use is compensated with renewable energy use.
and Reso	ntion ention ource iency	There is a small risk of inefficient resource use	The grant packages will not be used in the most optimum way and water could be exploited in an unsustainable manner. Also, there is a risk that grant packages will increase the use of agriculture	The project is designed to efficiently use energy and materials and to avoid any produce of additional waste.

		inputs (e.g. pesticides, fertilizers,	
		etc.).	
14. Physical and Cultural Heritage	There is a small risk of health risks, which may include:  - Security incidents - vector borne and communicable diseases - Health and safety incidents - Theft and/or stolen items  Also, Covid-19 transmissionCOVID-19 remains a risk for the project implementation and could cause serious delays. The total cases in Libya stands at 506,775 <sup>37</sup> but the latest trend shows a sharp decline in the number of new cases. On the other hand, the project activities themselves carry the risk of aggravating the spread of COVID-19 among communities as a result of project activities that involve mobilization (e.g. trainings). Otherwise, health risks are limited  There is no risk of project activities negatively impacting heritage sites	The project is expected to have an overall beneficial impact on the public health with improved access to climate-proofed yields and increase quality of produce; Any increase of the use of pesticides as part of project activities will be avoided. However,  As per UNESCO there are 5 cultural heritage sites in Libya  Archaeological Site of Cyrene (1982)  Archaeological Site of Leptis Magna Archaeological Site of Sabratha (1983)  Old Town of Ghadamès (1986)  Rock-Art Sites of Tadrart Acacus (1984)  Although two are located in the five northwestern target districts, these are protected structures and there is no risk of project activities negatively impacted these.	Measures to reduce the potential impact of COVID-19 (and other emerging health risks) situationon project activities will be further assessedproposed under section III.B (financial and project/programme risk management)  These may include flexible approach to having some activities 'online' and mitigationapplying health and safety measures to keep people involved in the project safe. Mitigation measures regarding protecting public health from spreading infections will also be incorporated into the project's ESCMP.  Any increase of the use of pesticides as part of project activities will be avoided  ILO health and safety standards will be applied
15. Lands and	There is no risk of	In the five north-western target	The project is designed to avoid
Soil	project activities negatively impacting	districts there are some soils at the margin of a desert area and	any negative effects on any soil or lands and only have positive
Conservation	lands and soils	coastal soils. These are at risk of	effects through improvement of
		degradation under the current circumstances in the country	soil or reducing degradation.

 $^{37}$  Worldometres (2022). COVID-19 cases: Libya.  $\underline{\text{https://www.worldometers.info/coronavirus/country/libya/}}$  [Last accessed = 31/08/2022).

## PART III: IMPLEMENTATION ARRANGEMENTS

## A. Arrangements for project implementation

123. The following arrangements for project implementation have been agreed upon with the AF DA (Ministry of Environment) and the Execution Partner (UNOPS) in Libya

Figure 19 Project Organigram (simplified)

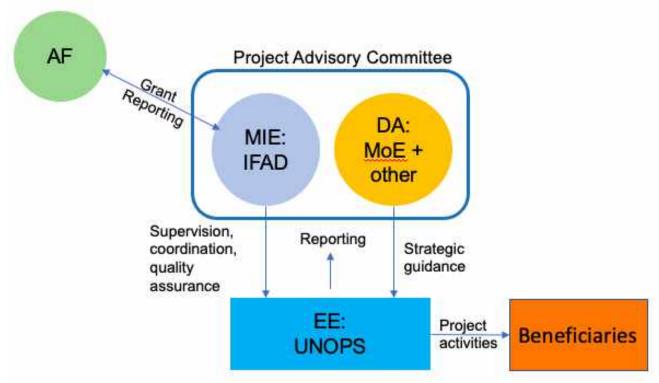


Table 30 Key project stakeholders and roles and responsibilities

Stakeholder	Roles and responsibilities
IFAD	Multilateral Implementing Entity (MIE)  Received the grant / fund from the AF  Project supervision / oversight  Contracting of executing entity (UNOPS)  Quality assurance, incl. ensuring project compliance with AF and IFAD policies and reporting / M&E requirements, incl. safeguarding system (AF Environmental and Social Policy (ESP) and Gender Policy (GP) and IFAD SECAP)  Co-chair of the Project Advisory Committee (PAC)
Ministry of Environment	Adaptation Fund Designated Authority (DA)  - Chair of the Project Advisory Committee (PAC)  - Strategic guidance to the execution entity (i.e., alignment with priorities and laws)  Executing Entity:
51.0.0	Execute project activities (i.e., work with project beneficiaries)     Report to IFAD and the PAC

	- Member of the PAC and involved in decision-making process (especially concerning field operations and project execution)
Project Advisory	- Definition of the project strategy
Committee (PAC)	<ul> <li>Supervision on smooth implementation of the project from start to completion, including ensuring alignment with the agreed upon timetable and compliance with National plans and laws</li> </ul>
	- Validate deliverables/ outputs
	- Provide technical expertise and coordination
	- Conduct regular meetings

Figure 1 and Table 1 above show in a simplified way how the project will be managed / implemented, including the key stakeholders' main roles and responsibilities.

- 124. As IFAD is the Multilateral Implementing Entity (MIE) of the project, IFAD will be responsible for the oversight / supervision of the project, including reporting to the AF, and contracting of the execution entity (UNOPS) and coordination with the Designated Authority of the project. IFAD will ensure the project complies with AF and IFAD policies and reporting / M&E requirements, incl. safeguarding systems (i.e. AF ESP and GP and IFAD SECAP). IFAD will be the co-chair of the PAC.
- 125. The Ministry of Environment is the Designated Authority of the AF. The Ministry will chair the PAC. It will also provide strategic guidance to the execution entity to ensure the project aligns with the agreed upon timetable and compliance with the National laws and plans.
- 126. UNOPS will be the Executing Entity of the project. It will be responsible for executing all project activities. It will therefore work with the project beneficiaries. UNOPS will take part in the PAC and report to IFAD and the DA in line with AF and IFAD reporting requirements. As the operational arm of the UN system, UNOPS is mandated to expand partners' implementation capacity across peace and security, humanitarian, and development efforts. Through its project services including infrastructure, procurement, project management, human resources, and financial management UNOPS supports governments, the United Nations, and other partners in achieving national development goals, and local objectives for people and countries. Moreover, UNOPS has both: i) a consolidated field presence in Libya, an office based in Tripoli, and prior experience in implementing projects across the entire Libyan territory working with national and local authorities; ii) sound experience in managing and implementing agriculture projects in remote, rural areas, also in partnership with IFAD. To name the most recent experiences:
  - a. Libya The Solidarity Bridge project (\$13 million, 2020-2022, funded by the Italian Ministry of Foreign Affairs and International Cooperation), where UNOPS is supporting 20 Libyan municipalities to fight the COVID-19 pandemic by strengthening municipalities' hospitalisation capacity of COVID+ patients; fulfilling municipalities needs for medical equipment, ambulances, waste management trucks; improving municipalities' healthcare systems capacity of surgery, emergency, resuscitation and laboratory services. This is achieved through procurement of +250 medical machineries, +10 ambulances, medical equipment and general medicines, trucks for medical waste collection.
  - b. Libya Financial Audit Review of the Central Bank of Libya (CBL) in Tripoli and the Central Bank Branch in Beyda (\$ 4,2 million, 2019-2021, funded by the Government of the State of Libya): Following Prime Minister Faiez Serraj's request to the Security Council for support on a financial audit review of the CBL in Tripoli and the branch in Bayda on 10 July 2018, the UN mandated the United Nations Support Mission in Libya (UNSMIL) to support the requested Financial Review process of the banking system in Libya. UNSMIL requested UNOPS' support to carry out the procurement of the services for the Financial Audit Review of the two CBL and to manage the services contract.
  - c. Libya Urban solid waste management for the city of Tripoli (\$ 2,3 million, 2017-2023, funded by Italian Agency for Development Cooperation (AICS)): The project aims to support Libyan authorities in improving the hygienic and environmental conditions of Tripoli's population through a more efficient solid waste management system. UNOPS has facilitated the procurement of equipment (containers and vehicles) for waste collection and transportation, and also enhanced the planning capacities of

local authorities in managing solid waste. UNOPS provides Libyan authorities with technical support to launch an international call for tenders for a new landfill and a waste treatment plant, compliant with international standards.

- d. Guinea Support Project for Farming, Resilience and Markets in Upper and Middle Guinea (AgriFarm) (\$12,8 million, 2019-2024, funded by IFAD): UNOPS supported the rehabilitation and construction of 1,584 hectares of irrigated land at 9 sites in the Middle Guinea regions (Labé, Boké, and Mamou), as well as the acquisition of vehicles to strengthen the capacity of the Ministry of Agriculture and family farms through training, advisory support, and the High Labor Intensity Public Works (HLIW) approach.
- e. Niger Support for the development and implementation of the Compact for Sustainable Environment and Water in Niger (\$15,6 million, 2017-2023, funded by the MCC): Irrigation and Market Access Project, which aims to increase rural incomes through improved agricultural productivity and increased sales resulting from modernized irrigated agriculture and improved access to inputs and markets (road rehabilitation, development of hydro-agricultural facilities, management services and market facilitation, policy reforms).

Thus, UNOPS is well placed to execute all activities. Lastly, as the Executing Entity, UNOPS will have the following internal governance structure:

- f. UNOPS Decision-making role UNOPS Project Executive, who will represent UNOPS within the PAC and be accountable for the project accomplishment in front of the MIE and the DA during the entire project lifespan. This role will be covered by the UNOPS Country Manager for North Africa. The Project Executive will assign a Project Manager to oversee the implementation of the Project and deliver the outputs determined by the PAC. The Project Executive will delegate day-to-day implementation to the UNOPS Project Manager, perform quality assurance of all activities, be regularly involved in all planning and implementation steps to provide direction in accordance with strategic guidance received from the PAC, decide, and collaborate with the project team.
- g. UNOPS Management role UNOPS Project Manager, who will be in charge of guiding the team to implement the activities within the agreed scope, budget and time. The Project Manager is responsible for the quality assurance of the project and for ensuring adherence to the project objectives and the agreed work plan. The Project Manager follows up on the implementation of the project with the support of the Project Team.
- h. UNOPS Delivery role **UNOPS Project Team and suppliers**, who will be delivering the outputs/activities assigned to them by the UNOPS Project Manager. This will include performing administrative and procurement functions, and taking care of logistics arrangements to ensure proper outreach of relevant stakeholders and activities performance in target districts.
- 127. The Project Advisory Committee will guide the Executing Entity on the smooth implementation of the project from start to completion, including ensuring alignment with the agreed upon timetable and compliance with National plans and laws. The PAC may also provide technical expertise / inputs, when required. The PAC will consist of the members shown in Table 2 below. The target percentage of women is 30. Representatives of the target districts will include women councilors.

Table 31 Members of the PAC

Project Advisory Committee (PC)						
Stakeholders						
Ministry of Environment		Chair (1)				
Ministry of Agriculture, Livestock and Marine Resources		Member (1)				
Ministry of Water Resources		Member (1)				
Ministry of Finance/International Cooperation	Ministry of Finance/International Cooperation					
Women representative from ministry and / or NGO		Member (2)				
Representatives of target districts Zwara		Member (2, of which 1 women)				
	Azzawya	Member (2, of which 1 women)				

	Nalut	Member (2, of which 1 women)
	Al jabal al Gharbi	Member (2, of which 1 women)
IFAD		Co-chair (1)
UNOPS		Member (1)
Technical experts when required		By invitation
Civil society		By invitation

#### 128. Legal and financial arrangements

IFAD will contract the Project Execution Entity (UNOPS) through an **UN to UN agreement.** Overheads for UNOPS will be deducted from the 9.5 percent execution fee. This means no double overheads are calculated. The financial proposal for this project has already been cleared by IFAD and UNOPS internally.

# 129. Roles and responsibilities for environmental and social risks management / AF ESP and GP compliance and SECAP.

IFAD will be responsible for the environmental and social risks management of the project, including implementation of the Project Environmental, Social and Climate Risks Management Plan (ESCMP). An IFAD expert on compliance with the AF ESP and GP and IFAD SECAP will be part of the IFAD project team (covered under the 8.5 % MIE fee). This expert will also supervise UNOPS on the implementation of the Project ESCMP. IFAD monitoring project staff will also require having expertise on environmental and social risk management and be familiar with the AF safeguarding system.

130. The project will actively support the participation of women, youth and any other vulnerable or marginalized groups as important stakeholders and will guarantee the inclusion of their needs, concerns and abilities in project planning, implementation and monitoring and evaluation. Women representatives (from the ministry and district councilors) will be members of the PAC. All project-related Terms of Reference (ToR) and contracts will include clauses stating contractors will need to comply to the AF ESP, highlighting all relevant principles, especially principle 1 (law), 4 (human rights), 5 (gender), 6 and 13 (labour and safety), 8 (involuntary resettlement, and to the AF GP.

#### 131. UNOPS compliance with AF ESP and GP

UNOPS to insert short text on how to comply with the AF ESP and GP. Please explain UNOPS safeguard system and related expertise on environmental and social risks management and gender policy in the project – how will UNOPS ensure the ESCMP is implemented properly?

- 132. UNOPS has mandatory Health & Safety and Social and Environment (HSSE) Management regulations in place that it applies to all activities and projects, including activities that UNOPS assigns to contractors. This is reflected in the UNOPS Executive Office Directive on Occupational Health & Safety and Social & Environmental Management, which were promulgated by the UNOPS Executive Director in November 2021, for the purpose of affirming UNOPS's commitment to occupational health & safety (HS) and social & environment (SE) management, and to set out the principles UNOPS shall follow in this regard. To underline this Directive, the Executive Office Instructions on Health & Safety and Social & Environmental Management (HSSE) were approved in November 2021, which describe the mandatory processes and performance requirements for the implementation of HSSE management within UNOPS.
- 133. Specifically for project implementation this means that the Project Manager has the final responsibility to ensure compliance with HSSE standards and the IFAD ESCMP. Each project team has a HSSE focal point who is trained to identify, mitigate and report any incidents. Moreover, the Project Manager and Team are continuously assisted and accompanied by the HQ HSSE Team, should any issues arise.
- 134. For any infrastructure components, project team engineers are responsible for identifying HSSE risks on construction sites. For procurement components, the Sustainable Procurement Framework provides additional guidance on how to include sustainability considerations into the process. Sustainable Procurement (SP) is defined as "practices that integrate requirements, specifications and criteria that are compatible and in favour of the protection of the environment, of social progress and in support of economic development, namely by

seeking resource efficiency, improving the quality of products and services, and ultimately optimizing costs"<sup>38</sup>. UNOPS is generally considered a leading organization in SP within the UN, and effective sustainable procurement is integrated throughout the complete procurement cycle. UNOPS project teams that carry out procurement processes are primarily responsible and accountable, through their respective Procurement Authority, for the implementation of procurement processes in compliance with the SP Framework.

- 135. Other strategies and directives have been enacted to help support the implementation of HSSE considerations into projects. This includes for example the Gender Responsive Procurement (GRP) which ensures that the procurement process and the selection of goods, services and works have a positive, holistic impact on gender equality and inclusion. Moreover, the UNOPS Gender Equality and Social Inclusion (GESI) Mainstreaming Strategy in Projects 2022-2025 has been released to support GESI mainstreaming activities across UNOPS projects, and seek to realize the human rights of all people and to achieve gender equality and the empowerment of women and girls.
- 136. Overall, UNOPS operates in alignment with the United Nations Core values of respect for diversity, integrity and professionalism, which underpin and guide the actions and behaviors of all United Nations personnel. UNOPS continuously strengthens its ability to ensure sustainability, safety, diversity and inclusion throughout the project lifespan, regardless of the service line.
- 137. Please see Annex 3 for more details on UNOPS guiding frameworks and directives align with the AF ESP Guidance Principles

#### 138. Adaptive management

When changes in project activities or additional activities are required, these will need to go through a new risks screening and impact assessment process in compliance with AF, IFAD and national policies and standards. When this is required, this will be led by IFAD and the PAC would need to approve the changes.

#### 139. Launch of the project

At the launch of the project, IFAD will organize an **inception workshop** inviting members of the PAC, UNOPS and other key stakeholders. The project approach and the proposed outputs and outcomes of the project will be presented and discussed with the purpose to solicit feedback and inputs in a participatory manner. Comments and feedback will be incorporated in project frameworks and workplans. The Inception Workshop aims to:

- (i) Enhance participants' understanding of the project objectives and activities and take ownership of the project
- (ii) Discuss and confirm the organizational structure of the project, including roles and responsibilities
- (iii) Confirm / agree upon project monitoring framework and workplan
- (iv) Confirm / agree upon project risks management framework
- (v) Discuss and agree upon project knowledge management framework and plan
- (vi) Confirm / agree upon the project Environmental and social Risks Management Plan
- (vii) Agree on the annual work plan for year one.

140. The inception workshop will be organised within three months after signing the project agreement between the Adaptation Fund and IFAD.

## B. Measures for financial and project risk management

141. The table below gives an overview of overall potential project management and financial risks, an assessment of the significance of the pertaining risks in terms of likelihood and impact and outlines measures that have been embedded in the project design in order to manage and/or mitigate these risks.

Table 32 overview of financial and management risks and measures to mitigate these

<sup>&</sup>lt;sup>38</sup> Sustainable Procurement Statement adopted by the HLCM Procurement Network meeting, Vienna, February 2009, and endorsed by UNOPS.

Potential risks	Likeli hood (1-5)	Imp act (1-5)	Mitigation measures	Indicator to verify
Institutional				
1 Delay of project start-up because critical staff is not in place and / or lengthy contracting process, incl. negotiations with execution entities	3 Med	3 Med	<ul> <li>IFAD has critical staff in place at regional / HQ level to start and manage the project, incl. preparing the inception workshop;</li> <li>UNOPS has been identified as the executing entity and overhead and implementation arrangements have been agreed upon. UNOPS has an office presence in Libya with full time staff on the ground; the Libya office is overseen and supported by the UNOPS regional hub for North and West Africa, which provides quality assurance to all projects in the region.</li> <li>IFAD commits to organise the inception workshop within three months of the signed project agreement between IFAD the AF</li> <li>UNOPS works with Libyan recruitment agencies, such as Committed To Good, which specialise in identifying and recruiting necessary experts for development and humanitarian aid organisations operating in the country.</li> </ul>	Inception workshop organised within three months of the signed project agreement between IFAD and AF  UNOPS will be contracted within three months of the signed project agreement between IFAD and AF
2 Loss of government support (at ministerial and / or district level) for the project and activities due to political changes (e.g. elections; other priorities).	1 Low	3 Med	<ul> <li>The members of the project Advisory         Committee (PAC) have already been agreed         upon with the DA.</li> <li>IFAD and the Ministry of Environment will sign         a MoU, which states that the Ministry of         Environment will be committed to support the         implementation of the project.</li> </ul>	Signed MoU between IFAD and the Ministry of Environment
3 Communities may not adopt activities during or after the AF project, including maintenance	2 Low	3 Med	A strong participatory approach at the community level is used and will be used during project implementation to ensure that activities are implemented in a way that is culturally-sensitive and appropriate, to ensure ownership and support of communities to the realised interventions in the targeted project areas.     Regularly consult direct beneficiaries to collect their satisfaction feedback, promptly identify their concerns regarding participation in some activities.     Capacity building and training of communities will be undertaken to improve their awareness and understanding of the benefits of the activities, including operation and maintenance	Community plans in place for project activities maintenance

4 Complexity of financial management and procurement.	2 Low	2 Low	<ul> <li>Financial management arrangements with UNOPS have been agreed upon</li> <li>Activity specific procurement will be managed by UNOPS, which is the specialised procurement agency within the UN system, as agreed through UN to UN agreements (with relevant conditions, incl. evidence of recognised procurement policies and procedures and specific terms and conditions for timely disbursement of funds for project activities while at the same time ensure provisions on good financial management, hence minimizing the risk of fund mismanagement or corruption).</li> <li>UNOPS has already extensive procurement experience in Libya (as shown by the Solidarity Bridge project described above) and has established Long Term Agreements (LTAs) with diversified suppliers that are able to deliver and transport goods all over the country.</li> </ul>	Timely audit reports following international standards  Timely evidence of recognised procurement policies and procedures provided by Execution Entities
5 Inflation and instability of the national currency leading to budget issues and increased prices for infrastructure delivery  Physical	3 Med	3 Med	<ul> <li>All budgets will be in US\$</li> <li>Early/ preliminary verification of activities costs and potential suppliers to define the activities plan and related financial resources per activity</li> <li>Include clauses in all contracts, incl. with private sector, that they can't increase the costs after signing a contract</li> </ul>	All budgets in US\$  Clauses in all contract, incl. with private sector, that they can't increase the costs after signing the contract
6 Political instability and security issues in the target areas inhibits movement and execution of project activities	3 Med	3 Med	<ul> <li>One of the selection criteria for the project target districts was safety and limited need for travel</li> <li>Throughout the implementation of the project, UNOPS will continuously coordinate with the UN Department of Safety and Security (UNDSS) and national/ local authorities to reduce security risks to ensure staff safety and continuity of operations, to timely intercept deteriorating security risks and adapt/ re-plan project activities.</li> <li>In case the target areas are not accessible, IFAD and UNOPS will identify alternative intervention locations and request approval from the Advisory committee and the AF</li> </ul>	Permanent field staff at project locations
7 Poor weather conditions affect implementation of activities	2 Low	1 Low	- IFAD and UNOPS have and will develop work plan in line with sowing season and to avoid work in the hot season, if possible. If unexpected weather patterns occur, the proposed activities and work plan will be reviewed to make practical adaptations.	Work plans in line with sowing season, etc.
8. Covid-19 spread, leading to inaccessibility of target area and / or delays of project activities	3 Med	3 Med	<ul> <li>See also Covid-19 risks response in annex 1 including procedures</li> <li>IFAD and UNOPS will only let field work proceed if agreed with the UN security unit; safety and potential instability will be monitored continuously.</li> <li>If needed and possible, activities will proceed online.</li> </ul>	Monitoring of Covid-19 risks response in annex 1, including procedures  UN security unit recommendations

- If activities cannot be pursued due to Covid-19,	
alternative strategies and options will be	
considered	

## C. Measures for environmental and social risks management

- 142. IFAD's Strategic Framework calls for ensuring that projects and programmes promote the sustainable use of natural resources, build resilience to climate change and are based upon ownership by rural women and men themselves in order to achieve sustainability. The project design was assessed through the social, environmental and climate assessment procedures (SECAP) of IFAD, which are fully aligned with the AF Environmental and Social as well a Gender Policies, as shown in the ESCMP. Following the IFAD SECAP screening and the AF Environmental and social risks screening in annex 1 (ESCMP), the project has been categorised as a category B.
- 143. Part II.K of this proposal summarizes the outcome of the environmental and social risks screening / impacts assessment that has been conducted for this project to comply to the AF ESP and GP and thus the outcome of the categorization (i.e. category B). In Annex 1, all the details of the risks screening, impact assessment, ESCMP, incl. the risks monitoring system and budget, are provided. In Part II.H it shows what consultations have been conducted to identify potential environmental and social risks and impacts, including with key stakeholders. Part III.A describes the allocated roles and responsibilities for environmental, social and climate risk management, including to implement the project ESCMP. A designated budget for environmental, social and climate risks management, including the implementation of the ESCMP, has been included in the M&E budget.
- 144. Below table provides an overview of the project requirements to the AF ESP and GP and what has been done to ensure this compliance.

Table 33 ESP and GP compliance requirements and how the proposal complies to these requirements

ESP and GP compliance requirements	Project compliance to the AF ESP and GP	Reference / evidence
Have all potential environmental and social risks been identified for all project/programme activities prior to funding approval?	All potential environmental and social risks (incl. for gender and considering their significance) have been identified for all project/programme activities at the project preparation phase. An ESCMP report (annex 1) is in compliance with the AF ESP and GP and in line with national requirements for conducting ESIAs has been prepared; Outcomes have been consolidated in the proposal	Part II.H Part II.K Annex 1 (ESP annex) Annex 2 GP annex)
Has the environmental and social assessment been completed before the project/programme proposal submission to the Adaptation Fund, and its findings included in the proposal document?	In compliance with the AF ESP and GP and national requirements for conducting ESIAs, environmental and social assessments have been completed.	
Has an ESCMP been developed and does this include safeguard measures to be implemented during a project/programme?	A project ESCMP has been developed, including safeguarding measures. The following has been included in the ESCMP:  - Allocated roles and responsibilities environmental and social risk management / implement of the ESCMP  - Opportunities for adaptive management  - Arrangements to supervise executing entities for implementation of ESCMP  - Budget provision to manage environmental and social risks / implement of the ESCMP  - Measures to avoid, minimize, or mitigate potential risks  - Risks monitoring system / indicators  - Grievance mechanism	Part III.A (roles and responsibilities for env. and social risk management)  Annex 1 (ESP annex)

Will a grievance mechanism be put in place and how will it be made widely known to identified and potentially affected parties	A project grievance mechanism will be put in place, as described in the ESCMP. It will be made widely known to identified and potentially affected parties through community mobilisers, posters and online content	Annex 1 (ESP annex)
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## D. Arrangements for monitoring, reporting and evaluation

#### 145. M & E Framework and plan

Monitoring and Evaluation (M & E) arrangements for this project will be in compliance with the AF M&E guidelines and ESP and GP and with IFAD and UNOPS M & E policies and guidelines. This means, as a minimum, the following will be monitored and evaluated: project Milestones, Financial data, Procurement data, Risks assessment, ESP Compliance, GP Compliance, Project indicators, Lessons learned, project Results. The M & E of progress in achieving project results will be based on targets and indicators (also for gender) established in the Project Results Framework (see Part III.E).

- 146. The annual project performance reports (PPRs) will include a section on the status of implementation of any environmental and social management plan, including those measures required to avoid, minimize, or mitigate environmental and social risks. The reports shall also include, if necessary, a description of any corrective actions that are deemed necessary. The terminal evaluation report will include an evaluation of the project's performance with respect to environmental and social risks.
- 147. IFAD will ensure timely and high-quality M & E by keeping oversight of the process by providing guidance to UNOPS and national government partners through full briefing of M & E requirements. Where possible, the M & E process will be participatory, involving key stakeholders at national, municipal and communities. The implementation of project activities will be monitored by the IFAD HQ with dedicated monitoring staff, which will require having expertise of M & E compliance to the AF ESP and GP. Audits of financial statements will follow acceptable international standards. The M&E plan will be implemented as proposed in the table below.

Table 34 M & E plan

Type of M&E Activities	Responsible Parties	Time Frame	Reporting
Inception Workshop and Report	IFAD Project manager Coordinated with: UNOPS and Advisory committee	Workshop: within first three months of signing between AF and IFAD Report: within one month after inception workshop	Inception Report, including 1st year workplan, monitoring framework and plan; project risks management framework and plan; environmental and social risks management framework and plan; knowledge management strategy
Periodic status/ progress reports	IFAD Project manager Coordinated with:	Annually	Annual Report, mid-term, final
Compliance with ESP and GP	UNOPS and auditors	Annual, as well as upon receipt of complaints, grievances or queries	Annual Report, mid-term, final
Audits		As per AF timeline	Audit Reports
Terminal project performance report		No later than project completion	Terminal project performance report
Final Evaluation	IFAD Project manager Coordinated with: UNOPS and External consultants	No later than project completion	Final Evaluation Report
Community consultations / workshops / trainings, etc.	UNOPS	Within one week after each event	Documentation

Visits to field sites	IFAD Project manager Coordinated with: UNOPS	At least every year	Field visit Report
Video with 'before' and 'after' the project	IFAD Project manager Coordinated with: UNOPS and Advisory committee	Video one: before start of concrete interventions Video two: after completion concrete interventions	Video compilation of project results

148. For related data, targets and indicators, please see the project proposal results framework (Part III.E). The M&E budget is below:

M&E								
Type of M & E Activity	Activity	Entity	Total	1	2	3	4	
	Inception Workshop	UNOPS	20 000	20 000				
Measurements of means of verification (baseline assessment and M & E plans) as part of inception	Reports preparation and EE compliance to AF ESP and GP	UNOPS	30 000	30 000				
Direct Project Monitoring and Quality Assurance including annual progress and financial reporting, project revisions, technical assistance and ESP and GP compliance (from execution fee M & E and safeguards)		UNOPS	126 000	36 000	36 000	36 000	18 000	
Overall project monitoring and evaluation (from cycle management fee)		IFAD	35 000	5 000	10 000	10 000	10 000	
Audits	In line with acceptable international standards	IFAD/ UNOPS	-					
Terminal external evaluation		Independent	25 000				25 000	
Total			236 000	91 000	46 000	46 000	53 000	

#### 149. M&E Activities

#### a) Inception workshop and Project advisory committee meetings

The first Project advisory committee meeting will be organized in conjunction with the project Inception Workshop. During the first Project advisory committee meeting, the following will be reviewed: the project organizational structure, includes roles and responsibilities, the project monitoring framework and workplan, the project risks management framework, the project knowledge management framework and plan, the project Environmental and social Risks Management Plan and annual work plan for year one. The Project advisory committee will meet every six months, and ad-hoc meetings will be held as needed.

#### b) Periodic project monitoring and terminal project performance reporting

Annual project performance monitoring will be conducted using the AF PPRs template. This will include monitoring of project: Milestones; Financial data; Procurement data; Risks assessment; ESP Compliance; GP Compliance; Project indicators; Lessons learned; Project Results

#### c) ESCMP implementation monitoring

The implementation of the project Environment, Social and Climate Management Framework / Plan (ESCMF/P) as described in annex 1 will be monitored. The ESMF/P includes monitoring indicators and responsibilities for identified potential risks, impacts and mitigation measures. A dedicated budget for monitoring the compliance to the AF ESP and GP has been included in Part III.G

#### d) Final Evaluation

No later than project completion, a final evaluation will be conducted following AF and IFAD policies and guidelines. It will be conducted by an independent team of international and national experts in consultation with executing entities and national stakeholders as a participatory process.

#### e) Community Level Participatory Monitoring

Part of the detailed project monitoring framework and plan will be identified through activities to involve Project Execution Entities and beneficiaries at the community level in monitoring activities. This would include community-level monitoring of Gender and Youth responsiveness and impact of the project.

#### f) Periodic Project Site Visits

Members of the Project advisory committee and representatives of IFAD will visit project sites and hold meetings with the local stakeholders to monitor the implementation of project activities.

#### g) Video with 'before' and 'after' the project

Also, as part of the knowledge management strategy and plan, a video recording project results will be produced using 'birds' eye' views and recording of project activities and beneficiaries

#### 150. Reporting

#### a) Inception Workshop and Report

Within one month after the inception workshop, an Inception Report will be submitted to the AF and project steering committees' members. Reports will include: (i) agreement on organizational structure of the project, including roles and responsibilities; (ii) monitoring framework and workplan; (iii) project risks management framework; (iv) knowledge management framework and plan; (v) Environmental and social Risks Management Plan; (vi) year one work plan.

#### b) Annual project performance reports, including final report

The Annual project performance reports, which will be submitted to the AF, will include:

- (1) Milestones
- (2) Financial data
- (3) Procurement data
- (4) Risks assessment
- (5) ESP Compliance
- (6) GP Compliance
- (7) Project indicators
- (8) Lessons learned

(9) Project Results to measure targets against baseline

#### c) Community Level Meeting /Workshop / Training Reports and site visit

Reports on all community-level meetings, workshops, and training will be prepared by Project Execution Entities within one week of the event. Photo documented site visit reports, also to monitor women participation, will also be prepared by Project Execution Entities.

#### d) Financial Audits

A professional, certified and independent organization will review the financial satatements and adherence to required standards and regulations.

#### e) Final Evaluation Report

Independent consultants will prepare the Final Evaluation report in line with AF and IFD evaluation policies and guidelines and norms and standards for evaluation in the UN system.

# E. Project proposal results framework

Table 35 Project results framework with indicators, their baseline, targets, risks & assumptions and verification means

	s framework with indicators, their baseline				A		D
Expected Result	Indicators	Baseline	Targets	Means of verification	Assumptions	Frequenc	Respons
		data		(where and how)	(external factors or risks)	У	ibility
Component 1				(where and now)	OI TISKS)		
Outcome 1	Drought, flood and salinization hazard	Ineffective	Effective sharing	Documentation of	Required to agree	Baseline,	IFAD in
Increased awareness of public	risks information and adaptation options	sharing	Litootivo onamig	risk and adaptation	on how to assess	mid-term	coordian
institutional staff, farmers /	for the agriculture / livestock sector	onamg		information	effectiveness of	and end	tion with
pastoralists and women groups of	generated and shared with:			(published online	sharing info	and one	UNOPS
relevant climate change hazard risks	- Institutional staff at national level	0	50	and shared in	onamig inio		0.10.0
and adaptation options and priorities	- Institutional staff at district level	0	130 (10 / district)	person)			
for the agriculture / livestock sector	- Farmers / Pastoralists	0	390 (30 / district)	,			
and improved mainstreaming of this	- % Women		30 %	Sharing of			
information into planning processed	- Farmers / Pastoralist indirect	0	TBD	information in 13			
				districts with target			
In line with AF outcome 1				beneficiaries before			
				end of the project			
Output 1.1.	Number of climate change vulnerability	0	13 (1 / district)	Completed (i.e.	Ensure relevant	Baseline,	IFAD in
Climate change vulnerability and	and hazards risks assessments completed			documented /	risks and	mid-term	coordian
hazards risks assessments	for the agriculture/ livestock sector at			published) climate	adaptation options	and end	tion with
conducted for the agriculture/	regional (i.e. district) level			change vulnerability and hazards risks	are identified and		UNOPS
livestock sector in Libya, specifically targeting districts in the north-west				assessments	prioritized, also for vulnerable groups,		
(5), north-east (4) and south (4) with				assessificilis	women and youth		
the participation of vulnerable groups					women and youn		
and women							
Output 1.2	Number of national climate resilient	0	1 (at national level)	Completed (i.e.	Ensure relevant	Baseline,	IFAD in
National climate resilient agriculture /	agriculture / livestock strategies developed		·	documented /	risks and	mid-term	coordian
livestock strategy developed in which				published) national	adaptation options	and end	tion with
climate change hazard risks and				climate resilient	are identified and		UNOPS
adaptation options are identified,				agriculture /	prioritized, also for		
prioritized and promoted at national				livestock strategy	vulnerable groups,		
and district level, with specific					women and youth		
attention to the needs of vulnerable							
groups and women Component 2							
Outcome 2	% of target population (households)	0	80	Change in crops for	Baseline survey	Baseline,	IFAD in
Increased climate change resilience	implementing drought/heat resilient crops			each targeted	required at	mid-term	coordian
and sustainability of agriculture	and salt resistant crops		00	household	inception phase	and end	tion with
livelihoods, including strengthened	- % women-headed households	0	30				UNOPS
sources of income and ownership of							

adaptation measures, benefitting farmers and women in four (4) districts in the northwest of Libya	Increased income (%) vis-à-vis baseline from alternative agriculture crops (from households with increased income - % women-headed households	0	5-10	Increased income versus baseline income	Ensure targeting female-headed households		
In line with AF outcome 3 and 6	- 70 Women-neaded nodseriolds	0	30				
	IFAD: Number of households reporting adoption of environmentally sustainable and climate-resilient technologies and practices	0	4720 HH				
Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in four (4) districts in the northwest of Libya, including through around 5900 grant packages to farmer, women and youth groups	Number of grant packages distributed  Core Indicator 6.1.2: Increased income, or avoided decrease in income - Number and % of target households with increased income, or avoided decrease in income  Income level in USD	0 0 0	5900 4720 households 80 %	Calculate number / % of targeted households with increased income versus baseline income  Calculate ha of	Baseline survey required at inception phase  Ensure targeting female-headed households	Baseline, mid-term and end	IFAD in coordian tion with UNOPS
	IFAD: Number of hectares of farmland under water-related infrastructure constructed/rehabilitated	0	Actual TBD	farmeland with new crops			
Output 2.2 Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans	Number of people trained:  - Public institution  - % women  - Farmers  - % women  Number of relevant organizations (i.e., farmer, water user, women) strengthened and or created  Number of community development and / or maintenance plans completed	0 0 0 0	60 30 5900 30 3 (1 / target district)	Count people trained  Count relevant organiozations supported  Count community development and / or maintenance plans developed	Plans should accuraletly target intervention sites and support maintenance of interventions	Baseline, mid-term and end	IFAD in coordian tion with UNOPS
Component 3	O/ of toward population (households)	l o	80	Change in	Deceline comment	Deceline	IFAD in
Outcome 3 Increased climate change resilience and sustainability of pastoralist livelihoods, including increased	% of target population (households) implementing actions to increased the climate change resilience of natural asset / resource production systems	0		Change in effectiveness of natural resource improvement	Baseline survey required at inception phase	Baseline, mid-term and end	coordian tion with UNOPS
natural asset / resource production system resilience and ownership of adaptation measures, benefitting pastoralist and women in two (2) districts in the northwest of Libya	- % women-headed households  Effectiveness of natural asset / resource production system improvement under climate change and variability-induced stress	0 Ineffective	30 % Effective		Required to agree on how to assess effectiveness of improving land / water ecosystem		

In line with AF outcome 3 and 5	T	I			production		
In line with AF outcome 5 and 5	IFAD: Number of households reporting	0	2880 HH		services		
	adoption of environmentally sustainable	0	2000 ПП		Services		
	and climate-resilient technologies and						
	practices						
	IFAD: November of success common and also		0000 1111				
	IFAD: Number of groups supported to	0	2880 HH				
	sustainably manage natural resources and						
	climate-related risks						
Output 3.1.	Number of grant packages distributed	0	3600	Calculate ha of	Baseline survey	Baseline,	IFAD in
Climate change resilient natural asset	- % women			natural assets /	required at	mid-term	coordian
/ resource (i.e. rangeland				resources	inception phase	and end	tion with
management) production system	Core Indicator 5.1: Natural Assets	0	TBD	(rangelands)			UNOPS
protection / rehabilitation	protected or rehabilitated - Ha of natural			protected or	Required to agree		
improvements implemented in two (2)	assets / resources (rangelands) protected			rehabilitated	on how to assess		
districts in the northwest of Libya,	or rehabilitated				effectiveness of		
including through around 3600 grant				Change in	natural assets /		
packages to pastoralists and women	Effectiveness of natural assets / resources	Ineffective	Effective	effectiveness of	resources		
groups	(rangelands) protection / rehabilitation			natural resource	(rangelands)		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			protection /	protection /		
	<b>IFAD</b> : Number of hectares of land brought	0	TBD	rehabilitation	rahabilitation		
	under climate-resilient management						
	and cimiato recinent management						
Output 3.2	Number of people trained:			Count people	Plans should	Baseline,	IFAD in
Relevant public Institutional staff,	- Public institution	0	40	trained	accuraletly target	mid-term	coordian
pastoralists and women trained to	o % women	0	30		intervention sites	and end	tion with
implement, maintain and sustain	- Pastoralists	Ō	3600	Count relevant	and support		UNOPS
climate change resilient natural asset	o % women	Ŏ	30	organiozations	maintenance of		
/ resource (i.e. rangeland	70 110111			supported	interventions		
management) production system	Number of relevant organizations (i.e.,	0	2 (1 / target district)	Сарроноа	I Itol vontiono		
improvements and to support the	pastoralist, water user, women)		2 (17 target arearet)	Count community			
strengthening or creation of	strengthened and or created			development and /			
community organizations and	Strongthened and or oreated			or maintenance			
community development plans	Number of community development and /	0	2 (1 / target district)	plans developed			
community development plans	or maintenance plans completed	0	2 (17 target district)	piaris developed			
Component 4	of marketaries plans sempleted						
Outcome 4	Innovative adaptation practices in food	Not	Encouraged /	Sharing of relevant	Agree on	Baseline,	IFAD in
Climate change resilient practices	security encouraged at national and district	encourag	accelerated	knowledge and	mechanism to	mid-term	coordian
and products piloted in the four (4)	level	ed	accolorated	learning in 9 other	share knowledge /	and end	tion with
districts in the northwest of Libya are	10401				learning in 9	and one	UNOPS
encouraged / supported for replication				districts through	districts		
in one (1) district in the northwest,				workshops,	uiotiioto		
four (4) districts in the northeast and				guidelines, farmer			
THOU 141 DISTICTS IN THE HORIDEAST AND							
four (4) districts in south through a				field schools, a ToT programme and			

### Annex 5 to OPG Amended in October 2017

national – district – community replication mechanism				field visits to demo plots.			
In line with AF outcome 8							
Output 4.1.	Number of key findings on effective,			Count of guidelines,	Baseline survey	Baseline,	IFAD in
Mechanism implemented to capture	efficient adaptation practices and products			farmer field schools,	required at	mid-term	coordian
and disseminate relevant knowledge	generated and shared			ToT and visits of	inception phase	and end	tion with
and learning of climate change	- Number of guidelines	0	1	demo plots			UNOPS
resilient practices, products and	<ul> <li>Number of farmer field schools</li> </ul>	0	9				
technologies and to replicate these at	- Number of ToT	0	9	Measure	Survey to include		
the national level and to one (1)	<ul> <li>Number of visits to demo plots</li> </ul>	0	9	effectivenss of	questions to		
district in the northwest, four (4)	- Participants	0	270	knowledge sharing	measure the		
districts in the northeast and four (4)	o % women	0	30		effectivenss of		
districts in south and to vulnerable					sharing		
groups and women, including through	Effectivenss of sharing	Ineffective	Effective		knowledge /		
workshops, guidelines, farmer field					learning		
schools, a ToT programme and field					<u> </u>		
visits to demo plots.							

Table 36 Indicative Core Indicator Targets

Core indicator	Targe	Comment	
	Direct	Indirect	
Number of beneficiaries	T: 570	T: 6,8 million	
Component 1	W: 30 %	W: 30 %	
Number of beneficiaries	T: 35 400 (5 900 HH)	1 340 019	
Component 2	W: 30 %		
Number of beneficiaries	T: 21 600 (3 600 HH)		
Component 3	W: 30 %		
Number of beneficiaries	T: 270	T: TBD	
Component 4	W: 30 %	W: 30 %	
AF Core Indicator: No. of beneficiaries	T: 57 840	1 340 019	
	W: > 30 %		
IFAD: Number of people with greater resilience			
AF Core Indicator 5.1: Natural Assets protected or rehabilitated - Ha of natural assets / resources	TBD		
(rangelands) protected or rehabilitated			
<b>IFAD</b> : Number of hectares of land brought under climate- resilient management			
AF Core Indicator 6.1.2: Increased income, or avoided	4720 households / 80 %	6 of target	
decrease in income - Number and % of target households	households	-	
with increased income, or avoided decrease in income	5-10 % increase of inco	ome	
IFAD: Number of people with increased income			

<sup>\*</sup>Methodology to apply: https://www.adaptation-fund.org/wp-content/uploads/2016/04/AF-Core-Indicator-Methodologies.pdf

## F. Project alignment with the Adaptation Fund results framework

Table 37 Project alignment with the Adaptation Fund results framework

Project Outcome(s)	Project Outcome Indicator(s	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
Impact Increased resiliency in the agriculture / livestock sector to climate variability and change	Core Indicator: No. of beneficiaries, incl. % farmers, pastoralists, women, with increased resilience indicated per target district and at national level	Impact: Increased resiliency at the community, national, and regional levels to climate variability and change	Core Indicator: No. of beneficiaries	
Outcome 1 Increased awareness of public institutional staff, farmers / pastoralists and women groups of relevant climate change hazard risks and adaptation options and priorities for the agriculture / livestock sector and improved mainstreaming of this information into planning processed	Drought, flood and salinization hazard risks information and adaptation options for the agriculture / livestock sector generated and shared with:  - Institutional staff at national level  - Institutiobak staff at district level  - Farmers / Pastoralists  - % Women  - Farmers / Pastoralist indirect	Outcome 1: Reduced exposure to climate-related hazards and threats	Indicator 1: Relevant threat and hazard information generated and disseminated to stakeholders on a timely basis	773,500

Outcome 2 Increased climate change resilience and sustainability of agriculture livelihoods, including strengthened sources of income and ownership of adaptation measures, benefitting farmers and women in four (4) districts in the northwest of Libya	% of target population (households) implementing drought/heat resilient crops and salt resistant crops - % women-headed households  Increased income (%) vis-à- vis baseline from alternative agriculture crops (from households with increased income - % women-headed households	Outcome 3: Strengthened awareness and owernship of adaptation and climate risk reduction processes  Outcome 6: Diversified and strengthened livelihoods and sources of income for vulnerable people in targeted areas	Indicator 3.1: Increase in application of appropriate adaptation responses  Indicator 6.2: Increase in targeted population's sustained climate-resilient alternative livelihoods	4,267,500
Outcome 3 Increased climate change resilience and sustainability of pastoralist livelihoods, including increased natural asset / resource	% of target population (households) implementing actions to increased the climate change resilience of natural asset / resource production systems - % women-headed	Outcome 3: Strengthened awareness and owernship of adaptation and climate risk reduction processes	Indicator 3.1: Increase in application of appropriate adaptation responses	2,737,100
production system resilience and ownership of adaptation measures, benefitting pastoralist and women in two (2) districts in the northwest of Libya	households  Effectiveness of natural asset / resource production system improvement under climate change and variability-induced stress	Outcome 5: Increased ecosystem resilience in response to climate change and variability-induced stress	Indicator 5: Ecosystem services and natural resource assets maintained or improved under climate change and variability-induced stress	
Outcome 4 Climate change resilient practices and products piloted in the four (4) districts in the northwest of Libya are encouraged / supported for replication in one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south through a national – district – community replication mechanism mechanism	Innovative adaptation practices in food security encouraged at national and district level	Outcome 8: Support the development and diffusion of innovative adaptation practices, tools and technologies	Indicator 8: Innovative adaptation practices are rolled out, scaled up, encouraged and/or accelerated at regional, national and/or subnational level	560,542
Project Output(s)	Project Outputs(s) Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)
Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north- west (5), north-east (4) and south (4) with the participation of	Number of climate change vulnerability and hazards risks assessments completed for the agriculture/ livestock sector at regional (i.e. district) level	Output 1.1 Risk and vulnerability assessments conducted and updated	Indicator 1.1: No. of projects/programmes that conduct and update risk and vulnerability assessments	633,000

Condensated a suscession and			T	1
vulnerable groups and				
women	Number of national climate			140,500
Output 1.2  National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are	resilient agriculture / livestock strategies developed			140,500
identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women				
Output 2.1.	Number of grant packages	Output 6	Core Indicator 6.1.2:	3,800,000
Climate change resilient	distributed	Targeted individual and	Increased income, or avoided decrease in	
crops (i.e., drought /heat resilient and salt	Core Indicator 6.1.2:	community livelihood strategies strengthened	income	
resistant crop varieties)	Increased income, or	in relation to climate	indonio	
implemented in four (4)	avoided decrease in	change impacts,		
districts in the northwest	income - Number and % of	including variability		
of Libya, including through around 5900	target households with increased income, or			
grant packages to	avoided decrease in income			
farmer, women and				
youth groups	Income level in USD			
Output 2.2 Relevant public	Number of people trained: - Public institution	Output 3.2: Stengthened capacity of	Indicator 3.2.1: No. of technical	467,500
Institutional staff.	o % women	national and subnational	committees/associatio	
farmers and women	- Farmers	stakeholders and	ns formed to ensure	
trained to implement,	o % women	entities to capture and	transfer of knowledge	
maintain and sustain	Number of relevant	disseminate knowledge	Indicator 3.2.2:	
climate change resilient crops and to support the	organizations (i.e., farmer,	and learning	No. of tools and	
strengthening or	water user, women)		guidelines developed	
creation of community	strengthened and or created		(thematic, sectoral,	
organizations and community development	Number of community		institutional) and shared with relevant	
plans	development and / or		stakeholders	
p.cc	maintenance plans		otaliono.doi o	
	completed			
Output 3.1. Climate change resilient	Number of grant packages distributed	Output 5: Vulnerable ecosystem	Core Indicator 5.1: Natural Assets	2,385,600
natural asset / resource	- % women	services and natural	protected or	
(i.e. rangeland	,	resource assets	rehabilitated	
management)	Core Indicator 5.1: Natural	strengthned in response		
production system protection / rehabilitation	Assets protected or rehabilitated - Ha of natural	to climate change impacts, including		
improvements	assets / resources	variability		
implemented in two (2)	(rangelands) protected or			
districts in the northwest	rehabilitated			
of Libya, including through around 3600	Effectiveness of natural			
grant packages to	assets / resources			
pastoralists, women and	(rangelands) protection /			
youth groups	rahabilitation			

Output 3.2	Number of people trained:	Output 3.2:	Indicator 3.2.1:	351,500
Relevant public	- Public institution	Stengthened capacity of	No. of technical	
Institutional staff,	o % women	national and subnational	committees/associatio	
pastoralists and women	<ul> <li>Pastoralists</li> </ul>	stakeholders and	ns formed to ensure	
trained to implement,	o % women	entities to capture and	transfer of knowledge	
maintain and sustain		disseminate knowledge		
climate change resilient	Number of relevant	and learning	Indicator 3.2.2:	
natural asset / resource	organizations (i.e.,		No. of tools and	
(i.e. rangeland	pastoralist, water user,		guidelines developed	
management)	women) strengthened and		(thematic, sectoral,	
production system	or created		institutional) and	
improvements and to			shared with relevant	
support the	Number of community		stakeholders	
strengthening or	development and / or			
creation of community	maintenance plans			
organizations and	completed			
community development				
plans				
Output 4.1.	Number of key findings on	Output 8:	Indicator 8.2:	560,542
Mechanism	effective, efficient	Viable innovations are	No. of key findings on	
implemented to capture	adaptation practices and	rolled out, saled up,	effective, efficient	
and disseminate	products generated and	encourages and/or	adaptation practices,	
relevant knowledge and	shared	accelerated	products and	
earning of climate	<ul> <li>Number of guidelines</li> </ul>		technologies	
change resilient	<ul> <li>Number of farmer field</li> </ul>		generated	
practices, products and	schools			
echnologies and to	<ul> <li>Number of ToT</li> </ul>			
replicate these at the	<ul> <li>Number of visits to</li> </ul>			
national level and to one	demo plots			
(1) district in the	- Participants			
northwest, four (4)	∘ % women			
districts in the northeast				
and four (4) districts in	Effectivenss of sharing			
south and to vulnerable				
groups and women,				
including through				
workshops, guidelines,				
farmer field schools, a				
ToT programme and				
field visits to demo plots.				1

# G. Detailed Budget

Outputs	Activities	Expenditure category	Year 1 (US\$)	Year 2 (US\$)	Year 3 (US\$)	Year 4 (US\$)	Total (US\$)		Unit	Unit cost (US\$)	Year 1 (q-ty)	Year 2 (q-ty)	Year 3 (q-ty)	Year 4 (q-ty)	Total (q-ty)
Component 1. development	Participatory price	ritization of clim	ate char	nge adap	tation o	ptions ir	nto natio	nal,	district and	communi	ty planning	for agri	iculture	/ livesto	ck
	Research manager - UNOPS staff	Technical Assistance	67 500	-	-	-	67 500		person- day	750	90	-	-	-	90
Output 1.1. Climate	Technical agriculture/ livestock expert - North-West	Technical Assistance	36 000	-	-	-	36 000		person- day	600	60	-	-	-	60
change vulnerability and hazards risks	Technical agriculture/ livestock expert - North-East	Technical Assistance	36 000	_	_	_	36 000		person- day	600	60	-	_	_	60
assessments conducted for the agriculture/	Technical agriculture/ livestock expert - South	Technical Assistance	36 000	-	-	-	36 000		person- day	600	60	-	-	-	60
livestock sector in Libya,	Climate change expert	Technical Assistance	36 000	-	-	-	36 000		person- day	600	60	-	-	-	60
specifically targeting districts in the	Gender and social inclusion expert	Technical Assistance	18 000	-	-	-	18 000		person- day	600	30	-	-	-	30
north-west (5), north-east (4) and south	Community engagement expert(s)	Technical Assistance	36 000	_	_	-	36 000		person- day	600	60	-	-	-	60
(4) with the participation of vulnerable groups and women	Final beneficiaries (farmers and herders) consultations	Training and Workshops	262 500	_	_	_	262 500		per beneficiary	175	1 500	-	_	_	1 500
	Focus groups (venue renting, transport costs for participants, etc.)	Training and Workshops	75 000	_	-	-	75 000		per focus	5,000	15	-	-	-	15

	Editing/ publication of risks and vulnerability maps	Goods, Services and Inputs		15 000			15 000	Lumpsum						
	Local transport costs	Operating Expenses	5 000	10 000			15 000	Lumpsum						
Sub-total Outp	ut 1.1		608 000	25 000	_	_	633 000							
Output 1.2. National climate	Research manager - UNOPS staff	Technical Assistance	-	22 500	-	-	22 500	person- day	750	1	30	1	-	30
resilient agriculture / livestock	Technical agriculture/ livestock expert	Technical Assistance	-	36 000	-	-	36 000	person- day	600	1	60	1	-	60
strategy developed in which climate	Climate change expert	Technical Assistance	-	36 000	-	-	36 000	person- day	600	-	60	-	-	60
change hazard risks and	Gender and social inclusion expert	Technical Assistance	-	18 000	-	_	18 000	person- day	600	-	30	-	-	30
adaptation options are identified, prioritized and promoted at	Focus groups (venue renting, transport costs for participants, etc.)	Training and Workshops	_	6 000	_	_	6 000	per focus group	2,000	_	3	-	_	3
national and district level, with specific attention to the needs of	Editing/ publication of risks and vulnerability maps	Goods, Services and Inputs		5 000			5 000	Lumpsum						
vulnerable groups and women	National strategy presentation and dissemination	Training and		12			12	per focus						
	workshops Local transport costs	Workshops Operating Expenses	5 000	000	-	-	5 000	group Lumpsum	2,000	-	6	-	-	6
Sub-total Outp	out 1.2		5 000	135 500	-	-	140 500							

			613	160			773								
Total Compone	ent 1		000	500	-	-	500								
	Climate resilient i	investment in co	ncrete a	ctivities	in the a	gricultur	e sector								
Output 2.1. Climate change	Research manager - UNOPS staff	Technical Assistance	_	18 000	72 000	72 000	162 000		person- day	750	-	24	96	96	216
resilient crops (i.e., drought /heat resilient	Logistic & Field coordinator - UNOPS staff	Technical Assistance	-	5 000	5 000	-	10 000		person- day	500	-	10	10	-	20
and salt resistant crop varieties)	Community engagement expert	Technical Assistance	-	27 000	36 000	18 000	81 000		person- day	600	-	45	60	30	135
implemented in three (3) districts in the northwest of	Agriculture Climate change technologies expert	Technical Assistance	_	32 400	48 600	16 200	97 200		person- day	600	_	54	81	27	162
Libya, including through around 9000	Procurement expert	Technical Assistance	-	-	32 400	32 400	64 800		person- day	600	-	-	54	54	108
grant packages to farmer,	Gender and social inclusion expert	Technical Assistance	-	14 400	21 600	7 200	43 200		person- day	600	-	24	36	12	
women and youth groups.	Grant packages	Grants	-	1 652 000	1 652 000	-	3 304 000		package	560	-	2 950	2 950	-	5 900
	Local transport costs	Operating Expenses	12 600	12 600	12 600	-	37 800		Lumpsum						
Sub-total Outp			12 600	1 761 400	1 880 200	145 800	3 800 000	_							
Output 2.2. Relevant public	Logistic & Field coordinator - UNOPS staff	Technical Assistance	-	-	4 500	3 000	7 500		person- day	500	-	-	9	6	15
Institutional staff, farmers and women	Community engagement expert	Technical Assistance	-	12 000	18 000	6 000	36 000		person- day	600	-	20	30	10	60
trained to implement, maintain and	Trainers	Technical Assistance	-	28 800	86 400	57 600	172 800		person- day	600		48	144	96	288
sustain climate change	Gender and social inclusion expert	Technical Assistance	-	6 000	24 000	13 200	43 200		person- day	600	-	10	40	22	72

resilient crops and to support the strengthening or creation of community organizations and community development plans	Costs for training and capacity building sessions for small holders farmers and herders (venues, etc.) Costs for training and capacity building sessions for 60 government officials	Training and Workshops  Training and Workshops	-	30 000	87 000	60 000	177 000	per session per session	1,500		20	58	40	118
	Local transport	Operating			. 000		27	55551511	2,000					
	costs	Expenses	9 000	9 000	9 000	-	000	Lumpsum						
Sub-total Outp			9 000 21 600	85 800 1 847 200	232 900 2 113 100	139 800 285 600	467 500 4 267 500							
	Climate resilient	investment in co	ncrete a	ctivities	in the liv	vestock	sector							
Output 3.1. Climate change	Research manager - UNOPS staff	Technical Assistance	30 000	63 750	27 750	-	121 500	person- day	750	40	85	37	1	162
resilient natural asset / resource (i.e.	Logistic & Field coordinator - UNOPS staff	Technical Assistance	_	4 500	3 000	-	7 500	person- day	500	-	9	6	-	15
rangeland management) production	Community engagement expert	Technical Assistance	-	15 000	21 600	12 000	48 600	person- day	600	-	25	36	20	81
system protection / rehabilitation improvements	Livestock Climate change technologies expert	Technical Assistance	-	27 000	27 000	27 000	81 000	person- day	600	-	45	45	45	135
implemented in two (2) districts in the	Procurement expert	Technical Assistance	-	32 400	-	-	32 400	person- day	600	-	54	-	-	54

northwest of Libya,	Gender and social inclusion	Technical Assistance	_	15 000	18 000	15 600	48 600		person-	600		25	30	26	
including through around 5000 grant	Grant packages	Grants	-	2 016 000	-	-	2 016 000	_	day package	560	<u>-</u>	3 600	- 30		3 600
packages to pastoralists, women and	Local transport	Operating	10	10	10		30		paonago	000		0 000			0 000
youth groups	costs	Expenses	000 <b>40</b>	000 2 183	107	54	000 2 385		Lumpsum						
Sub-total Outp			000	650	350	600	600								
Output 3.2. Relevant public	Logistic & Field coordinator - UNOPS staff	Technical Assistance	-	-	2 000	4 500	6 500		person- day	500	-	-	4	9	13
Institutional staff, pastoralists	Community engagement expert	Technical Assistance	_	-	4 800	9 600	14 400		person- day	600	-	-	8	16	24
and women trained to implement,	Trainers	Technical Assistance	_	_	60 000	48 000	108 000		person- day	600	-	-	100	80	180
maintain and sustain climate	Gender and social inclusion expert	Technical Assistance	_	_	7 200	14 400	21 600		person- day	600	-	-	12	24	36
change resilient natural asset / resource (i.e. rangeland management) production system	Costs for training and capacity building sessions for small holders farmers and herders	Training and Workshops	-	-	67 500	82 500	150 000		per session	1,500	-	1	45	55	100
improvements and to support the strengthening or creation of community organizations	Costs for training and capacity building sessions for government officials	Training and Workshops	_	_	9 000	12 000	21 000		per session	1,500	_		9	8	
and community development plans	Local transport costs	Operating Expenses	-	10 000	10 000	10 000	30 000		Lumpsum						

Sub-total Outp	out 3.2		-	10 000	160 500	181 000	351 500								
Total Compon			40 000	2 193 650	267 850	235 600	2 737 100								
	Capturing and dis	sseminating rele						cha	nae resilient	practices	. products	and tecl	hnologie	es and to	<u> </u>
replicate these	at national, distr	ict and commun	ity level						<b>J</b>		, [				
Output 4.1.	Research														
Mechanism	manager -	Technical			0.050	0.050	4.500		person-	750					
implemented	UNOPS staff	Assistance	-	-	2 250	2 250	4 500	4	day	750	-	-	3	3	6
to capture and	Climata aban na	Taskaisal			54	54	100								
disseminate	Climate change	Technical Assistance	1_		000	000	108 000		person-	600	_		90	90	180
relevant	expert Experts to	Assistance	+	-	000	000	000	-{	day	600	-	-	90	90	160
knowledge	facilitate	Training and			45	45	90		porcon						
and learning	workshops	Workshops	_	_	000	000	000		person- day	600	_	_	75	75	150
of climate	Workshops	vvoiksilops	+	+	000	000	000	1	uay	000		_	73	13	130
change	Communication	Technical			36	36	72		person-						
resilient	expert	Assistance	_	l <u>-</u>	000	000	000		day	400	_	_	90	90	180
practices,	Editing/	710010101100			000	000	000	1	day	100			- 00	- 00	100
products and	publication of	Technical													
technologies	the guidelines	Assistance	_	_	6 000	_	6 000		guideline	6,000	_	_	1	_	1
and to	TOT (venue							-	<u> </u>	-,					
replicate	renting,														
these at the	transport costs														
national level	for participants,	Training and			25	20	45		per						
and to one (1)	etc.)	Workshops	-	-	000	000	000		session	5,000	-	-	5	4	9
district in the															
northwest,	Visits demo	Training and			36	24	60		per						
four (4) districts in the	plots	Workshops	-	-	000	000	000		session	6,000	-	-	6	4	10
northeast and															
four (4)	Farmers field	Training and			60	48	108		per				_		
districts in	schools	Workshops	-	-	000	000	000	4	session	12,000	-	-	5	4	9
south and to	Communication														
vulnerable	materials	Caada													
groups and	(videos, digital contents,	Goods, Services and			40		40								
women,	leaflets, etc.)	Inputs	1_	1_	000		000		Lumpsum						
including	icancis, etc.)	Technical	+	+	000	<del>  -</del>	000		Lumpsum						<u> </u>
through	Website	Assistance	_	l _	7 042	1_	7 042		Lumpsum						
workshops,	** CDSILG	7.0013(4)106	+	+	7 072		1 072		Lampsam						
guidelines,							1								
farmer field	Local transport	Operating			10	10	20								
schools, a	costs	Expenses	-	-	000	000	000		Lumpsum						

ToT programme and field visits															
to demo plots.															
Sub-total Out	put 4.1		-	-	321 292	239 250	560 542								
Total Compo	nent 4		_		321 292	239 250	560 542								
Total Project	Components		674 600	4 201 350	2 702 242	760 450	8 338 642								
Project Execu															
	Office equipment (IT and other)	Goods, Services and Inputs	5 730	-	-	-	5 730		Lumpsum						
	Project Manager (25% per month)	Salaries and Allowances	36 000	36 000	36 000	18 000	126 000		Person Months	3,000	12	12	12	6	42
	Finance Officer (35% per month)	Salaries and Allowances	21 000	21 000	21 000	10 500	73 500		Person Months	1,750	12	12	12	6	42
	Driver (30% per month)	Salaries and Allowances	8 652	8 652	8 652	4 326	30 282		Person Months	721	12	12	12	6	42
Project Execution	Office costs (rent, utilities, security, etc.)	Operating Expenses	52 800	52 800	52 800	26 400	184 800		per month	4,400	12	12	12	6	42
	Other direct costs for project management, implementation and oversight	Other	36 000	36 000	36 000	18 000	126 000		per month	3,000	12	12	12	6	42
	HQCPC submissions	Other	1 400	-	-	-	1 400		Lumpsum						
	UNOPS indirect costs	Other	93 604	93 604	93 604	46 802	327 615		Lumpsum						
Total Project	255 248 248 124 875 otal Project Execution Costs 186 056 056 028 327														

Total Project Costs		929 786	4 449 406	2 950 298	884 478	9 213 969				
Project cycle management fee	costs									
Project cycle management fee costs	Other	223 768	223 768	223 768	111 884	783 187	Lumpsum			
Total Project cycle management fee costs		223 768	223 768	223 768	111 884	783 187				
TOTAL amount of financing requested		1 153 554	4 673 174	3 174 066	996 362	9 997 156				

## H. Disbursement schedule

Table 38 Disbursement schedule

Schedule	1 <sup>st</sup> disbursement	2 <sup>nd</sup> disbursement – One year after project inception	3 <sup>rd</sup> disbursement – Two years after project inception	4 <sup>th</sup> disbursement – Three years after project inception
Linked Deliverable	Upon agreement signature between IFAD and AF	First Annual Project Performance Report Cleared by AF	Second Annual Project Performance Report Cleared by AF	Third Annual Project Perfromance Report Cleared by AF

Schedule date	Upon Signing	One Year after project inception	Two Years after project inception	Three Years after project inception	Total
A. Project Funds (US\$)	674 600	4 201 350	2 702 242	760 450	8 338 642
B. Programme Execution (US\$)	255 186	248 056	248 056	124 028	875 327
C. Programme Cycle Mgt (US\$)	223 768	223 768	223 768	111 884	783 187
TOTAL (US\$)	1 153 554	4 673 174	3 174 066	996 362	9 997 156

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

A. Record of endorsement on behalf of the government<sup>39</sup>

Engr. Ahmed Alarabi Alsoudanij	Date: 13/08/2022
Director of Geographical information systems	
Department	
Ministry of Environment	



<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.

## **B.** Implementing Entity certification

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. Implementing Entity coordinator: Mr Tom Mwangi Anyonge Director a.i Environment, Climate, Gender and Social Inclusion Division Date: 09 January 2023\_ e-mail: ecgmailbox@ifad.org Ms Janie Rioux email: Senior Climate Finance j.rioux@ifad.org Specialist **ECG Division** Project contact person: Mr Walid Nasr, Regional Climate and Environment Specialist (a.i.) e-mail: w.nasr@ifad.org Mr Philippe Rémy, IFAD Libya Country Director e-mail: p.remy@ifad.org

#### **ANNEXES**

#### 1. ESCMP

#### 151. Content:

- 1.1. Introduction, purpose, method
- 1.2. Summary of project environmental and social risks management approach
- 1.3. Risks screening and categorization
- 1.4. Environmental and social and climate risks management plan

#### 1.1. Introduction, including summary description of the project/ programme

#### 152. Introduction

Social and environmental policies are essential tools to prevent and / or mitigate undue harm of projects and project activities to people and their environment. In line with the Adaptation Fund's Environmental and Social Policy (ESP) and IFADs SECAP, IFAD is required to categorize the risk of the project as a whole and to manage any potential environmental and social risks and impacts. This Environmental, Social and Climate Risks Management Plan (ESCMP) has been prepared by IFAD.

#### 153. Purpose

The purpose of this ESCMP document is to demonstrate how this project complies to the AF ESP. The document shows what potential environmental and social risks and co-benefits and opportunities have been identified per project activity, the potential impacts of the risks and how these will be managed.

#### 154. Methodology

To ensure compliance with the AF ESP, all proposed project activities have been screened against the 15 AF principles (i.e. safeguards) to identify potential environmental and social risks and to assess related potential impacts. Where risks have been identified, impacts have been assessed and where needed, measures to avoid or mitigate risks and impact, identified (+ monitoring arrangements). Analyses are based on collected disaggregated data focused on identification of climate change related needs, limitations, constraints and requirements specific for marginalized and vulnerable groups, especially of women and youth. Activity prioritization has been done in consultations with project beneficiary groups. The executing entity and other contractors will also comply to IFAD's SECAP standards.

#### 155. Alignment between ESP (Adaptation Fund) and SECAP (IFAD)

IFAD's Social, Environmental and Climate Assessment Procedures (SECAP) were approved by the Executive Board and became effective in 2015. They were updated in 2017 and 2021. These procedures defined an improved course of action for assessing social, environmental and climate risks to enhance the sustainability of country strategic opportunities programmes (COSOPs), country strategy notes (CSNs), programmes and projects. SECAP along with its 9 Social, Environmental and Climate Standards, sets out the mandatory requirements and other elements that must be integrated throughout the project life cycle. The 2021 updated version (i) draws on lessons learned in SECAP's implementation since 2017; (ii) clarifies the mandatory and non-mandatory requirements applicable to IFAD-supported investments; (iii) further aligns IFAD's environmental and social standards and practices with those of other multilateral financial institutions; (iv) reflects IFAD's complementary policies<sup>40</sup> and climate mainstreaming agenda; (v) enables IFAD's continued access to international environment and climate financing; and (vi) accounts for IFAD's new commitments and upgraded internal processes. All IFAD projects entering the pipeline are subject to an environmental, social and climate risk screening, and are assigned a risk category for environment and social risks (High, Substantial, Moderate or Low), and for climate risks (High, Substantial, Moderate or Low). These findings, along with subsequent analysis and assessments, must be reflected in the project's SECAP review note and

<sup>&</sup>lt;sup>40</sup> Including, but not restricted, to policies on targeting (2006), gender equality and women's empowerment (2012), indigenous peoples (2009). Available at: www.ifad.org/operations/policy/policydocs.htm

- project documents. Projects with "Low environment and social Risk" and "Low" climate risk do not require any further analysis.
- 156. **Moderate Risk** projects require: (i) the final SECAP review note and ESCMP, indicating how potential risks and impacts can be avoided or mitigated; and (ii) an environmental and social monitoring programme. Projects classified Moderate Risk for climate require a basic climate analysis.
- 157. For projects with **High and Substantial environmental and social risks and impacts**, the due diligence process entails a critical review of the documentation provided by the borrower/recipient/partner. This should involve site visits and interviews with project representatives and other stakeholders by independent environmental and social specialists. These specialists should gain first-hand knowledge of the project and meet with representatives of affected groups to discuss environmental and social concerns, and information needs. This provides IFAD with a more holistic view of the project's major environmental and social risks and impacts, and the project's mitigation resources. For Substantial Risk projects, a formal SECAP review note or abbreviated ESCMF is required. For High Risk projects, an Environmental, Social and Climate Management Framework or Environmental and Social Impact Assessment are required. These should also incorporate an ESCMP. In addition, thematic studies or plans can be required for substantial and high risk projects. These can include a Resettlement Action Framework or Plan (RAF or RAP), Indigenous Peoples Plan (IPP), FPIC implementation Plan, Pesticide Management Plan (PMP), etc.
- 158. For projects that are screened as "substantial" for climate risks, a Targeted Adaptation Assessment is required. For projects classified as "high", a detailed vulnerability impact and adaptation assessment is required. These assessments aim to quantify risks, identify related adaptation options and ways to integrate them into the project design.
- 159. IFAD SECAP includes 9 Standards, for which detailed guidance is provided in 9 corresponding Guidance Notes (GN) with: (i) an introduction to each subject, (ii) key steps, roles and responsibilities, objectives and background, (iii) criteria for environmental screening in IFAD projects; (iv) potential mitigation and adaptation plans and measures for controlling adverse impacts, (v) monitoring project implementation. The SECAP also includes a 10<sup>th</sup> guidance note that provides an overview of the importance of IFAD's mainstreaming commitments and highlights entry points for promoting mainstreaming along the project cycle. IFAD's mainstreaming commitments are related to environmental sustainability, climate finance, gender equality, women and youth empowerment and improved nutrition.
- 160. The following table provides some information about the relation between AF ESP Principles and IFAD SECAP (for further information, visit <a href="https://www.ifad.org/topic/gef/secap/overview">https://www.ifad.org/topic/gef/secap/overview</a>).

AF ESP Guidance Principle	IFAD SECAP Standards, Guiding Values and Principles
ESP 1 Compliance with the Law	SECAP requires that activities in the framework of the IFAD financed projects or programmes meet IFAD's safeguard policy guidance, comply with applicable national laws and regulations (labour, health, safety, etc.) and international laws and treaties, and the prohibited investment activities list produced by the International Finance Corporation is adhered to.  Project design should review: (i) current national policies, legislation and legislative instruments governing environmental management health, gender and social welfare, climate change (mitigation and adaptation) and governance with their implementation
	structures, identify challenges, and recommend appropriate changes for effective implementation; (ii) all relevant international treaties and conventions on the environment, climate change, health, gender, labour and human rights to which the country is a signatory.
ESP 2 Access and Equity	Access and Equity is a cross-cutting issue in all the 9 SECAP standards. SECAP requires that projects and programmes ensure the participation of target groups and equitable distribution of benefits. When projects result in physical or economic displacement (affecting access and user rights to land and other resources), the borrower or grant recipient should

obtain FPIC from the affected people, document stakeholder engagement and consultation process and prepare resettlement plans or frameworks. The documents must be disclosed in a timely and accessible manner at the QA or relevant implementation stage. Standard 2 - Resource efficiency and pollution prevention highlights that Sustainable management requires that people who are dependent on these resources are properly consulted, enabled to participate in development and share equitably in the benefits of that development, and indicates that IFAD promotes an integrated water resources management approach that seeks the coordinated development and management of water, land and related resources in order to maximize economic and social welfare in an equitable manner and without compromising the sustainability of ecosystems. Standard 3 - Cultural Heritage includes the following objective: promote the equitable sharing of benefits from the use of Cultural Heritage. Standard 4 - Indigenous People includes the following objective: ensure indigenous peoples obtain fair and equitable benefits and opportunities from supported activities in a culturally appropriate and inclusive manner. IFAD's mainstreaming themes in the project cycle guidance note highlights that projects should aim at Expanding women's economic empowerment through access to and control of productive assets and benefits. ESP 3 Marginalized and Vulnerable Groups is a cross-cutting issue in all the 9 SECAP standards, Marginalised as such groups are also the primary target of IFAD interventions. A robust SECAP process and requires attention to social dimensions such as land tenure, community health, safety, **Vulnerable** labour, vulnerable and disadvantaged groups, and historical factors, particularly in relation to Groups. natural resource management. It not only looks at compliance (e.g. managing potential negative impacts), but expected positive impacts and ways to maximize opportunities. To assure a good contribution to the quality of SECAP, project design should assess the socioeconomic and cultural profile, including key issues relating to disadvantaged or vulnerable groups, conflict, migration, employment and livelihoods. Consultation with communities and stakeholders must be maintained throughout the project lifecycle, especially in high-risk projects. For investment projects with a projected high sensitivity to climate hazards, IFAD requires a climate vulnerability analysis which can help to improve the targeting of investment actions to include the most vulnerable and least resilient target groups. Other IFAD policies that support and complement this principle are: Improving Access to Land Tenure Security Policy, Gender Equality and Women's Empowerment Policy, Engagement with Indigenous Peoples Policy, Targeting Policy, Youth Policy Brief, Climate Change Strategy, Rural Enterprise Policy, Rural Finance Policy, Private Sector Strategy. ESP 4 Human Rights is a cross-cutting issue in all the 9 SECAP standards. Among the Guiding **Human Rights** Principles and Specific Requirements for IFAD's Social Environmental Climate Assessment Procedures (SECAP), is the principle to "support the efforts of borrowers/recipients/ partners to respect human rights, avoiding infringement on any human rights and addressing adverse human rights risks and impacts caused by clients' business activities". ESP 5 Gender Equality and Women's Empowerment is a cross-cutting issue in all the 9 SECAP Gender Standards. Equality and IFAD's mainstreaming themes in the project cycle guidance note provides an overview Women's of the importance of IFAD's mainstreaming commitments (including gender equality, women **Empowerment** and youth empowerment); highlights entry points for promoting mainstreaming along the project cycle; proposes the use of assessments which - even if they may be focused on risk assessment and management – are opportunities for mainstreaming; and provides an overview of inventories of key sources of data, tools, methods and approaches that have been found useful. ESP 6 Core Labour Rights is a cross-cutting issue in all the 9 Standards. A robust SECAP process **Core Labour** requires attention to social dimensions such as land tenure, community health, safety, labour, vulnerable and disadvantaged groups, and historical factors, particularly in relation to **Rights** natural resource management. One of the guiding values and principles for SECAP is to minimize adverse social impacts and incorporate externalities. Avoid and mitigate any

potential adverse impacts on health and safety, labour and working conditions and wellbeing of workers and local communities.

The requirements set out in **Standard 5 – Labour and working conditions** are designed to achieve the following objectives:

- (i) Promote direct action to foster decent rural employment;
- (ii) Promote, respect and realize fundamental principles and rights at work through preventing discrimination and promoting equal opportunity of workers; supporting freedom of association and the effective recognition of the right to collective bargaining; and preventing the use of child labour and forced labour;
- (iii) Protect and promote the safety and health of workers;
- (iv) Ensure projects comply with national employment and labour laws and international commitments; and
- (v) Leave no one behind by protecting and supporting workers in disadvantaged and vulnerable situations, including a special focus, as appropriate, on women workers, young workers, migrant workers, workers in the informal economy and workers with disabilities

#### ESP 7 Indigenous People

Standard 4 – Indigenous People is a cornerstone to IFAD's goal to design projects not only with the full, effective and meaningful participation of indigenous peoples but also in a manner that aligns with their distinct vision and development priorities, building sustainable partnerships with indigenous peoples. Standard 4 seeks to ensure that projects are designed and implemented in a way that fosters full respect for indigenous peoples and their human rights, livelihoods and cultural uniqueness as they define them. The need for the standard is an acknowledgement of a history of discrimination and exclusion of indigenous peoples that has limited or prevented them from directing the course of their own development and well-being.

The requirements set out in Standard 4 are designed to achieve the following objectives:

- (vi) Promote indigenous peoples ability to determine and develop priorities and strategies for exercising their right to development;
- (vii) Ensure that programming is designed in partnership with indigenous peoples, with their full effective and meaningful consultation and participation, with the objective of seeking their free, prior and informed consent (FPIC);
- (viii) Ensure indigenous peoples obtain fair and equitable benefits and opportunities from supported activities in a culturally appropriate and inclusive manner; and
- (ix) Recognize and respect the rights of indigenous peoples to their lands, territories, waters and coastal seas and other resources that they have traditionally owned or otherwise occupied and used.

Implementation of the requirements of Standard 4 also aims to avoid adverse impacts on indigenous peoples, their rights, lands, territories and resources and – together with affected indigenous peoples – to mitigate and remedy any adverse impacts that cannot be avoided.

According to SECAP, when impacting indigenous peoples, the borrower or the grant recipient must seek FPIC from the concerned communities, document stakeholder engagement and consultation process and prepare an indigenous plan (IP). Whenever FPIC is not possible during project design, the FPIC implementation plan should specify how FPIC will be sought during early implementation. The FPIC plan and related documents must be disclosed in a timely and accessible manner at the Quality Assurance (QA) or relevant stage during implementation. IFAD SECAP promotes the Indigenous Peoples Plan as a tool to ensure that the design and implementation of projects foster full respect for indigenous peoples' identity, dignity, human rights, livelihood systems and cultural uniqueness, as defined by the indigenous peoples themselves. It also ensures that the affected groups receive culturally appropriate social and economic benefits, are not harmed by the projects, and can participate actively in projects that affect them. Other IFAD policies that support and complement these principles: Indigenous People's Policy; Targeting Policy; Gender Policy; Climate Change Strategy.

#### ESP 8 Involuntary Resettlement

Standard 7 – Physical and economic resettlement recognizes that increasing investments in the rural sector may at times involve project-related land acquisition and restrictions on land use – actions that, if improperly managed, may have adverse impacts on communities and persons, including physical displacement (relocation, loss of residential land or loss of shelter), economic displacement (loss of land, assets or access to assets,

leading to loss of income sources or other means of livelihood) or both. The term "involuntary resettlement" refers to these impacts. Resettlement is considered involuntary when affected persons or communities do not have the right to refuse land acquisition or restrictions on land use that result in displacement.

Throughout the process of identification, planning, implementation and evaluation of the various elements of resettlement or economic displacement and their impacts, adequate attention will be paid to gender concerns: specific measures addressing the needs of female headed households, gender-inclusive consultation, information disclosure, and grievance mechanisms will be put in place in order to ensure that women and men will receive adequate and appropriate compensation for their losses and to restore and possibly improve their living standards. Other IFAD policies that support and complement this principle are: Gender Equality and Women's Empowerment Policy, Engagement with Indigenous Peoples Policy, Targeting Policy, Land Policy, ENRM Policy, Youth Policy Brief, Climate Change Strategy.

#### ESP 9 Protection of Natural Habitats

**Standard 1 – Biodiversity conservation** requires identification of habitat type and applies increasingly stringent requirements based on an areas' biodiversity values. Where natural habitats are affected, IFAD-funded/supported projects and programmes will proceed only after putting in place appropriate mitigation measures to achieve no net loss, and preferably a net gain of the associated biodiversity values over the long term. This must be accompanied by a robust long-term biodiversity action plan or equivalent that describes conservation outcomes and implementation, monitoring and evaluation actions.

Other IFAD policies that support and complement these principles are: Environment and Natural Resources Management (ENRM) Policy; Land Policy; Climate Change Strategy.

#### ESP 10 Conservation of Biodiversity

The requirements set out in **Standard 1 – Biodiversity conservation** are designed to achieve the following objectives: (i) maintain and conserve biodiversity; (ii) preserve the integrity of ecosystems; (iii) maintain and enhance the benefits of ecosystem services; (iv) adopt the use of a precautionary approach to biodiversity conservation and ensure opportunities for environmentally sustainable development; (v) ensure the fair and equitable sharing of the benefits from the utilization of genetic resources; and (vi) respect, preserve, and maintain knowledge, innovations and practices of indigenous peoples, and local communities relevant to the conservation and sustainable use of biodiversity and their customary use of biological resources.

The main role of this safeguard standard is to avoid or, if avoidance is not possible, minimize and mitigate potential adverse social and environmental impacts on biodiversity and ecosystem services associated with project-related activities. This can be seen through the promotion and requirements on the "use of a precautionary approach" as outlined throughout standard 1. Requirements of Standard 1 address risks to biodiversity and ecosystem types, with increasing stringency depending on risk levels and biodiversity values of project areas.

Mitigation activities to eliminate or reduce the negative impacts of a project on biodiversity should follow the following order of preference: (1) Complete avoidance of adverse impact; (2) Reduction of impacts on biodiversity where unavoidable; (3) Restoration of habitats to their original state; (4) Relocation of affected species; (5) Compensation for any unavoidable damage.

Other IFAD policies that support and complement these principles are: Environment and Natural Resources Management (ENRM) Policy; Land Policy; Climate Change Strategy.

#### ESP 11 Climate Change

SECAP asks to incorporate climate change risk analysis into projects, which are subject to an environmental, social and climate risk screening, and are assigned a risk category for climate vulnerability (substantial, high, moderate, low).

The requirements set out in **Standard 9 – Climate change** are designed to achieve the following objectives: (i) ensure alignment of IFAD-supported projects with targets and

priorities of countries' Nationally Determined Contributions and the goals of the Paris Agreement and other international frameworks; (ii) ensure that proposed activities are screened and assessed for climate change and disaster risks and impacts both of and to projects; (iii) apply the SECAP risk mitigation hierarchy principle of applying a hierarchy of risk management measures in project design; (iv) strengthen the climate resilience of communities and their adaptive capacity to address risks of climate change impacts and climate-related disasters; and (v) increase the ability of communities to adapt to the adverse impacts of climate change, and foster climate resilience and low GHG-emitting projects that do not threaten without compromising food production.

**IFAD's mainstreaming themes in the project cycle guidance note** provides an overview of the importance of IFAD's mainstreaming commitments (including Climate change); highlights entry points for promoting mainstreaming along the project cycle; proposes the use of assessments which – even if they may be focused on risk assessment and management – are opportunities for mainstreaming; and provides an overview of inventories of key sources of data, tools, methods and approaches that have been found useful.

# ESP 12 Pollution Prevention and Resource Efficiency

Standard 2 - Resource efficiency and pollution prevention includes requirements that aim at ensuring that IFAD-supported projects and programmes minimize, mitigate and manage any risks and potential adverse impacts that may be related to resource use and pollution, with the following objectives: (i) avoid, minimize and manage the risks and impacts associated with hazardous substances and materials, including pesticides; (ii) avoid or minimize project-related emissions of short-and long-lived climate-change related pollutants; (iii) promote sustainable use of resources, including energy, land and water; and (iv) identify, where feasible, project-related opportunities for resource-use efficiency. Standard 2 outlines a project-level approach to mitigating, minimizing and managing any risks and potential adverse impacts that may be related to resource use and pollution. IFAD requires that key principles are applied. These include a precautionary approach to addressing significant environmental and social risks and impacts through the mitigation hierarchy; the "polluter pays" principle (whereby the cost of mitigation is borne by the polluter, where relevant); and adaptive management techniques (whereby lessons are learned from past management actions and are proactively utilized to predict and improve management as the project implementation progresses).

#### ESP 13 Human Health

The requirements of Standard 6 - Community Health and Safety aim to ensure that IFADsupported programs and projects avoid or minimize the risks and impacts to community health, safety and security. The requirements are designed to achieve the following objectives: (i) to anticipate and avoid adverse impacts on the health and safety of projectaffected communities during the project life cycle from both routine and non-routine circumstances; (ii) to ensure that measures are taken to avoid or minimize community exposure to hazardous materials that be used during project activities; (iii) to promote quality and safety, and considerations relating to climate change, in the design and construction of infrastructure, including dams; (iv) to avoid or minimize community exposure to project-related traffic and road safety risks; (v) to minimize community exposure to diseases; (vi) to ensure that projects abide by the principles of "do no harm to nutrition"; (vii) to avoid risks of project-related gender-based violence, including risks of sexual harassment, sexual exploitation and abuse, and human trafficking to project-affected people and communities; (viii) to avoid or minimize adverse impacts on ecosystems services that may arise from project activities; (ix) to have in place effective measures to address emergency events; and (x) to ensure that the safeguarding of personnel and property is carried out in a manner that avoids or minimizes risks to the project-affected communities

#### ESP 14 Physical and Cultural Heritage

The requirements set out in **Standard 3 – Cultural heritage** are designed to achieve the following objectives: (i) preserve and safeguard Cultural Heritage; (ii) ensure that effective and active measures are taken to prevent IFAD-supported projects from altering, damaging, or removing any tangible or intangible Cultural Heritage; (iii) promote the equitable sharing of benefits from the use of Cultural Heritage; (iv) promote meaningful consultation on matters relating to Cultural Heritage.

	Other IFAD policies that support and complement ESP 14 are: Gender Equality and
	Women's Empowerment Policy, Engagement with Indigenous Peoples Policy, Targeting
	Policy, ENRM Policy, Climate Change Strategy.
ESP 15	Standard 2 – Resource efficiency and pollution prevention includes a specific focus on
Lands and	soil conservation, stating that sustainable soil management is an essential element of
Soil	sustainable agriculture and is central to sustainable intensification, climate -change
Conservation	resilience and safeguarding ecosystem services and biodiversity. The updated World Soil
	Charter lists nine guiding principles that guide all actions to ensure that soils are managed
	sustainably and that the functions of degraded soils are rehabilitated or restored. IFAD will
	integrate these principles into its projects, as appropriate, to ensure sustainable soil
	management and to promote restoration of degraded soils
	Other IFAD policies that support and complement these principles: Land Policy; Targeting
	Policy; ENRM Policy; Climate Change Strategy.

#### 1.2. Summary of project environmental and social risks management approach

The following table provides an overview/summary of the management approach for project risks.

Table 39 Summary of project environmental, social and Climate risks management approach

ESP principle	Initial environ mental or social risks present Y/N	Potential risks	Explanation	Impact assessment	Mitigation measures to avoid / reduce any potential risks	Monitoring indicators	Responsibl e
1.Compliance with the Law	Y	There is a potential small risk of subcontractor non-complying with national laws / standards	Relevant national standards and project compliance with these have been identified. No impact assessment is required by national law (see part II.E) for proposed interventions.  However, there is still a small risk of subcontractor noncomplying with national law.	Negative environmental impacts due incompliance to national standards and/or international best practices.	The project complies with all identified relevant national and international standards and laws. For an overview, see part II.E.  - Include standard clause in all project contracts with reference to laws / standards as described in this proposal (Part II.E)  - Strictly apply the GRM.	<ul> <li>Review procurement contracts</li> <li>Review complaints received related to negative environmental impacst on project areas.</li> </ul>	UNOPS and IFAD
2.Access and Equity	Y	There is a small risk of Inequitable participation in project decision making and access to project benefits due to a weak targeting strategy.	Project beneficiaries (i.e. population; groups) have been mapped.  Community consultations and focus groups discussions have been conducted per beneficiary group to identify possible rivals, disputants and concerns related to equal	Potential tension and/or conflict within community in the target areas.	The project design supports equal access to project benefits through a participatory approach (i.e. a participatory planning and decision-making process). The project will ensure equal opportunities in participation and decision-making concerning the project of women, youth, ethnic groups and other vulnerable groups by using quotas	- Review selected beneficiaries against selection critieria - Review complaints related to bias in selection.	UNOPS and IFAD
3.Marginalize d and Vulnerable Groups	Y	There is a small risk of marginalised groups being excluded from project implementation processes and benefits. This is mainly due to traditions related to gender roles and the tribal culture that could exclude certain groups.	access of project benefits (see part II.H). There will be neither discrimination nor favouritism in accessing project/programme benefits. Project benefits will be allocated and distributed equally through a participatory process and through joint decision-making using agriculture and water user associations and women and youth groups.	<ul> <li>Lost opportunity of capitalizing on women and youth potential.</li> <li>Not meeting results framework targets regarding women and youth.</li> </ul>	<ul> <li>and by agreeing on representation in decision-making processes through the use of ToRs, agreements, etc.</li> <li>The targeting strategy should take into consideration the different needs of the different groups for each activities and apply strict criteria for selection of beneficiaries.</li> <li>Strictly apply the GRM.</li> </ul>	- Review selected beneficiaries against selection critieria and women and youth percentages - Review complaints related to exclusion of certain groups.	UNOPS and IFAD
4.Human Rights	Υ	Human rights breaches can arise over denial of access to decision making and project benefits or other human right violations (including	Treaties not ratified in Libya include:  - CAT-OP - optional protocol of the convention against torture  - CCPR-OP2-DP - second optional protocol to the international covenant on	- Gender Issues and all forms of Gender-Based Violence, including sexual harassment due to the increasing mobilisation of	As per principle 8, the project will not allow any involuntary resettlement.  - Increase local engagement to work with local leaders and male household's members and promote campaign for sensitisation on gender equality and against gender biases.	- Collect gender- disaggregated monitoring and evaluation data to track the extent to	UNOPS, IFAD and community leaders.

		sexual harassment and gender based violence).	civil and political rights aiming to the abolition of the death penalty  - CED - convention for the protection of all persons from enforced disappearance  - CED, art.32 - interstate communication procedure under the international convention for the protection of all persons from enforced disappearance	women to participate in project activities - Child labour used in project's activities.	Community and Household level as well as child labour.  - Conducting gender-sensitive and participatory consultations while executing the various activities. These have to include safe spaces/ women-only focus groups to encourage women's meaningful participation in consultations.  - Create female only spaces for women to receive trainings and services.  - Any agreement / contract for the project will include reference to human rights treaties and to respect these including prohibiting child labour Strictly apply the GRM.	which women have been able to participate and benefit from project activities.  - Cases of sexual harassment has to be dealt with in compliance with IFAD's Policy to Preventing and Responding to SH/SEA and reported directly to IFAD Review contracts for human rights and child labour clauses - Review child labour complaints in compliance with GRM	
5.Gender Equity and Women's Empowermen t	Y	There is a risk of local cultures / traditions blocking women's voices or exclude them from decision making.	Women are not well represented in local government authorities. An initial gender approach and baselineline has been developed and included as annex 2	Lost opportunity of capitalizing on women's potential to help the sector's adaptation.     Not meeting results framework targets regarding women.	See principles 2 and 3 The project has specific gender targets and budget allocations.  - Women to be involved in all participatory and consultation groups.  - Adhere to targeting strategy and meet results framework targets.  - Strictly apply the GRM.	- Review selected beneficiaries against women target percentages - Review complaints related to exclusion based on gender.	UNOPS and IFAD

6.Core Labour Rights	Y	There is a small risk of labour standards not being respected in project contracts by service providers. This may include:  Non-involvement of local employment  Non-compliance for worker rights  Limited facilities	ILO conventions and protocols currently not ratified: Relevant standards not ratified in Libya include:  Fundamental: C155 - Occupational Safety and Health Convention, 1981 (No. 155) C187 - Promotional Framework for Occupational Safety and Health Convention, 2006 (No. 187) Governance: C129 - Labour Inspection (Agriculture) Convention, 1969 (No. 129) Technical: C184 - Safety and Health in Agriculture Convention, 2001 (No. 184)	Dissatisfaction among workers and employees in the project and potential cases of labour abuse.	The project follows ILO core labor standards. Looking at the conventions and protocols not ratified, the project will be particularly attentive to any health and safety and inspections.  - Any agreement / contract for project works signed will include reference to compliance with all ILO labour standards, also not ratified relevant standards in Libya - Strictly apply the GRM.	<ul> <li>Review contracts for clauses related to ILO labour standards.</li> <li>Review complaints related to labour rights abuse.</li> </ul>	UNOPS and IFAD.
7.Indigenous Peoples	Y	There is a small risk of non-integration of ethnic groups' needs, cultural considerations and possible concerns	Initial consultations with ethnic groups have already been conducted to identify specific needs and possible concerns The inhabitants of the project target areas are not indigenous people but rather ethnic groups namely: Arab-Berber and Berber. However, the Amazigh people live in many areas including the town of At-Wilul at Zwara district which the project is not targeting specifically (the district is targeted but not the town).	Potential tension and/or conflict within community between ethnic groups in the target areas.	The project recognises the rights of all ethnic groups.  - Free, Prior, Informed Consent (FPIC) will be applied by 1) mapping all ethnic groups and potential impacts of the project on these groups and 2) involving ethnic groups in planning and decision-making processes, including not going ahead with activities if not agreed by ethnic groups (including having written consent).  - The engagement of ethnic groups will be monitored.  - Strictly apply the GRM.	<ul> <li>Review FPIC reports to ensure the transperancy of the process.</li> <li>Review complaints related to exclusion on ethnic basis.</li> </ul>	UNOPS and IFAD.

8.Involuntary Resettlement	N	There is no risk of involuntary resettlements	It is not foreseen that land other than agriculture land will be targeted under this project. The project determined that no physical or economic displacement will take place due to the project/programme. This has been determined by mapping project target sites land ownership (private, public) and land use, also informally, and through consulting communities / users on the possible risk of resettlement and to get agreement on proposed interventions (i.e. no interventions will take place without the consent of inhabitants in the targeted areas). Land owners, private or public, have agreed with	X	Resettlement as a result of project activities will be avoided at all time.  Owners of private land or people with informal livelihoods that may affected by the project will need to agree with project interventions before they start People without land title can be selected as project beneficiaries without risk of losing investment / land.	X	X
9.Protection of Natural Habitats	N	There is no risk of Natural Habitats being negatively impacted by project activities	using their land for project activities  The project ensures that no unjustified conversion or degradation of critical natural habitats will take place because of project activities. During project preparation, it has been checked if any critical natural habitats exist in the target location, including their location, characteristics and critical value (i.e. legal protection status, common knowledge or traditional knowledge), as well as possible negative impacts on these due to project activities.  As per Ramsar there are no vulnerable natural habitats in the five north-western target districts. There are only two in Marj and Derna districts.	X	Natural habitats in Marj and Derna districts will be considered in the CCVAs.	X	X

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			As per <u>UNESCO</u> there is one biosphere reserve				
			(Ashaafean) in the Nafusa				
			mountains in the target				
			districts of Nalut and Al jabal				
			al Gharbi. No project				
			interventions will take place in				
10.Conservati on of Biological Diversity	Y	There is a very small risk of biodiversity being negatively impacted by the project activities under components 2 and 3.	these reserve  The project ensures that any significant or unjustified reduction or loss of biological diversity because of project activities will be avoided. During project preparation, it has been checked if any important biodiversity exist in the target location, including their protection status and other recognised inventories as well as possible negative impacts on these due to project activities.  As per IUCN Red List From the 21 critically endangered and 24 endangered species, 3 are potentially located in the four north-western target districts: the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture.	Although it is highly unlikely, the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture may be impacted by project activities.	<ul> <li>Potential internventions in areas with abundance of these species will be avoided as much as possible.</li> <li>Impact on these species will be monitored.</li> </ul>	- Review reports on the impact of project activities on these species.	UNOPS and IFAD.
			Drought and heat resilient and				
			salt resistant crop varieties				
			will be varieties of crops				
			already in use				

11.Climate Change	Y	There is a small risk of increased energy use due to project activities and thus a negligible increase in GHG emissions.	Interventions involving energy use and/or related to the livestock sector might result in the increase of emissions from the target areas.	Negligible increase in Libya's GHG emissions.	The project will not support any activities that will increase energy use unless energy use is compensated with renewable energy use.  - Trainings to include low emissions rangeland management and livestock practices.	- Review training modules related to component 3	UNOPS
12.Pollution Prevention and Resource Efficiency	Y	There is a small risk of inefficient resource use	This is mostly related to the use of inputs from the grants being used inefficiently and unsustainable use of groundwater resources.	The grant packages will not be used in the most optimum way and water could be exploited in an unsustainable manner. Also, there is a risk that grant packages will increase the use of agriculture inputs (e.g. pesticides, fertilizers, etc.)	The project is designed to efficiently use energy and materials and to avoid any produce of additional waste.  - Geological surveys to be conducted for groundwater resources as part of components 2 and 3.  - Trainings to beneficiaries of the grant packages will include advice on resource efficiency and pollution prevention including good agriculture practices (e.g. organic fertilizers, IPM, etc.)	- Review geological survey reports - Review training modules related t components and 3	
13.Public Health	Y	There is a small risk of health risks, which may include: - Security incidents - vector borne and communicable diseases - Health and safety incidents - Theft and/or stolen items  Also, Covid-19 transmissionCOVID-19 remains a risk for the project implementation and could cause serious delays. The total	The project is expected to have an overall beneficial impact on the public health with improved access to climate-proofed yields and increase quality of produce; Any increase of the use of pesticides as part of project activities will be avoided. However, there is still a risk that the project's activities unintentionally aggravate public health concerns in the target areas including waterborne diseases and COVID-19.	Spread of diseases among the community in target areas.	Measures to reduce the potential impact of COVID-19 (and other emerging health risks) situationon project activities will be further assessed as proposed under section III.B (financial and project/programme risk management). Extra mitigation measures regarding protecting public health from spreading infections will also be incorporated into the project's ESCMP as needed.  Any increase of the use of pesticides as part of project activities will be avoided  Include flexible approach to having some activities 'online' when needed and feasible (e.g. institutional trainings) and applying health and safety	- Review complaints regarding spread of diseases from project beneficiaries.	

	T							1
		cases in Libya				measures during physical		
		stands at 506,775 <sup>41</sup>				workshops/events.		
		but the latest trend						
		shows a sharp			-	ILO health and safety standards		
		decline in the				to be applied		
		number of new						
		cases. On the other						
		hand, the project						
		activities themselves						
		carry the risk of						
		aggravating the spread of COVID-19						
		among communities						
		as a result of project						
		activities that involve						
		mobilization (e.g.						
		trainings).						
		Otherwise, health						
		risks are limited						
14.Physical	N	There is no risk of	The project ensures that the	х			Х	Х
and Cultural		project activities	alteration, damage, or					
Heritage		negatively impacting	removal of any physical					
		heritage sites	cultural resources, cultural					
			sites, and sites with unique					
			natural values recognized as					
			such at the community,					
			national or international level					
			due to project activities will be					
			avoided. During project					
			preparation, It has been					
			checked if physical or cultural					
			heritage sites are present or near project sites, as well as					
			possible risks of impacts on					
			these due to project activities.					
			incoc due to project delivities.					
			As per <u>UNESCO</u> there are 5					
			cultural heritage sites in Libya					
			Archaeological Site of Cyrene (1)					
			Archaeological Site of Leptis Ma					
			Archaeological Site of Sabratha					
			Old Town of Ghadamès (1986)					
			Rock-Art Sites of Tadrart Acacus					
					1			

<sup>41</sup> Worldometres (2022). COVID-19 cases: Libya. <a href="https://www.worldometers.info/coronavirus/country/libya/">https://www.worldometers.info/coronavirus/country/libya/</a> [Last accessed = 31/08/2022).

			Although two are located in the five north-western target districts, these are protected structures and there is no risk of project activities negatively impacted these.				
15.Lands and Soil Conservation	N	There is no risk of project activities negatively impacting lands and soils	The project ensures no negative impacts lands and soil conservation will result from project activities. All proposed project activities aim to enhance sustainable land and soil use. No excavations will take place.  In the four north-western target districts there are some soils at the margin of a desert area and coastal soils. These are at risk of degradation under the current circumstances in the country	x	The project is designed to avoid any negative effects on any soil or lands and only have positive effects through improvement of soil or reducing degradation.	х	X

#### 1.3. Screening and categorization

- 161. Based on the screening against the 15 AF principles, the project has been categorised as a "B" category project in terms of the environmental and social risks it poses. See also Part II.L.
- 162. For an overview of project activities' screening results against the 15 AF principles see below table. For details, see the next section.

Table 40 Overview of environmental and social impacts and risks for which further assessments and management are required\*

Checklist of environmental and social principles	No further assessment required for compliance (during project implementation)	Potential impacts and risks – further assessment and management required for compliance
1. Compliance with the Law		X
2. Access and Equity		X
3. Marginalized and Vulnerable Groups		X
4. Human Rights		X
5. Gender Equality and Women's Empowerment		X
6. Core Labour Rights		X
7. Indigenous Peoples		X
8. Involuntary Resettlement	X	
9. Protection of Natural Habitats	X	
10. Conservation of Biological Diversity		X
11. Climate Change		X
12. Pollution Prevention and Resource Efficiency		X
13. Public Health		X
14. Physical and Cultural Heritage	X	
15. Lands and Soil Conservation	X	

Table 41 Overview of project activities' screening results against the 15 AF risk areas / principles. This table is in line with table 39 and the risks screening sheets presented later, as these are directly related to project activities and not typical or general risks.

Detailed outputs / activities	Risk screening result	Explanation why triggered or not
Component 1: Participatory prioritization of climate change adaptation options into	national, district and	community planning for agriculture/ livestock development
Output 1.1. Climate change vulnerability and hazards risks assessments conducted for the agriculture/ livestock sector in Libya, specifically targeting districts in the north-west (5), north-east (4) and south (4) with the participation of vulnerable groups and women	Potential risks related to AF ESP Principles 3, 5, 7 and 14.	Principles 3, 5 and 7 were triggered based on concerns related to exclusion of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.  Principle 13 was triggered due to mobilizing people as a result of trainings, consultations, workshops that could increase the risk of spreading some communicable diseases (e.g. COVID-19). The risk will be mitigated through health and safety standards and online meetings if needed/feasible.
Output 1.2.  National climate resilient agriculture / livestock strategy developed in which climate change hazard risks and adaptation options are identified, prioritized and promoted at national and district level, with specific attention to the needs of vulnerable groups and women	Potential risks related to AF ESP Principles 3, 5 and 7.	Principles 3, 5 and 7 were triggered based on concerns related to exclusion of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.
Component 2: Climate resilient investment in concrete activities in the agriculture se	ector	
Output 2.1. Climate change resilient crops (i.e., drought /heat resilient and salt resistant crop varieties) implemented in four (4) districts in the northwest of Libya, including through around 5900 grant packages (of USD 560 each) to farmer, women and youth groups.	Potential risks related to AF ESP Principles 1, 2, 3, 4, 5, 6, 7, 10, 12 and 13.	Principle 1 was triggered based on a potential small risk of subcontractors non-complying with national laws/ standards that could result in environmental harm. However, the risk could be mitigated through contractual clauses to abide to national technical standards and international best practices.
		Principles 2, 3, 5 and 7 were triggered based on concerns related to exclusion of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.
		Principles 4 and 6 were triggered due to concerns on human and labour rights stemming from non-ratification of some of the human rights conventions. However, this risk will be mitigated by contractual clauses for subcontractors that align with UN and international human rights as well as ILO principles.
		Principle 10 was triggered due to minimal potential risks related to 3 species namely the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture that could be impacted by project activities. However, interventions in areas where these species are abundant will be avoided as much as possible and any impact will be monitored closely.
		Principle 12 was triggered with risks related to the use of inputs from the grants being used inefficiently and unsustainable use of groundwater resources. However, trainings on resource efficiency and geological

		surveys to be conducted for groundwater resources should mitigate those risks.
Output 2.2.	Potential risks	Principle 13 was triggered due to the increase use in water resources that could aggrevate the risk of spreading water-borne diseases. Awareness raising on the risks of these diseases and how to minimize their spread will be included in training manuals.  Principles 3, 5 and 7 were triggered based on concerns related to exclusion
Relevant public Institutional staff, farmers and women trained to implement, maintain and sustain climate change resilient crops and to support the strengthening or creation of community organizations and community development plans	related to AF ESP Principles 3, 5 and 7.	of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.
Component 3: Climate resilient investment in concrete activities in the livestock sect	or	
Output 3.1.  Climate change resilient natural asset / resource (i.e. rangeland management) production system protection / rehabilitation improvements implemented in two (2) districts in the northwest of Libya, including through around 3600 grant packages (of USD 560 each) to pastoralists and women groups	Potential risks related to AF ESP Principles 1, 2, 3, 4, 5, 6, 7, 10, 11, 12 and 13.	Principle 1 was triggered based on a potential small risk of subcontractors non-complying with national laws/ standards that could result in environmental harm. However, the risk could be mitigated through contractual clauses to abide to national technical standards and international best practices.
		Principles 2, 3, 5 and 7 were triggered based on concerns related to exclusion of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.
		Principles 4 and 6 were triggered due to concerns on human and labour rights stemming from non-ratification of some of the human rights conventions. However, this risk will be mitigated by contractual clauses for subcontractors that align with UN and international human rights as well as ILO principles.
		Principle 10 was triggered due to minimal potential risks related to 3 species namely the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture that could be impacted by project activities. However, interventions in areas where these species are abundant will be avoided as much as possible and any impact will be monitored closely.
		Principle 11 was triggered due to a small risk of increased energy use due to project activities as well as increase in livestock and thus a negligible increase in GHG emissions. However, the project will not support any activities that will increase energy use unless energy use is compensated with renewable energy us and. Trainings will include low emissions rangeland management and livestock practices.
		Principle 12 was triggered with risks related to the use of inputs from the grants being used inefficiently and unsustainable use of groundwater

Output 3.2.  Relevant public Institutional staff, pastoralists and women trained to implement, maintain and sustain climate change resilient natural asset / resource (i.e. rangeland management) production system improvements and to support the strengthening or creation of community organizations and community development plans  Component 4: Capturing and disseminating relevant knowledge and learning on clin district and community level	Potential risks related to AF ESP Principles 3, 5 and 7.	resources. However, trainings on resource efficiency and geological surveys to be conducted for groundwater resources should mitigate those risks.  Principle 13 was triggered due to the increase use in water resources that could aggrevate the risk of spreading water-borne diseases. Awareness raising on the risks of these diseases and how to minimize their spread will be included in training manuals.  Principles 3, 5 and 7 were triggered based on concerns related to exclusion of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.  Practices, products and technologies and to replicate these at national,
Output 4.1.  Mechanism implemented to capture and disseminate relevant knowledge and learning of climate change resilient practices, products and technologies and to replicate these at the national level and to one (1) district in the northwest, four (4) districts in the northeast and four (4) districts in south and to vulnerable groups and women, including through workshops, guidelines, farmer field schools, a ToT programme and field visits to demo plots.	Potential risks related to AF ESP Principles 3, 5, 7 and 14.	Principles 3, 5 and 7 were triggered based on concerns related to exclusion of women, youth, most vulnerable and ethnic groups. Selection bias could result on discrimination based on gender, age or ethinicity. However, the project's target strategy, FPIC, targets for women and youth and the grievance and redress mechanism will mitigate those risks.  Principle 13 was triggered due to mobilizing people as a result of trainings, consultations, workshops that could increase the risk of spreading some communicable diseases (e.g. COVID-19). The risk will be mitigated through health and safety standards and online meetings if needed/feasible.

#### Details and results of the risks screening process

This section discusses both the potential environmental and social risks identified directly linked to proposed project activities and the typical potential risks in the context of projects in Syria. The latter are regarded as low risks but risk avoidance / mitigation measures are proposed to ensure no negative impacts will occur.

#### **Principal 1: Compliance with the Law**

Screening result: Low risk

Explanation: Relevant national standards and project compliance with these have been identified. No impact assessment is required by national law for proposed interventions. However, there is still a small risk of subcontractor non-complying with national law. However, the project will ensure compliance by including standard clause in all project contracts with reference to laws/ standards as described in this proposal (Part II.E) and reviewing complaints received on incompliance through the GRM.

The process of EIA has been identified as follows (more details are in Part II.E):

Ste	Steps Responsibilities		
1.	Project preparation	Usually made by the developer (owner) and the consultant.	
2.	Notification to EGA	The developer will notify EGA about the plan (field survey, activity type, etc)	
3.	Screening and scoping	The field survey (data acquisition) and the data arrangement in the office will be	
		made by the consultant according to the owner plan	
4.	Environmental studies	The studies will be achieved and completed.	
5.	Submission to EGA /	EIA, EBS studies are submitted to EGA.	
	EIA dept		
6.	Reviewing and	The evaluation is done by the EIA dept. staff	
	evaluation of studies		
7.	Consultation with EIA	Discussion with the manager about the permission condition depending on the	
	manager	evaluation of the introduced study	
8.	Final decision	The final decision will be issued by EIA Manager or EGA secretary	

#### **Principal 2: Access and Equity**

Screening result: Low risk

Explanation: There is a small risk of Inequitable participation in project decision making and access to project benefits due to a weak targeting strategy. This risks creating tension that could lead to conflict among communities in the target areas. The project design supports equal access to project benefits through a participatory approach (i.e. a participatory planning and decision-making process). The project will ensure equal opportunities in participation and decision-making concerning the project of women, youth, ethnic groups and other vulnerable groups by using quotas and by agreeing on representation in decision-making processes through the use of ToRs, agreements, etc. In addition, the project will apply strict selection criteria in the targeting strategy and will periodically review complaints with regards to discrimination or negative impacts by beneficiaries.

#### **Principal 3: Marginalized and Vulnerable Groups**

Screening result: Low risk

Explanation: There is a small risk of marginalised groups being excluded from project implementation processes and benefits. This is mainly due to traditions related to gender roles and the tribal culture that could exclude certain groups which would lead to a lost opportunity of using women and youth as change agents as well as not meeting the targets in the results framework. However, The project will ensure equal opportunities in participation and decision-making concerning the project of women, youth, ethnic groups and other vulnerable groups by using quotas and by agreeing on representation in decision-making processes through the use of ToRs, agreements, etc. In addition, the project will apply strict selection criteria with certain percentages for women and youth in the targeting strategy and will periodically review complaints with regards to discrimination on the basis of sex, age or ethnicity.

Principal 4: Human Rights Screening result: Low risk Explanation: Human rights breaches can arise over denial of access to decision making and project benefits or other human right violations (including sexual harassment and gender based violence). Treaties not ratified in Libva include:

- CAT-OP optional protocol of the convention against torture
- CCPR-OP2-DP second optional protocol to the international covenant on civil and political rights aiming to the abolition of the death penalty
- CED convention for the protection of all persons from enforced disappearance
- CED, art.32 interstate communication procedure under the international convention for the protection of all persons from enforced disappearance

The project will target women beneficiaries and so risk of sexual harassment, gender based violaence and gender abuse will likely increase in addition to potential child labour incidents. However, the project will Increase local engagement to work with local leaders and male household's members and promote campaign for sensitisation on gender equality and against gender biases. The project will also conduct gender-sensitive and participatory consultations while executing the various activities. These have to include safe spaces/ women-only focus groups to encourage women's meaningful participation in consultations. As needed, the project will create female only spaces for women to receive trainings and services. In addition, any agreement / contract for the project will include reference to human rights treaties and to respect these including prohibiting child labour. Finally, the project will strictly apply the GRM with special arrangements for sexual harrasmenet complaints (see GRM section below).

#### **Principal 5: Gender Equality and Women's Empowerment**

Screening result: Low risk

Explanation: There is a risk of local cultures/ traditions blocking women's voices or exclude them from decision making (see annex 2 for more details). This would lead to lost opportunity of capitalizing on women's potential to help the sector's adaptation. However, as mentioned above, women will be involved in all participatory and consultation groups as per the gender strategy (see annex 2 for more details). In addition, the project will apply the targeting strategy which sets out a certain percentage for women as target beneficiaries. Finally, the project will also review complaints related to discrimination based on sex.

#### **Principal 6: Core Labour Rights**

Screening result: Low risk

Explanation: There is a risk that the international labour rights are not respected in contracts by service providers. However, The project follows ILO core labor standards. The project will be particularly attentive to health and safety and inspections standards. Any agreement / contract for project works signed will include reference to compliance with all ILO labour standards, even if not ratified in Libya. Finally, the project will periodically review any complaints related to working conditions or labour rights.

#### **Principal 7: Indigenous Peoples**

Screening result: Low risk

Explanation: There is a small risk of non-integration of ethnic groups' needs, cultural considerations and possible concerns. Initial consultations with ethnic groups have already been conducted to identify specific needs and possible concerns. The inhabitants of the project target areas are not indigenous people but rather ethnic groups namely: <a href="Arab-Berber and Berber">Arab-Berber and Berber</a>. However, the Amazigh people live in many areas including the town of At-Wilul at Zwara district which the project is not targeting specifically (the district is targeted but not the town). The project will in all cases apply Free, Prior, Informed Consent (FPIC) by mapping all ethnic groups and potential impacts of the project on these groups and involving ethnic groups in planning and decision-making processes, including not going ahead with activities if not agreed by ethnic groups (including having written consent). The project will also review complaints through the GRM related to discrimination based on ethnic backgrounds.

**Principal 8: Involuntary Resettlement** 

Screening result: No potential risk

Explanation: It is not foreseen that land other than agriculture land will be targeted under this project. The project determined that no physical or economic displacement will take place due to the project/programme. This has been determined by mapping project target sites land ownership (private, public) and land use, also informally, and through consulting communities / users on the possible risk of resettlement and to get agreement on proposed interventions (i.e. no interventions will take place without the consent of inhabitants in the targeted areas). Land owners, private or public, have agreed with using their land for project activities.

#### **Principal 9: Protection of Natural Habitats**

Screening result: No potential risk

Explanation: The project ensures that no unjustified conversion or degradation of critical natural habitats will take place because of project activities. During project preparation, it has been checked if any critical natural habitats exist in the target location, including their location, characteristics and critical value (i.e. legal protection status, common knowledge or traditional knowledge), as well as possible negative impacts on these due to project activities. As per Ramsar there are no vulnerable natural habitats in the five north-western target districts. There are only two in Mari and Derna districts.

#### **Principal 10: Conservation of Biological Diversity**

Screening result: Low risk

Explanation: There is a very small risk of biodiversity being negatively impacted by the project activities under components 2 and 3. The project ensures that any significant or unjustified reduction or loss of biological diversity because of project activities will be avoided. During project preparation, it has been checked if any important biodiversity exist in the target location, including their protection status and other recognised inventories as well as possible negative impacts on these due to project activities.

As per <u>IUCN Red List</u> From the 21 critically endangered and 24 endangered species, 3 are potentially located in the four north-western target districts: the Thorectes puncicollis, the saker Falcon and the Egyptian Vulture.



Drought and heat resilient and salt resistant crop varieties will be varieties of crops already in use. The project will ensure that potential internventions in areas with abundance of these species will be avoided as much as possible and that any impact on these species will be closely monitored.

#### **Principal 11: Climate Change**

Screening result: Low risk

Explanation: There is a very little risk related to the increase of GHG emissions due to the increase in the use of energy and the interventions that could increase livestock activity. However, these could only increase emissions at a negligible scale. The project will then ensure that the energy use increase is only compensated with renewable energy use. It will also use the trainings and capacity building to promote low carbon agriculture and livestock practices among beneficiaries of the grant packages.

#### **Principal 12: Pollution Prevention and Resource Efficiency**

Screening result: Low risk

Explanation: There is a small risk of inefficient. The grant packages may not be used in the most optimum way and water could be exploited in an unsustainable manner. Also, there is a risk that grant packages will increase the use of agriculture inputs (e.g. pesticides, fertilizers, etc.). Hence, the project will conduct the necessary geological surveys in the target areas where there will be groundwater use. In addition, the trainings for beneficiaries will focus on good agicultural practices (e.g. organic fetilizers, IPM, etc.).

#### **Principal 13: Public Health**

Screening result: Low risk

Explanation: The project is expected to have an overall beneficial impact on the public health with improved access to climate-proofed yields and increase quality of produce; Any increase of the use of pesticides as part of project activities will be avoided. However, there is still a risk that the project's activities unintentionally aggravate

public health concerns in the target areas including waterborne diseases and COVID-19. Measures to reduce the potential impact of COVID-19 (and other emerging health risks) will be taken and situation will be further assessed as proposed under section III.B (financial and project/programme risk management). Extra mitigation measures regarding protecting public health from spreading infections will also be incorporated into the project's ESCMP as needed. Through trainings, any increase of the use of pesticides as part of project activities will be avoided. If needed, the project will include flexible approach to having some activities 'online' when needed and feasible (e.g. institutional trainings) and applying health and safety measures during physical workshops/events. ILO health and safety standards to be applied (see principle 6).

# **Principal 14: Physical and Cultural Heritage**

Screening result: No potential risk

Explanation: The project ensures that the alteration, damage, or removal of any physical cultural resources, cultural sites, and sites with unique natural values recognized as such at the community, national or international level due to project activities will be avoided. During project preparation, It has been checked if physical or cultural heritage sites are present or near project sites, as well as possible risks of impacts on these due to project activities. As per UNESCO there are 5 cultural heritage sites in Libya

- Archaeological Site of Cyrene (1982)
- Archaeological Site of Leptis Magna (1982)
- Archaeological Site of Sabratha (1982)
- Old Town of Ghadamès (1986)
- Rock-Art Sites of Tadrart Acacus (1985)



Although two are located in the five north-western target districts, these are protected structures and there is no risk of project activities negatively impacted these.

### **Principal 15: Lands and Soil Conservation**

Screening result: No potential risk

Explanation: The project ensures no negative impacts lands and soil conservation will result from project activities. All proposed project activities aim to enhance sustainable land and soil use. No excavations will take place. In the four north-western target districts there are some soils at the margin of a desert area and coastal soils. These are at risk of degradation under the current circumstances in the country

# 1.4. Environmental, Social and Climate Management Plan (ESCMP)

163.	Content:
	Allocated roles and responsibilities environmental and social risk management / implement of the
	ESCMP
	Opportunities for adaptive management
	Arrangements to supervise executing entities for implementation of ESCMP
	Budget provision to manage environmental and social risks/ implement of the ESCMP
	Measures to avoid, minimize, or mitigate potential risks
	Risks monitoring system/ indicators
П	Grievance and Redress Mechanism

# 164. Allocated roles and responsibilities for environmental and social risk management / implementation of the ESCMP

IFAD will be responsible for environmental and social risks management of the project, including implementation of the Project ESCMP. An AF and IFAD policies and reporting compliance expert will be part of the IFAD project team. This expert will also supervise UNOPS on the implementation of the Project ESCMP. Guidelines showing how to comply to the AF ESP and GP will be shared with UNOPS and UNOPS will be guided on the process, including monitoring. A Safeguarding system compliance expert will also be part of the IFAD project team. Monitoring project staff will require having expertise on environmental and social risk management and be familiar with the AF safeguarding system.

# 165. Roles and Responsibilities

Table 42 Roles and Responsibilities for Direct Contracting

Team	Role	Responsibility
IFAD	Project Management	<ul> <li>Coordination with UNOPS and national authorities</li> <li>Appoint project grievance mechanism focal point to implement the Grievance Redress Mechanism</li> </ul>
	AF and IFAD policies and reporting compliance expert	<ul> <li>Review ESCMP at inception phase</li> <li>ESCMP monitoring</li> <li>Reporting (PPR)</li> <li>Documentation of site, interviews with beneficiaries</li> </ul>
UNOPS / Contractor	Project Lead / Manager	Reporting to IFAD Team and ensuring project execution, including but not limited to:     Co-develop ESCMP with Safeguard Consultant Team     Implement ESCMP     Report on ESCMP safeguard activities and key performance indicators to IFAD

166.	All project-related ToR's and contracts will include clauses stating contractors will need to comply to the AF
ES	SP, especially principle 1 (law), 4 (human rights), 5 (gender), 6 and 13 (labour and safety), 8 (involuntary
res	settlement and 11/12 (emissions / pollution) and to the AF GP. This includes:
_	
L	Principle 1: References to laws and standards to which the project activity will need to comply will be
	included in all legal agreements with all sub-contractors, including steps and responsibilities fo compliance.
	Principle 4: References to relevant Humans rights declarations will be included in all legal agreements with
	all sub-contractors.
	Principle 5: Reference to relevant gender policies and approach and baseline
	Principe 6: Employment and working conditions following ILO standards will be included in lega
	agreements with all sub-contractors.
	Principle 8: Statement that no involuntary resettlement will take place due to project activities

- □ Principle 11: Commitment to avoiding GHG emission, where possible
   □ Principle 13: Ensure that ICSC international health and safety standards are clearly accessible and understood. e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment.
- 167. Minimum requirements and standard clauses will include:

# 168. Principle 1: Compliance with the laws

Potential risk / impact	Mitigation
Non-compliance with	Include standard clause in MoU / all contracts with reference to laws / standards as
laws / standards	described in this proposal (Part II.E)

# 169. Principle 4: Human Rights

Potential risk / impact	Mitigation			
Limited awareness on	Share information on human rights with project beneficiary groups at the inception phase			
human rights	of the project			

# 170. Principle 5: Gender Equality and Women's Empowerment.

Potential risk / impact	Mitigation			
Limited awareness of gender approach and baseline	Share information on gender policies and approach and baseline with project actors			

# 171. Principle 6 Core labour rights

Potential risk / impact	Mitigation			
Non-involvement Local	Measures to maximise local employment			
Employment	Work with local community on verification of local workers where feasible			
Non-Local Procurement	Measures to maximise local procurement			
	Work with local community on verification of local suppliers where feasible			
Non-compliance Worker	Include standard clause in MoU / all contracts:			
Rights	<ul> <li>HR policy aligned with local law, IFC PS2 and ILO Core Conventions</li> <li>Worker Grievance Mechanism will be established</li> </ul>			
	<ul> <li>Enforce minimum age expectations (according to ILO) and GoL minimum age)</li> <li>Measures to ensure Contractor adopts project HR Policy standards (either contractually or through monitoring)</li> <li>Ensure all employees are provided with a written employment contract before start of works</li> <li>Provide details of the transport arrangements for all workers to and from their accommodation (dedicated or in the local community)</li> <li>Refer to Occupational Health and Safety Procedures</li> </ul>			
Contractor to provide or facilitate access to necessary worker facilities whice are not limited to: toilets, rest areas, smoking areas, canteen and potable do to WHO standards				
	All worker facilities and accommodation will be cleaned, maintained and centrally managed			

# 172. Principle 11 climate change

Potential risk / impact	Mitigation				
Increased GHG	Exact project-related energy use to be determined during project inception phase an				
Emissions due to Project	where feasible, 'extra' energy use to be compensated through installation of solar PV				
Emissions (such as from					
WWTP and pumping)					

# 173. Principle 13 Health

Detential rick / impact	Mitigation			
Potential risk / impact	Mitigation  Ensure health and agfety precedure prior to construction that establishes precedures			
Security incidents	Ensure health and safety procedure prior to construction that establishes procedures  A LIVE placement and transportation of read allowance from acquirity of general and transportation of read allowance from the procedure.  The procedure is a second of the placement of the			
On a settle at the attraction	such as UXO clearance and transportation of goods clearance from security agencies			
Occupational Health and	Occupational Health and Safety Procedures must be developed, specific to each Project			
Safety	output, for the following:			
	Working at Height			
	Heavy Lifting			
	Working in Confined Spaces			
	Excavation Works			
	Hot Work			
	Working and Scaffolding			
	Electrical Safety			
	Working with Machinery			
	Site Clearance (debris management, unexploded ordinances)			
	Collapsing Structures			
	Handling of Hazardous Materials			
	Weather Conditions			
	Lone Working			
	l			
	. , , , , , , , , , , , , , , , , , , ,			
	Earthmoving and Concreting  Page 14 to Words Constant			
	Permit to Work System			
	Lock Out Tag Out (LOTO) System			
	Minimum Mandatory PPE (incl. shoes, helmets, gloves, high-visibility vest, safety)			
	glasses)			
	Proper Safety Signage			
	Medical Clinic and First Aid			
	Housekeeping			
Increase in Social	A Worker Code of Conduct/Training must be developed and at a minimum must:			
Tension due to	Outline general requirements and expectations on security interaction with community			
Contractor-Community	and external stakeholders, respectful, polite, and honest behaviour is expected from all			
Interactions and Security	employees			
	Outline requirements on conflict avoidance and sensitivity to local cultures, traditions and			
	lifestyles.			
	Ensure that no workers are to engage with the local community except via an appointed			
	representative			
	Ensure zero tolerance of illegal activities by all personnel including: prostitution; illegal			
	sale or purchase of alcohol; the sale, purchase or consumption of drugs; gambling and			
	fighting			
	Be included as part of induction and signed by all employees			
Increase in Vector Borne	A Vector Borne and Communicable Diseases Procedure must be developed and at a			
and Communicable	minimum must:			
Diseases	Limit the spread of vector borne disease and communicable diseases			
Limited emergency	Audit and gap assessment of local capacity			
Response Local Capacity	Coordinate with local emergency response teams (fire, EMS, police, hospital) and			
and Equipment	implement mitigations to address gaps			
1	implementation to address gaps			
Workplace health and	An Emergency Preparedness and Response Procedure must be developed and at a			
safety incidents	minimum must:			
	Define individual emergency response actions for all potential scenarios			
	Define a schedule of emergency drills and scenarios			
	<ul> <li>Establish an Emergency Response Team with dedicated resources and equipme</li> </ul>			
	Ensure emergency communications system is in place and reliable			
	· · · ·			
Interaction with accounts	Define COVID-19 procedure (see below)      Develop Security and Human Bights Management Broadure that is in alignment with			
Interaction with security	Develop Security and Human Rights Management Procedure that is in alignment with  UNDSS SOR JEC BS4 and the Voluntary Principles of Human Rights			
actors	UNDSS SOP, IFC PS4 and the Voluntary Principles of Human Rights			
	All private security personnel to receive procedural or knowledge training in:			

Potential risk / impact	Mitigation		
	Guard-post orders and procedures		
	Proper conduct and ethics/human rights		
	Rules of engagement and use of force		
	Community interaction and community grievance mechanism		
	Engage the public security force through the correct hierarchy and channels early in the		
	process to set up good working relationship and improve opportunities for influence on		
	the adoption of International Standards.		
Stolen Items	In the case of public spaces, the municipality will assign a guard		
Covid-19	<ul> <li>A Health and Safety Risk Assessment of each project activity, including supply chains and associated facilities, against International Standards needs to be carried out including specific alignment with IFC PS2 (Labour and Working Conditions) as well as IFC PS4 (Community Health and Safety and Security).</li> </ul>		
	The assessment involves a four-step process:		
	<ol> <li>Conduct a Health and Safety Risk Assessment to identify the potential risk and impact of COVID-19 on project activities, including supply chains and associated facilities.</li> <li>Develop and implement mitigation measures to manage health risks for each project activity (to be provided in the ESCMPs during the project inception phase).</li> <li>If despite the implementation of mitigation measures a positive COVID-19 case is identified, then alternative "lower risk" activities will be proposed.</li> <li>If "lower risk" activities are not an option, then activities will be delayed/postponed.</li> </ol>		
	Contractors should start to implement COVID-19 mitigation measures now, even if the virus has not arrived in the communities they are operating within. The following is a list of mitigation measures to prevent the spread of COVID-19 in the workplace that must be implemented at each work site:  • Ensure workplaces are clean and hygienic. Surfaces (e.g. desks and tables) and objects (e.g. telephones, keyboards) need to be wiped with disinfectant regularly  • Promote regular and thorough hand washing		
	<ul> <li>Put sanitising hand rub dispensers in prominent places around the workplace and ensure these dispensers are regularly refilled</li> <li>Display posters promoting hand washing, and ensure that workers have access to places where they can wash their hands with soap and water</li> <li>Brief workers that if COVID 19 starts spreading in your community anyone with even a mild cough or low grade fever needs to stay at home</li> <li>Where N95 masks are not available, ordinary surgical face masks will be provided</li> </ul>		
	The World Health Organisation (WHO) has additional information and best practice approaches to occupational health and safety during the COVID-19 outbreak. The International Finance Corporation (IFC), also provides specific guidance regarding preventing and managing health risks of COVID-19 in the workplace and support for workers.		

174. Adaptive management: when changes in project activities or additional activities are required, these will need to go through a new risks screening and impact assessment process in compliance with AF, IFAD and national policies and standards. When this is required, this will be led by IFAD and the PAC would need to approve the changes.

# 175. Arrangements to supervise executing entities for implementation of ESCMP

Table 43 Capacity of potential executing entities to carry-out gender responsive activities

Table 46 eapaoity of potential exceeding challes to early out gender responsive delivines							
Potential executing entity	Skills and expertise to provide gender	Specific requirements execution entities for compliance	Capacity building needs				
	mainstreaming inputs						

UNOPS	Yes	-	Appoint an ESP compliance and gender	-	Awareness on requirements
	(UN core value)	-	focal point Capacity to comply to the AF ESP and implementation of the ESCMP guided by	-	Share guidelines for execution entities to comply and to ensure 'opportunities' are identified and
		-	IFAD Capacity to comply to the AF GP		exploited

176. Budget provision to manage environmental and social risks (incl. gender) / implement the ESCMP Dedicated safeguard/ gender compliance staff time is allocated under project execution fees. This person will be supported by IFAD safeguard/ gender specialists.

# 177. Measures to avoid, minimize, or mitigate potential risks

178. Table 46 sets out the general Environmental and Social (E&S) commitments/policies to avoid, minimise or mitigate potential risks, that are to be fulfilled by the Contractor, supported by IFAD, UNOPS and the Safeguard Consultant Team, during the Project activities as they relate to the E&S impacts attributable to the construction of works.

Table 44 Detailed program-level mitigation policies

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
A. General	Requirements			
A1. Responsibiliti es and Liabilities	Ensure that all workers, suppliers and possible subcontractors are familiar and comply with the requirements and specifications of each ESCMP.  Review Contracts to ensure that Environmental and Social Safeguards (ESS) requirements are included	Contracts	Contractor/	Review of Contracts to ensure that ESS requirements are included
	Adjust each ESCMP to the specific Project, define the frequency of the monitoring procedure and share it with IFAD and donor.  Identify if further Management Plans have to be prepared.	Final Project-specific ESCMP	Contractor/ Safeguard Consulting Team	Review at project inception phase
A2. Resources allocated to ESS Management	Assign ESS responsible staff and define the requirements and responsibilities. Typically responsible for contact with stakeholders (Community Liaison Officer (CLO))	Final Project-specific ESCMP	UNOPS	Review at project inception phase
A3. Reporting	Reporting of progress and incidents, accidents, observations, near misses	Final Project - specific ESCMP Reporting protocol for Major Incidents	IFAD	Review at project inception phase
A4. ESS Training	Provided as required during implementation for IFAD and team	Training performed and recorded	Safeguard Consultant Team	Review of training records

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
B. Protecti	on of the Environment			
B1. Emissions and dust	Use to the extent possible, vehicles in appropriate technical conditions.	Technical Specification Sheet	Contractor/ EE	Prior to commencement of works and each time new equipment/ vehicle is used at the site. Visual inspection on regular basis
	Ensure that vehicle engines and equipment on site are not left running unnecessarily.	Engines switched off	Contractor/ EE	Site inspection

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
B. Protectio	n of the Environment			
	Best practice to ensure minimisation of dust emissions during dry and windy conditions (e.g. proper stockpiling, watering etc.).	Watering conducted, no dust emissions are observed, no workers' grievances	Contractor/ EE / IP	Regular site inspection Review of grievance records
	Exact project-related energy use to be determined during project inception phase and where feasible, 'extra' energy use to be compensated through installation of solar PV	Recording of energy use	Contractor/ EE	Regular monitoring and review of energy use
B2. Noise and vibration	Avoid operations and vehicle movements at night.	No work conducted between 10 pm and 7 am No grievances received	Contractor/ EE	Random site inspection Review of grievance records Review of accident/incident records
	Set traffic speed limits.	Speed signs installed Accident/incident reports	Contractor/ EE	Random site inspection Review of grievance records Review of accident/incident records
	Position equipment as far as possible from sensitive areas (neighbouring communities)	Distances between equipment and receptors are kept	Contractor/ EE	Once prior to commencement of works  Review of grievance records
B3. Wastewater management	Ensure access to toilet facilities or portable toilet facilities that will be serviced on a weekly basis	Visual inspection of condition of facilities	Contractor/ EE	Random site inspection
	Control surface water and where appropriate incorporate storm water management into project designs	Visual inspection, design review	Contractor/ EE	Regular site inspection Final project design
B4. Pollution prevention	Ensure all works carried out minimise pollution risk (e.g. liquid effluents, air emissions, noise and vibration management, vehicle and equipment maintenance and selection, fuel, oil and chemical storage and handling) including the whole duration of the Project.	Ensure that potential pollutants are not stored and handled within 50 m of sensitive receptors (particularly watercourses).	Contractor/ EE	Regular site inspection Review of grievance records
B5. Effluents	Ensure appropriate containment and storage of construction wastewater, including sanitary water. No untreated effluent is discharged.	No untreated wastewater discharge	Contractor/ EE	Regular site inspection Review of grievance records

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
B. Protection	on of the Environment			
B6. Waste Management	Identify waste management facilities and ensure disposal through treatment/removal/recycling of each of the waste types.	Waste management procedure Waste transfer notes	Contractor/ EE	Inspect waste management facilities Review of waste transfer records
	Ensure that all wastes produced are properly collected, segregated, stored, transported and treated	Waste collection areas existent, waste inventories Waste transfer notes	Contractor/ EE	Random site inspection, Review of waste inventories Review of waste transfer records
	Minimise the waste production to the extent possible.	Records of waste production are kept Waste Management Plan Training performed and recorded	Contractor/ EE	Monitor (e.g. monthly) the amount of waste produced Review of training records
	Document all waste related operations (type of wastes, quantities produced etc.).	Storage, transport and treatment of waste is documented Waste transfer notes Waste inventories	Contractor/ EE	Review of waste transfer records Review of waste inventories
	Appropriate and safe storage of fuels, construction materials, wastes and any materials that can cause spills (e.g. batteries from energy generators).	Safe storage of materials  Spill prevention and response procedure  Spill response and remediation equipment in place.	Contractor/ EE	Random site inspection

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
C. Worker H	lealth and Safety			
C1. Occupational Health and Safety Plan	Develop an Occupational Health and Safety Plan	Occupational H&S Plan in place	Contractor/ Safeguard Consultant Team (for review)	Review of Occupational H&S Plan
C2. Incident reporting	Ensure all H&S related incidents (e.g. observations, accidents) on site are recorded and followed up properly.	Reporting protocol for Major Incidents	Contractor/ EE	Check incident/accident records

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
C. Worker H	lealth and Safety			
C3. COVID- 19	Ensure workplaces are clean and hygienic including being wiped with disinfectant regularly; the availability of hand sanitising opportunities (dispensers and/or individual bottles); social distancing where possible; signange on COVID-19 protocols; selfisolation of a worker with symptoms accompanied by immediate testing of workforce. Where N95 masks are not available, ordinary surgical face masks will be provided.	Visual inspection on a regular basis	Contractor/ EE	Regular monitoring
C4. Personal protective equipment	Ensure the provision of Personal Protective Equipment (PPE) for workers (hardhats, masks, safety glasses, safety boots etc. depending on project type).	PPE used by everyone on-site	Contractor/Site Manager	Random site inspection
C5. UXO/ Damaged structure clearance	Ensure UXO clearance/damaged structure clearance obtained prior to start of works.	Documentation of clearance (Commencement of Works Letter)	Contractor/ EE	Review documentation
C6. First-aid	Provide one trained first aiders per 50 employees and adequate amount of first aid kits on site.	Suitable first aid kits on site  Ensure the presence of first aid helpers in all shifts  First aid certificates	Contractor/ EE	Regular monitoring of first aid kits Review of first aider certificates Review of number of first aiders required by local legislation
C7. Access to health care	Ensure the workforce has access to primary healthcare on site, providing prescriptions and vaccinations where necessary/applicable	Healthcare available on site	Contractor/ EE	Random site inspection Review of grievance records Review of medical records (in case not confidential)
	In case more than 35 workers are present on site, ensure that a hospital, medical clinic or a health centre can be reached within a period of 45 minutes.	Medical centres in the proximity of the site.	Contractor/ EE	Medical centres in the proximity of the site identified once prior the commencement of works

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
D. Commun	ity Health and Safety			
D1. Contractor- Community Interactions and Security	Engage/ communicate/ inform communities. Ensure consultations with the local authorities and communities regarding the construction.	Minutes of Meetings Grievance Mechanism	Contractor/ EE	Review of grievance register  Minutes of consultation meetings
	Initiate an efficient Grievance Mechanism to allow potentially affected individuals to raise their concerns.	Grievance Mechanism in place, grievances recorded	Contractor/ EE	Review of grievance register
	Establish a Code of Conduct taking into consideration legislation, safety rules, driving safety rules, substance abuse, environmental sensitivity, communicable diseases, gender issues (sexual harassment), respect for local beliefs and customs, community interactions etc.	Code of Conduct in place and rules shared with personnel	Contractor/ EE	Review of Code of Conduct induction records Review of reported punishable or misconduct behaviour Review of grievance records
D2. Traffic and transportation management	Use local traffic signage and collaborate with the responsible local authorities and communities.  Use flagmen where appropriate and install clear and visible signage.	Warning signs	Contractor/ EE	Inspection of traffic routes, Review of grievance register
	Implement speed limits for all project vehicles.  In the case of road closures, crossing for pedestrians will be provided.	Local access plan	Contractor/ EE	Review of local access plan Random site inspection Review of grievance records
	All vehicles used to transport workers to site must meet national requirements, demonstrate that their condition has been checked and approved prior to use.  All drivers shall conduct daily inspections before operating a vehicle.	Technical Specification Sheet	Contractor/ EE	Prior to commencement of works and each time new equipment/ vehicle is used at the site.  Visual inspection on regular basis
D3. Vector Borne and Communicabl e Diseases	Ensure the provision of adequate space, supply of water, adequate sewage and garbage disposal system, appropriate protection against heat, cold, damp, fire and disease-carrying animals and insects, adequate sanitary and washing facilities, adequate lighting, and basic medical services, in accordance with all applicable health and safety regulations and norms.	Vector Borne and Communicable Diseases Procedure Appropriate conditions for workers on site Irrigation plans and procedures	Contractor/ EE	Regular inspection Review of grievance records

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibilit y	Monitoring Procedure
D. Commun	ity Health and Safety			
D4. Emergency scenarios	Ensure immediate cleaning of any spills and remediation of contaminated areas after construction.	Emergency Preparedness and Response	Contractor/ EE	Random site inspection after spill events
prevention		Procedure Workers trained.		One-time inspection after construction
		Emergency Response Team (ERT) is in place		Review of training records
				Review of ERT
D5. Security	Ensure security and human rights in	Security and Human	Contractor/	Regular inspection
and Human Rights	alignment with UNDSS SOP, IFC PS4 and the Voluntary Principles of Human Rights	Rights Management Procedure	EE/UNH	Review of grievance records
D6. Damage to people and	Ensure that site areas are provided with appropriate security, fencing, signage and	H&S planning of construction site	Contractor/ EE	Inspection prior to the activities.
property	ty lighting. Use hazard notices/signs/barriers to protect children and other vulnerable people from harm and prevent access to non-		Random site inspection	
	workers.			Review of grievance register
D7. Involuntary resettlement	Ensure no physical displacement. Include standard clause in MoU / all contracts: Stating no physical displacement will take place due to project activities (unless project beneficiaries request this)	Contracts Resettlement Action Plan (if necessary)	Contractor/ EE	Review of Contracts
	Ensure no economic displacement. Include standard clause in MoU / all contracts: Stating no economic displacement (even informal) will be take place due to project activities (unless project beneficiaries request this)	Contracts Livelihood Restoration Plan (if necessary)	Contractor/ EE	Review of Contracts
D8. Vulnerable Groups	Ensure all vulnerable groups are consulted during inception phase and continually throughout project cycle to verify and further identify all specific needs, limitations and constraints.	Meeting Minutes Grievance Mechanism in place, grievances recorded	Contractor/ EE	Review of grievance register Minutes of consultation meetings and consultation reports

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibility	Monitoring Procedure
E. Labour				
E1. Worker Rights	Ensure minimum legal labour standards as per ILO regulations (child/forced labour, sexual assault, no discrimination, equal opportunities, working hours, minimum wages) are met.	Grievance Mechanism Records	Contractor	Review of Inspection reports (also from labour authorities), Review of grievance records
	Ensure that all direct and indirect workers have access to and are aware about the Workers Grievance Mechanism were they can raise workplace relevant complaints anonymously.	Workers Grievance Mechanism in place and grievances recorded	Contractor	Review of workers grievance register
	Ensure all workers have the same rights and are treated equally.	Non-discrimination policy in place	Contractor	Random site inspection Review of grievance register
E2. Local employment and procurement	Ensure local communities are preferred for the supply of goods and services to the Project and Project personnel, where appropriate.	Local Employment and Procurement Records	Contractor	Review procurement and employment records Review of grievance register
E3. Facilities	Ensure provision of OR facilitate access to necessary worker facilities which include but are not limited to: toilets, rest areas, smoking areas, potable drinking water to WHO standards	Appropriate H&S and sanitary facilities provided at site	Contractor	Regular inspection Review of grievance records
E4. Fossils/ Archaeologic al Chance Finds	Establish specific procedures to manage the protection of archaeological and historical sites, chance finds and fossils. Ensure all finds of cultural heritage (e.g. graves, old ceramic, old building fragments) are reported immediately to the relevant authority and avoid excavation in the ultimate neighbourhood of a chance find, fence the chance find and await instructions from the competent authority.	Notification records to relevant authority Training records, Records about chance finds	Contractor/ EE	Site inspection

Item	Mitigation, Management and Enhancement Measures	Means of Verification	Responsibility	Monitoring Procedure
F. Supply	Chain – Suppliers and Disposal			
F1. Supply Chain Verification	Verify that operations of these facilities meet Lybian national standards and are permitted.	Visual inspection of facility operations and review of permits	EE/ Safeguard Consultant Team	Verification at Project commencement
	Verify if facilities require expansion for Project works.	Visual inspection on a quarterly basis	EE/ Safeguard Consultant Team	Regular quarterly monitoring
F2. Supply Chain Monitoring	Monitor the operations of these facilities for risks related to:  1. Controversial linkages with sanctioned entities;  2. Exclusion list (including child labour and trafficking of arms along supply routes); and  3. Security (number of checkpoints along supply routes)	Verification of receipts of material sources     Visual inspection of facility operations and supply routes     Visual inspection of supply routes	EE/ Safeguard Consultant Team	Regular quarterly monitoring

# 179. Risks monitoring system / indicators

The environmental, social and climate risks management approach includes monitoring of potential risks and implementation of risks mitigation measures. This monitoring program commensurate with project activities and will report on the monitoring results to the Fund in the mid-term, annual, and terminal performance reports. Monitoring will be done to ensure that actions are taken in a timely manner and to determine if actions are appropriately mitigating the risk / impact or if they need to be modified in order to achieve the intended outcome. Annual reporting will include information about the status of implementation of this ESCMP, including those measures required to avoid, minimize, or mitigate environmental and social risks. The reports shall also include, if necessary, a description of any corrective actions that are deemed necessary.

180. IFAD will be responsibility for environmental and social risks management, including monitoring of the implementation of the Project ESCMP. An AF and IFAD policies and reporting compliance expert will be part of the team. A Safeguarding system compliance expert will also be part of the team. Monitoring staff part of the Supervision Unit will require having expertise in social risk management and be familiar with the AF safeguarding system. Under component 1, ESIA a specialist company will be hired verify the developed ESMF/Ps at inception phase. These will include detailed guidelines for executing entities, any other contractors and the government partners to comply to the AF ESP and GP, including roles, responsibilities and monitoring. Gender specific indicators and targets have been developed as shown in the results framework. Specific budgets for risks monitoring are covered by M&E staff time and safeguarding/gender under the execution fees.

Table 45 monitoring arrangements for general risks management

Action	Indicator and method	Responsibility and frequency
Monitoring of capacity execution entities to comply	<ul> <li>Guidelines and action plans shared</li> <li>Monitoring reports comply to requirements</li> </ul>	IFAD within half a year from inception when reports are required
Implementation of grievance mechanism	<ul> <li>Grievance mechanism information is at target locations (buildings, etc.)</li> <li>Grievance mechanism information is shown on IFAD project website</li> </ul>	IFAD in coordination with execution entities Within half a year from inception
Monitoring of measures to avoid or mitigate risks / impacts per output	- See table above	IFAD in coordination with execution entities When reports are required

### 181. Grievance Redress mechanism

- 182. IFAD-supported projects and programmes are designed in a participatory process thus taking into account the concerns of all stakeholders. IFAD works to ensure that all IFAD investments are implemented in accordance with the Fund's policies, standards and safeguards. IFAD considers it equally important that parties adversely or potentially adversely affected by IFAD-supported projects and programmes should be able to bring issues to the Fund's attention.
- 183. IFAD's Grievance Redress Mechanism (GRM) can be accessed when necessary to manage project-related grievances that cannot be resolved by the project's Executing Entity. The purpose of the GRM is to provide a complaints procedure for alleged non-compliance with AF's social and environmental policies and mandatory aspects of IFAD's Social, Environmental and Climate Assessment Procedures (SECAP). IFAD's Complaints Procedure aims to serve as an accountability mechanism with a clear entry point and transparent process for people and communities to raise concerns with IFAD-supported projects and to provide effective sustainable solutions. Its mandate is to: i) facilitate the resolution of complaints from people who may be affected by projects or subprojects in a manner that is fair, objective and constructive; ii) enhance the environmental and social outcomes of projects; and iii) foster public accountability and learning to enhance the environmental and social performance of IFAD and reduce the risk of harm to people and the environment. The Procedure is organized in two complementary functions:
  - <u>Problem solving function</u>: to help resolve issues raised about the environmental and/or social impacts of project through a neutral, collaborative, problem-solving approach and contribute to improved social and environmental outcomes of the project.

• <u>Impartial review function</u>: to carry out reviews of IFAD's compliance with its SECAP and other related policies, assess harm done, and recommend remedial actions where appropriate.

# **Project-level GRM**

- 184. The project team will establish communication channels at field level to file complaints. Contact information (including contact postal code, phone number and/or email) and information on the process to file a complaint will be disclosed in all meetings, workshops and other related events throughout the life of the project. The project will include in the engagement activities information on the GRM and will continuously build on consultations to determine the most suitable way for beneficiaries and stakeholders to communicate their concerns and ideas.
- 185. The project-level GRM and guidelines will be developed for the project taking into account UNOPS GRM guidelines and IFAD's corporate Complaints Procedure to receive and facilitate resolution of concerns and complaints with respect to alleged non-compliance of its environmental and social policies and the mandatory aspects of its SECAP. The project team will also be responsible for documenting and reporting to IFAD and AF as part of the safeguards performance monitoring on any grievances received and how they were addressed.
- 186. Complaints can be raised directly to the UNOPS field representative at the district level at the concerned project area and the field team should help the complainant fill the complaint ensure the following information is included:
  - Name and contact details of the person(s) (and/or their representative) or community affected by the project;
  - Clear statement of the project's adverse impact(s). This includes direct and material harm which can be actual present harm, or harm that is expected in the future;
  - Whether the complainants wish to keep their identity confidential.

### Level 1

187. Submitted complaints will be sent to the Project Coordinator at UNOPS and M&E officer to assess whether the complaint is eligible. Project Coordinator will inform and involve the Safeguards personnel as required. Eligible complaints will be addressed by the implementing entity (see eligibility criteria below). The Project Coordinator and the relevant Safeguards personnel, with support from the M&E Officer will be responsible for recording the grievance and how it has been addressed if a resolution was agreed.

### Level 2

188. If the grievance is not resolved at the field level, it should be escalated to the UNOPS. Received complaints will be registered, investigated and solved by the UNOPS. The Project Steering Committee should be made aware of the complaint and the measures being taken to address it.

Table 46 Communication Channels for the GRM

Communication Channel	Description
Engagement Activities	<ul> <li>Grievances can be communicated during engagement activities verbally and/or written and submitted in to a comment box</li> </ul>
Verbal	Grievances can be communicated directly to project focal points
Phone	<ul> <li>Phone Number to be provided in relevant ESCMP</li> <li>Phone Number to be provided on billboard at project site location</li> </ul>

Communication Channel	Description
	Calls will be received from: 9AM - 5PM
	Phone Number to be provided in relevant ESCMP
WhatsApp	Phone Number to be provided on billboard at project site location
MilatoApp	Grievances can be communicated through WhatsApp instant messaging
	system with audio and video support if required
Email	Email to be provided in relevant ESCMP
Linan	Written grievances can be communicated through email
Comment Box	A comment box will be available at all engagement activities and at
Comment Box	Management Team office for written grievances
Informal channels	Grievances can be also received by verified community leaders if needed

189. The UNOPS team will be trained on the GRM and these communication channels will be disseminated during the inception workshop. During capacity building and community activities, beneficiaries and stakeholders will be made aware of these channels to be able to file their complaints as needed.

### Level 3

190. If the complaint has not been solved in level 2, the complaint must be submitted to IFAD by downloading the complaint form

(https://www.ifad.org/documents/38711624/40169860/IFAD+Complaints+Submission+Form+Final+Draft+%28Downloadable%29.docx/52c75cad-439f-4e4a-8a70-45056ebde826) and sending an email to SECAPcomplaints@ifad.org or a mail to:

IFAD

SECAP Complaints (PMD)

Via Paolo di Dono 44

00142 Rome, Italy

- 191. The full complaint procedure at IFAD is stipulated in the sections below.
- 192. Complaints can be submitted in any language by letter, e-mail and/or web form (available on IFAD's website). Any communication thereafter will be in English with a translation into Arabic. Processing of complaints not submitted in English may require additional time due to the need for translation. IFAD will timely notify the complainant of any delays caused by translation.
- 193. When a complaint is received, IFAD will first assess its admissibility. For complaints to be considered, the following eligibility criteria must be met:
  - The complainant alleges that IFAD has failed to implement its social and environmental policies and/or the mandatory provisions set out in SECAP;
  - The complainant alleges that they have been or will be adversely affected or harmed (direct or material) as a result of such non-compliance;
  - The complainant must be submitted by a group of at least two people (an organization, association, society, or other group of individuals) who are both nationals of the country concerned and/or residing in a the project's target area;
- 194. The following complaints will not be considered eligible:
  - Matters not related to IFAD's actions or omissions in designing or implementing the project;

- Matters already considered by IFAD's Complaints Procedure, unless complainants have new evidence
  previously not available to them and unless the subsequent complaint can be readily consolidated with the
  earlier complaint;
- Submissions from foreign entities or anonymous;
- Matters related to procurement of goods, services and consulting services;
- Accusations of fraudulent or corrupt activities in relation to project implementation these are dealt with
- Allegations of fraud and corruption in IFAD-supported projects these are dealt with by IFAD's Office of Audit and Oversight.
- Matters that are frivolous, malicious, trivial, or generated to gain competitive advantage.
- 195. Allegations of sexual harassment, exploitation and abuse are dealt with through IFAD's existing policy to preventing and responding to sexual harassment, sexual exploitation and abuse, and are forwarded to IFAD's Ethics Office.

### Retaliation

- 196. The key principle underlying IFAD's Complaint Mechanism is that every individual or group has the right to voice their criticism or file a complaint with relation to an IFAD-supported project without threats to their safety of fear of retaliation. IFAD expects its partners not to prevent or harm stakeholders who may (or have) criticise(d) an IFAD-supported project or file(d) a complaint.
- 197. According to IFAD's Whistle Blower Protection Procedures, any retaliatory behaviour by IFAD personnel against an external party engaged in any dealings with IFAD because such person has reported unsatisfactory conduct and/or misconduct will be considered unsatisfactory conduct or misconduct.
- 198. During the project design and implementation process IFAD will inform stakeholders of its SECAP as well as of the Complaints Procedures in force. To this end, IFAD will ensure that stakeholders are aware that they can contact IFAD directly and file a complaint if they believe that they are, or will be, adversely affected by the project and that UNOPS are not responsive to their concerns.
- 199. Hence, complainants can go directly to level 3 and send his/her complaint to IFAD if they fear retaliation from the executing entities.

## **Receipt and Registration of Complaint**

- 200. After receipt of a complaint, the SECAP Redress Service (SRS in IFAD will ensure that an acknowledgement of receipt is sent to the complainant(s) within five business days. Complaints submitted in another language than English, may require additional time for translation. The acknowledgement informs the complainant(s) the date by which IFAD will determine the eligibility of the complaint, and whether additional information is required.
- 201. Upon receipt, the SRS will verify whether the complaint is known and/or already being processed by the project-level grievance redress mechanism. If not, the SRS decides within 21 business days after the acknowledgement of receipt on the eligibility of the complaint, based on the criteria defined above. During this phase, further information may be requested from the complainant and/or the regional division to clarify the complaint. In case of partial or total ineligibility, the SRS will, if possible, advise the complainant on which alternative measures could be taken and/or to which institution the concerns may be addressed. In the case of full eligibility, the complainant will receive a notice with information on the next steps, and the complaint will be registered.
- 202. The SRS will also notify the following internal stakeholders regarding receipt of the complaint: the Country Director and other relevant staff including the Regional Director, Director Environmental, Climate, Gender and Social Inclusion Division (ECG), Director Sustainable Production, Markets and Institutions Division (PMI), Director Operational Policy and Results Division (OPR), Office of the General Council (LEG), Communications Division (COM), Office of Enterprise risk Management (RMO) and others as appropriate.

### **Assessment of Complaint**

203. Once a complaint is deemed eligible and registered as such, the SRS will initiate the assessment process. During this phase, the SRS will set up a review group consisting of the Country Director, ECG representative, PMI representative and a LEG representative to carry out an assessment of the complaint to:

- Develop a thorough understanding of the issues and concerns raised:
- Engage with the Project Delivery Team (PDT);
- Engage with the complainant, the Borrower and the project team in Libya;
- Identify local communities and additional stakeholders as relevant;
- Explain the different functions of the Procedure, their scope and possible outcomes to the parties involved;
   and
- Determine whether the parties seek to initiate a problem solving process or impartial review.
- 204. The assessment process is used to give the complainant(s), the Borrower, and the PDT an opportunity to ask questions and consult with the SRS to facilitate informed decision making and understanding of the Procedure. Typical activities during this phase include:
  - Review of project related documents;
  - Meetings with the complainant(s), Borrower, UNOPS staff, and if relevant local government officials, representatives of civil society and other stakeholders;
  - Visit to the project site(s); and
  - Public meetings in the project area as necessary.
- 205. When planning a visit, the SRS will inform all parties upfront of its planning. At the end of this phase, the Complainant(s) and the Borrower/Recipient/Partner decide whether they would like to proceed with the problem solving process or an Impartial compliance review. If both parties agree to the problem solving process, this will be started by the SRS. If there is no agreement, the complaint will be forwarded to the Impartial Review Function.
- 206. The assessment should be finalized within 120 business days after the registration of the complaint with an assessment report prepared by the SRS. The report should include:
  - Summary of the information gathered and parties' perspectives of the issues raised;
  - Decision of the parties to pursue a problem solving process or compliance review;
  - Action plan with timeframe for implementation, including appointment of mediator as relevant;
  - Copy of the complaint, anonymized as necessary, as well as any Borrower's response that may be provided.
- 207. The report will be shared with all parties. Any comments should be received within 30 business days before the report is finalized and published (as necessary).

### **Problem Solving**

- 208. If the parties agreed to a problem solving procedure, the SRS will facilitate the process to help resolve issues raised about the environmental and/or social impacts of the project through a neutral, collaborative, problem-solving approach. During the assessment phase, it should have been clarified what problem solving approach will be followed:
  - Facilitation and information sharing: in case the complainant(s) raise(s) questions regarding existing of
    foreseen impacts of a project, the SRS may facilitate the involved parties to obtain the information and
    clarifications resulting in a resolution.
  - Mediation: a neutral third party who acts as a mediator may be appointed to assist the parties involved in voluntarily negotiate a mutually satisfying resolution.
  - Fact-finding mission: the SRS may contract (an) external consultant(s) to conduct a fact-finding mission to examine the issues agreed upon by the parties to reach a common understanding and possible solution.
- 209. Engagement in the problem solving process is in any case a voluntary decision and requires agreement between the complainant and the Borrower. Each party reserves the right to exit at any point in the process.
- 210. Any agreement reached following the problem solving process should be specific in terms of objective, nature and requirements, and documented in written form (to be prepared by the SRS or involved mediator or consultant). The timeline for the process is to be defined in the assessment report, but in any case the process should not take longer than 2 years. In pursuit of a solution, IFAD will not knowingly support agreements that would coerce one or more parties, be contrary to IFAD policies, or violate the domestic or international laws applicable.

- 211. Where an agreement is reached, the SRS will monitor the implementation of the agreement and share interim updates with the parties, IFAD management and on the website (as applicable).
- 212. Where there is no or only partial agreement reached, the SRS will verify whether the complainant(s) would like to transfer the case to the Impartial Review Function.

# Impartial Review Function

- 213. In the case no or partial agreement is reached during the problem solving process, or if decided during the assessment phase, the SRS will forward the case upon agreement of the Complainant(s) to the Impartial Review Function, based in the Office of the President and Vice-President (OPV).
- 214. Out of a roster of independent experts, a minimum of two will be contracted to review the complaint and lead the impartial review. The role of these independent experts is to carry out reviews of compliance with IFAD's SECAP and other relevant policies, assess related harm and recommend remedial actions where appropriate. The impartial review will consider issues raised in the complaint or identified during the assessment process, but not those already resolved during the problem solving process.
- 215. The Impartial Review should be finalized within a reasonable timeframe, no later than 2 years. The number of days to finish the review will depend on the complexity of the case (i.e. need for field visit, number of stakeholders involved), as well as the findings and conclusions of the review.
- 216. After completion, the independent experts will prepare a final report of their findings and in the case of non-compliance, specific actions to undertake. The report may also contain recommendations for IFAD on how to improve existing policies and/or procedures. After receiving internal comments, the (revised) draft report will be sent to the complainant(s) and the Borrower for fact checking. Comments should be received within 15 business days. The final report will then be prepared for disclosure to IFAD management and the Executive Board within 10 business days. IFAD management will provide a management response to the final report within 10 business days. The final report including the management response will be send to the complainant(s) and a summary will be published at IFAD's website.
- 217. In cases where non-compliances are identified, the SECAP Redress Service will monitor the situation until actions are taken to assure non-compliance(s) are addressed.

# **Reporting and Information Disclosure**

- 218. All information relevant to the case, including updates on the status and progress of the complaint process, to the extent possible and consistent with IFAD's disclosure policy, is shared with the complainant(s). In addition, IFAD will publish a case registry on its website. The registry will contain the following information in relation to eligible complaints:
  - A brief summary of the issues raised
  - Date of receipt
  - Date of registration
  - Project details (name, number, E&S category & climate classification, implementing partner, country, status)
  - Information on the status
  - Link to available report(s)
  - The case registry will also contain information in relation to ineligible complaints, namely:
    - Key issues raised
    - Date of receipt
    - o Project details as above
    - Basis for ineligibility
- 219. Once a case is closed, IFAD will prepare a summary of the complaint, including follow-up actions and recommendations, taking into account privacy and confidentiality regulations and IFAD's disclosure policy, to be published on its public website. The summary will also be included in IFAD's Annual Report which is published on its website.

# Resolution

220. Upon acceptance of a solution by the complainer, a document with the agreement should be signed.

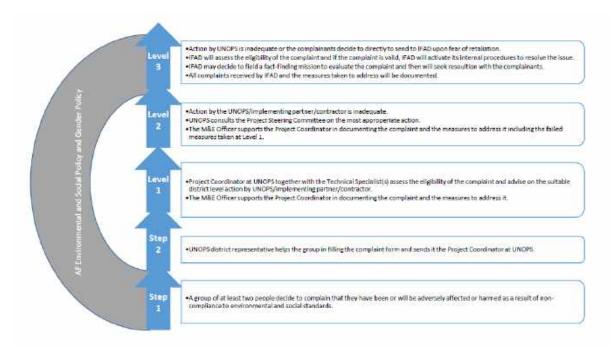


Figure 20 The Project's Grievance and Redress Mechanism (GRM)

Table 47 grievance form

	Grievance Form					
Reference No:						
Please enter your con	tact	information and grievance. This information will be dealt with confidential.				
		remain anonymous please enter your comment/grievance in the box below without indicating your comments will still be considered.				
Full Name						
Anonymous submission		I want to remain anonymous				
Please mark how you wish to be contacted (mail, telephone, e-mail).		By Mail (Please provide mailing address):				
		By Telephone (Please provide Telephone number):  By E-mail (please provide E-Mail address):				
Preferred Language for communication		Arabic English Other, please specify:				
Description of Incider	nt or	Grievance: What happened? Where did it happen? Who did it happen to? What is the result of the problem?				

Date of Incident/Grievance:	☐ One time incident/grievance (date)
	☐ Happened more than once (how many times?)
	☐ On-going (currently experiencing problem)
What would you like to see happer	n to resolve the problem?

# 2. GENDER AND YOUTH APPROACH AND BASELINE

#### 221. **Purpose**

The purpose of this specific 'gender annex' is to demonstrate (in an overview) how this project will comply to the AF GP. A gender approach and data baseline has been established, which is necessary at the project start against which implementation progress and results can be measured. In line with IFADs SECAP, the approach includes the identification and of promotion of economic, social and environmental benefits and opportunities for women and youth for each project activity (which can be seen as an additional safeguard area). During project preparation a 'gender assessment' has been conducted to identify potential project gender equality and women's and youth empowerment issues, but also opportunities. The outcomes are summarized below, as well as arrangements that will be taken during project implementation to comply to the AF GP, including to show how the project contributes to improving gender equality, the empowerment of women and youth and the project interventions' suitability to meet the adaptation needs of targeted women and men and youth.

#### 222. Methodology

During the project preparation phase, potential gender equality and women's and youth empowerment challenges and opportunities have been identified through initial data analysis / desk research, surveys and focus group discussions with women, youth and other groups. Through these methods, specific women and youth needs and perceptions were identified, as well as potential gender-related risks and impacts, including possible concerns regarding proposed project activities.

#### 223. Specific considerations and phases

## 1. Determinants for gender-responsive stakeholder consultations

**Table 48** Stakeholders consulted to develop gender approach

Type of stakeholder	Specific stakeholder
UN agencies and NGO's	- UN Women - Other
Community level	- Community consultations and focus group discussions with women and youth

<sup>\*</sup>See also part II.I

### 2. Initial Gender Assessment

- 224. Negative gender stereotypes and social norms impact all aspects of women's lives in Libya, inhibiting their freedom of movement, economic participation, community-level engagement and access to formal justice systems<sup>42</sup>. In 2019 the Gender Development Index (GDI) for Libya was 0.98. The index score in the country increased annually from 2015 onwards, indicating worsening gender equality in the fields of education, health, and wealth. The GDI measures the levels of gender parity within societies. It ranges from zero (perfect gender equality) to around one (no gender parity). 43 Libya also has a Gender Inequality Index (GII) value of 0.252 ranking it 56 out of 162 countries in the 2019 index<sup>44</sup>.
- Libya acceded to the international Convention on the Elimination of All Forms of Discrimination against 225. Women (CEDAW) in 1989 with two reservations related to Islamic Shariah law. However, most Libyan laws do not comply with CEDAW's provisions, and Libya lacks a national action plan for CEDAW implementation.

<sup>&</sup>lt;sup>42</sup> UN Women (2020). The Economic and Social Impact of Conflict on Libyan Women.

<sup>&</sup>lt;sup>44</sup> UNDP (2020). Briefing Note for Countries on the 2020 Human Development Report: Libya. Human Development Report.

Labour laws limit women's working hours and the jobs women may preform, purportedly due to women's "nature". Some laws are discriminatory and do not serve women's interests, while other laws lack effective mechanisms to enforce the gender equality they supposedly intend to protect<sup>45</sup>.

- 226. Although the Libyan constitutional draft was abandoned, the final draft constitution eliminated gender stereotypical language, and Article 7 guaranteed equality before the law and non-discrimination. Article 49, titled Supporting Women's Rights, ensured protection and promotion of women's status and opportunities and prohibited discrimination against women. Article 184 provided for a quota of 25% of the total seats for women in any national or local election and clearly stated that women also may run for general seats. The efforts of women's rights organizations and advocates played a vital role in amendments to the final draft constitution to grant more rights to Libyan women. However, two main concerns were not addressed in the final draft. First, the right of Libyan women to confer citizenship to their children was not protected. Second, the final draft constitution ignored demands to establish a Women's National Council under the authority of the legislature instead of or in addition to Women's Empowerment Units in Ministries and other executive departments<sup>46</sup>.
- 227. On the policy level, few women are in government leadership positions and they are mainly in traditional sectors related to social affairs or women's affairs. Very few women have any real influence in policy-making processes, including the weak Women's Support and Empowerment Unit established by the Presidency Council in 2018. Women's empowerment units in ministries are also marginalized and ineffective. These units have an essential role, but need capacity building and other support to have any impact<sup>47</sup>.
- 228. Only 16% of parliamentary seats are held by women and female participation in the labour market is 33.9% compared to 65.3% for men<sup>48</sup>. Yet, since the crisis there has been an increase of female employment in the country and 51% indicate that the need for additional resources is the main reason for employment. The vast majority of women are employed by the public sector with only 2.5% of women being employed by the private sector. In addition, Women's freedom of movement is significantly lower than men's and perceptions of women's civic engagement continues to be shaped by social norms and gender stereotypes<sup>49</sup>. On the other hand, 70.5% of adult women have reached at least a secondary level of education compared to 45.1% of their male counterparts. In general, females have higher mean years of schooling than men<sup>50</sup>.
- 229. However, the conflict situation has left women and girls vulnerable to sexual exploitation, sexual harassment, abuse and rape especially among migrants and refugees. Currently, around 153,000 people are at risk of Gender-Based Violence (GBV) including 47,000 displaced, 49,000 returnees, 15,000 non-displaced Libyans, 27,000 migrants and 14,000 refugees. Of the total people at risk of GBV, 51% are women and 48% are girls. Most people facing GBV risks and in need of assistance are in Tripoli, representing 21 per cent of all those in need<sup>51</sup>. The conflict also has increased fear in families about the safety of their female family members, and the perceived need for male protection of young women has increased. This change has promoted practices like early marriage, which reportedly has become more common in rural areas and among internally displaced communities as a means to protect young women from rape or kidnapping by armed groups<sup>52</sup>.
- 230. At the household level, women are expected to do all domestic work, and men's contributions in the home are not considered their duty, but as help they give to the women. Law No. 10 of 1984 Article 18 regulates inequality in the household by enumerating a wife's obligations to her husband, which include taking care of his comfort, managing the marital house, and raising children. COVID-19 has exacerbated or re-entrenched women's traditional roles in the household. Women also bear the burden of maintaining household sanitation

<sup>&</sup>lt;sup>45</sup> USAID (2020), Libya Gender Analysis: Identification of Constraints, Opportunities and Best Practices in UASID/Libya.

<sup>46</sup> Ibid.

<sup>&</sup>lt;sup>47</sup> Ibid.

<sup>&</sup>lt;sup>48</sup> UNDP (2020). Briefing Note for Countries on the 2020 Human Development Report: Libya. *Human Development Report*.

<sup>&</sup>lt;sup>49</sup> UN Women (2020). The Economic and Social Impact of Conflict on Libyan Women.

<sup>&</sup>lt;sup>50</sup> UNDP (2020). Briefing Note for Countries on the 2020 Human Development Report: Libya. *Human Development Report*.

<sup>&</sup>lt;sup>51</sup> OCHA (2020). Humanitarian Needs Overview 2021: Libya.

<sup>&</sup>lt;sup>52</sup> USAID (2020). Libya Gender Analysis: Identification of Constraints, Opportunities and Best Practices in UASID/Libya.

and hygiene and caring for sick family members during the pandemic. During the COVID-19 lockdown, women's responsibilities of caring for and teaching children have been amplified because children cannot attend school<sup>53</sup>.

- 231. In the south, household financial hardship has increased women's economic participation and elevated their important role within their households, and making women, to some extent, accepted in the public sphere. The same has been noticed in the workplace with more acceptance of women to work in the health sector as nurses and doctors despite having them work night shifts. However, it is important to mention that women work mostly in branches of medicine where dealing with men will be limited, like pediatrics and gynecology<sup>54</sup>.
- 232. The centralized system in Libya that distributes resources and economic activities more to the major cities creates difficulty to get proper job opportunities for Libyans in rural areas, especially for women who are constrained in their movements by the challenging security situation and conservative cultural norms. Women who started to work in traditional home-based businesses that can generate income to the household, were unable to expand. They face several constraints to either starting or expanding their businesses. Women entrepreneurs have limited access to available financial resources, such as local venture capital or loans from banks, government schemes, or donor-funded development programs. Access to bank loans, for example, is typically conditioned by ownership of land or property and a guarantor. Most women in Libya, however, do not own or have control over land or property against which they can obtain bank loans. While women and men have the same rights in land and property ownership, men typically retain control over such assets within a family<sup>55</sup>.
- 233. In addition, access to information is an issue for most Libyans, but women suffer more from lack of information about laws, resources, and services relevant to their lives because their lower levels of status and power inhibit them from communicating with governmental institutions. These limitations are especially true for women of limited income and women in rural areas, who have less access to online resources and services. In recent years, Libyan women have started to use existing social media platforms as a way to advocate for their rights, and for women-owned businesses to promote their products and services, such as food catering, interior design, software programming, fashion design, building instruction, and art. Most women in Libya own mobile phones but they have limited access to computers. In some families, women do not have the freedom to surf the internet and they are monitored and censored. Women, in general, have limited digital/online literacy. They primarily use Facebook if they are online at all. However, during the conflict and COVID-19 crisis, women are increasingly using online space, primarily social media platforms and mainly in the northern region where internet connectivity is better, to mitigate some of the social constraints they face<sup>56</sup>.
- 234. In agricultural areas, women work in their immediate family or relatives' family farms, but never in those outside the family. In an assessment by the World Food Program, women were found to benefit more from agricultural projects if safe access and proper training programs were provided to them<sup>57</sup>.
- 235. As most women in Libya work in the informal sector in home-based businesses and, therefore, do not pay taxes or make social security contributions, they are excluded from receiving social security benefits when they reach retirement age, further disadvantaging them from men, who work in much greater numbers in the formal sector<sup>58</sup>.
  - 3. Data baseline overview of disaggregated data (beneficiaries) in target areas.

Table 49 Data baseline - women and youth

Project components	Di	rect	Indirect		
	Women Youth		Women	Youth	

<sup>&</sup>lt;sup>53</sup> Ibid.

<sup>&</sup>lt;sup>54</sup> Ibid.

<sup>55</sup> Ibid.

<sup>&</sup>lt;sup>56</sup> USAID (2020). Libya Gender Analysis: Identification of Constraints, Opportunities and Best Practices in UASID/Libya.

<sup>&</sup>lt;sup>57</sup> Ibid.

<sup>&</sup>lt;sup>58</sup> Ibid.

Participatory prioritization of climate change adaptation options into national, district and community planning for agriculture / livestock development	171	171	2,040,000	2,040,000
Climate resilient investment in concrete activities in the agriculture sector	10,620 1416 female headed households	10,620	402,005	402,005
Climate resilient investment in concrete activities in the livestock sector	6,480 864 female headed households	6,480		
4. Capturing and disseminating relevant knowledge and learning on climate change resilient practices, products and technologies and to replicate these at national, district and community level	81	81	TBD	TBD

### a. Context:

**Table 50** analysis of gender-specific legal and cultural / religious context

Analysis of	Libya has ratified the Convention on the Elimination of All Forms of Discrimination against Women
legal status	(CÉDAW).
of women	

- 4. Differentiated climate change impacts on men and women and their differentiated capacities do adopt to these, gender division of labour and gender-based power structures.
- 236. Climate change has a strong impact on agricultural production systems. Rural communities are in the front lines in the battle to improve food security. At the same time, these communities must also cope with changing climate conditions. Gender is one critical dimension of this diversity. It shapes men's and women's roles and opportunities, and consequently determines their access to the resources and processes needed for dealing with climate change. Accurate climate information and the ability to interpret it allows farmers to plan and make better decisions on how to adapt to climate change. Women usually have lower access to production inputs, resources and information. This what makes women more vulnerable in time of crisis and climate change.

Fable 51 Differentiated climate change impacts on men and women								
Sector / Livelihood relevant to the project	Climate change impact	Gender and youth equality and empowerment issues, incl. specific Vulnerabilities / barriers to adapt	Capacity to adapt and opportunities for promoting a 'women' and 'youth' as agents of change					
Agriculture	Reduction in crop yields     Seawater intrusion     Decline in water availability	<ul> <li>High unemployment rates among youth especially for women;</li> <li>Women working mostly in the informal sector;</li> <li>Women tradionally carry the</li> </ul>	<ul> <li>Participatory approach focusing on women and youth to develop climate vulnerability assessments and climate resilience strategy for the sector</li> <li>Capacity building to focus on women and youth to provide them with access to the knowledge needed fort hem to contribute</li> </ul>					
Livestock	- Decline in water availability for livestock	burden of household work in addition to farm work;	to agriculture, livestock and water sectors - Providing inputs in the form of grants for young and female farmers and pastoralists to increase their incomes and					
Water	<ul> <li>Decrease in precipitation</li> </ul>	- Women have much less access to inputs, knowledge	help them adapt to climate change					

- Seawater intrusion on groundwater	and assets especially land ownership;	Addressing policy issues that     systematically exclude women and youth     through institutional capaity building
	<ul> <li>Exclusion of women and youth voices in planning and decision making leading to their needs in the agriculture sector being overlooked;</li> </ul>	
	- Youth in rural areas being more vulnerable to joining extremist and violent groups	

## 5. Capacity gaps affecting GP compliance

Table 52 Capacity of potential executing entities to carry-out gender responsive activities.

Potential executing entity	Skills and expertise to provide gender mainstreaming inputs	Specific requirements execution entities for compliance	Capacity building needs		
UNOPS	Yes (UN core value)	<ul> <li>Appoint ESP a compliance and gender focal point (present in country office)</li> <li>Capacity to comply to the AF ESP and implementation of the ESCMP guided IFAD</li> <li>Capacity to comply to the AF GP</li> </ul>	<ul> <li>Awareness on requirements</li> <li>Share guidelines for execution entities to comply and to ensure 'opportunities' are identified and exploited</li> </ul>		

# 6. Opportunities for promoting a 'women' and 'youth' as agents of change

237. The project aims to target women (and youth) in community level skill building and trainings and to especially target women-headed households. Opportunities include:

### 238. Gender

- ☐ Engage women in the early stages of planning and in project implementation
- □ Community-level awareness-raising programmes targeting both men and women should be developed and implemented to address restrictive social norms and negative gender stereotypes, including the association of a woman's worth as a person with her honour. Existing community engagement models that challenge patriarchal stereotypes of women should be used as a foundation for engaging women and girls as well as men and boys.

# 239. Youth

- ☐ Help build youth assets by supporting them to set up income-generating activities.
- □ Support the development of locally appropriate platforms for youth that enable them to identify and prioritize their needs, how those needs might be addressed through engagement, and how they can lead initiatives to address needs throughout the process.
- □ Develop a dedicated youth civic engagement activity, as well as working to integrate youth into existing activities.

# 7. Project planning and design.

Table 53 Gender baseline, goals and activities. A detailed action plan will be developed at inception phase

Project	Disaggregated	Key gender	Entry points	Suitable	Additional	Specific	Specific	Budget
outputs	beneficiaries,	goals (to	(to integrate	interventions to	activities	'gender'	'gender'	required
	gender	improve	gender	meet specific	needed to	output	targets	and
	specific issues	equality)	considerations	needs and built	ensure	Indicator		allocated
			/ empower	on women and	gender			

	and needs / baseline	women / youth)	youth skills and knowledge	perspective, incl. potential risk mitigation measures		
1.1.						
1.2.						
2.1. 2.2.						
2.3.						
2.4.						
3.						

# 8. Project implementation

240. IFAD aims to have a gender responsive and adaptable management approach in place which, when needed, allows adjustment based on learning from earlier decisions and interventions and received feedback. This is done through having gender expertise and focal points in place, whom should identify challenges, barriers or restrictions that arise during project/programme implementation, which might hinder the equal participation of men and women in activities. Execution entities will be supported to ensure gender is mainstreamed and to identify any challenges that may arise during project/programme implementation, which might hinder the equal participation of men and women in activities. This requires appointing a gender focal point and having quota targets for women and youth participation in project activities. Gender focal points from the government will be part of the steering committees. The project Grievance mechanism established will be capable to accept grievances and complaints specifically related to gender equality and women's empowerment.

# 9. Performance Monitoring and Evaluation

241. The gender responsive management approach includes gender responsive monitoring and evaluation, which is participatory and where 'gender disaggregated data' will be collected and analysed. Where possible, women and youth will be encouraged to participate in monitoring activities.

### 10. Knowledge Management, Information Sharing and Reporting

242. IFAD aims to have a gender responsive knowledge management approach in place, where specific gender considerations are highlighted through reporting on the project/programme's commitment to gender equality and women's empowerment in all outreach, communication and information sharing efforts.

# 3. UNOPS ALIGNMENT WITH THE AF ESPAND GP

AF ESP Guidance Principles	UNOPS Guiding Values and Principles
Principle 1: Compliance with the Law.	<ul> <li>UNOPS operates in accordance with a strict legislative framework comprised of:         <ul> <li>Internal Directives and Instructions. Directives are organization-wide policies that govern actions within UNOPS and its external relations;</li> <li>UN system Instruments:All of UNOPS's Legistlative Instruments are compliant with the United Nations Instruments promulgated by organs of the United Nations;</li> <li>National law of countries of operations: UNOPS Executive Office Instructions<sup>59</sup> on Health &amp;</li> </ul> </li> </ul>

 $<sup>^{\</sup>rm 59}$  EOI REF. EOI.SSC.2021.01 on Health & Safety and Social & Environmental Management.

Safety and Social & Environmental Management states that "[I]egal and compliance requirements in the social and environmental field in each country shall be identified, recorded and regularly updated".<sup>60</sup>

To ensure compliance with the law, UNOPS regularly reviews and adapts to (i) current national policies, legislation and legislative instruments governing environmental management, health, gender and social welfare, climate change (mitigation and adaptation) and governance with their implementation structures, identified challenges, and recommended appropriate changes for effective implementation; (ii) all relevant international treaties and conventions on the environment, climate change, health, gender, labour and human rights to which the country is a signatory.

# Principle 2: Access and Equity.

UNOPS projects provide fair and equitable access to benefits in a manner that is inclusive and does not impede access to basic health services, clean water and sanitation, energy, education, housing, safe and decent working conditions, and land rights. In applying the "do no harm" doctrine, the projects do not exacerbate existing inequities, particularly with respect to marginalized or vulnerable groups.

Moreover, UNOPS's guidance<sup>61</sup> requires projects to ensure the participation of target groups. The Gender Equality and Social Inclusion (GESI)<sup>62</sup> Mainstreaming in Projects Strategy promotes equal rights and opportunities for people to live full lives, supported by sustainable, resilient, and inclusive infrastructure, and by the efficient and transparent use of public resources in procurement and project management. UNOPS makes sure that stakeholder engagement activities include a representative group of end users. Ensuring inclusive stakeholder engagement provides the legitimacy of a project, is rooted in human rights and is critical to the following activities:

- To accurately identify and understand the needs of end users;
- To ensure that stakeholders are effectively informed;
- To involve stakeholders in the development and decision-making process;
- To receive feedback and evaluate project performance and outputs; and
- To ensure that projects are contributing to outcomes.

## Principle 3: Marginalized and Vulnerable Groups.

UNOPS avoids imposing any disproportionate adverse impacts on marginalized and vulnerable groups when implementing a project. This is reflected in the releasing of the Gender Equality and Social Inclusion (GESI) Mainstreaming Strategy in Projects 2022-2025, to support GESI mainstreaming activities across UNOPS projects. This strategy is anchored in the Universal Declaration of Human Rights<sup>63</sup>, the Beijing Declaration and Platform for Action<sup>64</sup>, and other international agreements, standards and norms that are shaping the 2030 Agenda for Sustainable Development<sup>65</sup>.

A comprehensive approach to GESI mainstreaming takes into consideration an intersectional lens (including gender, age, ethnicity and disability, which often lead to multiple forms of discrimination and often remain invisible and unaddressed) throughout the project lifespan. Intersectionality involves acknowledging that people are often discriminated against and marginalized by multiple factors of oppression.

Based on this, and in order to increase meaningful participation of marginalized and vulnerable groups, UNOPS makes sure that stakeholder engagement activities include a representative group of end users, with a specific focus on the representation of women, marginalized and underrepresented groups. Ensuring inclusive stakeholder engagement provides the legitimacy of a project, is rooted in human rights and is critical to the following activities:

61 UNOPS GENDER EQUALITY AND SOCIAL INCLUSION MAINSTREAMING IN PROJECTS: Strategy 2022 - 2025

63 United Nations, Universal Declaration of Human Rights, United Nations, Paris, 10 December 1948.

<sup>&</sup>lt;sup>60</sup> Ibid. para. 4.1.4.

<sup>62</sup> Ibid.

<sup>&</sup>lt;sup>64</sup> The Fourth World Conference on Women, Beijing Declaration and Platform for Action, Beijing, 15 September 1995; UN Women, Beijing Declaration and Platform for Action: Beijing+5 Political Declaration and Outcome, UN Women, New York, 2014.

<sup>&</sup>lt;sup>65</sup> Resolution adopted by the United Nations General Assembly, 'Transforming our world: the 2030 Agenda for Sustainable Development, A/RES/70/1, 21 October 2015. The 17 Goals include 169 targets and 232 indicators of which 80 indicators have been identified as gender-relevant.

- To accurately identify and understand the needs of end users:
- To ensure that stakeholders are effectively informed:
- To involve stakeholders in the development and decision-making process:
- To receive feedback and evaluate project performance and outputs; and
- To ensure that projects are contributing to outcomes.

These consultations and engagement are vital to identify and address any barriers to participation and to support their role in decision-making.

At the same time, UNOPS recognizes its existing limitations in working with all marginalized and underrepresented groups, and will thus adopt a proportional approach to strengthen efforts for their inclusion in all projects. Therefore, UNOPS will (initially) focus on accelerating work with:

- Women and girls by contributing directly to women's economic empowerment through decent work, employment, access to resources, participation in decision-making, capacity and skills-building;
- People with disabilities by focusing on four areas of the United Nations Disability Inclusion Strategy framework: 1) leadership, strategic planning, and management; 2) inclusiveness to be able to fully encapsulate the principles of 'Nothing About Us without Us'; 3) programming; and 4) organizational culture as defined in the UNOPS Disability Inclusion Action Plan;
- Youth by the participation, promotion, and inclusion of youth in its projects as per the UNOPS Youth Action Plan; and
- Context-sensitive (based on sexual orientation and gender identity) and context-specific (based on race, ethnicity, religion and indigenous status) groups

# Principle 4: Human Rights.

As a UN entity, UNOPS upholds good international practices by supporting the realization of United Nations principles and directives. As such, the inclusion of international human rights is a crosscutting consideration that extends throughout all aspects of UNOPS operations. In fact, UNOPS operates in accordance with a strict legislative framework of Directives and Instructions which govern actions within UNOPS and its external relations. All of UNOPS's Legistlative Instruments are compliant with the United Nations Instruments promulgated by organs of the United Nations, including the Universal Declaration of Human Rights, the Beijing Declaration and Platform for Action, and other international agreements, standards and norms that are shaping the 2030 Agenda for Sustainable Development and seek to realize the human rights of all people. In managing its activities and facilities, UNOPS adopts a people-centred approach, upholding rights, promoting active participation, including disadvantaged groups and individuals and leaving no one behind. 66

### Principle 5: Gender Equality and Women's Empowerment.

UNOPS projects are designed and implemented in such a way that both women and men 1) have equal opportunities to participate; 2) receive comparable social and economic benefits; and 3) do not suffer disproportionate adverse effects during the development process. UNOPS continuously strengthens its ability to ensure diversity and inclusion throughout the project lifespan, including its procurement practices.

This is reflected in the UNOPS Gender Equality and Social Inclusion (GESI), which has been released to support GESI mainstreaming activities across UNOPS projects. This strategy is anchored in the Universal Declaration of Human Rights, the Beijing Declaration and Platform for Action, and other international agreements, standards and norms that are shaping the 2030 Agenda for Sustainable Development and seek to realize the human rights of all people and to achieve gender equality and the empowerment of women and girls. It is aligned with the United Nations Core values of respect for diversity, integrity and professionalism, which underpin and guide the actions and behaviors of all United Nations personnel.

The Gender Equality and Social Inclusion Mainstreaming Strategy in Projects reaffirms UNOPS commitment to gender equality, diversity and inclusion. It mobilizes its efforts to promote equal rights and opportunities for people to live full lives, supported by sustainable, resilient, and inclusive infrastructure, and by the efficient and transparent use of public resources in procurement and project management. This includes identifying the root causes of inequalities and systemic barriers,

<sup>&</sup>lt;sup>66</sup> Executive Office Directive (EOD) REF. EOD.ED.2021.01 on Occupational Health & Safety and Social and Environmental Management, para. 2.2.

with particular focus on determining the positive and negative implications throughout the project lifespan. The GESI is complemented by a project specific Gender Action Plan (GAP), A GAP details activities to address gender-based constraints and opportunities, as well as specific targets, responsible actors, and indicators to measure progress and outcomes. The GAP informs and is integrated into project plans and the project budget for effective gender mainstreaming throughout the project lifespan. The GAP also captures information about the gender mainstreaming activities associated with each project output and identifies the related budget, timeframe, target, personnel responsible and the success indicator. It is vital to project success to ensure that the planned activities to implement the GAP are embedded into the day-to-day operations, including any design specifications or quotas in place (e.g., equal representation of women in community engagement workshops, a certain percentage of women suppliers or workers, etc.) to ensure minimum requirements are met. This extends even to UNOPS procurement activities, where the Gender Responsive Procurement (GRP) will ensure that the procurement process and the selection of goods, services and works have a positive, holistic impact on gender equality and inclusion. Lastly, UNOPS Executive Office Instruction (EOI) on HSSE Management states that "[a]|I offices and facilities shall aim to adopt a continuous improvement process in relation to (...) significant social considerations including but not limited to diversity, accessibility, gender equality"67. Principle 6: Core UNOPS implements projects in a manner that meet the core labour standards as identified by the Labour Rights. International Labour Organization (ILO). While UNOPS EOI on HSSE Management states that "[I]egal and compliance requirements in the social (...) field in each country shall be identified, recorded and regularly updated"68, the labour laws are applied to the projects regardless of whether countries where UNOPS is implementing a project have ratified the relevant conventions. Instead, "[t]he health and safety of all people at UNOPS workplaces and in communities that interact with UNOPS activities shall be considered at all times and throughout the life cycle of UNOPS projects"69. This applies to "(...) activities and projects that are controlled by UNOPS, including activities that UNOPS assigns to contractors" 70. Moreover, for everyone's safety, it is mandatory for people at UNOPS workplaces to comply with the UNOPS Golden Rules for addressing fatal or significant hazards.<sup>71</sup> and wherever necessary and applicable, the UNOPS can incorporate the ILO core labour standards in the design and implementation of the project and create awareness with all involved on how these standards apply. Principle 7: UNOPS does not implement projects that are inconsistent with the rights and responsibilities set forth Indigenous Peoples. in the UN Declaration on the Rights of Indigenous Peoples and other applicable international instruments relating to indigenous peoples. The Amazigh form the Indigenous population of Libya. They are estimated to number some one million people, or more than 16% of the country's total population. Libya voted in favour of the UN Declaration on the Rights of Indigenous Peoples (UNDRIP).72 UNOPS works in compliance with national and international laws (see above in Principle 1, 3 and 4) and adopts a people-centred approach, upholding rights, promoting active participation, including disadvantaged groups and individuals and leaving no one behind<sup>73</sup>. UNOPS adopts a proportional approach to strengthen efforts of inclusion in all projects, and focuses on accelerating work with context-sensitive (based on sexual orientation and gender identity) and context-specific (based on race, ethnicity, religion and indigenous status) groups, among others. Principle 8: Involuntary

<sup>&</sup>lt;sup>67</sup> EOI REF. EOI.SSC.2021.01 on Health & Safety and Social & Environmental Management, para. 4.2.2.

<sup>&</sup>lt;sup>68</sup> Ibid. para. 4.1.4.

<sup>&</sup>lt;sup>69</sup> Ibid. para. 2.1.

<sup>&</sup>lt;sup>70</sup> Ibid. para. 1.2.

<sup>&</sup>lt;sup>71</sup> Ibid. para. 3.1.

<sup>&</sup>lt;sup>72</sup> IWGIA, Indigenous peoples in Libya, https://www.iwgia.org/en/libya.html .

<sup>&</sup>lt;sup>73</sup> EOD REF. EOD.ED.2021.01 on Occupational Health & Safety and Social and Environmental Management, para 2.2.

Resettlement.	n/a
Principle 9: Protection of Natural Habitats.	The protection of natural habitats is enshrined in UNOPS's HSSE guidelines, where it states that "[t]he health and safety of all people at UNOPS workplaces and in communities that interact with UNOPS activities shall be considered at all times and throughout the life cycle of UNOPS projects. Similarly, ways to avoid harm to the environment () shall also be considered at all times and throughout the life cycle of UNOPS projects" And throughout the life cycle of UNOPS projects to the considered at all times and throughout the life cycle of UNOPS projects to the cycle of UNOPS proje
	Prior to commencing any project activities, UNOPS will identify: 1) the presence in or near the project/programme area of natural habitats, and 2) the potential of the project/programme to impact directly, indirectly, or cumulatively upon natural habitats. This is done through a Social and Environmental Screenings (SES) <sup>75</sup> , in which key project stakeholders and technical experts are consulted to ensure that the Screening is informed by the best available knowledge. The SES considers direct, indirect and cumulative impacts throughout the life cycle of the project. The SES results indicate in which thematic areas risks and opportunities (if any) for the project have been identified. These risks and opportunities shall inform the consequent steps of the management system.
	Based on the SES, UNOPS develops a Social and Environmental Management Plan <sup>76</sup> , to address the project SE risks and opportunities and other requirements set in the UNOPS HSSE policy <sup>77</sup> . The applicable SE plans shall:  - make use of adaptive management;  - apply the mitigation hierarchy for risks and impacts;  - follow internationally recognised good practice principles such as the precautionary principle and good international industry practice (GIIP).
Principle 10: Conservation of Biological Diversity.	UNOPS implements projects in a way that avoids any significant or unjustified reduction or loss of biological diversity or the introduction of known invasive species. UNOPS carries out Social and Environmental Screenings (SES) <sup>78</sup> , in which key project stakeholders and technical experts are consulted to ensure that the Screening is informed by the best available knowledge. The SES considers direct, indirect and cumulative impacts throughout the life cycle of the project. The SES results indicate in which thematic areas risks and opportunities (if any) for the project have been identified. These risks and opportunities shall inform the consequent steps of the management system.
	Based on the SES, UNOPS develops a Social and Environmental Management Plan <sup>79</sup> , to address the project SE risks and opportunities and other requirements set in the UNOPS HSSE policy <sup>80</sup> . The applicable SE plans shall  - make use of adaptive management;  - apply the mitigation hierarchy for risks and impacts;  - follow internationally recognised good practice principles such as the precautionary principle and good international industry practice (GIIP).
Principle 11: Climate Change.	UNOPS projects do not result in any significant or unjustified increase in greenhouse gas emissions or other drivers of climate change. This is also applied to any agriculture projects UNOPS implements. UNOPS EOI on HSSE states in section 4 that "UNOPS social and environmental performance shall be based on a management system approach aligned to best international practices and standards"81, and "UNOPS business units and personnel shall operate with the ambition of aligning with the UN Sustainability Strategy 2020-2030 (UNSS), and in particular ensuring that GHG emissions are maintained at a level compatible with limiting the increase in global

 $<sup>^{74}\,</sup>$  EOI REF. EOI.SSC.2021.01 on Health & Safety and Social & Environmental Management, para. 2.1.

<sup>&</sup>lt;sup>75</sup> Ibid. para. 4.3.2.

<sup>&</sup>lt;sup>79</sup> Ibid. para. 4.3.3.

EOD Ref. EOD.ED.2021.01. on Occupational Health & Safety and Social and Environmental Management. EOI REF. EOI.SSC.2021.01 on Health & Safety and Social & Environmental Management, para. 4.1.1.

temperature to 1.5°C as recommended by the Intergovernmental Panel on Climate Change"82.

UNOPS has mandatory minimum HSSE Management regulations in place that it applies to all activities and projects that are controlled by UNOPS, including activities that UNOPS assigns to contractors. In fact, the applicable SE requirements shall be communicated to suppliers and contractors as part of the solicitation process. Contractors can be authorised to implement their own SE plans and processes if these are formally reviewed by the UNOPS personnel responsible for SE implementation in the project, and found at least substantially equivalent to the UNOPS ones. These external processes are monitored and evaluated according to UNOPS standards.83

If necessary, UNOPS can carry out a Social and Environmental Screening (SES)84, in which key project stakeholders and technical experts are consulted to ensure that the Screening is informed by the best available knowledge. The SES considers direct, indirect and cumulative impacts throughout the life cycle of the project. The SES results indicate in which thematic areas risks and opportunities (if any) for the project have been identified. These risks and opportunities shall inform the consequent steps of the management system.

Based on the SES, UNOPS develops a Social and Environmental Management Plan<sup>85</sup>, to address the project SE risks and opportunities and other requirements set in the UNOPS HSSE policy86. The applicable SE plans shall

- make use of adaptive management;
- apply the mitigation hierarchy for risks and impacts;
- follow internationally recognised good practice principles such as the precautionary principle and good international industry practice (GIIP)

The mandatory and recommended SE requirements are applicable to all business units and will be periodically updated<sup>87</sup>. Moreover, induction, awareness and training on SE shall be provided to all UNOPS personnel on a regular basis, with due consideration of their job descriptions, roles and competences88.

# Principle 12: Pollution Prevention and Resource Efficiency

UNOPS projects are designed and implemented in a way that meets applicable international standards for maximizing energy efficiency and minimizing material resource use, the production of wastes, and the release of pollutants.

This is reflected in UNOPS EOI HSSE89, in which section 4 states that "UNOPS social and environmental performance shall be based on a management system approach aligned to best international practices and standards"90, and "UNOPS business units and personnel shall operate with the ambition of aligning with the UN Sustainability Strategy 2020-2030 (UNSS), and in particular ensuring that GHG emissions are maintained at a level compatible with limiting the increase in global temperature to 1.5°C as recommended by the Intergovernmental Panel on Climate Change"91. In general, UNOPS has mandatory HSSE Management regulations in place that it applies to all activities and projects that are controlled by UNOPS, including activities that UNOPS assigns to contractors. In fact, the applicable SE requirements shall be communicated to suppliers and contractors as part of the solicitation process. Contractors can be authorised to implement their own SE plans and processes if these are formally reviewed by the UNOPS personnel responsible for SE implementation in the project, and found at least substantially equivalent to the UNOPS ones. These external processes are monitored and evaluated according to UNOPS standards. 92

### Principle 13: Public

When community health could be affected by the intervention, UNOPS can carry out a preliminary

Ibid. para. 4.1.1.

Ibid. para. 4.1.2.

Ibid. para. 4.1.9.

Ibid. para. 4.3.2.

Ibid. para. 4.3.3.

EOD Ref. EOD.ED.2021.01. on Occupational Health & Safety and Social and Environmental Management.

EOI REF. EOI.SSC.2021.01 on Health & Safety and Social & Environmental Management, para. 4.1.4.

Ibid. para. 4.1.7.

<sup>89</sup> Ibid.

Ibid para. 4.1.2.

<sup>&</sup>lt;sup>92</sup> Ibid. para. 4.1.9.

### Health.

Social and Environmental Screening (SES)93, in which key project stakeholders and technical experts are consulted to ensure that the Screening is informed by the best available knowledge. The SES considers direct, indirect and cumulative impacts throughout the life cycle of the project. The SES results indicate in which thematic areas risks and opportunities (if any) for the project have been identified. These risks and opportunities shall inform the consequent steps of the management system.

Based on the SES, UNOPS develops a Social and Environmental Management Plan<sup>94</sup>, to address the project SE risks and opportunities and other requirements set in the UNOPS HSSE policy95. The applicable SE plans shall

- make use of adaptive management;
- apply the mitigation hierarchy for risks and impacts;
- follow internationally recognised good practice principles such as the precautionary principle and good international industry practice (GIIP)

## Principle 14: Physical and Cultural Heritage.

UNOPS projects are designed and implemented in a way that avoids the alteration, damage, or removal of any physical cultural resources, cultural sites, and sites with unique natural values recognized as such at the community,national or international level. To mitigate this risk UNOPS can carry out a Social and Environmental Screening (SES)96, in which key project stakeholders and technical experts are consulted to ensure that the Screening is informed by the best available knowledge. The SES considers direct, indirect and cumulative impacts throughout the life cycle of the project. The SES results indicate in which thematic areas risks and opportunities (if any) for the project have been identified. These risks and opportunities shall inform the consequent steps of the management system.

Based on the SES, UNOPS develops a Social and Environmental Management Plan<sup>97</sup>, to address the project SE risks and opportunities and other requirements set in the UNOPS HSSE policy98. The applicable SE plans shall then:

- make use of adaptive management;
- apply the mitigation hierarchy for risks and impacts;
- follow internationally recognised good practice principles such as the precautionary principle and good international industry practice (GII).

## Principle 15: Lands and Soil Conservation.

Projects shall be designed and implemented in a way that promotes soil conservation and avoids degradation or conversion of productive lands or land that provides valuable ecosystem services. To address this, UNOPS has mandatory HSSE Management regulations in place that it applies to all activities and projects that are controlled by UNOPS, including activities that UNOPS assigns to contractors. In light of this, UNOPS can carry out a Social and Environmental Screening (SES)99, in which key project stakeholders and technical experts are consulted to ensure that the Screening is informed by the best available knowledge. The SES considers direct, indirect and cumulative impacts throughout the life cycle of the project. The SES results indicate in which thematic areas risks and opportunities (if any) for the project have been identified. These risks and opportunities shall inform the consequent steps of the management system.

Based on the SES, UNOPS develops a Social and Environmental Management Plan<sup>100</sup>, to address the project SE risks and opportunities and other requirements set in the UNOPS HSSE policy<sup>101</sup>. The applicable SE plans shall then:

- make use of adaptive management:
- apply the mitigation hierarchy for risks and impacts:
- follow internationally recognised good practice principles such as the precautionary principle and good international industry practice (GII).

Ibid. para. 4.3.3.

Ibid. para. 4.3.2.

EOD Ref. EOD.ED.2021.01. on Occupational Health & Safety and Social and Environmental Management.

<sup>&</sup>lt;sup>96</sup> EOI REF. EOI.SSC.2021.01, para. 4.3.2.

<sup>&</sup>lt;sup>97</sup> Ibid. para. 4.3.3.

EOD Ref. EOD.ED.2021.01. on Occupational Health & Safety and Social and Environmental Management.

<sup>99</sup> EOI REF. EOI.SSC.2021.01, para. 4.3.2.

<sup>&</sup>lt;sup>100</sup> Ibid. para. 4.3.3.

<sup>101</sup> EOD Ref. EOD.ED.2021.01. on Occupational Health & Safety and Social and Environmental Management.

## 4. ESTIMNATED NUMBERS OF CULTIVATED / PRODUCED TREES AND CROPS IN THE PROJECT TARGET AREA

Table 54. Number of horticultural trees affected by the saltwater intrusion and drought in the districts of Nalut, Al-

Jabal Al-Gharbi, Zwara, Al-Jafara, Al-Zaweya

Name of the district	Olive trees	Date Palm trees	Almond trees	Citrus trees	Grapevine trees	Fig trees
Nalut	103039	59962	12081	486	6045	29982
Al-Jabal Al- Gharbi	699172	31109	235389	2816	72979	120110
Zwara	800993	175109	123275	18304	142729	73395
Al-Jafara	1356388	551561	31446	1798417	293340	53414
Total	2959592	817741	402191	1820023	515093	276901

Source: - Bureau of Statistics and Census, 2007.

Table 55 Production quantities (quintals) of crops of wheat, barley, alfalfa, dry legumes, peanuts and oats in the districts affected by the saltwater intrusion and drought in the districts of Nalut, Al-Jabal Al-Gharbi, Zwara, Al-

Jafara, Al-Zaweya

Name of the district	Wheat	Barley	Alfalfa	Dry legumes	Peanuts	Oats
Nalut	3762	21360	23091	82	0	2488
Al-Jabal Al-Gharbi	3855	34650	4290	18	25	17028
Zwara	474	28567	44662	12	5070	45630
Al-Jafara	4991	167037	392898	367	9324	187850
Total	13082	251614	464941	479	14419	252996

Source: - Bureau of Statistics and Census, 2007.

Table 56 Production quantities (quintals) of crops of potatoes, spring onions, onion, garlic, pumpkin, carrot and fresh beans in the districts affected by the saltwater intrusion and drought in the districts of Nalut, Al-Jabal Al-

Gharbi, Zwara, Al-Jafara, Al-Zawev

Name of the district	Potatoes	Spring Onions	Onion	Garlic	Pumpkin	Carrots	Fresh Beans
Nalut	3	576	352	540	11	270	5
Al-Jabal Al- Gharbi	4	61	16380	23	0	0	21
Zwara	445	974	3306	372	312	2398	497
Al-Jafara	102442	29903	126965	55653	14463	11204	3530
Total	102894	31514	147003	56588	14786	13872	4053

Source: - Bureau of Statistics and Census, 2007.

Table 57Production quantities (quintals) of crops of peas, beans, tomatoes, watermelon, melon, cucumber and pepper in the districts affected by the saltwater intrusion and drought in the districts of Nalut, Al-Jabal Al-Gharbi,

Zwara, Al-Jafara, Al-Zaweya

zwara, 711 Garara, 711 Zaweya							
Name of the district	Peas	Beans	Tomatoes	Watermelon	Melon	Cucumber	Pepper
Nalut	0	10	21	42	25	11	122
Al-Jabal Al- Gharbi	2473	21	9	957	9250	0	5
Zwara	184	3	3181	252	43	114	5800
Al-Jafara	2730	1892	84528	52073	4191	15200	70293
Total	5387	1926	87739	53324	13509	15325	76220

Source: - Bureau of Statistics and Census, 2007.

Table 58 Production quantities (quintals) of crops of aubergine, lettuce, cabbage, parsley and spinach in the districts affected by the saltwater intrusion and drought in the districts of Nalut, Al-Jabal Al-Gharbi, Zwara, Al-Jafara, Al-Zaweya

Name of the district	Aubergine	Lettuce	Cabbage	Parsley	Spinach
Nalut	12	0	0	540	607
Al-Jabal Al- Gharbi	0	0	0	23	0
Zwara	50	151	7	372	252
Al-Jafara	5422	2796	3878	55653	11728
Total	5484	2947	3885	56588	12587

Source: - Bureau of Statistics and Census, 2007.

## 5. DETAILED CLIMATE RISK ANALYSIS

## Main Climate Change Hazards

1. **Temperature:** Since the beginning of last century, average temperature has been increasing in Libya. The average mean temperature has increased by an average rate of 0.0082°C/year between the years 1901 and 2017. The increase in average maximum temperature was the highest at about 0.01°C/year between the years 1901 and 2017 while the increase in minimum temperature was at about 0.0068°C/year for the same period as shown in Figure 21<sup>102</sup>.

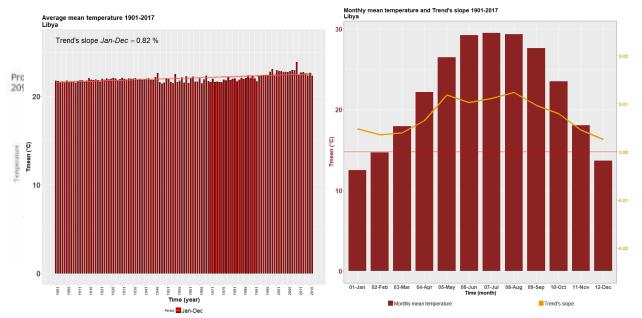


Figure 21 Average Mean Temperature (Left) and Monthly Mean Temperature (Right) in Libya between 1901 and 2017

2. Projections show that temperature will continue to increase for each month under all scenarios until the end of the century with a mean annual temperature increase of 2°C by 2050 compared to the 1986-2005 period under the worst scenario. For the period between 2040 and 2059, the least expected increase will be 0.95°C in February under scenario RCP 2.6 while the highest can reach up to 2.96°C in August under scenario RCP 8.5. Whereas for the period between 2080 and 2099, the least expected increase will also be 0.95°C but in January under scenario RCP 2.6 while the highest can reach up to 5.75°C in August under scenario RCP 8.5 as shown in Figure 22<sup>103</sup>.

<sup>&</sup>lt;sup>102</sup> This analysis is based on the CoMon tool that uses CHIRPS/Climate Hazards Group-USGS data.

<sup>&</sup>lt;sup>103</sup> World Bank (2021). Climate Change Knowledge Portal. Last Accessed [03/01/2021: https://climateknowledgeportal.worldbank.org/country/libya]

3.

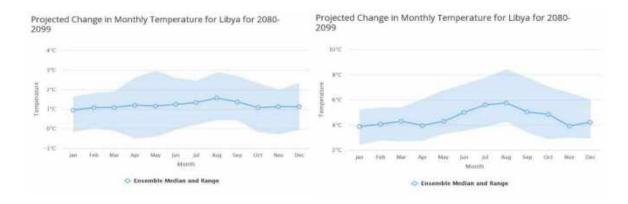


Figure 22 Projected Change in Monthly Temperature under RCP 2.6 (Left) and RCP 8.5 (Right) in Libya between 2080 and 2099

4. For the project target districts, the trend has been similar. Temperatures are rising and will continue to rise with comparable rates in the five districts as we approach the end of the century. The rate of the increase depends on the scenario. The more pessimistic the scenario (e.g. SSP5-8.5), the higher the increase. Figure 23 below shows the rates of increase for each district under five different scenarios until 2100 compared to 1995-2014 reference period<sup>104</sup>.

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<sup>&</sup>lt;sup>104</sup> World Bank (2022). Climate Change Knowledge Portal. Last Accessed [11/12/2022: https://climateknowledgeportal.worldbank.org/country/libya/climate-data-projections]

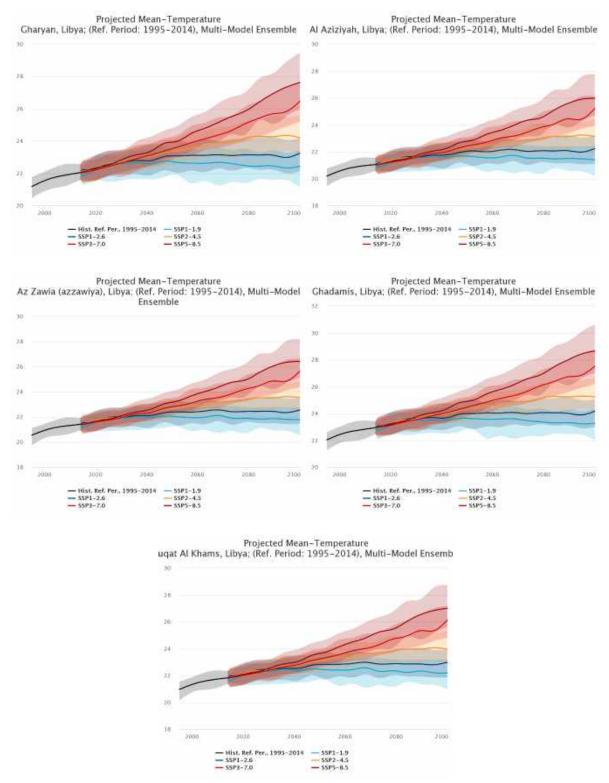


Figure 23 Projected Mean Temperature until 2100 compared to 1995-2014 for Al Jabal Al Gharbi (top left), Aljafrah (top right), Azzawya (middle left), Nalut (middle right) and Zuwara (bottom middle)

5. **Precipitation:** There has been overall slight decline in trend of precipitation by 0.076% which represents an average decline of 0.76 mm per decade in Libya between 1981 and 2018. Monthly rainfall had no change in summer with increase

in average precipitation occurring in February, October and December and a decline in January, March, April and November as shown in Figure 24<sup>105</sup>.

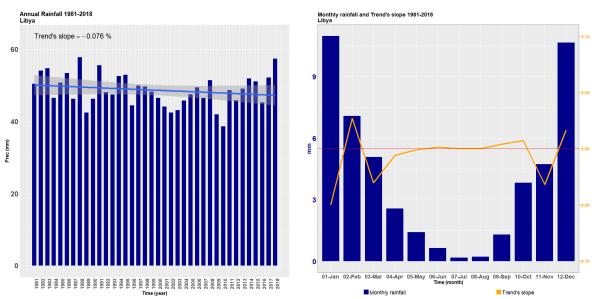


Figure 24 Annual Rainfall (Left) and Monthly Rainfall (Right) in Libya between 1981 and 2018

6. While different models have large discrepancies on precipitation data, it is likely that there will be a decline of around 7% in mean annual precipitation. Monthly data shows slight median changes. For the period between 2040 and 2059, the biggest decline is expected to be around 1.04 mm in June under scenario RCP 4.5 while the highest increase will be around 0.53 mm in April under the same scenario. For the period between 2080 and 2099, the biggest decline is expected to be around 1.39 mm also in June under scenario RCP 8.5 while the highest increase will be around 0.46 mm in May under scenario RCP 2.6 as shown in Figure 25<sup>106</sup>.

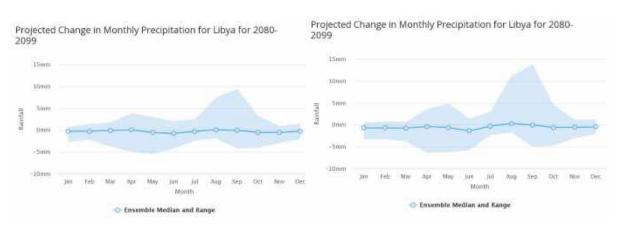


Figure 25 Projected Change in Monthly Precipitation under RCP 2.6 (Left) and RCP 8.5 (Right) in Libya between 2080 and 2099

<sup>&</sup>lt;sup>105</sup> This analysis is based on the CoMon tool that uses CHIRPS/Climate Hazards Group-USGS data.

<sup>&</sup>lt;sup>106</sup> World Bank (2021). Climate Change Knowledge Portal. Last Accessed [03/01/2021: <a href="https://climateknowledgeportal.worldbank.org/country/libya">https://climateknowledgeportal.worldbank.org/country/libya</a>]

7.	For the project target districts, the projected trend is that precipitation will be declining under all scenarios. However, the correlation between the scenario and the percentage of decline is inconsistent across the century although the SSP5 – 8.5 scenario will cause the biggest decline in the five districts by 2100. Figure 26 below shows the percentage of decline for each district under five different scenarios until 2100 compared to 1995-2014 reference period <sup>107</sup> .

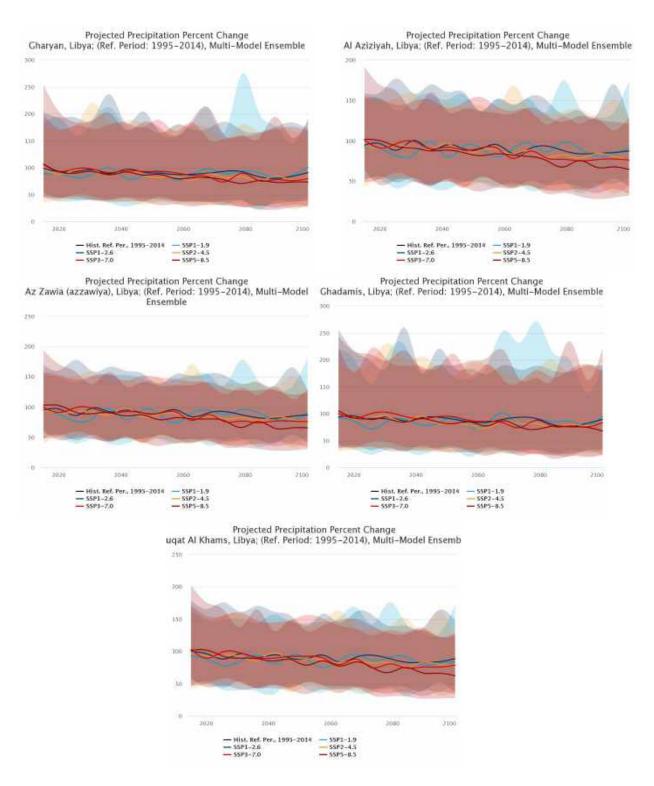


Figure 26 Projected Precipitation Percent Change until 2100 compared to 1995-2014 for Al Jabal Al Gharbi (top left), Aljafrah (top right), Azzawya (middle left), Nalut (middle right) and Zuwara (bottom middle) (World Bank, 2022)

8. **Extreme Events:** Flooding is not very common in Libya although flash flooding can be disastrous. In terms of spatial distribution, Libya is considered a flood-prone country with potentially large economic losses<sup>108</sup>. Drought is become more frequent in Libya over the past two decades. Figure 27 shows the change in events of drought in Libya between 1983 and 2019 as indicated by the decrease in Standardized Precipitation Evapotranspiration Index<sup>109</sup> (SPEI). Severe drought is likely once the SPEI drops below -2. There is a major trend decline in average 18 months SPEI indicating higher chance of drought events between 1981 and 2018. The frequency of negative SPEI for consecutive years has increased greatly since the year 2000<sup>110</sup>.

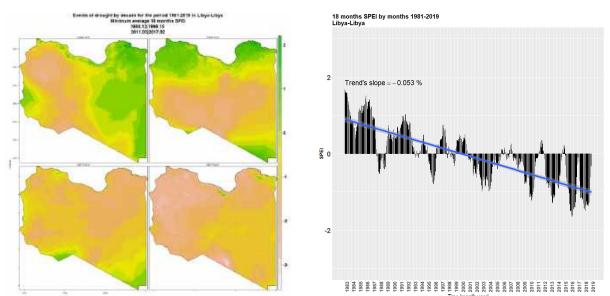


Figure 27 Events of Drought in Libya between 1988 and 2017 by the Decrease in SPEI (Left) and Four Months SPEI between 1983 and 2019 in Libya (Right)

9. Projections show that there will be an increase in the incidents of heat waves as we move towards the end of the century. The more pessimistic the scenario gets, the higher the annual probability of heat waves. The likelihood of severe drought follows the same trend as it increases as we move towards the end of the century with only slight differences between scenarios RCP 4.5, RCP 6.0 and RCP 8.5. It is predicted the number of annual drought days will increase from 101 to 224 in the Libyan coast over the next 40 years<sup>111</sup>. Libya will also be subject to an increase in the frequency of flooding in coastal areas as well as an increase in sandstorms and dust storms<sup>112</sup>.

<sup>&</sup>lt;sup>108</sup> Suwihli, S. (2020). Geospatial Analyses of Seismic Hazards and Risk Perception in Libya. *Theses and Dissertations: University of Arkansas*.

The Standardized Precipitation Evapotranspiration Index (SPEI) measures the changes in water balance using both precipitation input as well as evapotranspiration losses. Positive values indicate positive water balance (or wet) conditions and negative values indicate negative water balance (or dry) conditions. Severe drought is likely once the SPEI drops below -2. The 12-month integrated SPEI was used to compute the annual likelihood of a severe drought. Particularly in the sub-tropics there is a clear trend towards increasing likelihood of drought conditions, but the overall trend is positive in most places due to increasing temperatures and little precipitation variability.

<sup>&</sup>lt;sup>110</sup> This analysis is based on the CoMon tool that uses CHIRPS/Climate Hazards Group-USGS data.

<sup>&</sup>lt;sup>111</sup> USAID (2017a). Climate Change Risk Profile: Libya. Fact Sheet.

<sup>&</sup>lt;sup>112</sup> World Bank (2021). Climate Change Knowledge Portal. Last Accessed [03/01/2021: https://climateknowledgeportal.worldbank.org/country/libva]

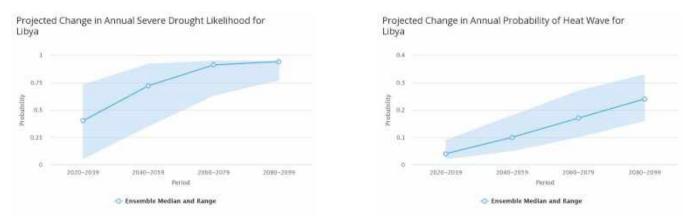


Figure 28 Projected Change in Annual Severe Drought Likelihood (Left) and Probability of Heat Wave (Right) in Libya under RCP 8.5 between 2020 and 2099

10. **Sea Level Rise:** Data shows fluctuations in sea level anomaly for Libya with an overall increase between 1993 and 2015. While in 1993 there was a decline of 6.91 mm, 1994-2015 showed a trend of increase where the lowest was 4.49 mm in 1995 and the peak was in 2010 with an increase of 102.6 mm<sup>113</sup>. This trend is expected to continue with the global mean sea level rise expected to be in the range of 0.29 m and 1.1 m by the end of the century<sup>114</sup>. Figure 29 below shows the most vulnerable areas along the Libyan coast under a 1 m sea level rise scenario.



Figure 29 Vulnerable Areas to Sea Level Rise in Libya based on a 1-meter scenario (El Raey, 2010)

<sup>&</sup>lt;sup>113</sup> World Bank (2021). Climate Change Knowledge Portal. Last Accessed [03/01/2021: <a href="https://climateknowledgeportal.worldbank.org/country/libya">https://climateknowledgeportal.worldbank.org/country/libya</a>]

<sup>114</sup> IPCC (2019). Special Report on the Ocean and Cryosphere in a Changing Climate. *Chapter 4*.

## **Crop Analysis**

This analysis uses the CARD<sup>115</sup> methodology to identify potential impact of different climate change scenarios on some of the crops in the target districts. The crops available for the analysis in the tool were groundnuts, peas and wheat. The Median scenario shows a general decline in the yield for the three corps in all five districts by the end of the ten years period despite some fluctuations during this period as shown in Figure 30.



Figure 3021 Changes in Crop Yield for Groundnuts, Peas and Wheat between 2023 and 2033 under a Median Scenario in Al Jabal Al Gharbi (top left),
Aljafrah (top right), Azzawya (middle left), Nalut (middle right) and Zuwara (bottom middle)

The percent changes in yields by 2033 can be summarised in the Table 59 below:

Table 59 Percent Changes in Yields for Groundnuts, Peas and Wheat by 2033 in the Five Districts

District/Crop	Groundnuts	Peas	Wheat
Al Jabal Al Gharbi	-2.12%	-0.61%	-1.43%
Aljafrah	-1.66%	-1.13%	-2.68%
Azzawya	-1.60%	-1.32%	-2.60%

<sup>&</sup>lt;sup>115</sup> The Climate Adaptation in Rural Development (CARD) assessment tool enables easy access to peer-reviewed modelling results for crop yields under climate change.

Nalut	-3.04%	-1.00%	-0.85%
Zuwara	-1.38%	-1.53%	-2.25%