



## ADAPTATION FUND

AFB/PPRC.25/30  
30 September, 2019

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Adaptation Fund Board  
Project and Programme Review Committee  
Twenty-Fifth Meeting  
Bonn, Germany, 7-9 October, 2019

Agenda Item 5 g)

**PROPOSAL FOR  
BENIN, BURKINA FASO, CÔTE D'IVOIRE, GAMBIA (REPUBLIC OF  
THE), GHANA, GUINEA, LIBERIA, MALI, NIGER, NIGERIA, SENEGAL,  
SIERRA LEONE AND TOGO**

## Background

1. The strategic priorities, policies and guidelines of the Adaptation Fund (the Fund), as well as its operational policies and guidelines include provisions for funding projects and programmes at the regional, i.e. transnational level. However, the Fund has thus far not funded such projects and programmes.

2. The Adaptation Fund Board (the Board), as well as its Project and Programme Review Committee (PPRC) and Ethics and Finance Committee (EFC) considered issues related to regional projects and programmes on a number of occasions between the Board's fourteenth and twenty-first meetings but the Board did not make decisions for the purpose of inviting proposals for such projects. Indeed, in its fourteenth meeting, the Board decided to:

- (c) Request the secretariat to send a letter to any accredited regional implementing entities informing them that they could present a country project/programme but not a regional project/programme until a decision had been taken by the Board, and that they would be provided with further information pursuant to that decision*

*(Decision B.14/25 (c))*

3. At its eighth meeting in March 2012, the PPRC came up with recommendations on certain definitions related to regional projects and programmes. However, as the subsequent seventeenth Board meeting took a different strategic approach to the overall question of regional projects and programmes, these PPRC recommendations were not included in a Board decision.

4. At its twenty-fourth meeting, the Board heard a presentation from the coordinator of the working group set up by decision B.17/20 and tasked with following up on the issue of regional projects and programmes. She circulated a recommendation prepared by the working group, for the consideration by the Board, and the Board decided:

- (a) To initiate steps to launch a pilot programme on regional projects and programmes, not to exceed US\$ 30 million;*
- (b) That the pilot programme on regional projects and programmes will be outside of the consideration of the 50 per cent cap on multilateral implementing entities (MIEs) and the country cap;*
- (c) That regional implementing entities (RIEs) and MIEs that partner with national implementing entities (NIEs) or other national institutions would be eligible for this pilot programme, and*

*(d) To request the secretariat to prepare for the consideration of the Board, before the twenty-fifth meeting of the Board or intersessionally, under the guidance of the working group set up under decision B.17/20, a proposal for such a pilot programme based on consultations with contributors, MIEs, RIEs, the Adaptation Committee, the Climate Technology Centre and Network (CTCN), the Least Developed Countries Expert Group (LEG), and other relevant bodies, as appropriate, and in that proposal make a recommendation on possible options on approaches, procedures and priority areas for the implementation of the pilot programme.*

*(Decision B.24/30)*

5. The proposal requested under (d) of the decision above was prepared by the secretariat and submitted to the Board in its twenty-fifth meeting, and the Board decided to:

*(a) Approve the pilot programme on regional projects and programmes, as contained in document AFB/B.25/6/Rev.2;*

*(b) Set a cap of US\$ 30 million for the programme;*

*(c) Request the secretariat to issue a call for regional project and programme proposals for consideration by the Board in its twenty-sixth meeting; and*

*(d) Request the secretariat to continue discussions with the Climate Technology Center and Network (CTCN) towards operationalizing, during the implementation of the pilot programme on regional projects and programmes, the Synergy Option 2 on knowledge management proposed by CTCN and included in Annex III of the document AFB/B.25/6/Rev.2.*

*(Decision B.25/28)*

6. Based on the Board Decision B.25/28, the first call for regional project and programme proposals was issued and an invitation letter to eligible Parties to submit project and programme proposals to the Fund was sent out on 5 May 2015.

7. At its twenty-sixth meeting the Board decided *to request the secretariat to inform the Multilateral Implementing Entities and Regional Implementing Entities that the call for proposals under the Pilot Programme for Regional Projects and Programmes is still open and to encourage them to submit proposals to the Board at its 27th meeting, bearing in mind the cap established by Decision B.25/26.*

*(Decision B.26/3)*

8. At its twenty-seventh meeting the Board decided to:
- (a) *Continue consideration of regional project and programme proposals under the pilot programme, while reminding the implementing entities that the amount set aside for the pilot programme is US\$ 30 million;*
  - (b) *Request the secretariat to prepare for consideration by the Project and Programme Review Committee at its nineteenth meeting, a proposal for prioritization among regional project/programme proposals, including for awarding project formulation grants, and for establishment of a pipeline; and*
  - (c) *Consider the matter of the pilot programme for regional projects and programmes at its twenty-eighth meeting.*

*(Decision B.27/5)*

9. The proposal requested in (b) above was presented to the nineteenth meeting of the PPRC as document AFB/PPRC.19/5. The Board subsequently decided:

- a) *With regard to the pilot programme approved by decision B.25/28:*
  - (i) *To prioritize the four projects and 10 project formulation grants as follows:*
    - 1. *If the proposals recommended to be funded in a given meeting of the PPRC do not exceed the available slots under the pilot programme, all those proposals would be submitted to the Board for funding;*
    - 2. *If the proposals recommended to be funded in a given meeting of the PPRC do exceed the available slots under the pilot programme, the proposals to be funded under the pilot programme would be prioritized so that the total number of projects and project formulation grants (PFGs) under the programme maximizes the total diversity of projects/PFGs. This would be done using a three-tier prioritization system: so that the proposals in relatively less funded sectors would be prioritized as the first level of prioritization. If there are more than one proposal in the same sector: the proposals in relatively less funded regions are prioritized as the second level of prioritization. If there are more than one proposal in the same region, the proposals submitted by relatively less represented implementing entity would be prioritized as the third level of prioritization;*
  - (ii) *To request the secretariat to report on the progress and experiences of the pilot programme to the PPRC at its twenty-third meeting; and*

b) With regard to financing regional proposals beyond the pilot programme referred to above:

(i) *To continue considering regional proposals for funding, within the two categories originally described in document AFB/B.25/6/Rev.2: ones requesting up to US\$ 14 million, and others requesting up to US\$ 5 million, subject to review of the regional programme;*

(ii) *To establish two pipelines for technically cleared regional proposals: one for proposals up to US\$ 14 million and the other for proposals up to US\$ 5 million, and place any technically cleared regional proposals, in those pipelines, in the order described in decision B.17/19 (their date of recommendation by the PPRC, their submission date, their lower “net” cost); and*

(iii) *To fund projects from the two pipelines, using funds available for the respective types of implementing entities, so that the maximum number of or maximum total funding for projects and project formulation grants to be approved each fiscal year will be outlined at the time of approving the annual work plan of the Board.*

*(Decision B.28/1)*

10. At its thirty-first meeting, having considered the comments and recommendation of the Project and Programme Review Committee, the Adaptation Fund Board (the Board) decided:

(a) *To merge the two pipelines for technically cleared regional proposals established in decision B.28/1(b)(ii), so that starting in fiscal year 2019 the provisional amount of funding for regional proposals would be allocated without distinction between the two categories originally described in document AFB/B.25/6/Rev.2, and that the funding of regional proposals would be established on a ‘first come, first served’ basis; and*

(b) *To include in its work programme for fiscal year 2019 provision of an amount of US\$ 60 million for the funding of regional project and programme proposals, as follows:*

(i) *Up to US\$ 59 million to be used for funding regional project and programme proposals in the two categories of regional projects and programmes: ones requesting up to US \$14 million, and others requesting up to US\$ 5 million; and*

(ii) *Up to US\$ 1 million for funding project formulation grant requests for preparing regional project and programme concepts or fully-developed project and programme documents.*

*(Decision B.31/3)*

11. According to the Board Decision B.12/10, a project or programme proposal needs to be received by the secretariat no less than nine weeks before a Board meeting, in order to be considered by the Board in that meeting.

12. The following project pre-concept document titled “Scaling-up climate-resilient rice production in West Africa” was submitted for Benin, Burkina Faso, Côte d’Ivoire, Gambia (Republic of The) , Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo by the Sahara and Shel Observatory (OSS), which is a Regional Implementing Entity of the Adaptation Fund.

13. This is the first submission of the regional project pre-concept proposal using the three-step submission process.

9. The current submission was received by the secretariat in time to be considered in the thirty-fourth Board meeting. The secretariat carried out a technical review of the project proposal, with the diary number AFR/RIE/Food/2019/PPC/1 and completed a review sheet.

10. In accordance with a request to the secretariat made by the Board in its 10th meeting, the secretariat shared this review sheet with OSS, and offered it the opportunity of providing responses before the review sheet was sent to the PPRC.

11. The secretariat is submitting to the PPRC the summary and, pursuant to decision B.17/15, the final technical review of the project, both prepared by the secretariat, along with the final submission of the proposal in the following section. In accordance with decision B.25.15, the proposal is submitted with changes between the initial submission and the revised version highlighted.



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## ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Pre-Concept for a Regional Project

Countries/Region:	<b>Benin, Burkina Faso, Côte d'Ivoire, Gambia (Republic of The) , Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo</b>
Project Title:	<b>Scaling-up climate-resilient rice production in West Africa</b>
Thematic Focal Area:	<b>Food Security</b>
Implementing Entity:	<b>Sahara and Sahel Observatory (OSS)</b>
Executing Entities:	<b>Regional level: Regional Coordination Unit based at the Regional Centre of Specialization in Rice of ECOWAS (CRSRIZ/IER) in Mali, in partnership with Climate-Resilient Farming Systems program at Cornell University, USA</b> <b>National level: National Executing Institutions</b>
AF Project ID:	<b>AFR/RIE/Food/2019/PPC/1</b>
IE Project ID:	Requested Financing from Adaptation Fund (US Dollars): <b>13,955,270</b>
Reviewer and contact person:	<b>Imèn Meliane</b> Co-reviewer(s): <b>Matthew Brian Reddy</b>
IE Contact Person:	

### Technical Summary

The project "Scaling-up climate-resilient rice production in West Africa" aims to improve climate resilience of rice production systems and enhance the productivity of smallholder rice farmers across West Africa using a climate-resilient rice production approach. It will build upon and scale up the experience and results gained through the project "Improving and Scaling up the System of Rice Intensification in West Africa" (SRI-WAAPP) to all 13 countries members of the Economic Community of West African States (ECOWAS).

The project seeks to achieve its objective through three (3) components:

1. Strengthen human and institutional capacity in climate- resilient rice production (CRRP)
2. Assist farmers in scaling-up CRRP

	<p>3. Strengthen - communication, advocacy and partnerships for scaling-up CRRP</p> <p>The project pre-concept focuses on integrating SRI with new soil and water conservation measures that are not infrastructure intensive and adopting a more holistic landscape approach.</p> <p>The initial technical review found that the project proposes a comprehensive approach to the climate related challenges for rice production in the region. The proposed activities are in large justified based on future climate predictions and seem to have proven their effectiveness.</p> <p>A couple of clarifications were requested, related among others to providing more insight on the potential role of the private sector in scaling up the project results, on the possibility for sharing the project results beyond the countries involved in the project. More information is needed on potential national agencies and their role in the implementation of the project, and to the sustainability of the investment in particular with maintenance costs after the project ends. Going forward, the project should explore opportunities for innovation, technical and knowledge partnerships.</p> <p>The final review finds that the concept document has addressed most of the requests and provided sufficient information at this stage. The proposal also contains a request for a project formulation grant in the amount of USD 20,000.</p> <p>It is expected that during the development of the full proposal document more consideration of the programme management and how best to resource it should be made.</p>
Date:	11 September 2019

Review Criteria	Questions	Comments	Comments on 11 September 2019
Country Eligibility	1. Are all of the participating countries party to the Kyoto Protocol?	Yes	-



	2. Are all of the participating countries developing countries particularly vulnerable to the adverse effects of climate change?	Yes	-
Project Eligibility	1. Have the designated government authorities for the Adaptation Fund from each of the participating countries endorsed the project/programme?	Yes	-
	2. Has the pre-concept provided necessary information on the problem the proposed project/programme is aiming to solve, including both the regional and the country perspective?	<p>Yes, the pre-concept provides a coherent outline of the problem faced by these countries with adequate information at this stage on climate change impacts affecting rice production, as well as a good outline of the proposed solution (System of Rice Intensification) and its potential benefits.</p> <p><b>CR1:</b> Please provide more information on the importance of rice consumption in the region and improved justification for why rice self-sufficiency is an appropriate adaptation response when the region is identified as being particularly vulnerable to climate change (compared to diversification of crops).</p>	<p><b>CR1 Addressed</b> as per as per information provided in page 1</p>

	<p>3. Have the project/programme objectives, components and financing been clearly explained?</p>	<p>Yes. The objectives are clear and the method of Sustainable Rice Intensification is well recognised as climate-smart agricultural response.</p> <p><b>CR 2:</b> In component 3, please provide insight as to whether the involvement of the private sector has been considered or explored to scale up the results. Alliances with the private sector, across the production to market value chain along with the co-finance and resourcing opportunities that the private sector brings would strengthen the project and should be explored during the project development phase.</p> <p><b>CR 3:</b> Please consider whether the project could expand its reach by enhancing knowledge sharing of lessons learned and information on achieved project results with other countries in Africa as well as with other regions (e.g. South East Asia)</p>	<p><b>CR2 Addressed</b> as per as per information provided in page 5</p> <p><b>CR3 Addressed</b> as per as per information provided in pages 2 and 5</p>
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	<p>4. Has the project/programme been justified in terms of how:</p> <ul style="list-style-type: none"> <li>- it supports concrete adaptation actions?</li> <li>- it builds added value through the regional approach?</li> <li>- it promotes new and innovative solutions to climate change adaptation?</li> <li>- it is cost-effective?</li> <li>- it is consistent with applicable strategies and plans?</li> <li>- it incorporates learning and knowledge management?</li> <li>- it will be developed through a consultative process with particular reference to vulnerable groups, including gender considerations, in compliance with the Environmental and Social Policy of the Adaptation Fund?</li> <li>- it will take into account sustainability?</li> </ul>	<p>Yes. The information provided at this level has addressed all these aspects in general.</p> <p>Going forward, the programme should consider widening its approach to innovation, technical and knowledge partnerships, for example exploring opportunities with the African Rice Initiative and International Rice Research Institute.</p> <p>In particular, work with passive technologies, namely new rice hybrids which demonstrate drought and salinity tolerance, could be built into the programme.</p> <p><b>CR 4:</b> the project proposes to build on and scale up the experience gained through the SRI-WAAPP project, however it doesn't provide indication for how to achieve financial sustainability in the future. Some examples provided (migrating previous database and knowledge management to this new project) do not appear to be sustainable for when this project ends. In developing the concept a closer look to ensuring financial sustainability is needed.</p>	<p><b>CR4: Addressed</b>, as per information provided in pages 5 and 6</p>
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	<p>5. Does the pre-concept briefly explain which organizations would be involved in the proposed regional project/programme at the regional and national/sub-national level, and how coordination would be arranged? Does it explain how national institutions, and when possible, national implementing entities (NIEs) would be involved as partners in the project?</p>	<p>No. The project identified partners at regional level. It outlined that national institutions and focal points will be identified but provides no further details on how this would be managed or resourced.</p> <p><b>CR 5:</b> please provide more information on potential national implementing agencies, their role and how they will be involved in the project.</p> <p><b>CR 6:</b> during the project development phase, more consideration will need to be made on the management of such a complex programme and how best to resource this work.</p>	<p><b>CR5: Addressed</b>, as per information provided in page 7</p> <p><b>CR6: Partially addressed</b> as per information provided in page 7 and in the response sheet. The project development phase will need to make more consideration of the programme management and how best to resource it.</p>
Resource Availability	<p>Is the requested project / programme funding within the funding windows of the pilot programme for regional projects/programmes?</p>	<p>Yes, at this time. Please note this question will be considered at any future submission of the proposal.</p>	-
	<p>7. Are the administrative costs (Implementing Entity Management Fee and Project/ Programme Execution Costs) at or below 20 per cent of the total project/programme budget?</p>	<p>Yes</p>	-
Eligibility of IE	<p>8. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?</p>	<p>Yes</p>	-





## ADAPTATION FUND

## PRE-CONCEPT FOR A REGIONAL PROJECT

## PART I: PROJECT INFORMATION

Title of Project:	Scaling-up climate-resilient rice production in West Africa
Countries:	Benin, Burkina Faso, Côte d'Ivoire, The Gambia, Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo (all countries members of ECOWAS <sup>1</sup> )
Thematic Focal Area:	Food security
Type of Implementing Entity:	Regional Implementing Entity (RIE)
Implementing Entity:	Sahara and Sahel Observatory (OSS)
Executing Entities:	Regional level: Regional Coordination Unit based at the Regional Centre of Specialization in Rice of ECOWAS (CRS-RIZ/IER) in Mali, in partnership with Climate-Resilient Farming Systems program at Cornell University, USA National level: National Executing Institutions (List in annex1)
Amount of Financing Requested:	13,955,270 in U.S Dollars

## PROJECT BACKGROUND AND CONTEXT

West Africa is the rice basket of Sub-Saharan Africa, producing over two thirds of its rice. Rice is a staple crop grown in West Africa for more than 3500 years with the domestication of African rice (*Oryza glaberrima*). Produced by low-income smallholders across the entire region, rice plays a key role in regional food security for rural and urban populations. In recent years, increasing demand stemming from population growth and steady increase in annual per capita consumption (combined at 5.93% per year from 2010-2017; with per capita consumption in 2017 as high as 164 kg in Sierra Leone and 150 kg in Guinea) has outpaced production (4.1% per year for the same time period), leading to ever-increasing rice imports from Asia, accounting for 46% in 2017<sup>2</sup>. This places a heavy burden on government budgets and exposes the region to the volatility of world market prices. This became apparent in 2008, when world market prices tripled in less than four months, resulting in riots (e.g. Liberia, Senegal) over a staple food that the majority of population could not afford anymore. In response, the Economic Community of West African States (ECOWAS) launched a regional Rice Offensive in 2013 with the goal to achieve rice self-sufficiency by 2025. The untapped potential to increase rice production is very high, based on currently low yields, under-utilized land and the availability of climate-smart rice production techniques. By using the climate-resilient rice production approach, the Rice Offensive can address critical challenges simultaneously: respond to increasing rice consumption needs, strengthen livelihoods of rice farming communities, allow for diversification of crops as well as other economic activities, improve the national economic well-being, free-up hard currency – previously used for rice imports - for other national needs, and contribute to political stability. All in all, this will allow to withstand and adapt to the imminent climate change threads to this key economic sector, and free human, environmental and financial capitals to tackle other pressing adaptation priorities. In addition, it was noted that the yield of rice increased by 33.22% over the period 2007-2017 while that of corn increased by only 5% over the same period. Other cereals such as millet and

<sup>1</sup> ECOWAS: Economic Community of West African States

<sup>2</sup> Styger E, Traoré G. 2018. 50,000 farmers in 13 countries: results from scaling-up SRI in West Africa. CORAF, Dakar, Senegal

sorghum have seen their yield decline over the same period. These figures reflect the importance of rice production in the region<sup>3</sup>.

. West Africa has been identified to be particularly vulnerable to climate change due to the combination of naturally high levels of climate variability, high reliance on rainfed agriculture, and limited economic and institutional capacity to cope with climate change<sup>3</sup>.

The West African climate is characterized by a strong latitudinal rainfall gradient, separating the region into the humid tropical rainforest zone in the south, changing into sub-humid savanna zones and the semi-arid to arid Sahel-Sahara zone when proceeding north, each zone harboring a diversity of mostly subsistence-based rice systems. Climate bands extend from east to west, thus several countries are included in each of the climate zones. Countries with a north-south orientation often extend across two to three different climate zones. In the coastal zones, rainfed lowland and upland rice systems dominate. In the savanna zones, a mix of rainfed and irrigated systems can be found. Irrigation becomes more prevalent moving north into the drier zones of the Sahel. In 2017, mostly smallholder and resource-limited farmers produced rice on 7.3 million hectares, of which about 43% were planted as rainfed upland rice, 40% as rainfed lowland rice, 12% as irrigated rice, and 5% by other systems. Irrigated and rainfed lowland systems are the most productive, but they are also significant greenhouse gas emitters as a result of flooded fields.

Climate change forecasts for the region predict rising temperatures, increases in the number of very hot days, rising sea levels, erratic rainfall, and increased frequency of extreme weather events (droughts, floods, storms). Predictions for future rainfall are not consistent across different climate models, thus the path for adjustments will be uncertain and locally variable. Rainfall increases will mostly likely occur in the northern parts of the sub-humid zones and the Sahel, while decline in rainfall is predicted for southern parts of the countries on the Atlantic coast, with some models showing drastic reductions for Liberia and Sierra Leone.<sup>4</sup>

Key risks and impacts of climate change on rice production in West Africa can be summarized as follows: Increasing variability of climate events will disrupt the growing season calendars, shorten the cropping season, and exacerbate dry spells, droughts, and heat waves. It will also create greater likelihoods of floods, shortage of irrigation water, strong winds and storms, and changes in incidences and geographic range of pests and diseases - all of which can lead to substantial rice yield reductions or crop failure. Without adaptation measures, estimated reductions in rice yield across West Africa range from 5-25%<sup>5</sup>, and up to 80%<sup>6</sup> depending on location and rice system. Common production practices are either traditional, marked by low yields, or those that depend on agro-chemical inputs, which are often not affordable for smallholders, nor are these practices environmentally sustainable. Both systems are highly susceptible to climate change. Expected associated impacts of climate change on West African rice farming communities include lower farm incomes, a decline in food security at local and national level, reduced welfare and persisting poverty. Climate variability will lead to erratic economic growth with an exacerbation of poverty, estimated to occur with *very high confidence* according to the 5<sup>th</sup> Intergovernmental Panel on Climate Change (IPCC) assessment<sup>7</sup>. To illustrate potential future losses: if regional rice production in 2017 were reduced by 20%, farmers would have lost 4.8 million tons of paddy rice with a value of more than 1.5 billion dollars. It can also be expected that pressure on natural resources will increase, be it on vegetation, soils or water, leading to overuse, degradation, potential conflicts, rural exodus and international emigration. To mitigate these effects, introducing adaptation measures and strengthening resilience is a necessity.

<sup>3</sup> <http://www.fao.org/faostat/en/#data/QC>

<sup>4</sup> Jalloh A et al. 2012, West African Agriculture and Climate Change, IFPRI, Washington, DC

<sup>5</sup> Jalloh A et al. 2012, West African Agriculture and Climate Change, IFPRI, Washington, DC

<sup>6</sup> van Oort PAJ, Zwart SJ. 2018. Impacts of climate change on rice production in African causes of simulated yield changes. Glob. Change Biol. 24:1029-1045

<sup>7</sup> Niang I et al. 2014. Africa. In: Climate Change 2014. Impacts, Adaptation, and Vulnerability. Part B, 5<sup>th</sup> IPCC Assm; UK, USA.

## PROJECT OBJECTIVES

The global objective of the project is to improve climate resilience and increase rice system productivity of smallholder rice farmers across West Africa using a climate-resilient rice production approach. More specifically the project will:

- Strengthen the resilience and capacity of smallholder rice farmers and other rice stakeholders in the region to use agro-ecological and sustainable land and water management strategies that respond to the climate change threats in their respective localities.
- Assist farmers to implement and scale-up Climate-Resilient Rice Production (CRRP). This includes the System of Rice Intensification methodology (SRI) and locally adapted soil and water conservation management approaches.
- Support a communication platform and engage in advocacy to promote efficient exchange of knowledge and expertise among diverse stakeholder groups in West Africa **and beyond**.
- Facilitate the establishment of a coalition of partners at national and regional levels for the scaling-up of CRRP.

## PROJECT COMPONENTS AND FINANCING

The project will be implemented in the 13 ECOWAS countries: Benin, Burkina Faso, Côte d'Ivoire, The Gambia, Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone and Togo. It will build on existing human and institutional capacity, and the achievements of the regional project "Improving and Scaling up the System of Rice Intensification in West Africa" (SRI-WAAPP), which was commissioned and supervised by the West and Central African Council for Agricultural Research (CORAF). The project was part of the West Africa Agriculture Productivity Program (WAAPP) and supported by the World Bank under the institutional umbrella of ECOWAS. The SRI-WAAPP project ran from January 2014 to June 2016 and was coordinated by CRS-Riz in Mali. It directly benefited more than 50,000 farmers and reached 750,000 people overall, of whom 31% were women. Yields for rainfed lowland and irrigated rice increased by more than 50%.<sup>8</sup> This project to the Adaptation Fund is conceived in response to the strong, ongoing demand from West African rice farmers to scale-up SRI and associated agro-ecological practices.

The Climate-Resilient Rice Production (CRRP) approach used in this project is based on the System of Rice Intensification (SRI) methodology in combination with location-specific sustainable land and water management practices. SRI is an agro-ecological, climate-smart and low-input methodology to increase rice productivity. It allows yields to increase by 20-50% and more, while using 90% less seed, 30-50% less water and 30-100% less agro-chemicals. Compared to conventionally-grown rice plants, those grown using SRI are more vigorous and healthier, with deeper roots that can better withstand weather calamities such as drought, floods, and strong winds. Conventional crops succumb more easily to these forces, often leaving farmers with reduced or no harvests. Combining SRI with improved soil and water conservation practices, and if needed, integrated pest and disease management, will play an important role in developing climate-resilient, productive and sustainable rice systems. Based on country priorities and constraints analysis for each climate zone and targeted rice production system, the project will use a modular approach for capacity strengthening and field implementation.

Project/Programme Components	Expected Outcomes	Expected Outputs	Countries	Amount (US\$)
1. Strengthen human and institutional capacity in climate-resilient rice production (CRRP)	Key stakeholders operating in different climate zones and rice systems gained knowledge and skills to successfully address climate-threats and implement CRRP in a sustainable way	- Capacities of regional, national and local stakeholders to master and disseminate a variety of CRRP topics strengthened - Capacity of national and regional research centres strengthened - Consultative and knowledge exchange meetings at national and regional levels held	All 13 countries	17% or 2,050,000

<sup>8</sup> The project results report can be accessed at [www.sriwestafrica.org](http://www.sriwestafrica.org)



2. Assist farmers in scaling-up CRRP	Farmers adapted successfully to climate threats for rice production, achieved higher rice productivity, and improved their incomes and livelihoods	<ul style="list-style-type: none"> <li>- Adapted SRI, soil conservation and water management practices adopted by farmers</li> <li>- Targeted communities and smallholder farmers have strengthened their livelihoods through improved yields and incomes from rice</li> <li>- Technical rice production and sustainable land management innovations developed, tested and shared</li> <li>- CRRP adaptation strategies in different climate zones and rice systems monitored, analysed and results widely shared</li> </ul>	All 13 countries	72% or 8,450,000
3. Strengthen communication, advocacy and partnerships for scaling-up CRRP	<ul style="list-style-type: none"> <li>- Awareness and knowledge increased about CRRP in West Africa</li> <li>- Support and buy-in for CRRP from policy-makers, donors and development specialists created</li> <li>- Synergies created through partnerships and coordination to mainstream CRRP in West Africa</li> </ul>	<ul style="list-style-type: none"> <li>- Knowledge materials developed and disseminated and made available, responding to demand and need of different stakeholder groups</li> <li>- Web-based platform is functional, widely accessed and used</li> <li>- Advocacy briefs are developed and publicly available</li> <li>- Interaction and exchange between stakeholders is facilitated</li> <li>- Coalition of partners is set-up and regional partner roundtables held once a year</li> </ul>	All 13 countries	11% or 1,300,000
4. Project Execution cost				9% or 1 062 000,000
5. Total Project Cost				100% or 12,862,000
6. Project Cycle Management Fee charged by the Implementing Entity				8.5% or 1 093 270,000
<b>Amount of Financing Requested</b>				13,955,270

## PROJECT DURATION:

48 months or 4 years

## PART II: PROJECT / PROGRAMME JUSTIFICATION

**Component 1: Strengthen human and institutional capacity in CRRP**, US\$ 2,050,000 or 17% of project funding. At project start-up, in each country, a quick assessment of climate change threats to rice production will be undertaken and priorities for climate-resilient interventions identified. The assessments will be built on recommendations from the SRI-WAAPP project, integrate a participatory process, and take all current country-based activities into account. Farmers will actively participate in this process, with focus on gender, youth and vulnerable groups. This is followed by a capacity needs assessment in each country, the outcomes of which will be synthesized at the regional level to create a regional plan for capacity strengthening. The project will adopt a module approach for capacity strengthening. The regional and national coordination teams will identify specialists to provide needed expertise and develop the training materials for the identified topics. The modules will be designed around best practices and their scientific underpinnings, but also leave room to integrate relevant traditional and farmer knowledge. The modules will be adjusted as experience and knowledge develop and as the project evolves. Locally adapted manuals will become a product of this process. An initial Training of Trainers workshop will be held at the regional level, making sure that all project stakeholders from all participating countries share a common understanding of the technical issues and the project intervention approach. Trainers will then in turn train field technicians and farmers at the national and local levels using the developed modules. Yearly consultative and knowledge exchange workshops will be held at the national and

regional levels. Regional technical working groups will ensure that project interventions remain relevant and evolve based on achievements, needs and expertise. The project will also hold shorter trainings and information sessions for different rice sector and value-chain stakeholders.

**Component 2: Assist farmers in scaling-up CRRP**, US\$ 8,450,000 or 72% of project funding. The project will assist farmers to implement best practices (already available from SRI-WAAPP and other projects) directly in their fields and work with farmers to develop innovative, adapted practices through participatory research. This will be done for each climate-zone and rice system. Farmers, extension technicians and researchers will collaborate in an iterative and participatory process. Adaptation activities will be monitored and periodically evaluated to maximize learning.

Integrating SRI with soil and water conservation in a holistic way is a new approach and will generate new solutions. It will create short-term benefits for farmers – by using the SRI method – while at the same time create longer-term benefits by regenerating and improving land and water resources. Previous projects often treated these two approaches separately. Combining them will induce significant synergies and improve both the rice systems' productivity, and their health and resilience.

The project will expand on experience gained under the SRI-WAAPP project, which monitored 1000 SRI sites across West Africa. For soil and water management, the project will work not only at the individual field level, but adopt a more holistic landscape approach, taking into account water flows and storage opportunities within the landscape in combination with soil fertility management. Specific methods include i) the “smart-valley approach” (where water is channelled and retained within the landscape for optimal irrigation purposes), ii) protecting soils from erosion and water run-off through field levelling and bunding, iii) use of seasonal small-scale irrigation operations, iv) increasing soil organic matter content to improve water and nutrient-holding capacity of soils, and v) protecting soil surface with mulching and cover-cropping. Proven traditional techniques will also be integrated. These methods are mostly knowledge and skill-based, and do not rely on heavy infrastructure investments. As such, this will lead to empowerment of farmers and allow them more independence in their decision-making. This is especially important for vulnerable groups and resource-limited farmers. Additionally, the project will expand and integrate innovations, techniques and knowledge developed by other partners (e.g. AfricaRice, African Rice Initiative) as they complement the projects activities. This will allow farmers to have access to a wide range of solutions and techniques and to be able to implement them depending on their needs and priorities.

**Component 3: Strengthen communication, advocacy and partnerships for scaling-up CRRP**, US\$ 1,300,000 or 11% of the project budget. Effective communication is vital to scale-up CRRP. The project will develop innovative knowledge management mechanisms for information exchange, experimental learning, knowledge creation and analysis, and dissemination and uptake of knowledge. This can be done through an internet platform, published documents, videos, radio shows, exchange visits, personal outreach and more. Outputs will include technical reports, mapping of results, practical manuals, success stories and lessons learned. The project can expand on the knowledge management platform developed under SRI-WAAPP, which included a website and a Facebook page as well as stakeholder and document databases for all 13 countries. Currently hosted by Cornell University, these resources can be transferred to the new project. Knowledge sharing and exchange-visits will be organized at local, national, and regional levels. Beyond that, the project will contribute to knowledge exchanges with the three regional SRI networks of Asia, Latin America and the Caribbean, and Africa, and with the global SRI hub at Cornell University. Presentations and participation at the global rice fora, such as the International Rice Congress or the Sustainable Rice Platform meetings, can strengthen alliances and create new partnerships. This will be built on already established connections during SRI-WAAPP.

The project will also help set up a coalition of partners to mainstream and scale-up CRRP. It will convene an annual region-wide partner roundtable to strengthen support, lead complementary activities, and contribute to the implementation of the national and regional development and climate-action plans, such as the agricultural and rice strategies and National Determined Contributions. This will also allow coordination of project activities with other initiatives to avoid duplication. More specifically the platform will include technical and research partners, bi-lateral and multi-lateral projects, civil society, the private sector as well as financial partners. Holding a donor round table with multi-lateral, bi-lateral and private sector rice stakeholders (e.g. GIZ, USAID, IFAD, FAO, Olam International Ltd, World Bank among others) promises new synergies to propel the scaling-up efforts of CRRP along the value-chain. Engaging with the private sector in the rice value-chain, will be essential for sustainability and scaling-up reasons, including: providers for certified seed (examples associated with SRI exist for Nigeria), organic fertilizers (ELEPHANT VERT, Mali), SRI equipment (SOCAFON, Mali), and post-harvest

operators including rice processing (including parboiling) and marketing (Benin and Togo). These successful linkages will be further explored during project preparation.

**Justification for a regional approach, cost-effectiveness and alignment with national and regional strategies:** Climate and agro-ecological zones run in latitudinal bands across West Africa, crossing several countries. For example, conditions in northern Togo are more similar to those in northern Benin than to southern Togo. Under a regional approach, locally adapted experiences and innovations developed in one country can more easily be shared with other countries working in the same climate zone or rice system. Using a single operational framework, it will be easier to pool expertise from across the region, work with a common understanding, and share lessons learned. The groundwork for regional collaboration was laid during the SRI-WAAPP project, which set up an institutional support network and a community of practice for SRI common to all 13 countries. It would be much more expensive and difficult, if not impossible, to do this under 13 separate national programs.

The project will directly support the ECOWAS Regional Agricultural Policy for West Africa (ECOWAP) and its Regional Rice Offensive. The Rice Offensive is supported by the National Rice Development Strategies (NRDS), elaborated for each of the 13 participating countries. The project also aligns with the African Union Comprehensive Africa Agriculture Development Programme (CAADP) and contributes to the CAADP commitments to i) enhance climate resilience, ii) reduce poverty and iii) end hunger through inclusive agricultural growth. The activities proposed by this project will contribute to implementing proposed actions of the National Adaptation Plans (NAP), the National Adaptation Programmes of Action (NAPA), and the more recent National Determined Contributions (NDC) established by all 13 countries. Many of the NDC reports recognize problems with the rice production sector, such as: i) rice being especially vulnerable to the impacts of climate change, and ii) rice contributing to climate change with greenhouse gas emissions from flooding and use of fertilizers. Proposed NDC strategies are i) to shift towards climate-smart agricultural methods (that address production increase, adaptation to and mitigation of climate change at the same time), and ii) to pursue more holistic sustainable land and water management approaches (including improved organic matter management, water-saving technologies, and protection of soils from land degradation). The NDC reports from Burkina Faso, The Gambia, Mali, Senegal and Togo specifically recommend implementation and scaling-up of the System of Rice Intensification, recognized for its benefits of reduced methane emissions, water savings, reduced fertilizer use and increased yields.

**Sustainability of project outcomes and economic, social and environmental benefits:** Commitment to sustainability will drive the implementation approach and activities of the project. The capacity building of the ECOWAS Regional Centre of Specialization in Rice (CRS-Riz) will ensure the sustainability of project results and the coordination of existing national initiatives. The project will encourage national and regional rice-sector organizations to help implement and lead the scaling-up of CRRP. The involvement of the private sector will strengthen the value chain and contribute to the sustainability of investments. Awareness-raising and information sharing about project results to all stakeholder groups, including national, bi-lateral, and multi-lateral policy and decision-making institutions, will focus on mobilizing political will as well as budgetary commitments. As a knowledge-based approach, SRI reduces dependence on outside inputs, and is therefore attractive for resource-limited smallholders including women and young farmers. They will be the focus of the project. CRRP trainings for farmers will encourage their empowerment and strengthen their independence in crop and land management decisions. Financial sustainability will be achieved through i) leadership and project coordination by governmental institutions at the national level, ii) work with governments to integrate CRRP in national policies and development strategies (example: Mali's National Program to Scale-up SRI), iii) strengthen CRRP in NDC implementation, iv) work with rice farmer umbrella organizations at national and regional level to integrate CRRP in their strategies and workplans, and v) harness the organized donor and partner platforms to align their actions in the rice sector with CRRP activities in the region.

CRRP, as applied by the project, is a “triple win” approach with environmental, social and economic benefits. Project implementation will result in a multitude of environmental benefits, including water-saving, reduced emissions in greenhouse gases, improved soil health and reduced use of chemical fertilizers and pesticides. When cultivated using the SRI method, rice plants become healthier, stronger and develop a deep root system, which allows them i) to better withstand droughts, floods and strong winds, and ii) to better resist pests and diseases. Additionally, reduced flooding of rice paddies under SRI will create a less humid field micro-climate, which is less conducive to the spread of diseases compared to conventional rice growing under permanent flooding. Farmers can reduce or eliminate the use of pesticides entirely. In case of a specific pest or disease

problem, the project will hold trainings on the biological life cycle of the pest or disease, and educate farmers on different management approaches for control, following the integrated pest management, or IPM, approach.

Significant economic and social benefits are expected to occur from this project, as already witnessed by farmers in all 13 countries during the SRI-WAAPP project. With increased rice productivity of more than 50%, more rice was available for home consumption and marketing. Net incomes from SRI plots increased by at least 100% compared to conventional plots. Improved household food security freed up land for other crops. Labor and earned money could be used for other household needs, such as schooling fees, access to health care, or investment in other economic activities.<sup>9</sup> These benefits are also expected to be achieved in this project. Increased rice production will be economically beneficial to other stakeholders in the rice value chain, be it equipment producers and distributors, mills or rice sellers. At the national and regional level, the increased rice production will reduce dependency on rice imports, currently a large burden for governmental budgets. It is predicted that CRRP will take a permanent foothold in the project zones and be further disseminated through community-driven efforts.

**Consultative process during project preparation and compliance with environmental and social standards, policies and safeguards:** As explained above, the SRI-WAAPP was a commissioned project and was developed in a participatory manner. Recommendations from the project beneficiaries from the 13 countries led to the initiative to apply for this project. The participatory process with stakeholders from the 13 countries will be continued in all the steps of project preparation, through video and call conferencing, and in workshops. The project proposal will be validated in a regional workshop before final submission to the Adaptation Fund.

Project design and implementation at all levels will comply with the Environmental and Social Policy (ESP) of the Adaptation Fund, as well as with national environmental legislation in each of the participating countries. Given that most project activities will be based on improved agronomy and require little if any use of chemical inputs or large-scale construction, the project carries few environmental or social risks. But as a precaution, all proposed project activities will be screened against the ESP requirements. Measures for avoidance and mitigation will be drawn up and implemented for any risks that may be identified.

## PART III: IMPLEMENTATION ARRANGEMENTS

The project will be implemented by the Sahara and Sahel Observatory (OSS) which will serve as the Regional Implementing Entity (RIE) and will be responsible for all financial, monitoring and reporting aspects to the Adaptation Fund. OSS will also provide administrative and management support to the executing entities. The project will be coordinated and executed at the regional level by the ECOWAS Regional Centre of Specialization in Rice (CRS-Riz) hosted by the Institut d'Economie Rurale (IER) in Mali. CRS-Riz will partner with the Climate-Resilient Farming System Program at Cornell University in Ithaca, New York, USA to form the regional project coordination unit. A national focal point institution will be determined for each of the 13 countries. For nine out of the 13 countries, the focal point institutions have already been identified, as indicated in the attached endorsement letters. The focal institutions will coordinate all national SRI activities, build a national CRRP alliance, and represent the link to the regional coordination. For the implementation of the project activities, agreements and contracts with identified technical partners will be set up specifying tasks, responsibilities, timelines and outputs to be delivered, overseen by the national and regional coordinations. As there are 3 National Implementing Entities (NIEs) of the Adaptation Fund (AF), these institutions will be involved in the Steering Committee at both the National and Regional levels as well as in the monitoring and evaluation of the implementation of the compliance with environmental and social safeguards.

<sup>9</sup> Styger E, Traoré G. 2018. 50,000 farmers in 13 countries: results from scaling-up SRI in West Africa. CORAF, Dakar, Senegal

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

### A. Record of endorsement on behalf of the governments

<b>Benin</b> Euloge Lima, Adaption Fund National Designated Authority, Director of Risk Management and Adaptation to Climate Change, Ministère du Cadre de Vie et du Développement Durable	Date: July 22, 2019
<b>Burkina Faso</b> Ambroise Kafando, Adaption Fund National Designated Authority, Ministère de l'Économie, des Finances et du Développement	Date: July 22, 2019
<b>Côte d'Ivoire</b> Oreste Santoni Akossi, Adaptation Fund National Designated Authority, Deputy Director, Climate Change Departement, Ministry of Environment and Sustainable Development	Date: July 24, 2019
<b>Gambia</b> Saikou K. Sanyang, Permanent Secretary, Ministry of Environment, Climate Change and Natural Resources	Date: July 26, 2019
<b>Ghana</b> Fredua Agyeman, Adaption Fund Designated Authority Ghana, Ministry of Environment, Science, Technology and Innovation	Date: July 24, 2019
<b>Guinea</b> Joseph Sylla, Adaptation Fund National Designated Authority, Focal Point of CCNUCC, Ministère de l'Environnement, des Eaux et Forêts	Date: July 25, 2019
<b>Liberia</b> Jeremiah Garwo Soka Sr, National Coordinator/National Climate Change Secretariat, Designated Authority of Liberia, Environmental Protection Agency, National Climate Change Secretariat	Date: July 24, 2019
<b>Mali</b> Dr Saydou Keita, Adaption Fund National Designated Authority, Ministère de l'Environnement, de l'Assainissement et du Développement Durable	Date: July 22, 2019
<b>Niger</b> Dr Kamaye Maazou, Secrétaire Exécutif du CNEED, Point Focal National du FA, Cabinet du Premier Ministre, Conseil National de l'Environnement pour un Développement Durable, Secrétariat Exécutif	Date: July 25, 2019
<b>Nigeria</b> Dr Yerima Peter Tarfa, Adaption Fund National Designated Authority, UNFCCC Focal Point/Director, Department of Climate Change, Federal Ministry of Environment	Date: July 25, 2019
<b>Senegal</b> Madame Dior Alioune Sidibe, Chef de la Division Gestion du Littoral, Autorité Nationale Désignée pour le Fonds d'Adaptation, Ministère de l'Environnement et du Développement Durable	Date: July 29, 2019
<b>Sierra Leone</b> Professor Foday M. Jaward PhD, Executive Chairman, EPA Sierra Leone, Adaptation Fund National Designated Authority, Environment Protection Agency, Office of the President	Date: July 25, 2019
<b>Togo</b> Thiyyu Kohoga Essobiyou, Director of Environment, AF Focal Point, Ministère de l'Environnement du Développement Durable Nature	Date: July 23, 2019

**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 (ECOWAS, CAADP, NAP, NAPA, NDC,...) and subject to the approval by the Adaptation Fund Board, commit to implementing the project 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 regional project.

*Mr. Khatim KHERRAZ– Executive Secretary of the Sahara and Sahel Observatory (OSS) as the Implementing Entity Coordinator*



*Name & Signature*

Date: August 05, 2019

Tel.: (+216) 71 206 633

Email: [boc@oss.org.tn](mailto:boc@oss.org.tn)

Project Contact Person: Mr. Nabil BEN KHATRA

Tel. and Email: (+216) 71 206 633; [nabil.benkhatra@oss.org.tn](mailto:nabil.benkhatra@oss.org.tn)

## ANNEXE 1 : Regional Project Executing Entities

COUNTRY	EXECUTING ENTITY
<b>Benin</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali Climate –resilient farming systems Program at Cornell University - USA
<b>Burkina Faso</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali Climate –resilient farming systems Program at Cornell University - USA
<b>Côte d’Ivoire</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with Climate –resilient farming systems Program at Cornell University - USA In collaboration with the Ministry of Environment and Sustainable Development and the Ministry of Agriculture and Rural Development of Côte d’Ivoire at national level
<b>Gambia</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali Climate –resilient farming systems Program at Cornell University - USA
<b>Ghana</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with Climate –resilient farming systems Program at Cornell University - USA In collaboration with Savana Agricultural research Institute of Ghana at the national level
<b>Guinea</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with Climate –resilient farming systems Program at Cornell University - USA In collaboration with Agricultural research Institute of Guinea (IRAG) and with the Climate Program of the Ministry of Environment, Water and Forests
<b>Liberia</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali CHAP international Liberia
<b>Mali</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali
<b>Niger</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in collaboration with Ministère de l’agriculture du Niger, l’Institut de la recherche Agronomique du Niger (INRAN)
<b>Nigeria</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with Climate –resilient farming systems Program at Cornell University - USA West Africa Agricultural Transformation Programme (WAATP-Nigeria) of the Federal Ministry of Agriculture and rural Development
<b>Senegal</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with Climate –resilient farming systems Program at Cornell University - USA L’agence Nationale de Conseil Agricole et Rural (ANCAR) du Ministère de l’Agriculture et de l’Equipement Rurale at national level
<b>Sierra Leone</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with the Sierra Leone Environment Protection Agency and the Rokupr agricultural Research Centre
<b>Togo</b>	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) – Mali in partnership with Climate –resilient farming systems Program at Cornell University - USA

## **ANNEXE 2: Endorsement letters**





MINISTRE DU CADRE DE VIE  
ET DU DEVELOPPEMENT DURABLE  
REPUBLICQUE DU BENIN

01 BP 3502 - 01 BP 3621  
Cotonou  
Tél. : + 229 21 31 80 45  
dgec\_mcvdd@cadredevie.bj

N°01/MCVDD/AND-FA

### Letter of Endorsement by Government of Benin

Cotonou, 22<sup>th</sup> July, 2019

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

**Subject:** Endorsement for Project "Scaling-up Climate-Resilient Rice Production in West Africa".

In my capacity as designated authority for the Adaptation Fund in Republic of Benin, I confirm that the above regional project proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Benin.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory (OSS) and executed by Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) based in Mali, in partnership with Climate-Resilient Farming Systems Program at Cornell University, USA in collaboration with the Ministry of Agriculture, Livestock and Fishing of Benin at national level.

Sincerely,



**Euloge Lima**  
Adaptation Fund National Designated Authority  
Director of Risk Management and Adaptation  
to Climate Change  
Téléphone : +229 95 93 77 00  
Email: limeloge@gmail.com



**BURKINA FASO**  
*Unité – Progrès - Justice*

-----  
Ministère de l'Economie, des Finances et du Développement  
-----  
Direction Générale de la Coopération  
-----



ADAPTATION FUND



Letter of Endorsement by Government

Ouagadougou, 22th july, 2019

To : The Adaptation Fund Board  
C/o Adaptation Fund Board Secretariat  
Email: [Secretariat@Adaptation-Fund.org](mailto:Secretariat@Adaptation-Fund.org)  
Fax: 202 522 3240/5

Subject: Endorsement for Project « Scaling-up Climate-Resilient Rice Production in West Africa ».

In my capacity as Designated Authority for the Adaptation Fund in Burkina Faso, I confirm that the above regional project proposal is in accordance with the Government's national priorities in implementing adaptation activities to reduce adverse impacts, and risks, posed by climate change in Burkina Faso.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory (OSS) and executed by Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) in partnership with Climate-Resilient Farming Systems Program at Cornell University.

Sincerely,

  
**Ambroise KAFANDO**  
Adaptation Fund National Designated Authority  
03 BP 7067 Ouagadougou 03  
Tel: +226 25 31 25 50/+226 70 41 98 41  
Email: [ambkafando@gmail.com](mailto:ambkafando@gmail.com)

MINISTRY OF ENVIRONMENT AND  
SUSTAINABLE DEVELOPMENT

GENERAL DIRECTION OF ENVIRONMENT  
AND SUSTAINABLE DEVELOPMENT

CLIMATE CHANGE DEPARTMENT



ADAPTATION FUND

REPUBLIC OF CÔTE D'IVOIRE  
Union - Discipline - Work



Abidjan, le 24 JUL 2019

N° 01119 MINEED/DGEDD/DLCC/FA/aos

**Letter of Endorsement by Government of Côte d'Ivoire**

To: **The Adaptation Fund Board**  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

**Subject:** Endorsement for Project "*Scaling-up Climate-Resilient Rice Production in West Africa*"

In my capacity as designated authority for the Adaptation Fund in Republic of Côte d'Ivoire, I confirm that the above regional project proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Côte d'Ivoire.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory (OSS) and executed by Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) based in Mali, in partnership with Climate-Resilient Farming Systems Program at Cornell University, USA in collaboration with the Ministry of Environment and Sustainable Development, and the Ministry of Agriculture and Rural Development of Côte d'Ivoire at national level.

Sincerely,



**AKOSSI Oreste Santoni**

Adaptation Fund National Designated Authority, Côte d'Ivoire  
Deputy Director, Climate Change Department  
Téléphone : +225 08 45 43 03  
Email : [o.akossi@environnement.gouv.ci](mailto:o.akossi@environnement.gouv.ci)  
[akossisantoni@gmail.com](mailto:akossisantoni@gmail.com)



REPUBLIC OF THE GAMBIA  
Ministry of Environment, Climate Change & Natural Resources (MECCNAR)  
GIEPA House - 1st Floor  
Kairaba Avenue  
Kanifing Municipality

PB 33/66/01 (106)

26<sup>th</sup> July, 2019

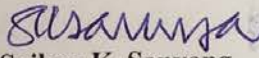
The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
email: [Secretariat@Adaptation-Fund.org](mailto:Secretariat@Adaptation-Fund.org)  
Fax: 202 522 3240/5

**Subject: Endorsement for Scaling-up Climate-Resilient Rice Production in West Africa**

In my capacity as designated authority for the Adaptation Fund in Gambia, I confirm that the above regional project proposal is in accordance with the government's national priorities in implementing the adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Gambia.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory OSS and executed by Regional Centre for Specialization in Rice of ECOWAS in partnership with Climate-Resilient Farming Systems Program at Cornell University, USA.

Sincerely

  
Saikou K. Sanyang

Permanent Secretary



# MINISTRY OF ENVIRONMENT, SCIENCE, TECHNOLOGY & INNOVATION

Our Ref: ... A/006/02/V.2

Tel: 0302 - 666 049

Fax: 0302 - 688 913/ 688 663

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Website: [www.mesti.gov.gh](http://www.mesti.gov.gh)



Post Office Box M232  
Ministries, Accra  
Ghana

July 24, 2019

## THE ADAPTATION FUND BOARD

C/O ADATATION FUND BOARD SECRETARIAT

EMAIL: [SECRETARIAT@ADATATIONFUND.ORG](mailto:SECRETARIAT@ADATATIONFUND.ORG)

FAX: 202522 3240/5

### SUBJECT: ENDORSEMENT FOR PROJECT "SCALING UP CLIMATE RESILIENT RICE PRODUCTION IN WEST AFRICA"

In my capacity as designated authority for the Adaptation Fund in the Republic of Ghana, I confirm that the above regional proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts and risks posed by climate change in Ghana.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory (OSS) and executed by the Regional Centre for Specialisation in Rice, ECOWAS (CRS-RIZ/IER) based in Mali, in partnership with Climate-Resilient Farming Systems Programme at Cornell University, USA and in collaboration with Savanna Agricultural Research Institute of Ghana at the national level.

Yours Sincerely,

**FREDUA AGYEMAN**  
**ADAPTATION FUND DESIGNATED AUTHORITY**  
**GHANA**



République de Guinée  
Travail – Justice – Solidarité

MINISTÈRE DE L'ENVIRONNEMENT,  
DES EAUX ET FORÊTS

Conakry, 25/07/ 2019

DIRECTION NATIONALE DE L'ENVIRONNEMENT

CONVENTION CADRE DES NATIONS UNIES  
SUR LES CHANGEMENTS CLIMATIQUES



ADAPTATION FUND

## Letter of Endorsement by the Government of Guinea

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

N°.....008.....MINEDD/DGEDD/DLCC/FA/aos

**Subject: Endorsement for the Project “ Scaling-up Climate-Resilient Rice Production  
In West Africa “**

In my capacity as designated authority for the Adaptation Fund in the Republic of Guinea, I confirm that the above regional project proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in the Republic of Guinea.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory (OSS) and executed by the Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ) based in Mali, in partnership with Climate-Resilient Farming Systems Program at Cornell University, USA, in collaboration with the Agricultural Research Institute of Guinea (IRAG) and with the Climate Program of the Ministry of Environment, Water and Forests.

Sincerely,



Joseph SYLLA

Adaptation Fund National Designated Authority, Guinea  
Focal Point of CCNUCC



Office of the National Coordinator

Republic of Liberia  
**ENVIRONMENTAL PROTECTION AGENCY**  
**NATIONAL CLIMATE CHANGE SECRETARIAT**



P.O Box 4024

4th street Sinkor, Tubman Boulevard,  
1000 Monrovia, 10 Liberia



ADAPTATION FUND

**Letter of Endorsement by the Government**

July 24, 2019

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

Subject: Endorsement for Scaling-up Climate Resilient Rice Production in West Africa

In my capacity as designated authority for the Adaptation Fund in Liberia, I confirm that the above regional project/programme proposal is in accordance with the government's regional priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in the ECOWAS' Countries: Benin, Burkina Faso, Cote D'Ivoire, the Gambia, Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone & Togo.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahel and Sahel Observatory (OSS) and executed by the Regional Center for Specialization in Rice of ECOWAS in partnership with CHAP International- Liberia.

Sincerely,

Jeremiah Garwo Soka, Sr  
National Coordinator/National Climate Change Secretariat  
Designated Authority of Liberia



[jsokansr7@yahoo.com](mailto:jsokansr7@yahoo.com) / [jsokan@epa.gov.lr](mailto:jsokan@epa.gov.lr) +231770775174 / 886788594



ADAPTATION FUND

MINISTRE DE L'ENVIRONNEMENT,  
DE L'ASSAINISSEMENT ET DU  
DEVELOPPEMENT DURABLE  
\*.\*.\*.\*.\*



REPUBLIQUE DU MALI  
Un Peuple – Un But – Une Foi  
\*.\*.\*.\*.\*

Bamako, 22 July 2019

### Letter of Endorsement by Government

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

**Subject: Endorsement for “Scaling Project Climate Resilient Rice Production in West Africa”**

In my capacity as Designated Authority for the Adaptation Fund in Mali, I confirm that the above regional programme proposal is in accordance with the government’s regional priorities in implementing adaptation activities to reduce adverse impacts and risks, posed by climate change in the ECOWAS countries (Benin, Burkina Faso, Côte d’Ivoire, the Gambia, Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone, Togo).

Accordingly, I am pleased to endorse the above programme proposal with support from the Adaptation Fund. If approved, the programme will be implemented by the Sahara and Sahel Observatory (OSS) and executed by Regional Center for Specialization in Rice of ECOWAS (CRS-RIZ/IER) based in Mali.

Sincerely,

**Dr SEYDOU KEITA,**  
Adaptation Fund National Designated Authority, Mali

Tel: + ( 223)74602403 or + (223) 64548887 Bamako/Mali

Email: keitasey37@yahoo.fr

Ministry Of Sanitation, Environment  
And Sustainable Development  
Dr Seydou KEITA Technical Advisor  
Designated Authority For Adaptation  
Fund in Mali. Bamako / Mali





ADAPTATION FUND

REPUBLIQUE DU NIGER



*Fraternité – Travail – Progrès*

CABINET DU PREMIER MINISTRE

CONSEIL NATIONAL DE L'ENVIRONNEMENT POUR UN DEVELOPPEMENT DURABLE  
SECRETARIAT EXECUTIF

Niamey, le 25 juillet 2019

À: le conseil d'administration du fonds d'adaptation  
c / o Secrétariat du Conseil du Fonds d'adaptation  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

Objet: Approbation pour le Projet « Mise en échelle d'une riziculture résilient au climat en Afrique de l'Ouest »

En ma qualité d'autorité désignée du Fonds d'Adaptation au Niger, je confirme que la proposition de projet / programme ci-dessus au niveau régional est conforme aux priorités nationales du gouvernement dans la mise en œuvre d'activités d'adaptation visant à réduire les effets néfastes impacts et risques du changement climatique au Niger.

En conséquence, je suis heureux d'approuver la proposition de projet / programme susmentionnée avec l'aide du Fonds pour l'adaptation. S'il est approuvé, le projet / programme sera mis en œuvre par l'Observatoire du Sahara et du Sahel (OSS) et exécuté par le Centre Régional de Spécification en Riz de la CEDEAO basé au Mali en collaboration avec le Ministère de l'Agriculture du Niger, l'Institut National de la Recherche Agronomique du Niger (INRAN) ainsi que d'autres structures nationales clés.

Cordialement,

Dr KAMAYE MAAZOU  
Secrétaire Exécutif du CNEDD  
Point Focal National du FA



# FEDERAL MINISTRY OF ENVIRONMENT

## HEADQUARTERS, MABUSHI, ABUJA.

Ref No. FMENV/DCC/AF/15/V.1

Date: 25 July 2019

**To: The Adaptation Fund Board**  
C/O Adaptation Fund Board Secretariat  
Email: [Secretariat@Adaptation-Fund.org](mailto:Secretariat@Adaptation-Fund.org)  
Fax: 202 522 3240/5

**Subject:** Endorsement for Project "Scaling-up Climate-Resilient Rice Production in West Africa".

In my capacity, as National Designated Authority for the Adaptation Fund in Nigeria, I confirm that the above regional project proposal is in accordance with the Nigerian government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Nigeria.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory (OSS) and executed by Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) in partnership with Climate-Resilient Farming Systems Program at Cornell University, USA in collaboration with the West Africa Agricultural Transformation Programme (WAATP-Nigeria) of the Federal Ministry of Agriculture and Rural Development.

Sincerely

A handwritten signature in blue ink, appearing to read "Yerima Peter Tarfa".

Dr. Yerima Peter Tarfa  
Adaptation Fund National Designated Authority;  
UNFCCC Focal Point/Director, Department of Climate Change

République du Sénégal  
Un Peuple - Un But - Une Foi  
MINISTRE DE L'ENVIRONNEMENT  
ET DU DEVELOPPEMENT DURABLE  
DIRECTION DE L'ENVIRONNEMENT  
ET DES ETABLISSEMENTS CLASSES



N° 2253

MEDD/DEEC/DGL/

Dakar, le 29 JUL, 2019.



ADAPTATION FUND

L'Autorité Nationale Désignée  
pour le Fonds d'Adaptation

A

Le conseil d'administration du fonds d'adaptation  
c / o Secrétariat du Conseil du Fonds d'adaptation  
Email : [Secretariat@Adaptation-Fund.org](mailto:Secretariat@Adaptation-Fund.org)  
Fax : 202 522 3240/5

**Objet : Approbation pour le projet « Mise en échelle d'une riziculture résilient au climat en Afrique de l'Ouest »**

**Monsieur le Président,**

En ma qualité d'autorité désignée du Fonds d'Adaptation du Sénégal, je confirme que la proposition de projet ci-dessus est conforme aux priorités du gouvernement du Sénégal dans la mise en œuvre d'activités d'adaptation visant à réduire les effets néfastes impacts et risques du changement climatique au Sénégal.

En conséquence, je suis heureux de marquer l'intérêt du Sénégal à participer à projet.

S'il est approuvé, le projet « **Mise en échelle d'une riziculture résilient au climat en Afrique de l'Ouest** » sera mis en œuvre par le Centre Régional de Spécialisation du Riz de la CEDEAO (CRS-RIZ/IER) basé au Mali, en collaboration avec le programme Climate-Resilient Farming Systems de l'Université de Cornell, Etats Unis.

l'Agence Nationale de Conseil Agricole et Rural (ANCAR) du Ministère de l'Agriculture et de l'Equipement Rurale exécutera au niveau nationale les activités du projet.

Je vous prie d'agréer, **Monsieur le Président**, l'expression de ma considération distinguée.

Madame Dior Alioune SIDIBE



Chef de la Division Gestion du Littoral



**SIERRA LEONE GOVERNMENT**  
Environment Protection Agency-Sierra Leone  
Office of the President  
21 Old Railway Line, Freetown

**Letter of Endorsement by Government of Sierra Leone**

25<sup>th</sup> July, 2019

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

Subject: Endorsement for Project "Scaling-up Climate-Resilient Rice Production in West Africa"

In my capacity as designated authority for the Adaptation Fund in Sierra Leone, I confirm that the above West Africa Regional Project proposal is in accordance with the Sierra Leone government's priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Sierra Leone.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by the Sahara and Sahel Observatory and executed by Regional Centre for Specialization in Rice of ECOWAS, in partnership with the Sierra Leone Environment Protection Agency and the Rokupr Agricultural Research Centre.

Sincerely,



Professor Foday M. Jaward, PhD.  
Executive Chairman, EPA Sierra Leone  
Telephone: +232 76 423645  
Email: foday.jaward@epa.gov.sl  
Adaptation Fund national Designated Authority

MINISTERE DE L'ENVIRONNEMENT  
DU DEVELOPPEMENT DURABLE  
NATURE  
Patrie



REPUBLIQUE TOGOLAISE

Travail-Liberté-

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DIRECTION DE L'ENVIRONNEMENT

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POINT FOCAL AF

N° 0489 /DE /AF

Lomé, le 12<sup>3</sup> JUL 2019

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Fax: 202 522 3240/5

Subject: Endorsement for Scaling-up Climate-Resilient Rice Production in West Africa

In my capacity as designated authority for the Adaptation Fund in Togo, I confirm that the above regional project proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Togo.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by Sahara and Sahel Observatory and executed by Regional Centre for Specialization in Rice of ECOWAS in partnership with Climate-Resilient Farming Systems Program at Cornell University, US.

Sincerely,

Thiya Kohoga ESSOBIYOU  
Director of Environment

AF focal Point

