



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 ¹)
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

1. 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 capity 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 2017². 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 sorghum have seen their yield decline over the same period. These figures reflect the importance of rice production in the region³.

¹ ECOWAS: Economic Community of West African States

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

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

. 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 change³.

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.⁴

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%⁵, and up to 80%⁶ 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 5th Intergovernmental Panel on Climate Change (IPCC) assessment⁷. 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.

2. 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.

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

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

⁶ 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

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

- 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.

3. 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%.⁸ 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	<ul style="list-style-type: none"> - 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

⁸ The project results report can be accessed at 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"> - Adapted SRI, soil conservation and water management practices adopted by farmers - Targeted communities and smallholder farmers have strengthened their livelihoods through improved yields and incomes from rice - Technical rice production and sustainable land management innovations developed, tested and shared - CRRP adaptation strategies in different climate zones and rice systems monitored, analysed and results widely shared 	All 13 countries	72% or 8,450,000
3. Strengthen communication, advocacy and partnerships for scaling-up CRRP	<ul style="list-style-type: none"> - Awareness and knowledge increased about CRRP in West Africa - Support and buy-in for CRRP from policy-makers, donors and development specialists created - Synergies created through partnerships and coordination to mainstream CRRP in West Africa 	<ul style="list-style-type: none"> - Knowledge materials developed and disseminated and made available, responding to demand and need of different stakeholder groups - Web-based platform is functional, widely accessed and used - Advocacy briefs are developed and publicly available - Interaction and exchange between stakeholders is facilitated - Coalition of partners is set-up and regional partner roundtables held once a year 	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
Amount of Financing Requested				13,955,270

4. 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.⁹ 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.

⁹ 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

Benin 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
Burkina Faso Ambroise Kafando, Adaption Fund National Designated Authority, Ministère de l'Économie, des Finances et du Développement	Date: July 22, 2019
Côte d'Ivoire Oreste Santoni Akossi, Adaptation Fund National Designated Authority, Deputy Director, Climate Change Departement, Ministry of Environment and Sustainable Development	Date: July 24, 2019
Gambia Saikou K. Sanyang, Permanent Secretary, Ministry of Environment, Climate Change and Natural Resources	Date: July 26, 2019
Ghana Fredua Agyeman, Adaption Fund Designated Authority Ghana, Ministry of Environment, Science, Technology and Innovation	Date: July 24, 2019
Guinea Joseph Sylla, Adaptation Fund National Designated Authority, Focal Point of CCNUCC, Ministère de l'Environnement, des Eaux et Fôrets	Date: July 25, 2019
Liberia 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
Mali Dr Saydou Keita, Adaption Fund National Designated Authority, Ministère de l'Environnement, de l'Assainissement et du Développement Durable	Date: July 22, 2019
Niger Dr Kamaye Maazou, Secrétaire Exécutif du CNEDD, Point Focal National du FA, Cabinet du Premier Ministre, Conseil National de l'Environnement pour un Développement Durable, Secrétariat Exécutif	Date: July 25, 2019
Nigeria 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
Senegal 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
Sierra Leone 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
Togo Thiyu 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**

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Project Contact Person: **Mr. Nabil BEN KHATRA**

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ANNEXE 1 : Regional Project Executing Entities

COUNTRY	EXECUTING ENTITY
Benin	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali Climate –resilient farming systems Program at Cornell University - USA
Burkina Faso	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali Climate –resilient farming systems Program at Cornell University - USA
Côte d’Ivoire	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
Gambia	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali Climate –resilient farming systems Program at Cornell University - USA
Ghana	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
Guinea	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
Liberia	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali CHAP international Liberia
Mali	Regional Centre for Specialization in Rice of ECOWAS (CRS-RIZ/IER) - Mali
Niger	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)
Nigeria	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
Senegal	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
Sierra Leone	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
Togo	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



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

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Letter of Endorsement by Government of Benin

Cotonou, 22th 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
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

**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° **0119** MINEEDD/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
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)

26th July, 2019

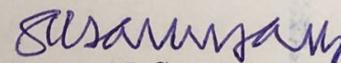
The Adaptation Fund Board
c/o Adaptation Fund Board Secretariat
email: Secretariat@Adaptation-Fund.org
Fax: 202 522 3240/5

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

In my capacity as designated authority for the Adaptation Fund in 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: ...*MA/006/02/1.2*
Tel: 0302 - 666 049
Fax: 0302 - 688 913/ 688 663
E-mail: info@mesti.gov.gh
Website: 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@ ADATATION FUND.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 FORETS

DIRECTION NATIONALE DE L'ENVIRONNEMENT

CONVENTION CADRE DES NATIONS UNIES
SUR LES CHANGEMENTS CLIMATIQUES

Conakry, 25/07/ 2019



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



Republic of Liberia

**ENVIRONMENTAL PROTECTION AGENCY
NATIONAL CLIMATE CHANGE SECRETARIAT**



Office of the National Coordinator

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





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

A handwritten signature in blue ink, appearing to read "Seydou Keita", written over a horizontal line.

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

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CABINET DU PREMIER MINISTRE

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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

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° 253

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
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

25th 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-

DIRECTION DE L'ENVIRONNEMENT

POINT FOCAL AF

N° 0489 /DE /AF

Lomé, le 12 13 JUIL 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,

A handwritten signature in blue ink, appearing to read "Kohoga" followed by a flourish.

Thiyou Kohoga ESSOBIYOU
Director of Environment

AF focal Point

