



ADAPTATION FUND

AFB/PPRC.18/22
3 March 2016

Adaptation Fund Board
Project and Programme Review Committee
Eighteenth Meeting
Bonn, Germany, 15-16 March 2016

Agenda Item 8 g)

PROPOSAL FOR BENIN, BURKINA FASO, GHANA, NIGER 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. In 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. In 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. 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.

8. The following project pre-concept document titled “Promoting Climate-Smart Agriculture in West Africa” was submitted by the *Banque Ouest Africaine de Développement* (BOAD; West African Development Bank), which is a Regional Implementing Entity of the Adaptation Fund.

9. This is the second submission of the project, using the three-step approval process established for regional projects. It was first submitted to the twenty-sixth meeting of the Board, and the Board decided to:

- (a) Endorse the project pre-concept, as supplemented by the clarification response provided by the Banque Ouest Africaine de Développement (BOAD) to the request made by the technical review;*
- (b) Request the secretariat to transmit to BOAD the observations in the review sheet annexed to the notification of the Board’s decision, as well as the following issues:*
 - (i) The concept should elaborate on the linkages of the proposed project with national and regional initiatives and programmes in the same region and sectors, and explain how it avoids duplication and is complementary with them. In doing so the concept should reflect the potential*

complementarity with the fully-developed project document for Niger submitted by BOAD for consideration by the Board;

- (ii) The concept should further elaborate the added value of the regional approach in the project;*
- (iii) The concept should further explain how national institutions would contribute to or participate in the mainstreaming of innovative practices developed by this project;*
- (iv) The concept should explain how knowledge developed under the project could contribute to building up of adaptation knowledge at the international and regional levels, including through existing international and regional knowledge platforms; and*
- (c) Approve the Project Formulation Grant of US\$ 20,000;*
- (d) Request BOAD to transmit the observations under item (b) to the Governments of Benin, Burkina Faso, Ghana, Niger, and Togo; and*
- (e) Encourage the Governments of Benin, Burkina Faso, Ghana, Niger, and Togo to submit through BOAD a project concept that would also address the observations under item (b) above.*

(Decision B.26/20)

10. The current submission was received by the secretariat in time to be considered in the twenty-seventh Board meeting. The secretariat carried out a technical review of the project proposal, with the diary number AFR/RIE/Food/2015/1, and completed a review sheet.

11. Together with the project concept, BOAD submitted a Project Formulation Grant (PFG) Request with a budget of US\$ 80,000, which was found to be in compliance with the pilot programme for regional projects and programmes as contained in document AFB/B.25/6/Rev.2 approved through Decision B.25/28. The PFG request is attached as an addendum to this document.

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

13. The secretariat received on 4 February 2016 comments regarding the proposal, sent by the Adaptation Fund NGO Network, on behalf of Mawusé Hountondji Kodjo, ONG JVE Benin. The secretariat considered these comments as reference when conducting the technical review of the proposal. In accordance with Decision B.18/24 (b), which required that such comments be made publicly available on the Adaptation Fund website, they were posted together with the project proposal, after confirming with author that there was no objection to doing so, and added as an annex to the present document.

14. 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, a response table is also attached, explaining where and how the observations made by the Board when considering the project pre-concept in the twenty-sixth meeting had been addressed by the proponent in the current submission. The proposal is submitted with changes between the initial submission and the revised version highlighted.

Project Summary

Benin, Burkina Faso, Ghana, Niger and Togo – Promoting Climate-Smart Agriculture in West Africa

Implementing Entity: *BOAD*

Project/Programme Execution Cost: US\$ 868,000

Total Project/Programme Cost: US\$ 12,868,000

Implementing Fee: US\$ 1,132,000

Financing Requested: US\$ 14,000,000

Project Background and Context:

The overall objective of the project is to contribute to developing climate-smart agriculture in West Africa especially in terms of adaptation in order to strengthen the resilience of vulnerable populations. This would be done through: (i) dissemination of innovative and regional agricultural best practices related to climate change adaptation; (ii) mainstreaming innovative agricultural best practices related to climate change adaptation in strategies/policies/projects at national and regional levels; and (iii) management of knowledge on agricultural best practices related to climate change adaptation in agriculture within a transboundary zone with agro-ecological coherence in terms of vulnerability.

Component 1: Dissemination of best practices related to climate change adaptation in agriculture at local level. (US\$ 9,500,000)

This component would improve climate change and risk adaptation techniques and practices and lead to their adoption by producers in the selected agroecological zone. This would be achieved by producing and disseminating to users climate services (agroclimatic, meteorological information, seasonal forecast, etc.) adapted to the needs of each category of producers (producers and technicians and extension services). A catalogue of existing climate change and variability adaptation expertise, techniques and practices in the target sites would be completed and a database of best practices would be made available at the regional level. Dissemination and upscaling at regional level of innovative agricultural best practices for climate risks adaptation would be improved and adopted by actors of the value chains at the regional level.

Component 2: Mainstreaming agricultural best practices related to climate change adaptation in strategies/policies/projects (US\$ 1,150,000)

This component would mobilize increased resources and allocate them to the dissemination of innovative best practices related to adaptation to climate change. This would be achieved by strengthening the technical capacity of a critical mass of field operators (NGOs, cooperatives, extension services) to promote innovation and agricultural best practices related to climate change adaptation, and by strengthening the technical capacity of national and regional managers and experts in charge of designing and implementing projects and programmes, in order to mainstream best practices related to adaptation to climate change and to mobilize international climate finance. It would also implement and strengthen synergies and complementarities between regional and national projects on innovative best practices related to adaptation to climate change, through strengthening transboundary collaboration for the adaptation of agriculture to climate change is strengthened.

Component 3: Management of knowledge on agricultural best practices related to climate change adaptation (US\$ 500,000)

This component would strengthen and disseminate knowledge on agricultural best practices related to climate change adaptation. It would be achieved by establishing and operationalizing a network of exchange between stakeholders of agriculture adaptation, including public agencies, local communities, private organizations and NGOs in Niger, Benin, Togo, Ghana and Burkina Faso, and through producing and disseminating newsletters and journals to capitalize on the climate change adaptation in agriculture activities.



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regional Project Concept

Countries/Region: **Benin, Burkina Faso, Ghana, Niger, Togo**
 Project Title: **Promoting Climate-Smart Agriculture in West Africa**
 Thematic Focal Area: **Food security**
 Implementing Entity: **West African Development Bank (BOAD)**
 Executing Entities: **ECOWAS Regional Agency for Agriculture and Food (RAAF/ECOWAS) in collaboration with
Directions in Charge of environment in the 5 countries**

AF Project ID: **AFR/RIE/Food/2015/1**
 IE Project ID: Requested Financing from Adaptation Fund (US Dollars): **14,000,000**
 Reviewer and contact person: **Mikko Ollikainen** Co-reviewer(s): **Daouda Ndiaye**
 IE Contact Person: **Fatoumata Toure Sangare**

Review Criteria	Questions	Comments on 1 February 2016	Comments on 22 February 2016
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	Yes.	

	countries endorsed the project/programme?		
	2. Does the regional project / programme support concrete adaptation actions to assist the participating countries in addressing the adverse effects of climate change and build in climate resilience, and do so providing added value through the regional approach, compared to implementing similar activities in each country individually?	<p>Generally, yes. However, the multiple and diverse planned activities may risk the project spreading its resources too thin. CR1: Please consider and if necessary simplify the project design. Given that a number of other initiatives intersecting agriculture and adaptation are taking place in the region already, it would be important to explain what the gaps are that each activity is aiming to fill. CR2</p> <p>For the activity related to capitalizing on research it is not clear whether the project would finance research or only build on results from research funded by other sources. CR3</p> <p>The Adaptation Fund Board noted, when endorsing the pre-concept for the proposed project: "The concept should further elaborate the added value of the regional approach in the project." The current concept proposal has included further reasoning for this, even though it could be strengthened. CR4</p> <p>CR5: Please briefly explain the context of the proposed project in the participating regions of each of the five countries, in terms of demographics, economy and agricultural livelihoods, especially highlighting similarities and differences among those regions in these respects.</p> <p>CR6: The proposal mentions in section</p>	<p>CR1: Addressed. The project design has been somewhat simplified.</p> <p>CR2: Not adequately addressed. The section of the proposal focuses on explaining what the project is planned to do but it does not refer to the gaps, i.e. the needs for such activities in the status quo, and how the project would change the situation.</p> <p>CR3: Obsolete – the activity has been removed.</p> <p>CR4: Somewhat addressed. The focus on the regional approach is on knowledge, best practices and training but there are also true transboundary issues such as cross-border herding.</p> <p>CR5: Addressed sufficiently to the concept stage.</p> <p>CR6: Addressed sufficiently to the concept</p>

		2.3 (p. 27) that Component 1 would include a grant facility, however, the component description has not mentioned how this would function. Please clarify.	stage.
	3. Does the project / programme provide economic, social and environmental benefits, particularly to vulnerable communities, including gender considerations, while avoiding or mitigating negative impacts, in compliance with the Environmental and Social Policy of the Fund?	Yes. However, please explain how the project benefits would be distributed in an equitable manner to vulnerable communities, households and individuals. In target areas where minority groups and indigenous communities have been identified, please outline particular benefits provided by the project to those groups. CR7	CR7: Addressed sufficiently to the concept stage.
	4. Is the project / programme cost-effective and does the regional approach support cost-effectiveness?	Yes. Please further clarify how the selected project design supports cost-effectiveness from the sustainability point of view. CR8	CR8: Addressed sufficiently to the concept stage.

	5. Is the project / programme consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments? If applicable, it is also possible to refer to regional plans and strategies where they exist.	Potentially. CR9: Please briefly explain how the project would be aligned with the identified strategies and plans. Please also include poverty reduction and food security related strategies and plans where those exist.	CR9: Partly addressed. The country specific plans have not been outlined.
	6. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund?	Requires clarification. CR10: Please identify the specific technical standards that would apply to the project in each of the participating countries. Please note that it is not sufficient that the standards “will be taken into account” – the project must comply with them. CR11: Please also note that in line with the Environmental and Social Policy of the Adaptation Fund, as a general rule impact assessments have to be completed before the submission of the fully-developed project document. In all cases where there are environmental or social risks, an environmental and social	CR10: Addressed sufficiently to the concept stage.

		management plan has to be prepared before submission of the fully-developed proposal.	
	7. Is there duplication of project / programme with other funding sources?	Not addressed. The Adaptation Fund Board noted, when endorsing the pre-concept for the proposed project: "The concept should elaborate on the linkages of the proposed project with national and regional initiatives and programmes in the same region and sectors, and explain how it avoids duplication and is complementary with them. In doing so the concept should reflect the potential complementarity with the fully-developed project document for Niger submitted by BOAD for consideration by the Board." The current concept proposal has not done so, instead it states that it would "be carried out at the stage of drafting the full proposal of the project". Even at the project concept stage, all relevant potentially overlapping projects / programmes need to be identified, and lack of overlap / complementarity stated in a logical manner. CR12	CR12: Addressed. The other projects are presented under the section "Project's added value and synergy in relation to other initiatives in the country".
	8. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	Yes. However, recalling that the Adaptation Fund Board noted, when endorsing the pre-concept for the proposed project that "the concept should explain how knowledge developed under the project could contribute to building up of adaptation knowledge at the international and regional levels, including through existing international and regional knowledge platforms", the current concept does not	CR13: Mostly addressed. The revised proposal has identified a number of potential

		clearly identify existing international and regional knowledge platforms that it could contribute to. CR13.	platforms, though it remains slightly ambiguous as to whether it would contribute to them.
	9. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable groups, including gender considerations?	A consultative process has taken place but it has not involved all key stakeholders. For a project that is meant to address the needs of the local communities, their representatives need to be consulted. It is not clear whether this has happened in Ghana and Togo. CR14: Please clarify whether communities in Ghana and Togo have been consulted, in order to ensure alignment with community views. Please clarify the different types of organizations that were consulted. In project/programme target areas where minority groups and indigenous peoples have been identified, they should be consulted at the concept stage and their interests or concerns taken into account when designing the proposal.	CR14: Not addressed. Based on the information provided, the proponent has not conducted consultations at the community level in Ghana and Togo.
	10. Is the requested financing justified on the basis of full cost of adaptation reasoning?	Not addressed. CR15: Please justify the requested financing on the basis of full cost of adaptation reasoning. Please refer to the document "Instructions for Preparing a Request for Project of Programme Funding from the Adaptation Fund".	CR15: Mostly addressed.
	11. Is the project / program aligned with AF's results framework?	Yes, broadly.	
	12. Has the sustainability of the project/programme	Not addressed. CR16: Please briefly explain the continuation or maintenance of the project activities after the end of	CR16: Addressed sufficiently for the concept stage.

	outcomes been taken into account when designing the project?	the project, primarily from the institutional and financial perspective.	
	13. Does the project / programme provide an overview of environmental and social impacts / risks identified?	Not adequately addressed. While a response checklist is filled in, it does not provide written justification for each of the principles of the Environmental and Social Policy of the Adaptation Fund. Please refer to the Policy and to the related guidance document. CR17	<p>CR17: Not addressed. The environmental and social risk category of the proposed project has not been determined in accordance with the Environmental and Social Policy to the Adaptation Fund (ESP). It is explained, under section 2.5, that “Based on the BOAD policies, environmental and social impact assessment [must] be carried out for all projects at instruction stage of project. The proposal project will be submitted to the environmental and social impact evaluation and the environmental and social management plan will be design in collaboration with key stakeholders before submission of the fully developed project document.”</p> <p>Also, the screening of potential risks within the 15 principles of the ESP should be more robust, for example but not exclusively:</p> <ul style="list-style-type: none"> - Under Access and Equity, it is unlikely that there are no risks related to the fairness and impartiality of the process of allocating access to resources. - Under Marginalized and vulnerable groups, it is unlikely that there may not be any potential risk to impose any disproportionate adverse impacts on marginalized and vulnerable groups including children, women and girls, the elderly, indigenous people, tribal groups,

			<p>displaced people, refugees, people living with disabilities, and people living with HIV/AIDS. Also, in screening the proposed project, the implementing entities must assess and consider particular impacts on marginalized and vulnerable groups.</p> <ul style="list-style-type: none"> - Under Gender Equity and Women's Empowerment, it is unlikely that further analysis, as part of the ESIA referred to above, would not be necessary to ensure that women and men will be able to participate fully and equitably in the project and both will receive comparable social and economic benefits. - Under Involuntary Resettlement, it is not clear whether the conflict between farmers and herders and the solutions proposed project may not lead to involuntary economic displacement.
	14. Does the project promote new and innovative solutions to climate change adaptation, such as new approaches, technologies and mechanisms?	Possibly but this information is not provided in a focused manner. CR18: Please clarify the innovativeness of the proposed project.	CR18: Mostly addressed.
Resource Availability	1. Is the requested project / programme funding within the funding windows of the pilot programme	Yes.	

	for regional projects/programmes?		
	2. 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?	Yes.	No. Following budget changes made since the initial submission, the administrative costs, including project cycle management fee and execution costs (incl. M&E) is above the limit of 20 per cent.
Eligibility of IE	3. Is the project/programme submitted through an eligible Multilateral or Regional Implementing Entity that has been accredited by the Board?	Yes.	

Implementation Arrangements	1. Is there adequate arrangement for project / programme management at the regional and national level, including coordination arrangements within countries and among them? Has the potential to partner with national institutions, and when possible, national implementing entities (NIEs), been considered, and included in the management arrangements?	n/a (Not required at Project Concept stage). It is noted that the proponent has addressed the observation made by the Adaptation Fund Board when endorsing the pre-concept for this project, that the “concept should further explain how national institutions would contribute to or participate in the mainstreaming of innovative practices developed by this project”.	
	2. Are there measures for financial and project/programme risk management?	n/a (Not required at Project Concept stage).	

	3. Are there measures in place for the management of for environmental and social risks, in line with the Environmental and Social Policy of the Fund? Proponents are encouraged to refer to the Guidance document for Implementing Entities on compliance with the Adaptation Fund Environmental and Social Policy, for details.	n/a (Not required at Project Concept stage). Please note the comment above about developing an ESMP before the fully-developed project document is submitted for approval.	
	4. Is a budget on the Implementing Entity Management Fee use included?	n/a (Not required at Project Concept stage).	
	5. Is an explanation and a breakdown of the execution costs included?	n/a (Not required at Project Concept stage).	
	6. Is a detailed budget including budget notes included?	n/a (Not required at Project Concept stage).	

	7. Are arrangements for monitoring and evaluation clearly defined, including budgeted M&E plans and sex-disaggregated data, targets and indicators?	n/a (Not required at Project Concept stage).	
	8. Does the M&E Framework include a break-down of how implementing entity IE fees will be utilized in the supervision of the M&E function?	n/a (Not required at Project Concept stage).	
	9. Does the project/programme's results framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?	n/a (Not required at Project Concept stage).	
	10. Is a disbursement schedule with time-bound milestones included?	n/a (Not required at Project Concept stage).	

Technical Summary	The overall objective of the project is to contribute to developing climate-smart agriculture in West Africa especially in terms of adaptation in order to strengthen the resilience of vulnerable populations. The specific objectives are 1) the dissemination of best practices, 2) the mainstreaming of climate change adaptation in agriculture in strategies, plan and projects and 3) the knowledge management related to climate
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change adaptation in agriculture within a transboundary zone with agro-ecological coherence in terms of vulnerability.

The initial technical review found that while the proposal had developed considerably from the pre-concept stage in a relatively short time, several areas that required further clarification remained:

CR1: Please consider and if necessary simplify the project design.

CR2: Please clarify what the gaps left by the numerous other initiatives intersecting agriculture and adaptation taking place in the region are, that each activity of the proposed project is aiming to fill.

CR3: For the activity related to capitalizing on research, please clarify whether the project would finance research or only build on results from research funded by other sources.

CR4: Please strengthen the reasoning for the added value of the regional approach in the project.

CR5: Please briefly explain the context of the proposed project in the participating regions of each of the five countries, in terms of demographics, economy and agricultural livelihoods, especially highlighting similarities and differences among those regions in these respects.

CR6: The proposal mentions in section 2.3 (p. 27) that Component 1 would include a grant facility, however, the component description has not mentioned how this would function. Please clarify.

CR7: Please explain how the project benefits would be distributed in an equitable manner to vulnerable communities, households and individuals. In target areas where minority groups and indigenous communities have been identified, please outline particular benefits provided by the project to those groups.

CR8: Please further clarify how the selected project design supports cost-effectiveness from the sustainability point of view.

CR9: Please briefly explain how the project would be aligned with the identified strategies and plans. Please also include poverty reduction and food security related strategies and plans where those exist.

CR10: Please identify the specific technical standards that would apply to the project in each of the participating countries. Please note that it is not sufficient that the standards “will be taken into account” – the project must comply with them.

CR11: Please also note that in line with the Environmental and Social Policy of the Adaptation Fund, as a general rule impact assessments have to be completed before the submission of the fully-developed project document. In all cases where there are environmental or social risks, an environmental and social management plan has to be prepared before submission of the fully-developed proposal.

CR12: Please identify all relevant potentially overlapping projects / programmes and state lack of overlap / complementarity in a logical manner.

CR13: Please clearly identify existing international and regional knowledge platforms that the project could contribute to.

CR14: Please clarify whether communities in Ghana and Togo have been consulted, in order to ensure alignment with community views. Please clarify the different types of organizations that were consulted. In project/programme target areas where minority groups and indigenous peoples have been identified, they should

	<p>be consulted at the concept stage and their interests or concerns taken into account when designing the proposal.</p> <p>CR15: Please justify the requested financing on the basis of full cost of adaptation reasoning. Please refer to the document “Instructions for Preparing a Request for Project of Programme Funding from the Adaptation Fund”.</p> <p>CR16: Please briefly explain the continuation or maintenance of the project activities after the end of the project, primarily from the institutional and financial perspective.</p> <p>CR17: Together with the response checklist, please provide written justification for each of the principles of the Environmental and Social Policy of the Adaptation Fund. Please refer to the Policy and to the related guidance document.</p> <p>CR18: Please clarify the innovativeness of the proposed project.</p> <p>The final technical review found that the revised proposal had sufficiently addressed many of the clarification requests made by the initial review. However, some areas remained, where further clarification is necessary:</p> <ul style="list-style-type: none"> - Given that a number of other initiatives intersecting agriculture and adaptation are taking place in the region already, the concept should better explain what the gaps are that each proposed activity is aiming to fill. - The proposal should briefly explain how the project would be aligned with the identified climate change adaptation and sustainable development related strategies and plans in each country. - It appears the proponent has not conducted any consultations at the community level in two countries, Ghana and Togo for the purposes of this proposed project – it is necessary to do so even at the concept stage, and reflect the outcomes of the consultations in the proposal. - The proponent should conduct a more robust environmental and social risk screening, in light of the Adaptation Fund Environmental and Social Policy, and assign the project a risk category. - The proponent should revise administrative costs of the proposal so that they remain below the limit of 20 per cent set for regional projects and programmes.
Date:	22 February 2016



ADAPTATION FUND

**REQUEST FOR PROJECT/PROGRAMME
FUNDING FROM THE ADAPTATION FUND**

**« PROMOTING CLIMATE-SMART
AGRICULTURE IN WEST AFRICA »**

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

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

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

Complete documentation should be sent to:

The Adaptation Fund Board Secretariat
1818 H Street NW
MSN P4-400
Washington, D.C., 20433
U.S.A.
Fax: +1 (202) 522-3240/5
Email: afbsec@adaptation-fund.org



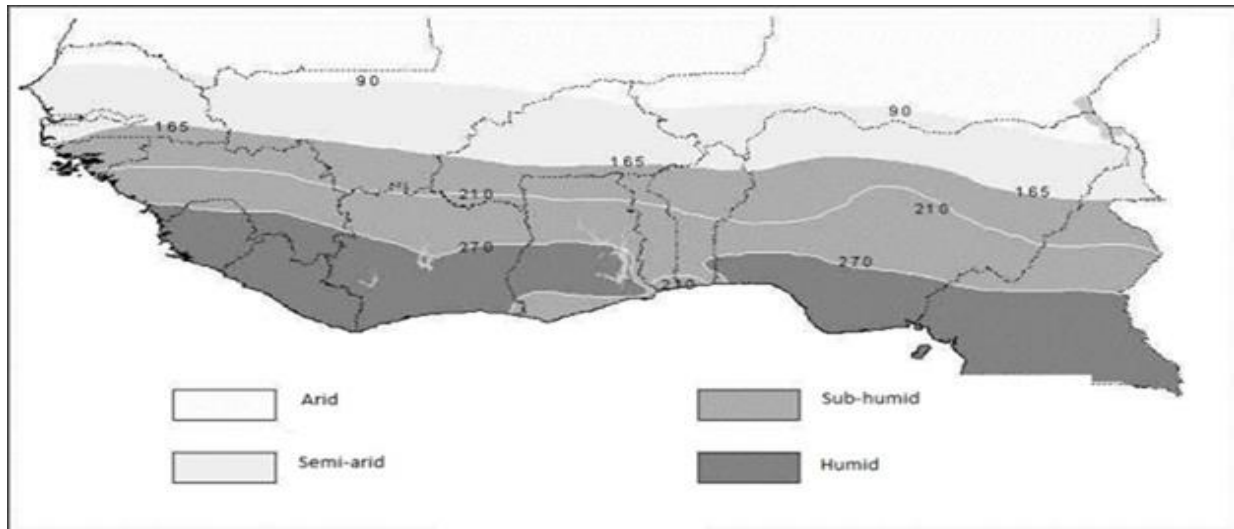
ADAPTATION FUND

PROJECT/PROGRAMME PROPOSAL TO THE ADAPTATION FUND**PART I: PROJECT/PROGRAMME INFORMATION**

Project/Programme Category: Food Security
Countries: Five (05) Economic Community of West African States (ECOWAS) Member Countries: Benin, Burkina Faso, Ghana, Niger and Togo
Title of Project: Promoting Climate-Smart Agriculture in West Africa
Type of Implementing Entity: Regional Implemented Entity
Implementing Entity: UEMOA's West African Development Bank (BOAD)
Executing Entity: ECOWAS Regional Agency for Agriculture and Food (RAAF) in collaboration with Directorates in Charge of Environment, Agriculture, and Livestock in the 5 countries indicated above
Amount of Financing Requested: US\$14 Million

1.1. PROJECT / PROGRAMME BACKGROUND AND CONTEXT

In West Africa, based on the amount of rainfall received annually, there are four agroecological zones: The arid or Sahelian zone (50% of the surface area), the semi-arid or Sudanian zone (20%), the sub-humid or Guinean zone (20%) and the humid or forest zone (10%) representing about 5 million km² (see map below)¹.

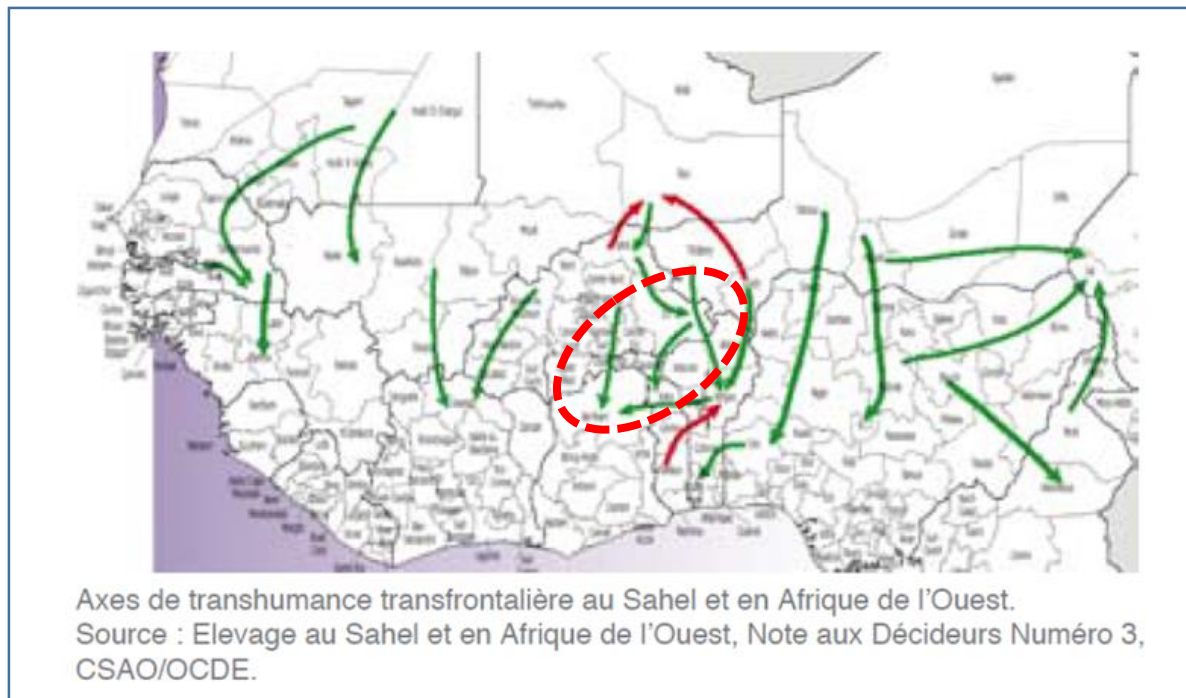


¹ FIDA (2001). L'évaluation de la Pauvreté Rural – Africa de L'ouest et du Centre. Rome, Italy.

According to the World Bank², agriculture, livestock and fisheries represent 35% of the Regional Gross Product, employ 65% of the active population and provide 80% of the food needs of the 290 million people living in the ECOWAS region. Livestock production represents up to 40% of the Domestic Gross Product and pastoralism provides 50% of the meat and 70% of the milk³.

West Africa is a region conducive to the increase of agricultural production due to the availability of arable land, pastures and groundwater. Considered as the engine of economic growth in the ECOWAS region, agriculture is faced with major development challenges including being able to produce sufficiently to feed its 300 million inhabitants in a context marked by poor yields (less than 3 tons/ha for rice against 6 tons/ha in Asia), a limited use of fertilizers (in average 10 kg/ha against 100 kg/ha in Asia), a high demographic growth rate (between 2.2% to 3.6% per year depending on the country) and a very limited use of irrigation⁴.

With its agroecological diversity, West Africa offers great potentials for increasing animal production. In the arid areas, pastoral and agro-pastoral livestock production systems are dominant. However, they are drought-vulnerable. In the semi-arid zones, the prevailing systems are pastoral and agro-pastoral as well as periurban livestock production systems that are vulnerable to drought, floods and bushfires.



² World Bank. West Africa Unites to Improve Agricultural Competitiveness and Productivity. <http://www.worldbank.org/en/news/feature/2011/05/25/west-africa-unites-to-improve-agricultural-competitiveness-and-productivity> (accessed 8/14/2013)

³ ECOWAS-SWAC/OECD (CEDEAO-CSAO/OCDE/CILSS). 2008 - Climate and Climate Change. The Atlas on Regional Integration in West Africa. Environment Series. Version française. <http://www.oecd.org/swac/publications/38903590.pdf>

⁴ ECOWAS. 2013. Adaptation to Climate change in agriculture in West Africa

In the subhumid and humid zones, it is rather the mixed farming/livestock systems and the periurban livestock production systems which are the most developed and they are also vulnerable to floods, bushfires and vector-borne diseases, especially Trypanosomiasis. With over 60 million cattle heads and 160 million small ruminants and a high demand for animal products – mainly in coastal countries livestock represents a major leverage in eradicating poverty. Moreover, animal productions contribute to improving food and nutrition among populations through the inclusion of animal proteins in daily diets.

Climate change and variability are an added challenge for West African agriculture's capacity to produce enough food and maintain or increase its economic relevance in the region. Indeed, agriculture in West Africa is mainly rainfed and therefore highly sensitive to temperature and rainfall changes and variations. Even if the region has great potential in terms of irrigable land, this asset is not sufficiently enhanced. To illustrate, only 5% of the Sahel's potential is irrigated. In addition, farming communities in West Africa are especially vulnerable to the impacts of climate changes, notably due to the small size of their farms. In average, the surface cultivated by inhabitant is under 3 ha and this limits the possibility of adapting to the various climate conditions.

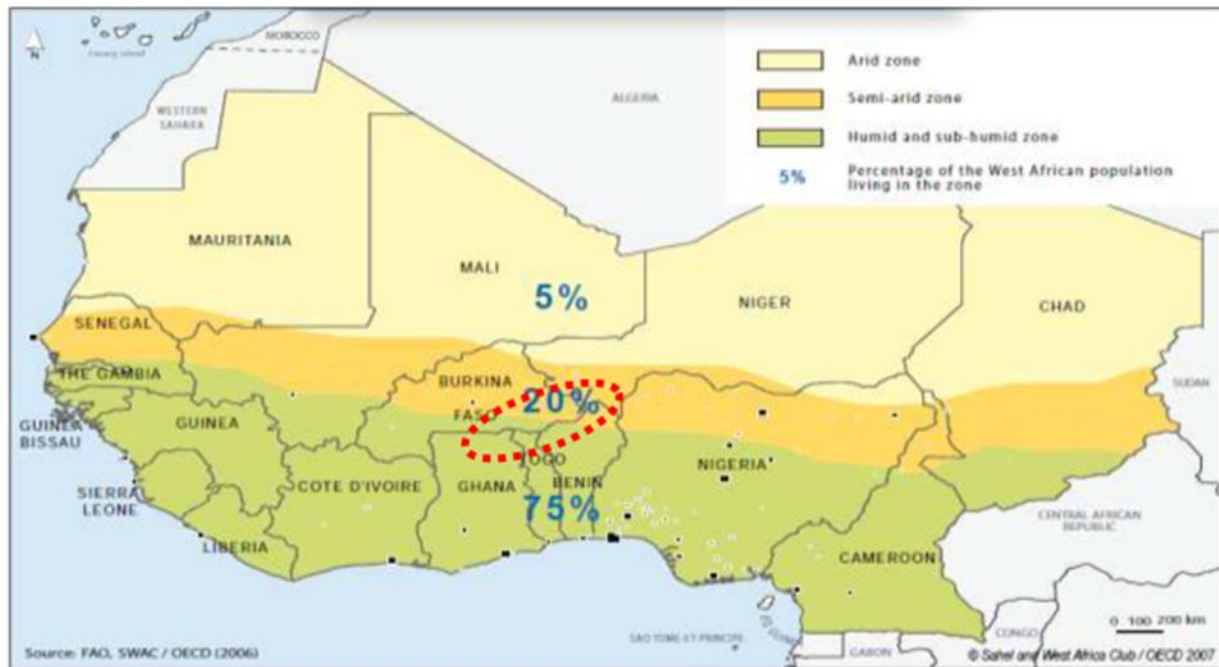
In spite of this context and other structural challenges (poor transport and marketing infrastructures, land tenure issues, etc.), as well as climate changes, public investments in agriculture remain low. However, the last decade was marked by an awareness of the relevance of agriculture and its crucial role in eradicating poverty and food and nutritional insecurity.

Yet, it is estimated that if agriculture does not adapt to climate change and variability (CC) and technological advances, its main crops' (millet, sorghum, cowpea, maize) yields will experience a 5 to 22% drop by 2050 depending on the type of crop and climate models. This would translate into the increased exposure of over 200 million people in West Africa (WA) to hunger and food insecurity, especially for the most vulnerable groups (women and children). This vulnerability is all the more acute in agroecological transition areas where climate changes associated with the joining and juxtaposition of various administrative, political and social realities hinder the implementation of efficient, coordinated and coherent initiatives for the adaptation of agro-sylvo-pastoral activities. The peculiarities of these strategic areas in terms of economic (goods, livestock, etc.) and demographic flows require region-wide approaches to meet this challenge.

In view of this situation, the ECOWAS and UEMOA Member States and their technical and financial partners in the agricultural sector, met in Bamako, Mali, in June 2015 and committed to work at implementing Climate-Smart Agriculture (CSA) in WA. More specifically, an Alliance on climate-smart agriculture in West Africa was created to incite households to adopt the practices with the vision of reaching 25 million farming households in Africa by 2025. This type of agriculture i) is adapted to the new climate constraints; (ii) ensures food and nutrition security; (ii) sustainably protects the environment, thus reducing agriculture-induced emissions.

This project fits into the implementation of the ECOWAS and UEMOA agricultural policy and the 2014 Malabo Declaration in which African Heads of States undertook to intensify agriculture to ensure food security. This project contributes to the operationalization of major commitments made by ECOWAS and UEMOA for the development of agriculture in the context of climate

change in their member countries. It will be implemented in an area covering the northern part of Ghana, Togo and Benin, the South-West of Niger and the South-East of Burkina Faso.



ISSUE OF CLIMATE CHANGE AND FOOD INSECURITY IN WEST AFRICA

In West Africa (WA), climate change is manifested through various facts like change in conditions related to production, planning and execution of agricultural activities. These include among others: (i) shifts in climate calendars (delayed rains for example); (ii) changes in rainfall patterns, especially the annual precipitations received, with, in most regions, more pronounced and more or less frequent dry spells; (iii) the increased frequency of extreme and abnormal events (storms, floods, abnormally high temperatures, etc.); (iv) finally, a high variability of time and space everywhere at local level⁵ of the climatic parameters.

The impact of these climatic developments is all the more strong since family farming in the ECOWAS states is subject to other environmental changes: i) fertility degradation; ii) deforestation and erosion of biodiversity, (iii) inclusion in a market economy and liberalization with competitiveness requirements, iv) disadvantaged position in accessing resources (land, production inputs, technology, etc.), but also financing issues.

These climate changes affect the farming community, the capital of farms and their yields (less productive livestock and crop systems), but also the collective dynamics, contributing to exacerbate the vulnerability of the poorest inhabitants in rural areas, especially women and children. The decline in yield (livestock and crop systems), the impossibility to bring in to bear traditional risk management mechanisms and the high uncertainty weaken the systems and

⁵ *Etude de capitalisation réalisée sur les terrains de coopération d'AVSF*, Marie-Josèphe Dugué, 2012

induce short-term strategies that are often detrimental to the economic sustainability of farms, ecosystems, social cohesion and, indirectly, the security situation.

In view of the effects of climate change, pastoralism in particular as a livestock production system based on the mobility of pastoralists and livestock, is increasingly constrained, notably by the drying off and decline in the nutritive quality of plants, the increased competition with agriculture, the reduced pastures, the occupation of routes, etc.

Consequently, the impacts on agriculture (in the large sense), food and nutrition security and the welfare of farming and rural communities are many. They have been initiated for several decades now in many West African countries, are accelerating and increasingly worsening. In economic terms, according to IFPRI⁶, they are generally of two types:

- Direct impacts on the productivity of family farms in plant and livestock productions and ;
- Indirect impacts on the availability of foodstuff on the national and international markets with consequences on the income generated by agriculture at State and farm levels.

In spite of some very limited positive impacts related to climate changes in some regions for some crops yield (maize, rice, etc.), climate changes will contribute to increasing food and nutrition insecurity in West Africa where about 34 million individuals, mostly women and children, are undernourished (SOFI, 2015).

Therefore, it is urgent to strengthen the actions that aim to support farmers in adapting their traditional knowledge and agricultural practices, and in strengthening the resilience of rural communities in order to also protect fragile ecosystems against future climate changes, especially in agroecological transition zones⁷.

CLIMATE VARIABILITY/CHANGE AND TRENDS IN WEST AFRICA

According to the 5th Evaluation Report by the Intergovernmental Panel on Climate Change (IPCC), temperatures observed in West Africa have increased over the past 50 years. It was noted that the number of cold days and nights has dropped and that the number of hot days and nights have increased between 1970 and 2010⁸.

Precipitations in the Sahel have generally decreased during the 20th century but have returned to their former level recorded in the 80s and 90s. This increase could be due to the natural variability of the climate or to anthropically-induced climate change. Several droughts observed in the Sahel during the 1970s and 1980s were well documented.

Regarding the extreme events observed, a significant increase of temperature on hotter and colder days was observed in some parts of West Africa. Even though little information is available to identify the trends, this implies an increase of the frequency of hot days in the future. It was

⁶ West African agriculture and climate change : a comprehensive analysis / edited by Abdulai Jalloh *et al.* 2013

⁷ *Changements climatiques en Afrique de l'Ouest : risques pour la sécurité alimentaire et la biodiversité*, OFEDI et GRAIN, 2009

⁸ GIEC 2014

also observed an increase in the drought periods in West Africa even though the 1970 drought in the Sahel dominates this trend. A higher inter-annual variability has also been observed more recently.

CLIMATE CHANGE PROJECTION IN WEST AFRICA

According to the IPCC⁹, temperatures in West Africa will increase by 3°C and 6°C by the 21st Century based on the various scenarios. Models at regional level converge with the shift range indicated by global models. Whatever the scenarios, the Sahel and West Africa should be climate change hotspots (“bio-geographical zones with a wealth of biodiversity especially threatened by human activity”). Projections indicate that unprecedented climate changes will happen in this region by the end of the 2030s and the beginning of the 2040s.

Regarding projected precipitations, variations in the results of global models mean that confidence in the robustness of projections of changes in regional precipitations is “low to medium” in view of the lack of regional data. However, several global models indicate that the seasons of heavy rains are marked by delays in the beginning of the season by the end of the 21st Century.

The projection related to extreme events show that the risks of drought are inconsistent for West Africa. The results of the regional modelling however suggest an increase in intensity and frequency of extreme precipitation episodes, especially in highlands and mountain areas.

CLIMATE CHANGE IMPACT ON AGRICULTURE AND WATER RESOURCES IN WEST AFRICA

Agricultural production systems (multicropping and livestock production) in West Africa are among the most vulnerable in the world due to their reliance on rainfall, intra and interseasonal climate variability, droughts and floods that repeatedly affect crops and livestock and, the level of poverty in rural areas which restricts the adaptation capacity of farming and rural communities (Boko *et al.*, 2007)¹⁰. Farming in West Africa will be faced with major challenges, namely the decline of main crops’ yields (IPCC, 2014)¹¹. The changes in cropping seasons will also affect production systems and crop potentials in some areas (Cook and VIZY, 2012)¹². “Multicropping-livestock” systems could also evolve towards the preeminence of extensive livestock production due to shorter rainy seasons and the occurrence and succession of unfruitful farming seasons (Jones

⁹ IPCC WGII AR5 Chapter 22, 2014

¹⁰ Boko, M., I. Niang, A. Nyong, C. Vogel, A. Githeko, M. Medany, B. Osman-Elasha, R. Tabo, and P. Yanda, 2007: Africa. In: *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. [Parry, M.L., O.F. Canziani, J.P. Palutikof, P.J. van der Linden, and C.E. Hanson (eds.)]. Cambridge University Press, Cambridge, UK, pp. 433-467.

¹¹ IPCC WGII AR5 Chapter 22, 2014

¹² Cook, K.H. and E.K. Vizy, 2012: Impact of climate change on mid-twenty-first century growing seasons in Africa. *Climate Dynamics*, 39(12), 2937-2955.

and Thornton, 2009; Thornton *et al.*, 2010)¹³. In several agroecological transition zones, livestock production could replace multicropping by the year 2050 (Jones and Thornton, 2009)¹⁴.

In West Africa, temperature spikes higher than 2°C (based on a 1961-1990 reference) could also negatively affect the performance of modern cereal varieties contrary to the rustic traditional varieties (Sultan *et al.*, 2013)¹⁵. In the short-term, an improved understanding and management of the impacts associated to climate change and variability could contribute significantly to strengthening agriculture's capacity to adapt to climate change (Washington *et al.*, 2006¹⁶; Cooper *et al.*, 2008¹⁷; Funk *et al.*, 2008¹⁸).

In livestock production, climate changes will impact the availability and quality of fodder resources, access to water, animal species and races (heat stress and water needs), the mobility of livestock and epizooties (emerging and re-emerging diseases).

Concerning agricultural water in West Africa, climate changes will amplify the current stress related to water availability for agricultural production especially in semi-arid zones. The exact estimation of the influence of climate change on water resources in West Africa is limited by great uncertainty regarding climate models on the trend of precipitations. For example, Itiveh and Bigg (2008)¹⁹ believe that in the future, precipitations will be higher in the Niger Basin (A1, A2 and scenarios B1), while Oguntunde and Abiodun (2013)²⁰ report a high seasonal variation with a decline in precipitations in the basin during the rainy season and an increase in rainfall during the dry season (scenario A1B). The Volta Basin should experience a slight average increase in rainfall (Kunstmann *et al.*, 2008)²¹. In the areas receiving between 200 to 500 mm annually, namely in

¹³ Thornton, P.K., P.G. Jones, G. Alagarswamy, J. Andresen, and M. Herrero, 2010: Adapting to climate change: Agricultural system and household impacts in East Africa. *Agricultural Systems*, 103(2), 73-82.

¹⁴ Thornton, P.K., J. van de Steeg, A. Notenbaert, and M. Herrero, 2009b: The impacts of climate change on livestock and livestock systems in developing countries: A review of what we know and what we need to know. *Agricultural Systems*, 101(3), 113-127.

¹⁵ Sultan, B., P. Roudier, P. Quirion, A. Alhassane, B. Muller, M. Dingkuhn, P. Ciais, M. Guimberteau, S. Traoré, and C. Baron, 2013: Assessing climate change impacts on sorghum and millet yields in the Sudanian and Sahelian savannas of West Africa. *Environmental Research Letters*, 8(1).

¹⁶ Washington, R., M. Harrison, D. Conway, E. Black, A. Challinor, D. Grimes, R. Jones, A. Morse, G. Kay, and M. Todd, 2006: African climate change: Taking the shorter route. *Bulletin of the American Meteorological Society*, 87(10), 1355-1366

¹⁷ Cooper, P.J.M., J. Dimes, K.P.C. Rao, B. Shapiro, B. Shiferaw, and S. Twomlow, 2008: Coping better with current climatic variability in the rain-fed farming systems of sub-Saharan Africa: An essential first step in adapting to future climate change? *Agriculture, Ecosystems and Environment*, 126(1-2), 24-35.

¹⁸ Funk, C., M.D. Dettinger, J.C. Michaelsen, J.P. Verdin, M.E. Brown, M. Barlow, and A. Hoell, 2008: Warming of the Indian Ocean threatens eastern and southern African food security but could be mitigated by agricultural development. *Proceedings of the National Academy of Sciences of the United States of America*, 105(32), 11081-11086.

¹⁹ Itiveh, K.O. and G.R. Bigg, 2008: The variation of discharge entering the Niger Delta system, 1951-2000, and estimates of change under global warming. *International Journal of Climatology*, 28(5), 659-666.

²⁰ Oguntunde, P.G. and B.J. Abiodun, 2013: The impact of climate change on the Niger River Basin hydroclimatology, West Africa. *Climate Dynamics*, 40(1-2), 81-94.

²¹ Kunstmann, H., G. Jung, S. Wagner, and H. Clotey, 2008: Integration of atmospheric sciences and hydrology for the development of decision support systems in sustainable water management. *Physics and Chemistry of the Earth*, 33(1-2), 165-174.

the Sahel (arid and semi-arid), climate changes could lead to a drop in groundwater recharge, especially in shallow aquifers due to recurring and protracted droughts (Barthel *et al.*, 2009)²².

OPTION TO ENHANCE RESILIENCE OF AGRICULTURE TO CLIMATE CHANGE TO SUPPORT FOOD SECURITY IN WEST AFRICA

To meet the challenge of adapting agriculture to climate change and strengthening the resilience of rural populations in West Africa, the promotion and development of a climate-smart agriculture is an opportunity. In this perspective, the Research programme of the Consultative Group for Agricultural Research (CGIAR) on climate change, agriculture and food security (Zougmore R. *et al.*, 2015)²³ and the West African Alliance for the implementation of the Intervention Framework for the Development of Climate-Smart Agriculture (June, 2015)²⁴ under the West Africa Regional Agricultural Policy (ECOWAP/CAADP) have identified a range of concrete actions, including:

- At regional level, facilitate the improved capitalization-dissemination of best practices in the area of Climate change adaptation and develop public policy tools to facilitate scaling up;
- Develop and implement climate change adaptation strategies for agriculture anchored in the agro-ecological realities related to agricultural systems;
- Strengthen the capacity of rural institutions and key stakeholders in actively using information on climate and adaptation for local development planning; develop seeds that are resistant to high temperatures and resilient;
- Scale up irrigation techniques and water harvest and conservation techniques;
- Promote agroforestry;
- Improve seasonal meteorological forecasts and facilitate their dissemination to producers;
- Promote alternative crops that are more resilient to climate change;
- Further integrate farming and livestock production;
- Etc.

Several regional and international organizations (CILSS, ENDA, IED Afrique, IUCN, etc.) have conducted studies and actions in several West Africa countries that highlight some best practices and technologies related to climate change adaptation in agriculture (see section 2.1). At the production level, best agricultural practices are the practices that increase productivity and hence competitiveness, while simultaneously allowing to maintain and improve management of natural resources, including services provided by ecosystems and biodiversity in a specific agro-ecological zone²⁵. The best practices related to climate change adaptation in agriculture allow to

²² Barthel, R., B.G.J.S. Sonneveld, J. Götzinger, M.A. Keyzer, S. Pande, A. Printz, and T. Gaiser, 2009: Integrated assessment of groundwater resources in the Ouémé basin, Benin, West Africa. *Physics and Chemistry of the Earth*, 34(4-5), 236-250.

²³ Robert Zougmore, Alain Sy Traoré et Yamar Mbodj (Eds.), 2015. Paysage scientifique, politique et financier de l'Agriculture Intelligente face au Climat en Afrique de l'Ouest. Document de Travail No. 118. Programme de recherche du CGIAR sur le Changement Climatique, l'Agriculture et la Sécurité Alimentaire.

²⁴ Intervention Framework for the Development of Climate-Smart Agriculture under the implementation process of the West Africa Regional Agricultural Policy (ECOWAP/CAADP)

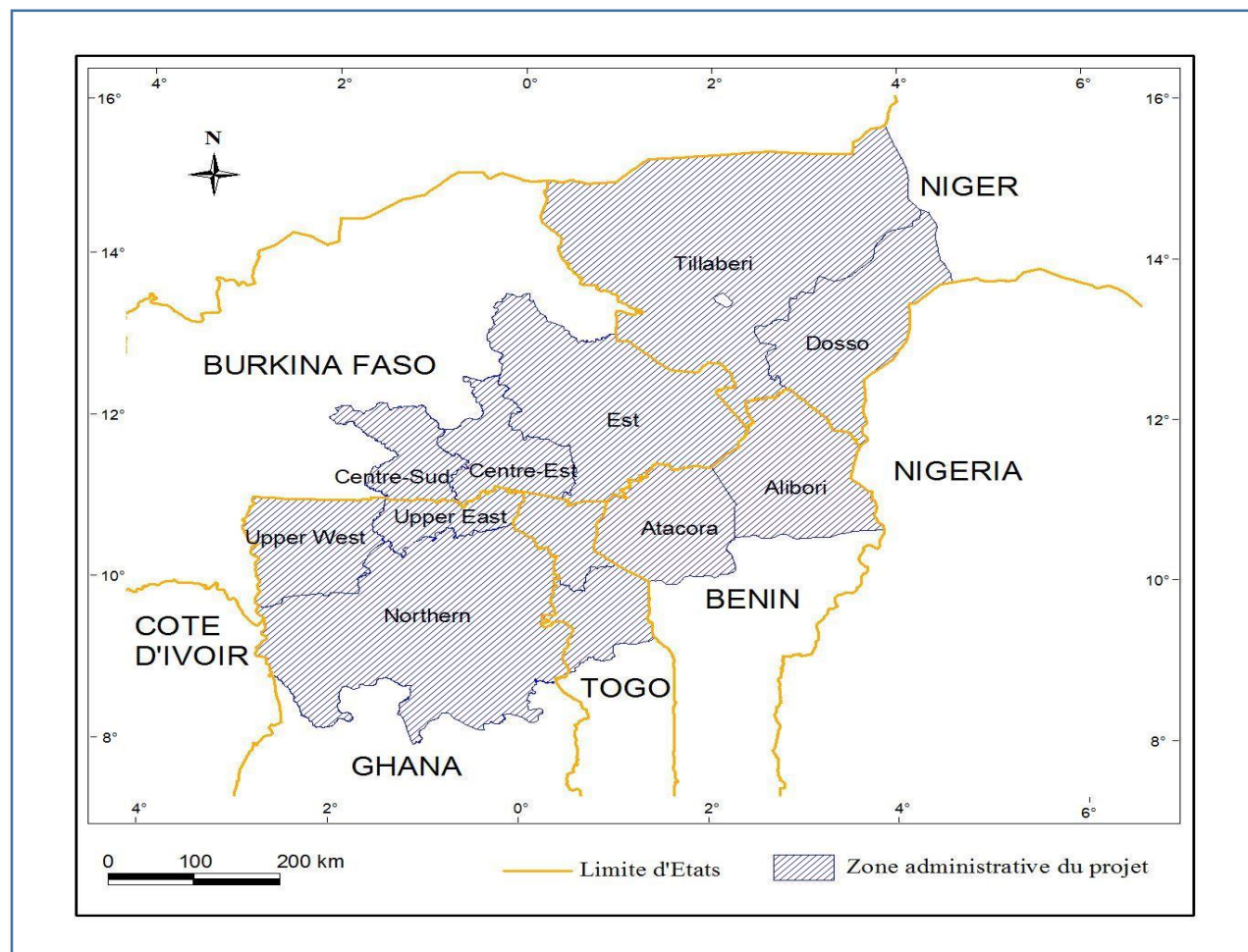
²⁵ Bonnes pratiques agricoles: Opportunités pour les pays d'Afrique de l'est, atelier de consultation pour la région d'Afrique de l'est organisé à Arusha, Tanzanie, du 16 au 21 juin 2008, par la Division de production et protection végétale, Organisation des Nations Unies pour l'Agriculture et l'Alimentation (FAO).

reduce the vulnerability of agricultural production systems face to climate change and strengthening the resilience of rural communities in addition.

However the scaling up of these best practices related to climate change adaptation in agriculture is limited due to insufficient resources and the characteristics of family farming in the sub-region. The capitalization and scaling up of these practices are the challenge that will be addressed by this project.

TARGET AREAS AND BENEFICIARIES

The project “Promoting Climate-smart agriculture in West Africa” is to be implemented in the eastern, east-central, and south-central regions of Burkina Faso; in the southern parts of the Tillabery and Dosso region of Niger; in the Alibori and Atacora regions of Benin, in the Savanah and Kara regions of Togo and in the Northern-East, North-West and Northern regions of Ghana, that is, a surface area of 355,158 km² for a population of about 15,658,772 inhabitants.



With a population of about 80 million inhabitants for the five countries (World Bank 2014), the agricultural population represents a large share of the total population in these countries : Benin (56.2%), Burkina (71%), Ghana (48.48%), Niger (81.54%) and Togo (60.47%).

In the intervention zones of the project, the population is estimated as indicated below:

- Burkina Faso: The number of population is The population in the eastern regions, of the East Central and South-central of Burkina is 3,891,352 in 2015 with a growth rate of 3.08% (National Institute of Statistics of Burkina).
- Niger: the population in the southern zones of Tillabery region and Dosso's is approximately 4.6 million with a growth rate of 3.8,
- Benin: The population in regions of Alibori and Atakora is about 1- 373,000
- Ghana: The population in the regions of East North, Northwest and northern of Ghana is estimated at 4,394,420 inhabitants with a growth rate of 2.19%,
- Togo: The number of inhabitants in the Savanes and Kara is 1.5 million inhabitants with a growth rate of 2.6 (General Directorate of Statistics and National Accounts).

Gross domestic product per capita (GDP / capita) is lower in these countries and by extension in the affected project areas: Benin (890 USD), Burkina Faso (700 USD), Ghana (1590 USD), Niger (410 USD) and Togo (570 USD). A high proportion of poor people is recorded in these countries and their receptive areas. According to the World Bank, the ratio of the poor according to the national poverty line was 36.2% in Benin, 22.4% in Burkina Faso, 32% in Ghana, 39% in Niger and 38% in Togo.

In terms of livelihood in the zone of intervention of the project, agriculture is the main economic activity, followed by breeding. Cereal crops are dominant in these regions. The main crops grown are: maize, rice, sorghum, millet for Burkina Faso; regions of Benin- maize, rice, sorghum for Benin; maize, rice, sorghum for Ghana; maize, rice, sorghum, millet for Niger and maize, rice, sorghum for Kara and savannah regions in Togo. Cereal yields are respectively 1433 kg / ha in Benin, 1157 Kg / ha in Burkina Faso, 1689 Kg / ha in Ghana, 424 kg / ha in Niger and 1258 Kg / ha in Togo. Livestock farming is practiced in all project areas, but more important in regions of Niger and Burkina Faso. Transhumant pastoralism is particularly important in areas covered by the project in Niger, Togo, Benin and Ghana. The main characteristics of agriculture systems in the project implementation zones are the low crop yield, the prevalence of poverty and food insecurity, especially in rural area.

The project will be implemented in a geographical area covering the agroecological subhumid zones in the south, the subhumid/semi-arid transition zone and the semi-arid zone in the north. Agriculture is the main source of income for populations in the project area. This is also a major internal and external transhumance zone for livestock. The transportation of goods and persons is also very important along the corridors (Niamey/Cotonou, Niamey/Lomé, Niamey/Tema, Ouagadougou/Cotonou, Ouagadougou/Lomé, Ouagadougou/Tema) that pass through this zone. Moreover, numerous nature parks and reserves are found in the area of the project, namely, the W National Park in the middle of a transboundary nature complex of 1,000,000 ha co-managed

by Benin, Niger and Burkina Faso, and the Pendjari Biosphere Reserve (RBP) which stretches over 480,000 ha.

Over 3,395,263 individuals living in rural areas in the project implementation zone will be its indirect beneficiaries in terms of improving their food and nutrition security and their income level. More specifically, at the end of the project, **more than 500,000 persons** would have benefited directly from having technical, physical and operational capacity strengthened. These include:

- More than 200,000 farmers and over 300,000 breeders (around 200,000 women) in the project implementation zone in Benin, Togo, Ghana, Niger and Burkina Faso;
- Over 600 producers and pastoralists organizations in the project implementation zone in Benin, Togo, Ghana, Niger and Burkina Faso;
- More than 1,600 technicians and supervisory agents from the ministries in charge of agriculture, livestock, environment, forestry and water in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso.
- Over 1,000 executives and agents from the Local Community and local administration in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso;
- More than 30 research institutions specialized in issues related to adapting agriculture to climate change in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso;
- Over 50 Non-Governmental Organizations and Community-based organizations engaged in rural and agricultural development in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso;
- The community of stakeholders involved in combatting climate change in West Africa.

Beneficiaries will be identified based on the principle of consultation and transparency to insure equity among vulnerable groups and individuals. The final beneficiaries will be selected on the basis of agreed criteria jointly defined by local communities, producer organizations and public technical structures in charge of agriculture and livestock present in [area of intervention of the project](#).

In each site [of intervention of the project](#), [a selection committee of the beneficiaries chaired by local authorities comprising all key stakeholders will be set up](#). Producer organizations and local authorities will be consulted to identify final beneficiaries who are the most in need of support. Criteria for selection will be discussed among stakeholders and grant will be allocated in priority to the most vulnerable [population](#). Priority will be given to farmers (community, household and individual) whom are most vulnerable to climate change including minority groups.

PROJECT'S ADDED VALUE AND SYNERGY IN RELATION TO OTHER INITIATIVES IN THE COUNTRY

Through its regional and transboundary scope of action, areas of intervention (plant production and livestock production) and approach (scaling up of best practices on climate change adaptation in agriculture) and knowledge and experience sharing and production, the project has a significant replication potential in West Africa and even in other Africa regions.

The project will mobilize and concentrate the key regional expertise in response to a common challenge in a strategic area of ECOWAS in complementarity and synergy with the agriculture

adaptation to the climate change projects being implemented at the national level. It will also contribute directly to capacity building of local stakeholders and farmers.

Regarding component 1, at the national level, some projects in Niger, Benin, Togo, Burkina Faso and Ghana (see indicative list of projects in Annex 4) are supporting the water conservation, the land management and the livestock mobility and transhumance. However, very few projects are involved at the regional level on the adaptation of agro-pastoral systems to the climate change in the area of implementation of the project. The project will contribute to strengthen climate and meteorological observation networks for the provision of agro-climate services to support the dissemination of the good practices for adaptation of agriculture to climate change and the sharing of experience between beneficiary countries. By mobilizing the expertise of specialized regional organizations to meet the specific needs of farmers in the border area in agro-ecological transition, the project will also provide an added value of the regional intervention in the implementation areas of the project.

For component 2 in the border area in agro-ecological transition of implementation of the project characterized by a large flow of goods and people and considered to be particularly vulnerable to climate change, regional intervention logic of the project is an innovation. The project will strengthen the capacities of key stakeholders accross borders and facilitate the sharing of experiences and reinforcement of the synergy of interventions to benefit farmers facing common challenges to climate change.

Component 3 will strengthen the production and sharing of knowledge related to agriculture adaptation to climate change in lines to the objectives of the West African Alliance for Climate Smart Agriculture established in 2016. The project will contribute to the establishment and the management of a sustainable platform for exchanges between the main stakeholders (policy makers, technician and community leaders) of agriculture adaptation to climate change at the local, national and regional level.

Box 1 : This regional project has added value on several aspects compared to country initiative:

- The component one on “dissemination of best practices related to climate change adaptation in agriculture addresses harmonization of data to be collected within one of the most vulnerable agro-ecological zone in West Africa. This will not only strengthen capacities in terms of data collection in countries but allow also allow regional institutions to get harmonized data to draw regional trends. Furthermore, a catalogue of existing best practices in the region will be very helpful to identify techniques that could be replicated within the intervention zone. Also livestock mobility and crossborder transhumance cannot be addressed at the country level only. The project has therefore targeted some activities for which a regional approach is key for implementation
- Activities indicated in the second component like transboundary collaboration for the adaptation of agriculture to climate change required a regional approach. Training of Producer organizations, civil society and NGO is more efficient if organized at the regional level compared to national level. This approach helps also in the sharing of experience and knowledge in regions facing similar constraints
- A regional approach is also key for the third component “management of knowledge on agricultural practices related to climate change” to foster the sharing of experience and adaptation to climate change techniques in regions having similar vulnerability in order to inform policy makers and practitioners.

Even if Regional approaches are not very common, they ~~but~~ are very important and relevant for climate change adaptation in particular. In West Africa in particular, the regional approach has been endorsed by the West African Alliance for CSA in June 2015 (Bamako, Mali) and it fits into a logic of pooling and complementarity of interventions. Regional approaches complement very well country approaches but it is

Synergies will be implemented between the project and ongoing regional climate change adaptation programmes in the ECOWAS/UEMOA zones:

- The Project to strengthen the investment capacity in agriculture and climate change of 15 West African countries, led by ECOWAS, funded by NEPAD/Climate Fund;
- The Strategic Programme for reducing vulnerability and promoting climate adaptation in WA, led by ECOWAS and funded by Sweden;
- The projects funded by the European Union in the context of the 11th EDF the intervention themes of which are being defined;
- The Special Programme for Food Security in UEMOA funded by BOAD.

At the regional level, complementarities will be developed with the “Regional Projects to support Pastoralism in the Sahel (PRAPS, a project funded by the World Bank) covering Burkina, Mali, Mauritania, Niger, Senegal and Chad and implemented by the CILSS and the beneficiary countries. This proposal project will seek synergies and complementarity by covering coastal countries (Togo, Ghana and Benin) not covered by PRAPS but where issues related to climate change and pastoralism are very critical. Transhumant corridors covers Sahelian and coastal countries and a regional approach to address climate change and pastoralism in all involved countries is key.

At the level of beneficiaries’ countries, complementarities and synergies will be developed with, among others:

- The agricultural chapter of national adaptation action programmes;
- The project Community-based actions for Climate resilience (PACRC) with the objective of “improving the protection of populations and production systems against climate change and variability in the targeted communes” implemented since 2012 in 2017.
- Strategic Programme for Climate Resilience (PSRC) in Niger, funded by African Development Bank (AfDB);
- The Project to support climate change-sensitive agriculture (PASEC), funded by the World Bank;
- Etc.

The specific objectives of the proposal project for Enhancing Resilience of Agriculture to Climate Change to Support Food Security in Niger, through Modern Irrigation Techniques submitted by BOAD to the adaptation fund- are (i) enhance stakeholders capacity on climate resilient irrigation systems, 2) promote the setting up of efficient technologies to sustainably manage water resources and preserve soils of irrigated perimeters, 3) reduce energy charges for irrigation and 4) support diversification of livelihoods to improve income of farmers. Particularly in the Dosso region, synergies in terms of support water management and conservation, support soil rehabilitation and conservation and, of dissemination of agro-meteorological information will be built between the two proposal projects. At national level complementarity will also build on Knowledge management and production.

Etc.

A detailed and comprehensive mapping of all projects and programme related to climate change adaptation in agriculture will be realized to highlight synergies with other initiatives in the country. (See in annex 4 Indicative list of projects on the adaptation of agriculture to climate change identified)

1.2. PROJECT / PROGRAMME OBJECTIVES

The overall objective of the project is to contribute to developing climate-smart agriculture in West Africa especially in terms of adaptation in order to strengthen the resilience of vulnerable populations.

The specific objectives are 1) the dissemination of best practices, 2) the mainstreaming of climate change adaptation in agriculture in strategies, plan and projects and 3) the knowledge management related to climate change adaptation in agriculture within a transboundary zone with agro-ecological coherence in terms of vulnerability. The strategic framework is indicated in the box below:

Component 1: Dissemination of agricultural best practices related to climate change adaptation at local level

Effect 1.1: Climate change adaptation in agriculture techniques and practices improved and adopted by producers

- Output 1.1: Climate services (agroclimatic, meteorological information, etc.) adapted to the needs of each category of producers are produced and disseminated.
- Output 1.2: The catalogue of existing climate change and variability adaptation expertise, techniques and practices in the target sites is completed.
- Output 1.3: Dissemination of agricultural best practices for climate change adaptation and related to extension services are improved and adopted by actors of the value chains.

Component 2: Mainstreaming agricultural best practices related to climate change adaptation in strategies/policies/projects

Effect 2.1. Resources mobilized and allocated to the dissemination of best practices related to adaptation to climate change are increased.

- Output 2.1.1: The technical capacity of a critical mass of field operators (NGOs, cooperatives, extension services) is strengthened to promote agricultural best practices related to climate change adaptation.
- Output 2.1.2: The technical capacity of national and regional managers and experts in charge of designing and implementing projects and programmes is strengthened to mainstream best practices related to adaptation to climate change.

Effect 2.2. Synergies and complementarities between regional and national projects on best practices related to adaptation to climate change are implemented and strengthened

- Output 2.2.1: Transboundary collaboration for adaptation to climate change in agriculture is strengthened;

~~Output 2.2.2: the capacity of national and regional executives is strengthened on community and international policy, regulatory and legal frameworks (UEMOA, ECOWAS) related to the adaptation of agriculture to climate change.~~

Component 3: Management of knowledge on agricultural best practices related to climate change adaptation

Effect 3.1: Knowledge on agricultural best practices related to climate change adaptation is strengthened and disseminated.

- ~~• Output 3.1: Action-Research activities on agricultural techniques and practices for climate change adaptation taking into account current and future scenarios are realized and validated with producers.~~
- Output 3.1.12: The sharing of experiences and expertise on agricultural best practices related to climate change adaptation is strengthened.

1.3. PROJECT / PROGRAMME COMPONENTS AND FINANCING:

Project/ Programme Components	Expected Outcomes	Expected Outputs	Activities/ allocated budget	Countries/ components allocation (US\$1,000)	Amount (US\$1,000)	
Component 1: Dissemination of agricultural best practices related to climate change adaptation at local level	1.1. Climate change adaptation techniques and practices improved and adopted by producers.	1.1.1. Climate services (agroclimatic, meteorological information, etc.) adapted to the needs of each category of producers are produced and disseminated.	1.1.1.1. strengthen climatic and meteorological observation networks in	Benin (1,6500) Burkina Faso (2,1900) Niger (2,1900) Togo (1,6500) Ghana (2,1900)	100	
			1.1.1.2. Support the collection, processing and analysis of meteorological data		100	
			1.1.1.3. Organize meetings to exchange on meteorological forecasts for agricultural campaigns		100	
			1.1.1.4. Produce and disseminate agro-meteorological information for the attention of producers (newsletters, MIS, telephones, mobiles, community radio, local languages)		100	
			1.1.1.5. Produce knowledge about trend, rainfall and thermometric variability in the project zone		500	
		1.1.2. The catalogue of existing climate change and variability adaptation expertise, techniques and practices in the target sites is completed.	1.1.2.1. Take stock of practices and techniques related to climate change adaptation in agriculture in Benin, Togo, Niger, Burkina Faso and Ghana		100	
			1.1.2.2. Characterize and assess best practices and techniques related to climate change adaptation in agriculture that could be scaled up		100	
			1.1.2.3. Develop and operationalize a dynamic database of best practices and techniques related to climate change adaptation in agriculture		100	
			1.1.2.4. Produce and disseminate the catalogue of best practices and techniques related to climate change adaptation in agriculture		100	
		1.1.3. Dissemination of agricultural best practices for climate change adaptation and related to extension services are improved and adopted by actors of the value chains.	1.1.3.1. support water management and conservation		3,200	
	1.1.3.2. support soil rehabilitation and conservation		2,500			
	1.1.3.3. support livestock mobility and crossborder transhumance		2,500			
	Sub-total				9,5900	9,5900
	Component 2: Mainstreaming agricultural best practices related to climate change adaptation in strategies/poli cies/projects at	2.1. Resources mobilized and allocated to the dissemination of best practices related to adaptation to climate change are increased.	2.1.1. The technical capacity of a critical mass of field operators (NGOs, cooperatives, extension services) is strengthened to promote agricultural best practices related to climate change adaptation.	2.1.1.1. Train the technicians of producers and breeders' organizations (PBOs) and their members and NGOs in the agricultural sector on climate change adaptation in agriculture	Benin (2050) Burkina Faso (250) Niger (250) Togo (2050) Ghana (250)	150
2.1.1.2. Train the technicians of POs and NGOs on climate change adaptation in agriculture project formulation and resources mobilization related to climate change adaptation in agriculture				150		
2.1.2. The technical capacity of national and regional managers and experts in charge of designing and implementing projects and programmes is strengthened to			2.1.2.1. Train the executives and technicians of decentralized and local structures in climate change adaptation in agriculture plans and projects formulation and in resource mobilization related to climate change adaptation in agriculture	150		

Project/ Programme Components	Expected Outcomes	Expected Outputs	Activities/ allocated budget	Countries/ components allocation (US\$1,000)	Amount (US\$1,000)
national and regional levels		mainstream best practices related to adaptation to climate change.	2.1.2.2. Support the mainstreaming of climate change adaptation in agriculture at the subnational local collectivities development plans in Burkina Faso (3), Niger (2), Benin (2), Togo (2) and Ghana (3).		500
	2.2. Synergies and complementarities between regional and national projects on best practices related to adaptation to climate change are implemented and strengthened.	2.2.1. Transboundary collaboration for the adaptation of agriculture to climate change is strengthened	2.2.1.1. Establish and operationalize a regular forum for exchanging and sharing experiences on climate change adaptation in agriculture between the neighboring administrative regions of Burkina Faso, Niger, Benin, Togo and Ghana.		100
			2.2.1.2. organize of exchange tours and training on climate change adaptation in agriculture for the benefit of executives and technicians		100
Sub-total				1,1250	1,1250
Component 3: Management of knowledge on agricultural best practices related to climate change adaptation	3.1. Knowledge on agricultural best practices related to climate change adaptation is strengthened and disseminated.	3.1.12. The sharing of experiences and expertise on agricultural best practices related to climate change adaptation is strengthened.	3.1.12.1. Establish and operationalize a network of exchange between stakeholders of agriculture adaptation, including public agencies, local communities, POs and NGOs in Niger, Benin, Togo, Ghana and Burkina Faso.	Benin (100) Burkina Faso (100) Niger (100) Togo (100) Ghana (100)	2500
			3.1.12.2. Produce and disseminate newsletters and journals to capitalize on the climate change adaptation in agriculture activities		2450
Sub-total				4,2500	4,2500
Monitoring-Evaluation and Capitalization					250

Project/programme Execution Cost	146118
Total Project/Programme Cost	12,868
Cycle Management Fee charged by Implementing Entity (8.5% x Total Project/Programme Cost)	1,132
Amount of Financing Requested	14 00

1.4. PROJECTED CALENDAR:

The project duration is three and half (3.5) years

Milestones	Expected Dates
Start of Project/Programme Implementation	July 2017
Mid-term Review (if planned)	December 2018
Project/Programme Closing	December 2020
Terminal Evaluation	January 2021

PART II: PROJECT / PROGRAMME JUSTIFICATION

2.1. PROJECT DESCRIPTION

The promotion of climate-smart agriculture in West Africa in the context of the project will be done using 3 components.

Component 1 will be devoted to the **Dissemination of best practices related to climate change adaptation in agriculture at local level**. The adoption of best practices and techniques related to climate change adaptation by producers will be realized by achieving the following 3 outputs:

Output 1.1.: Climate services (agroclimatic, meteorological information, etc.) adapted and specific to the needs of producers in the project area will be produced and disseminated.

1.1.1.1. strengthen climate and meteorological observation networks.

Since the mechanism for observing climate parameters in the project regions is currently incomplete, obsolete or out-of-date, it will be 1) strengthened by the procurement and installation of direct-reading rain gauges, 2) completed with the acquisition of thermo-anemometer recorders, and 3) equipped with densified grid extended to cover all the communes of the project.

1.1.1.2. Support the collection and analysis of meteorological data

Since the technical and physical capacity for the collection and analysis of meteorological data at regional level is limited, specific training sessions will be organized for technicians in the Regional Directorates in charge of agriculture, livestock and environment, water and forests. Computer equipment will be acquired to facilitate data processing, create an online database and facilitate its access via the internet.

1.1.1.3. Organize meetings to exchange on meteorological forecasting for agricultural campaigns

The results of the analysis of meteorological parameters will be presented and discussed during sessions that will include producers' organizations. These exchanges will enable to strengthen the dialogue between modern climate monitoring and analysis approaches and endogenous knowledge and strategies on climate, and to identify appropriate and shared responses among stakeholders of the agricultural sector. This approach is innovative in term of designing climate change adaptation strategy in agriculture at local level in West Africa.

1.1.1.4. Produce and disseminate agro-meteorological information for producers

A summary of the conclusions and recommendations related to meteorological forecasts will be produced, translated in a language accessible (local languages, sound messages, etc.) to the greater number and broadcasted through appropriate media channels (weather forecasts in the media, PO networks, telephone, community radio, etc.)

1.1.1.5. Produce knowledge about trends of rainfall and thermometric variability in the project zone

The improvement of agro-meteorological forecasts related to the phenology of plant and animal productions represents a challenge in strengthening climate adaptation capacity, especially at local level. In view of the limited technical capacity in the project implementation areas, activities are: 1) analysis of trends of climatic parameters (temperature and rainfall) and 2) mapping the trend of temperature and rainfall. These activities will be carried out in relation with the services in charge of meteorology. As such, this activity is designed to be a pilot-activity due to its complexity and the technical and scientific constraints to be overcome.

These activities will also enable to increase the production of climate data, to improve local monitoring of climate data, to strengthen the technical capacity in agro-meteorology, to strengthen knowledge sharing on the climate and to improve the provision of climate services for the benefit of producers, especially the most vulnerable. These activities will also strengthen the production and quality of the primary climate data for the regional meteorological and climatic network in West Africa.

Knowledge production is key for climate change adaptation in agriculture in the most vulnerable rural areas. These activities will contribute to strengthening collaboration between knowledge development and concrete agricultural activities for farmers on the ground. This activity will also contribute to improve knowledge about trends and projection of climate change in West Africa. To insure the regional dimension and harmonization of data collection, the activities indicated above will be implemented by a specialized regional organization which will also be encouraged to continue activities beyond the period of the project. The project will therefore be a levy to mobilize resources for coming years when the project ends.-

These activities will enable to increase the production of climate data, to improve local monitoring of climate data, to strengthen the technical capacity in agro-meteorology, to strengthen knowledge sharing on the climate and to improve the provision of climate services for the benefit of producers, especially the most vulnerable. These activities will also strengthen the production and quality of the primary climate data for the regional meteorological and climatic network in West Africa.

Output 1.2.: The catalogue of existing climate change and variability adaptation expertise, techniques and practices in the target sites is completed

1.1.2.1. Take stock of practices and techniques related to climate change adaptation in agriculture in Benin, Burkina Faso and Ghana, Niger Togo,

The techniques, technologies, approaches and initiatives that exist or are being developed or implemented in response to the challenges of adapting to climate change in the ECOWAS region, will be identified and documented. Agriculture, livestock, natural resources management, water resources management will be covered by the scope of this inventory. The information collected and the database thus produced will be made available to all the stakeholders of the fight against climate change. This activity will be supported by field missions in the project beneficiary countries.

1.1.2.2. Characterize and assess of best practices and techniques related to climate change adaptation in agriculture that could be scaled up

Among the practices identified, those with a significant potential for the adaptation of agriculture to climate change, will be assessed based on economic, social and environmental criteria and characterized. This characterization will be conducted while taking into account the constraints related to agro-ecological zones, to local agricultural systems and to the economic and social environment of the project beneficiary countries.

1.1.2.3. Develop and operationalize a dynamic database of best practices and techniques related to climate change adaptation in agriculture

The practices documented and best practices characterized will be fed into a database accessible to all and will be updated every year. Setting up a georeferenced mapping tool showing climate change techniques and practices is an interesting practical and innovative way of presenting information.

1.1.2.4. Produce and disseminate the catalogue of best practices and techniques related to climate change adaptation in agriculture

The catalogue of best practices and techniques related to climate change adaptation in agriculture obtained will be disseminated annually in an appropriate format for each of the potential stakeholders (Public administrations and technical services, Producers' organizations, local community, students, etc.).

The knowledge related to good climate adaptation practices in agriculture in West Africa will thus be improved and made available and accessible to all the stakeholders of agricultural development in the ECOWAS region and in the world.

Output 1.3.: Dissemination of agricultural best practices for climate change adaptation and related to extension services are improved and adopted by actors of the value chains

A wide range of techniques and practices (listed in the Table below) identified in the project implementation areas have a significant potential in terms of climate change adaptation in agriculture. However, the adoption and the implementation of most of these techniques and practices remain isolated and limited.

Table 1: some promising practices and techniques related to climate change adaption in agriculture production

1. Soil management	5. Livestock systems
Stone bunds	Traditional practice of livestock mobility and transhumance
Permeable rock dams	Progressive settling and reconversion of pastoralists
Grassy strips	Strengthening the monitoring of the area and animals
Zaï	Reconstitution of the flock
Half-moons	Destocking of animals
Mulching (mulch or stems layering)	Redefining the modalities of the folding contract and the constitution of fodder stocks
Dune fixation (stop lines and tying with millet stalks)	Improvement of zootechnical performance through fattening
Improved fallow	6. Water management
Subsoiling	Micro-irrigation with “Koglogo” pans
Deferment	Surface irrigation water-saving systems
Lowlands management	Micro drip irrigation systems
2. Forestry and agroforestry	Construction of impoundments : dams, rock rubble, detention basin
Assisted Natural Regeneration (ANR)	Construction of impluviums
Reforestation	Mobilization of water through tube wells
Windbreaks	Irrigation brigades
Practice of alley-cropping	7. Inputs and cropping techniques
Fixation of shorelines	Improved seeds
Forest management	Flat plowing
Arboretums and botanic conservatories	Soil scarification
3. Pastoral hydraulics	Restoration of degraded lands through subsoiling
Protection of water points against sanding up	Composting
Realization of high-capacity boreholes equipped with solar pumps	Mixed cropping
Overdeepening of natural ponds	Off-season crops ; crop diversification
4. Pastoral resources management	8. Animal feed
Demarcation of pastoral zones or pastoral areas for special management	Run fattening and organic manure production stables
Demarcation and markup of cattle tracks and transhumance	Cutting and conservation of fodder
	Fodder crops

The systematic scaling up of some of these techniques and practices in the project zone is faced with challenges such as the high cost of implementation, the difficulties in adopting them due to the current peculiarities of prevailing production systems (access to inputs, land, level of mechanization, availability of local agricultural labor, fragmentation and dispersion of agricultural land, etc.) and the current characteristics of cropping systems (plant production, livestock, integration level of crop-livestock system).

In the context of the project, techniques and practices with the best cost-efficiency ratio and a significant effect on the most vulnerable populations (especially women) and that are likely to have significant impacts on a greater number of producers and breeders in the project implementation area will be prioritized.

1.1.3.1. Support water management and conservation

The availability of agricultural water for plant productions and livestock production is increasingly difficult due to climate change and variability. The recurrence and length of drought pockets are also greater. The water deficit thus generated considerably affects crop and farmers' productivity in the project zone. To reduce the vulnerability of these farmers, water conservation works will be conducted and water conservation techniques will be disseminated. More specifically, based on the characteristics of the sites, there will be a need to:

- 1) realize 600 runoff water harvest basins;
- 2) realize the overdeepening of 180 ponds;
- 3) Dig 60 large-diameter wells;
- 4) Operationalize 240 mobile irrigation units, which is an innovation response to the unexpected dry period. These units include a driver/mechanic and a person in charge of irrigation and are equipped with a motor tricycle with a mechanism adapted to the transportation of materials and persons, a motor pump and mobile flexitubes. These units will provide services on demand.

1.1.3.2. Support soil restoration and conservation

The increased intensity of rainfall and their density in time and space, and the recrudescence of climate change-induced violent winds increasingly exacerbate the already advanced degradation of soils caused by erosion on large surfaces in the project zone. To curb this phenomenon that especially affects the most vulnerable populations and restore already degraded soils, support will be provided to producers to put in place the following techniques which are labor and work intensive.

1. Stone bunds, permeable rock dams and grassy strips over 2,400 ha;
2. Zaï or tassa, assisted natural regeneration and half moons over 2,400 ha.

These techniques will be combined if necessary based on the capacity and characteristics of the sites in order to optimize their potential. Also, organic manure will be obtained from local livestock producers to improve soil fertility.

1.1.3.3. Support livestock mobility and crossborder transhumance

By affecting the availability of pastures and water, climate change forces pastoralists to adopt internal and external transhumance as an adaptation and survival strategy.

Transhumance practiced in an environment already marked by fierce competition to access resources, generates recurrent and increasing conflicts between pastoralists and farmers. Moreover, in an area characterized by different lifestyles, specific regulations on transhumance and uncoordinated animal health policies, these conflicts often lead to disastrous consequences (loss of livestock and human life, resurgence of zoonoses) especially in the “grey” zones (transboundary areas). To both support livestock producers’ adaptation strategies and facilitate interactions with farming communities installed in the project implementation zone, activities will be implemented to improve livestock mobility and crossborder transhumance. More specifically, there will be a need to:

1. Demarcate, markup and secure 1,800 km of transboundary transhumance corridors or tracks;
2. Produce 100 water points and 30 boreholes along the secured transhumance corridors.

The incentives created by the grants awarded for the implementation of good adaptation practices of agriculture to climate changes will facilitate the transition of farms and rural communities towards climate-resilient producer systems.

-Grant facility will be managed in 3 ways:

- The activities in link with the land management and water conservation will be carried out taking into account the specificities of each beneficiary country. Thus, in each country, the project coordination unit (PCU) in close collaboration with the government, local actors and producer organizations will select the specialized entity that will manage the grant facility. Similarly, the selection of beneficiaries will be done in consultation with the organizations of producers and local communities;
- The activities related to the climate services will be provided by specialized regional organizations already well known in the region (ACMAD, AGRHYMET, etc.);
- Regarding livestock mobility and crossborder transhumance, the activities will be done through a call for project proposals open to specialized regional entities in the issue of transhumance and pastoralism (NGOs, producer organization, etc.). These regional specialized entities will work with organizations at local level.

This approach will be deepened while formulating the full proposal and there might be some adjustment

Component 2 involves mainstreaming good climate change adaptation practices in national and sub-regional agricultural strategies and projects. Two outputs with major impacts through their activities will contribute to this component.

The first outcome for the component 2.1. Improvement of the mobilization of resources allocated to the dissemination of good climate change adaptation practices in agriculture will be realized through the following outputs.

Output 2.1.1.: The technical capacity of a critical mass of field operators (NGOs, cooperatives, extension services) is strengthened to promote agricultural best practices related to climate change adaptation in agriculture. The activities planned will be conducted in the 12 zones of the project.

2.1.1.1. Train technicians of producers' and breeders' organizations (PBOs) and their members and NGOs in the agricultural sector on climate change adaptation

The adaptation of agriculture to climate change requires new skills and calls for PBOs and NGOs of the agricultural sector to increase, renew and strengthen the services to be provided to their members and beneficiaries. However, the current capacity for implementing concrete adaptation actions for PBOs and NGOs, especially at local level, remain limited. Capacity strengthening sessions for PBOs and NGOs in the project implementation zone will be organized. They will specifically focus on the need of practitioners and will analyze the challenges related to water, soil, energy in rural areas, genetic resources and the dissemination of good agricultural practices along the value chains, agroforestry, fisheries and aquaculture.

2.1.1.2. Train the technicians of PBOs and NGOs in formulating CSA projects and mobilizing financing related to climate change adaptation in agriculture

The implementation of concrete adaptation actions will require the formulation of climate change adaptation in agriculture-sensitive projects and the implementation of resources mobilization strategies at local, national and international levels. The related skills are actually limited in the PBOs and NGOs, especially at local level. Training sessions on the formulation of projects on climate adaptation in agriculture and on climate fundraising will be organized to that effect on behalf of Producers' organizations and NGOs.

The PBOs and NGOs play an increasingly important role in agricultural and local development due to their proximity with the beneficiaries and the most vulnerable populations, and their knowledge of the situation on the ground. These activities will enable them to contribute more efficiently to adapting agriculture to climate change, especially at local and West Africa region level.

Output 2.1.2.: The technical capacity of national and regional managers and experts in charge of designing and implementing projects and programmes is strengthened to mainstream best practices related to climate change adaptation in agriculture.

2.1.2.1. Training of executives and technicians of decentralized and local structures on the formulation of climate change adaptation in agriculture plans and projects and on fundraising in relation to the adaptation of agriculture to climate change.

The adaptation of agriculture to climate change requires new skills and calls for regional and departmental ministerial directorates in charge of agriculture, livestock, environment, water and forests, and the local community, to define and provide new interventions, and also to develop new resources mobilization strategies. However, the current capacity in the area remains limited at local level. Training sessions on the formulation of regional adaptation plans and projects for the adaptation of agriculture to climate change and on climate-fundraising, will be organized to that effect for the benefit of executives and technicians at the decentralized and local structures. The implementation of concrete actions to climate change adaptation in agriculture requires interactions and synergy between regional, national, and local actors in order to improve their collective efficiency. In practice, local actors are not very familiar with policies, regulatory mechanisms, community frameworks and international conventions related to the climate change. Training sessions on these frameworks will be organized for stakeholders of the agricultural sector in the project implementation zones. Local actors will also get

acquainted with the regional programmes and projects and the ongoing regional initiatives in the ECOWAS/UEMOA region related to climate adaptation in agriculture during these sessions.

2.1.2.2. Support the mainstreaming of climate change adaptation in agriculture in subnational local collectivities development plans in Burkina Faso, Niger, Benin, Togo and Ghana. At the local level, the climate change adaptation in agriculture necessarily fits into the subnational local collectivities development policy and in an interaction with the other dimensions of rural development. However, very few existing regional development plans integrate this dimension using an intersectoral approach. The mainstreaming process of regional development plans in the project implementation zone will be carried out under the leadership of local communities as needed. Training sessions on the creation of a development strategy focused on institutional options, policies, financing, disaster risk reduction and social security nets, the development of institutional capacity and monitoring-evaluation will be organized in parallel in favor of local community leaders.

The sustainability of the project activities is based on the ownership, increased involvement, knowledge and skills transfer, and a strengthening of institutional capacity at all levels of interventions, especially for decentralized and local structures and subnational local collectivities. These activities will contribute to capacity building of key local agriculture stakeholders in the area of intervention of the project. More than ever, it is necessary to strengthen the links between actions aiming to climate change adaptation in agriculture initiated at regional level with those implemented at local level. These activities are planned to initiate interactions to that effect and create a dynamics of mutual capacity strengthening.

The second outcome for this component 2.2 Strengthening synergies and complementarities in the implementation of regional and national climate adaptation in agriculture will be realized through the following outputs.

Output 2.2.1.: Transboundary collaboration for the adaptation of agriculture to climate change is strengthened.

2.2.1.1. Establish and operationalize a regular framework of experience exchange and sharing, and consultation on climate change adaptation in agriculture between the neighboring administrative regions of Burkina Faso, Niger, Benin, Togo and Ghana.

On both sides of borders in the neighboring administrative regions of the South-Central, East-Central and Eastern parts of Burkina Faso, of Tillabéry and Dosso in Niger, of Alibori and Atacora in Benin, of the Savannah and Kara in Togo, and the Northern, North-Eastern and North-Western regions in Ghana, the local actors of the climate change adaptation in agriculture are faced with often very similar common realities, constraints and challenges. However, no formal or informal framework of exchange currently exists to enable them share their experiences and knowledge in order to develop concrete, efficient and coherent and coordinated responses. A formal framework of exchange will be put in place with periodic meetings gathering executives from the Ministries in charge of agriculture, livestock, environment, water and forests, local communities and subnational local collectivities. This framework will enable to address issues related to the effects of climate changes on agricultural production systems (value chain, crops, etc.) transhumance in

livestock production, the sustainable management of shared water resources and the management of shared protected areas.

2.2.1.2. Support the organization of exchanges tours and training sessions on climate change adaptation in agriculture for the benefit of executives and technicians

Due to the existence of the administrative border between the Central-south, Central-East and Eastern regions in Burkina Faso, Tillabéry and Dosso in Niger, Alibori and Atacora in Benin, Savannahs and Kara in Togo, and the Northern, Northern-East and Northern-West regions of Ghana, the executives and technicians are very poorly informed of the strategies and interventions implemented from country to country, especially those affected in northern regions. Study tours and common training on climate change adaptation in agriculture will be organized to improve the technical and operational dialogue between technicians of these transboundary regions. Aspects such as policy and regulatory frameworks, collaboration with technical and financial partners, transhumance, will be prioritized for these activities.

Beyond the administrative and border dimensions, farming systems in the project zone are faced with various, albeit shared, challenges due to the relative cultural, agroecological, social and economic unity. These activities will contribute to developing a collective conscience, to pool the knowledge and to strengthen the coordination of actions in order to adapt agriculture to climate changes at local level. These activities will strengthen the “regional thinking” on climate change adaptation in agriculture.

~~Output 2.2.2.: The capacity of national executives will be strengthened on community and international policy, regulatory and legal frameworks (UEMOA, ECOWAS) related to the adaptation of agriculture to climate change. The activities planned are as follows.~~

~~2.2.2.1. Training on the policy, regulatory, community frameworks and on the international conventions on climate change adaptation in agriculture~~

~~The implementation of concrete actions to climate change adaptation in agriculture requires interactions and synergy between regional, national, and local actors in order to improve their collective efficiency. Unfortunately, local actors are not really familiar with policy, regulatory, community frameworks and international conventions related to the climate change. Training sessions on these frameworks will be organized for stakeholders of the agricultural sector in the project implementation zones. Local actors will also get acquainted with the regional programmes and projects and the ongoing regional initiatives in the ECOWAS/UEMOA region related to climate adaptation in agriculture during these sessions.~~

~~More than ever, it is necessary to strengthen the links between actions aiming to climate change adaptation in agriculture initiated at regional level with those implemented at local level. These activities are planned to initiate interactions to that effect and create a dynamics of mutual capacity strengthening.~~

Component 3 is the management of knowledge on best practices in adapting agriculture to climate changes. ~~one~~**Two** main outcomes will contribute to this component through their activities.

The outcome expected of this component is the **improvement of knowledge on good practices of adapting agriculture to climate change and their dissemination**. It will be carried out through the achievement of the outputs below. The activities planned will mostly be conducted in the regions covered by the project, however the dissemination will be extended to the entire ECOWAS region.

~~**Output 3.1.: Action Research on agricultural techniques and practices for climate change adaptation taking into account current and future scenarios are realized and validated with producers.**~~

~~**3.1.1.1. Capitalize on the Research results activities related to climate change adaptation in agriculture.**~~

~~The scaling up of good climate adaptation practices in agriculture is in most cases faced with constraints related to, among others, the land tenure situation of farms, the low level of agricultural mechanization, the limited investment and financing capacity, adoption capacity, marketing challenges, the quality of rural infrastructures, etc. The research results related to climate change adaptation in agriculture value chains (food crops and export crops) in the project implementation zone will be documented and disseminated through calls for proposals.~~

~~**3.1.1.2. Produce knowledge about trends of rainfall and thermometric variability in the project zone**~~

~~The improvement of agro-meteorological forecasts related to the phenology of plant and animal productions represents a challenge in strengthening climate adaptation capacity, especially at local level. In view of the limited technical capacity in the project implementation areas, activities 1) to analyze trends of climatic parameters (temperature and rainfall) and 2) mapping the trend of temperature and rainfall will be carried out in relation with the structures in charge of meteorology. As such, this activity is designed to be a pilot activity due to its complexity and the technical and scientific constraints to be overcome.~~

~~Research-action is a pillar of climate change adaptation in agriculture in view of the scope and complexity of the issues yet to be resolved, especially in the most vulnerable rural areas. These activities will contribute to boosting a closer collaboration between knowledge development and concrete on the ground agriculture activities to reach farmers' expectations. This activity will also contribute to improve knowledge about trends and projection of climate change in West Africa. To insure the regional dimension, the activities indicated above will be implemented by a specialized regional organization.~~

Output 3.1.12.: The sharing of experiences and expertise on agricultural best practices related to climate change adaptation is strengthened

3.1.12.1. Establish and operationalize a network of exchange among the actors of climate adaptation in agriculture including the public agencies, local communities, PBOs and NGOs in Benin, Burkina Faso, Ghana, Niger and Togo.

The dissemination of knowledge, mobilization of all the key expertise, the sharing of experience and expertise, the combination of approaches and the plurality of scales of action and the synergy and complementarity of initiatives are major drivers in defining strategies anchored in the territories and the implementation of concrete and efficient activities for climate adaptation. In this vein, in the context of the Alliance on climate-smart agriculture in West Africa, a virtual platform of exchange on agriculture adaptation to climate change will be established and facilitated by the project. The documentation produced in relation with climate changes will be made available to all and regular online discussions will be conducted via the platform. A summary of the discussions and success stories will be published annually on the platform.

3.1.12.2. Produce and disseminate newsletters and journals to capitalize on the climate change adaptation in agriculture activities

The sharing of knowledge and enhancement of the channel of dissemination – the community of stakeholders involved in climate change adaptation actions in agriculture – and efficient communication are major areas for the development of climate-smart agriculture. Information and capitalization materials will be produced and disseminated on a regular basis to fill the gap of related varied and specific data and information.

The capitalization of climate adaptation actions in agriculture in the ECOWAS/UEMOA region will enhance the quality of the actions initiated and will foster scaling up of technologies and best practices related to climate change adaptation in agriculture.

2.2. PROJECT BENEFITS

The many benefits expected from the implementation of this project will be economic, environmental and social.

At environmental level. The pressure on natural resources (water, forests, protected areas and soil) in an already fragile environment will be reduced through the adoption of more sustainable farming practices (soil restoration and conservation, demarcation of transhumance corridors) and improved water management and intensified dialogue between stakeholders in the agricultural sector in the project implementation zone. Moreover, the emission of greenhouse gases will be significantly reduced by the adoption of climate-sensitive farming practices (Assisted Natural Regeneration) which will contribute, in the long term to the mitigation of climate change. Moreover, securing transhumance routes will limit livestock incursions in protected areas and will contribute to preserving the carbon sinks of these areas.

At economic level: The adoption of water conservation and management techniques combined with soil restoration and conservation techniques will contribute to improving agricultural production. For livestock production, improved access to water and pastures will contribute to improving animal production and significantly reducing losses.

At food and nutrition security level, the reduction of farming systems vulnerability will contribute to sustainably improving food and nutrition security among vulnerable populations, especially women and children, and to reduce the poverty level in the project zone.

At social level: Improved transhumance will contribute to easing relations between farmers and breeders and to improving the overall social climate. The creation of water points will reduce the incidence of water-borne diseases and women's workload burden related to fetching water for the households. Additionally, developing the provision of irrigation-related services will help create jobs, especially for the youth.

At the gender level: the dissemination of good climate adaptation practices (soil restoration and water conservation) in agriculture will be especially advantageous for women and the youth by reducing the pressure on arable land and by allowing farming on larger surfaces. The creation of water points and overdeepening of ponds will facilitate the practice of new income-generating activities (market gardening). Women groups as most vulnerable population will be particularly targeted by the scaling up of climate change adaptation techniques.

At community and institutional level, their involvement in defining adaptation strategies and the increased role of local communities in combating climate change will strengthen local development dynamics. The capacity building of local collectivities, decentralized structure, producers' and breeders' organization and NGOs will contribute to sustainable climate change adaptation in agriculture as well as raising awareness on the importance and possible impact of Climate change adaptation in agriculture.

Box 2 The proposed project is innovative in several ways:

The project proposes to strengthen cooperation and synergy between actors involved the agriculture adaptation to climate change in vulnerable border areas by encouraging exchanges of experiences, knowledge and dialogue across administrative boundaries. By supplying of agro-climatic services, the project will strengthen the dialogue between local endogenous knowledge and modern practices. This is an innovation since such practices are not taking place in the region

At the institutional and methodological level, the project will strengthen collaboration and complementarity between the stakeholders at regional, national and local level to deliver concrete support to vulnerable farmers to climate change.

Regarding the dissemination of good practices, the project will contribute to the capitalization of the expertise and experience of the most advanced countries in adapting agriculture to climate change by the least performing countries in technical and operational level. This approach is innovative and is not very common.

The project aims to producing innovative interactive tools. Setting up a georeferenced mapping tool showing climate change techniques and practices is an interesting practical and innovative way of presenting information

In terms of technologies, the project intends to operationalize mobile irrigation units to address unexpected dry period. The technology of using a motor tricycle with a mechanism adapted to the transportation of materials and persons is innovative technology in the area if intervention and will have a big impact on income of farmers while addressing adaption to climate change.

By strengthening the capacity of local actors in the adaptation of agriculture to climate change in particular local communities, the project will contribute integrate adaptation to climate change in the scope of actions of these key players in local development.

The implementation of the network of stakeholders of agriculture adaptation at regional , national, local and community level involved in common action is in itself an innovation vector

2.3. PROJECT ANALYSIS OF THE COST-EFFECTIVENESS

Built on a logic of capitalizing on the achievements of interventions by sub-regional organizations (CILSS, IUCN, CORAF, ACMAD, etc.) through BOAD and RAAF to address regional issues, this project is cost effective compared to implementing activities at the national level only. This aspect is strengthened by the economies of scale induced by the mobilization of expertise familiar with sub-regional issues.

With its component 1 based on the dissemination of climate adaptation practices in agriculture through concrete and structuring actions in rural areas for the direct benefit of farmers, the project will contribute directly to strengthening their capacity. The grant facility selected will enable actual ownership by beneficiaries whilst strengthening the sustainability of impacts. ~~Component 2 focused on strengthening the capacity of key local stakeholders in charge of agricultural development will enable to anchor the project actions in a territorial development trend and will strengthen the quality of local governance. Component 3 which prioritizes development and knowledge sharing will enable beneficiaries both to contribute to fighting climate change and to strengthening the efficiency of local, national and regional interventions.~~

67,8% of the project resources are allocated to the realization of investments (land management, water conservation and secure and demarcation of transhumance routes) that will help to reduce the vulnerability of farmers to climate change and will increase and to secure farmers' incomes. The income gains thus generated will enable the beneficiaries to ensure the maintenance and care of the project achievements. Through the project and the initial investments, the dissemination of good practices will ensure the sustainability and cost-effectiveness.

iciency

The Component 2 focused on strengthening the capacity of key local stakeholders in charge of agricultural development will enable to anchor the project actions in a territorial development trend and will strengthen the quality of local governance. Sustainable local capacity building in terms of agriculture adaptation to climate change will be provided by the training of executives and technicians of producer and breeder organizations, NGOs and decentralized and local structures.

The Component 3 which prioritizes development and knowledge sharing will enable beneficiaries both to contribute to fighting climate change and to strengthening the efficiency of local, national and regional interventions. The regional platform for exchange and information and the network

sharing of experiences and knowledge developed by the project will be managed and facilitated by the [RAAF/ECOWAS](#) at the end of the project.

Sustainability of project achievements will be reinforced by the institutional anchoring (local and national) and the dissemination of agricultural adaptation practices to climate change

By focusing these actions on **a transboundary agro-ecological transition zone**, the project with all its activities directly related to the adaptation of agriculture to climate change, is both **catalytic**, **pioneer** and **innovative** in addition to its positive cost-benefit ratio. The implementation of activities such as support livestock mobility and crossborder transhumance cannot be coordinated only at the national level. Therefore regional coordination have a comparative advantage and cost-effectiveness.

Through these activities (mobile irrigation unit, mainstreaming of endogenous knowledge related to the climate change adaptation in agriculture, etc.), the implementation approach (focused on the scaling up of the best practices related to the climate change adaptation in agriculture), the involvement of local, national and regional actors and the level of action (transboundary transitional crossborder zone), **the project will develop an innovation at the institutional, organizational and technical level.**

Finally, **the scaling up** of best practices related to climate change adaptation in agriculture anchored and tested in the local context, will enable to improve agricultural yield significant positive externalities (jobs, access to water, etc.)

2.4. PROGRAMME IS CONSISTENT WITH REGIONAL AND NATIONAL SUSTAINABLE STRATEGIES

Improve the nutrition and food security and poverty reduction are the main goal of the main regional and national sustainable strategies. In its implementation approach, the project fits into the UEMOA's Agricultural Policy (PAU), ECOWAS' ECOWAP/CAADP translated into Regional Agricultural Investment Plans (RAIPs), the ECOWAS Environmental Policy (ECOWEP) and the actions of the *Alliance Globale pour la Resilience* (AGIR) – Sahel and West Africa. It also contributes to the implementation of the results of the ECOWAS High Level forum of stakeholders of Climate-smart agriculture in West Africa held in Bamako (Mali) in June 2015. The project is also in line with the National Development Plan, the Strategy for Poverty Reduction, the National Agricultural Investment Plans (NAIPs), the NAPAs and NAPs and the COP 21 INDC of Benin, Burkina Faso, Ghana, Niger and Togo.

The provision of climate services to farmers, reduction of the vulnerability of agricultural systems, reduction of conflicts between farmers and pastoralists, capacity building of local actors and the production and dissemination of knowledge related to the agriculture adaptation to climate change will help improve the nutrition and food security of rural populations and poverty reduction in the implementation of the project areas.

The project is also in line with the National Agricultural Investment Plans (NAIPs), the NAPAs and NAPs and the COP 21 INDC of Benin, Burkina Faso, Ghana, Niger and Togo.

2.5. PROGRAMME MEETS RELEVANT NATIONAL TECHNICAL STANDARDS, WHERE APPLICABLE, SUCH AS STANDARDS

The project will comply with the relevant national environmental and other statutory laws and regulations required in each of the concerned country. The related laws and regulations include (i) environmental impact studies standard , (ii) water-related laws and code; (iii) Land management and land use law; (iv) Code of Local Authorities; (v) Gender Equity and Women's Empowerment; (vi) Core Labor Rights; (vii) Indigenous Peoples; (viii) Involuntary Resettlement; (ix) Protection of Natural Habitats, etc.. The project will ensure to [comply with](#) the following national laws and regulations:

Niger:

- Law N° 98-56 29 December 1998 framework law for the management of the environment;
- Law 2004 - 040, June 8, 2004, covering the Forestier in Niger;
- Law No. 2001-032 31 December 2001 on the orientation of spatial planning policy;
- Law N° 98-007 29 April 1998 laying down the rules of hunting and the Protection of wildlife;
- Order N° 96-067 of 9 November 1996 covering the rural cooperatives;
- Law n ° 98-041 of 7 December 1998 on the water regime on the extent of the Republic of the Niger;
- Order No. 93-15 March 2, 1993 on the principles of Orientation du Code Rural. This text relates to the lasting settlement of conflicts;
- Decree No. 97-007/PRN/MAG/EL of 10 January 1997 establishing the status of the terroirs of attachment of breeders;
- Decree N° 97-006/PRN/MAG/EL from 10 January 1997 regulating the development of rural natural resources;
- Order No. 97-001 of 10 January 1997 on the institutionalization of Impact Environmental Studies;
- Order No. 2010-09 of 1 April 2010 Water Code in Niger;
- Order 2010-029 20 May 2010 relating to pastoralism.

Togo:

- Law N° 2008-005 30 May 2008 on framework law on the environment;
- Decree No. 2006-058/PR of 05 July 2006 establishing the list of jobs, activities subject to environmental impact assessment and the main rules of this study;
- Order No. 18/MERF of 09 October 2006 laying down the terms and procedures of information and participation of the public in the EIA process;
- Order No. 013/MERF of 1 September 2006 on the regulation of the procedure, of the methodology and the content of the environmental impact studies;
- Law N° 2008-009 of 19 June 2008 on the forest code;
- Law N° 2007-011 of 13 March 2007 on decentralization and local liberties.

Burkina Faso:

- Law N° 005/97 / ADP of 30 January 1997 on the Environment Code in Burkina Faso;
- Law N° 006/97 / ADP of 31 January 1997 on the Forestry Code in Burkina Faso;
- Law No. 23/94 / ADP of 19 May 1994 on Public Health Code in Burkina Faso;
- Law No. 14/96/ADP of 23 May 1996 on Agrarian and Land Reform and Decree No. 97-054/PRES/PM/MEF of 6 February 1997;

- Decree No. 2001-342 / PRES / PM / MEE1 of 17 July 2001 on the scope and content of the Environmental Impact Assessment (EIA) and the Environmental Impact Notice (NIE) procedures;
- Law No. 034-2009/year on June 16, 2009, Rural land system;
- Law No. 008-2014 / AN on Orientation on Sustainable Development in Burkina Faso;
- Law No. 002-2001 / AN of 8 February 2001 orientation law on water management;
- Law No. 022-2005 / AN of 21 June 2005 concerning public sanitation code in Burkina Faso;
- Law No. 034-2002 / AN of 14 November 2002 on the framework law on pastoralism in Burkina Faso.

Benin:

- Law No. 98-030 of 12 February 1999 on the Framework Law on the Environment in Benin;
- Law No. 2010-44 of 21 October 2010 concerning water management in the Republic of Benin;
- Law No 87-015 Act of 21 September 1987 on the Code of Public Health of the Republic of Benin;
- Law No 87-016 Act of 21 September 1987 on Water Code in Benin;
- Law No. 2002-016 of 18 October 2004 on the regime of wildlife in Benin;
- Law n ° 93-009 of 2 July 1993 to lay down forestry in Benin;
- Decree No. 2001-190 of 19 June 2001 on the organization of the Public Hearing process in Benin;
- Law No. 87-013 of 21 September 1987 regulating the grazing vain, for the care of pets and transhumance.

Ghana:

- The Environmental Assessment Regulations 1999, L.I. 1652;
- The Environmental Assessment (Amendment) Regulations, 2002;
- The Water Resources Commission Act 1996, Act 522;
- The Local Government Act 1993, Act 462;
- Town and Country Planning Ordinance (Cap. 84) No. 13 of 1945;
- The New Labour Act 2003, Act 651;
- The State Lands Act 1962, Act 125;
- The Lands (Statutory Wayleaves) Act, 1963;
- The Forestry Commission Act, 1999 (Act 571);
- The Rivers Act, 1903.

The project will also comply with some regional community and International standard and convention, notably the Convention on biological diversity (CBN) and the United Nations Framework Convention on Climate Change.

Based on the BOAD policies, environmental and social impact assessment must be carried out for all projects at instruction stage of project. The proposal project will be submitted to the environmental and social impact evaluation and the environmental and social management plan will be design in collaboration with key stakeholders before submission of the fully developed project document.

The national technical standards required by the Governments of Niger, Togo, Burkina Faso, Benin and Ghana will be taken into account. These include (i) environmental impact studies standard , (ii) water-related laws and code; (iii) Land management and land use law; (iv) Code of

~~Local Authorities; (v) Gender Equity and Women's Empowerment; (vi) Core Labor Rights; (vii) Indigenous Peoples; (viii) Involuntary Resettlement; (ix) Protection of Natural Habitats, etc.~~

~~Regional community and International standard and convention notably the Convention on biological diversity (CBN) and United Nations Framework Convention On Climate Change will be taken into.~~

~~Based on the BOAD project cycle standard, the proposal project will be submitted to the environmental impact evaluation before the implementation. And the environmental management plan will be design in collaboration with key the stakeholders.~~

2.6. DUPLICATION OF PROJECT

Considering the intervention zone (agro-ecological and transboundary transition), its scale (several contiguous regions of various neighboring countries) and its intervention approach (scaling up of good climate adaptation practices in agriculture by local actors), risks of duplication is limited (few projects with regional approaches). However, a complete mapping of potential overlapping activities will be carried out at the stage of drafting the full proposal of the project. At the level of beneficiary countries, complementarities and synergies will be developed with the others projects related to climate change adaptation in agriculture in the zones of intervention.

2.7. DESCRIBE THE LEARNING AND KNOWLEDGE MANAGEMENT COMPONENT

The production, management and dissemination of knowledge and lessons learnt will be key actions in all the 3 components of the project. This will be done through the production and dissemination of information via a web portal, policy briefs to policymakers, press releases, scientific publications, the creation of databases on practices and the production of awareness raising tools (documentary films, etc.). In the component 1, activities related to climate services and existing best practices in climate change adaptation in agriculture will produce knowledge that will be shared and disseminated through different networks and websites. The component on training the technicians will support the dissemination of knowledge at field level and will help to learn about feedback from the local actors in climate change adaptation in agriculture.

Potential partnerships with key international Knowledge Management Systems like the Climate Technology Centre and Network (CTCN) will be analyzed in lines with communication strategies of the Adaptation Fund to foster the sharing and dissemination of information. . International organizations having adaptation platforms will be contacted. These may include (i) [FAO-adapt platform](#) which provides an umbrella to FAO's adaptation activities including short and long term adaptation activities; (ii) the World Bank knowledge portal on climate change for development practitioners and policy makers; (iii) the UNFCCC platform; (iv) the green growth knowledge platform; (v) the adaptation learning mechanism; (vi) the climate adaptation knowledge platform and (vii) the weadapt website. At the regional level, key information and results of the project will be posted on the ECOWAS climate change platform as well websites of other regional organizations (CILSS, Hub Rural, UEMOA, ACMAD).

2.8. THE CONSULTATIVE PROCESS

The process of drafting the concept note and identification of activities to be carried out has been extensively consultative and inclusive since most of all groups of stakeholders (producer and breeders' organizations, different ministries, local authorities in the area of intervention, etc.) have been consulted both at the regional level and at the national and local levels. An international consultant was hired to insure regional approach. At the national level, consultants were also hired to provide specific information in the area of intervention and insure coherence with national strategies and priorities as regards climate change adaptation in agriculture. Consultations and interviews were organized with different ministries and other stakeholders involved in climate change adaptation in agriculture.

The consultative process combined different approaches:

- (i) A review of the relevant literature and secondary data;
- (ii) Interviews with the resource persons who work in the various ministries and organizations involved in climate change adaptation in agriculture in the beneficiaries countries;
- (iii) Field visits and discussion meeting were made in Burkina Faso (Ouagadougou, Fada Ngourma and Manga), in Benin (Cotonou and Malanville), in Niger (Niamey and Dosso). Email discussions and telephone conversation were organized with some stakeholders in Ghana and Togo.
- (iv) A validation workshop of the concept note which involved the national designated authority, the representatives of the Ministry in charge of agriculture and livestock of beneficiaries' countries and some regional and international organizations was organized on the 6, January 2016 in Lomé (Togo) at the headquarters of the BOAD. This workshop was a good opportunity to have an in-depth discussion with major stakeholders on activities to be carried out in the framework of the project. The methodology adopted enabled to appreciate the potential of adaptation practices, to identify the constraints related to their scaling up, and to define appropriate support measures.

The list of persons and entities met can be found in the annex of this concept note.

2.9. JUSTIFICATION FOR FUNDING REQUESTED, FOCUSING ON THE FULL COST OF ADAPTATION REASONING

Climate changes affect agriculture in all ECOWAS countries at varying levels. The governments of each of these countries supported by technical and financial partners, develop and implement actions for the climate change adaptation in agriculture.

Faced with the complexity and multitude of challenges, the will to capitalize on good common adaptation practices through the implementation of structuring actions for rural areas while pooling the resources mobilized in a regional approach justifies the application submitted to the Adaptation Fund in the context of the first call for proposal of regional projects.

For the Alliance for Climate-smart Agriculture in West Africa which aims at increasing the number of households adopting the practices to 25 million by 2025 in Africa, it is also an opportunity for concrete actions at local level to strengthen resilience among farmers.

Component 1: Dissemination of agricultural best practices related to climate change adaptation at local level

Reference situation / baseline (without the project):

In the project implementation zone, the levels of productivity and crop yields are low. Conflict between farmers and breeder are recurrent because of scarcity of available resources (water and fodder) and transhumance restriction. The observation (collection) of ~~ving~~ climate parameters in the project regions is currently incomplete, obsolete or out-of-date. The climate services provided to the farmers are basics. The water management and conservation and soil rehabilitation and conservation are limited.

Situation with the project: The project will enable agriculture adaptation to climate change by improving the access climate services and provide support for water management and conservation, soil rehabilitation and conservation and livestock mobility and crossborder transhumance.

In addition, the project will mobilize the expertise of key regional specialized entity to deliver a concrete support to farmers.

It will planned to:

- realize 600 runoff water harvest basins;
- realize the overdeepening of 180 ponds;
- Dig 60 large-diameter wells;
- Operationnalize 240 mobile irrigation units
- Stone bunds, permeable rock dams and grassy strips over 2,400 ha;
- Zaï or tassa, assisted natural regeneration and half moons over 2,400 ha.
- Demarcate, markup and secure 1,800 km of transboundary transhumance corridors or tracks;
- Produce 100 water points and 30 boreholes along the secured transhumance corridors.

Component 2 and 3 : Mainstreaming agricultural best practices related to climate change adaptation in strategies/policies/projects and Management of knowledge on agricultural best practices related to climate change adaptation

Baseline: To date, the adaptation of agriculture to climate change requires new skills and knowledge and calls for PBOs and NGOs of the agricultural sector to increase, renew and strengthen the services to be provided to their members and beneficiaries. However, the current capacity for implementing concrete adaptation actions for PBOs and NGOs, especially at local level, remain limited.

The implementation of concrete adaptation actions will require dialogue and the formulation of climate change adaptation in agriculture-sensitive projects and the implementation of resources mobilization strategies at local, national and international levels. The related skills are actually limited in the PBOs and NGOs, especially at local level.

The adaptation of agriculture to climate change requires new skills and calls for regional and departmental ministerial directorates in charge of agriculture, livestock, environment, water and

forests, and the local community, to define and provide new interventions, and also to develop new resources mobilization strategies. However, the current capacity in the area remains limited at local level.

Across borders in the neighboring administrative regions of the South-Central, East-Central and Eastern parts of Burkina Faso, of Tillabéry and Dosso in Niger, of Alibori and Atacora in Benin, of the Savannah and Kara in Togo, and the Northern, North-Eastern and North-Western regions in Ghana, the local actors of the climate change adaptation in agriculture are faced with often very similar common realities, constraints and challenges. However, no formal or informal framework of exchange currently exists to enable them share their experiences and knowledge in order to develop concrete, efficient and coherent and coordinated responses

Situation with the project: with better capacity and knowledge, the stakeholder involved in agriculture adaptation to climate change at local level will contribute to the design and management of more sustainable strategies and activities. They will support the replication and scaling up of this activities at national and regional level.

It is planned to build the capacity of :

- More than 1,600 technicians and supervisory agents from the ministries in charge of agriculture, livestock, environment, forestry and water in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso.
- Over 1,000 executives and agents from the Local Community and local administration in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso;
- More than 30 research institutions specialized in issues related to adapting agriculture to climate change in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso;
- Over 50 Non-Governmental Organizations and Community-based organizations engaged in rural and agricultural development in the project implementation area in Benin, Togo, Ghana, Niger and Burkina Faso.

With the funding requested, the project proposal will increase resilience of farmers and community at local level to adverse effect of climate change and variability.

2.10. SUSTAINABILITY OF THE PROJECT/PROGRAMME OUTCOMES HAS BEEN TAKEN INTO ACCOUNT WHEN DESIGNING THE PROJECT/PROGRAMME

The sustainability of project achievements is built on 1) support for the realization of investments in agricultural plot that will be maintained thanks to the additional income generated by these investments and 2) capacity building of local actors which contributes to the sustainability of the achievements.

The sustainability of the project will be ensured at various levels:

- The implementation of actions in Component 1 will be done by field operators, relevant ECOWAS community-based organizations and NGO selected through a call for proposals. The capacity of these entities will then be strengthened during the project implementation. These entities will thus be able to take over at the end of the project. Furthermore, ECOWAS has already decided to integrate adaptation of agriculture to climate change in second phase of the regional and national agricultural investment plan to be completed in the coming years. Lessons of this project will facilitate advocacy to secure the continuation of activities of the project. Also, activities related to investment in water and soil to support water management and conservation as well as soil rehabilitation are sustainable in themselves since they are income generating activities through increase of production. Experience from Niger (Tillabéri, Tahoua, Maradi and Zinder), Burkina Faso (central plateau), Ethiopia and other countries has shown that investment in soil regeneration in degraded zones has allowed increase of production for farmers. These farmers were able to invest by themselves in soil conservation when required. Regional institutions (ACMAD, AGRHYMET, CILSS, ECOWAS) will also be encouraged to secure the continuation of activities of the project which are in line with their mandate
- The sustainability and ownership of actions will be strengthened by components 2 and 3 aiming at strengthening the capacity of key stakeholders at subnational and ECOWAS levels.

While organizing consultation for the full proposal, issues of sustainability will be discussed with ministries, regional institutions and partners to encourage them to allocate some resources and insure the continuation of activities of the project.

Beneficiary countries are committed to supporting the implementation of project activities. This approach is also necessary for sustainability. Ministries may allocate some resources to insure the continuation of some activities. Regional institutions (ACMAD, AGRHYMET, CILSS, UEMOA and ECOWAS) will also be encouraged to secure the continuation of activities of the project which are in line with their mandate.

2.11. PROVIDE AN OVERVIEW OF THE ENVIRONMENTAL AND SOCIAL IMPACTS AND RISKS

The climate adaptation practices to be scaled up have been developed at local level in response to economic, social and environmental constraints experienced by local populations. ~~The environmental and social impacts expected are thus very limited.~~

Within the framework of the environmental and social impact evaluation of the project, a thorough environmental and social risks assessment will be conducted for all risks associated with the environmental and social principles identified in the Environmental and Social Policy of the Adaptation Fund. Measures for avoiding, reducing or mitigating all environmental and social impacts identified will be determined and included in the environmental and social management

plan. These measures will be implemented during the realization of the project and a monitoring and reporting system will be implemented through the life cycle of the project.

<u>Checklist of environmental and social principles as per Adaptation Funds Policy</u>	<u>Potential impacts and mitigation measures</u>	<u>No further assessment required for compliance</u>	<u>Further assessment and management required for compliance</u>
<u>Principe 1 : compliance with the law</u>	<u>The project will comply with standards required by the Governments of Niger, Togo, Burkina Faso, Benin and Ghana and possibly international conventions when national standards are lacking, as mentioned in Section 2.5.</u>	<u>X</u>	
<u>Principe 2 : Access and Equity</u>	<u>The project does not have potential risk to impede access to basic health services, clean water and sanitation, energy, education, housing, safe and decent working conditions to any group of the population.</u> <u>The project will comply with land laws and regulations and land management practices applied in all the concerned countries</u>	<u>X</u>	
<u>Principe 3 : Marginalized and vulnerable groups</u>	<u>The project does not have potential risk to impose any disproportionate adverse impacts on marginalized and vulnerable groups including children, women and girls, the elderly, indigenous people, tribal groups, displaced people, refugees, people living with disabilities, and people living with HIV/AIDS.</u> <u>Women's groups as most vulnerable populations will be particularly targeted by the project benefits.</u>	<u>X</u>	
<u>Principe 4 : Human rights</u>	<u>The project has potential risks with regards to conflicts between farmers and herders as it is an internal and external transhumance zone for livestock.</u>		<u>X</u> <u>The environmental and social impact assessment will address the potential impact of the project with regards to conflicts between farmers and herders</u>

<u>Principe 5 : Gender Equity and Women's Empowerment</u>	<p>Women and men will be able to participate fully and equitably in the project and both will receive comparable social and economic benefits.</p> <p>The dissemination of good practices (soil restoration and water conservation) in agriculture will be especially advantageous for women and the youth by reducing the pressure on arable land and by allowing farming on larger surfaces. The creation of water points and overdeepening of ponds will facilitate the practice of new income-generating activities (market gardening).</p>	<u>X</u>	
<u>Principe 6 : Core Labour Rights</u>	The project will be managed in compliance with the respective countries labor laws and regulations which forbids forced labor, children's labor and discrimination, and which allows freedom of association.	<u>X</u>	
<u>Principe 7 : Indigenous people</u>	The project may have an impact on indigenous peoples if they are present in the project implementation area		<p><u>X</u></p> <p>The environmental and social impact assessment will determine if there are indigenous peoples present in the project implementation area address potential impact with indigenous peoples in case they exist</p>
<u>Principe 8 : Involuntary Resettlement</u>	The project does not have potential risk to generate involuntary resettlement as it is not anticipated that there will be physical displacement (relocation or loss of shelter) or permanent economic displacement (loss of assets or access to assets that leads to loss of income sources or other means of livelihood).	<u>X</u>	
<u>Principe 9 : protection Natural Habitats</u>	The project has potential risks with regards to the protection Natural Habitats as there are nature parks and reserves found in the area of the project		<p><u>X</u></p> <p>The environmental and social impact assessment will address the potential impact of the project with regards to the natural habitats</p>

<u>Principe 10 : Conservation Biological Diversity</u>	<u>The project has potential risks with regards to the Conservation Biological Diversity.</u>		<u>X</u> <u>The environmental and social impact assessment will address the potential impact of the project with regards to the biological diversity</u>
<u>Principe 11 : Climate Change</u>	<u>The project does not have potential risk to generate any significant or unjustified increase in greenhouse gas emissions or other drivers of climate change.</u>	<u>X</u>	
<u>Principe 12 : Pollution Prevention and Resources Efficiency</u>	<u>The project activities will not result in any significant pollution.</u> <u>The project will maximize its energy efficiency by using solar energy instead of thermal power for pumping water.</u> <u>The project will promote and disseminated water conservation techniques</u>	<u>X</u>	
<u>Principe 13 : Public Health</u>	<u>The project has potential risks with regards to public health.</u>		<u>X</u> <u>The environmental and social impact assessment will address the potential impact of the project with regards to public health</u>
<u>Principe 14 : Physical and Cultural Heritage</u>	<u>The project has potential risks with regards to physical and cultural heritage.</u>		<u>X</u> <u>The environmental and social impact assessment will address the potential impact of the project with regards to physical and cultural heritage</u>

Principle 15 : Lands and Soil Conservation	The project does not have potential risk with regards to <u>lands and soil conservation.</u> <u>One of the objective of the project is to support soil restoration and conservation through the promotion of good soil restoration and conservation techniques.</u>	X	
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Checklist of environmental and social principles	No further assessment required for compliance	Potential impacts and risks—further assessment and management required for compliance
<i>Compliance with the Law</i>	+	
<i>Access and Equity</i>	+	
<i>Marginalized and Vulnerable Groups</i>		+
<i>Human Rights</i>	+	
<i>Gender Equity and Women's Empowerment</i>	+	
<i>Core Labor Rights</i>	+	
<i>Indigenous Peoples</i>		+
<i>Involuntary Resettlement</i>	+	
<i>Protection of Natural Habitats</i>	+	
<i>Conservation of Biological Diversity</i>	+	
<i>Climate Change</i>	+	
<i>Pollution Prevention and Resource Efficiency</i>	+	
<i>Public Health</i>	+	
<i>Physical and Cultural Heritage</i>	+	
<i>Lands and Soil Conservation</i>		+

PART III: IMPLEMENTATION ARRANGEMENTS

3.1. DESCRIBE THE ARRANGEMENTS FOR PROJECT/PROGRAMME IMPLEMENTATION

Implementation of the project will be realized at regional, national and local levels. Overall execution and coordination of the project will be realized under the leadership of the ECOWAS Regional Agency for Agriculture and Food (RAAF/ECOWAS) in close collaboration with ministries and other stakeholders, notably producer organizations involved in the implementation of the project at national and local levels. Several bodies will be set up for guidance and coordination of the implementation of the project at the regional and national levels: a Regional Project management Unit (RPMU) which will be set up by the RAAF/ECOWAS, a Project Steering Committee (PSC) and an Inclusive National Coordination and Concertation Platform (INCCP) supported by a Secretariat (SINCCP).

At the regional level

- **A Regional Project Management Unit (RPMU).** The RAAF/ECOWAS will set up a Regional Project management Unit (RPMU). The mission of the RPMU involves: (i) identifying and contracting with specialized technical institutions best suited for the implementation of specific activities (CILSS, CORAF, ACMAD for agro-meteorology, UICN, CGIAR-CCAFS, etc.), (ii) supporting and facilitating inclusive dialogue for the implementation of activities and fostering synergy between local and regional level and other projects/programmes implemented by other stakeholders, (iii) coordinating and facilitating the operational implementation of activities in close collaboration with beneficiary countries at the national and sub-national/local level, (iv) monitoring and evaluation as well as reporting (in particular to BOAD and the steering committee). The RPMU will be responsible for drafting the Programme of Work and Budget (PWB) which will be submitted to the steering committee for approval. It will be composed of (i) a Coordinator, (ii) programme officers (including an expert on monitoring and evaluation) in charge of monitoring the implementation of component activities of the project and (iii) an administrative support staff. The expert on monitoring and evaluation will be responsible in particular for disseminating lessons learned as well as disseminating results of the implementation of project within other international knowledge sharing platforms.
- 1) **A Project Steering Committee (PSC).** The PSC is responsible for (i) providing overall guidance for the implementation of the project, (ii) validating the programme of Work and Budget (PWB), (iii) suggesting reorientation of activities of the project, (iv) providing recommendations and guidance as regards next steps for the implementation of the project. The Committee will meet once a year to take stock of the implementation of the Annual Programme of Work and Budget (APWB). The PSC will be composed of statutory members and observers. Statutory members will include the Director of the RAAF/ECOWAS, a representative of Regional Economic Communities (UEMOA, CEDEAO), key technical international and regional organizations working on climate change adaptation in agriculture (CILSS, CORAF, ACMAD), a representative of the Inclusive national dialogue and coordination platform (INCCP), a representative of regional producer organizations and civil society²⁶. Observer members will be composed of NGOs and international organizations invited on an ad hoc basis to contribute to specific issues and analyses. A president and the vice-president of the PSC will be elected by PSC members for the whole period of the project.

At the national and local level

- **An Inclusive National Coordination and Concertation Platform (INCCP).** The mission of the INCCP is to (i) provide feedback on activities to be implemented at the national level, (ii) participate (through an elected representative) to meetings of the regional project

²⁶ In ECOWAS region, there is already a coordination mechanism/platform of regional producer organizations and the civil society which allows to get one representative designated

management Unit (RPGM), (iii) monitor implementation of activities and insure coordination and synergies between different ministries and other stakeholders, (iv) insure national priorities are taken into account. The composition of this platform will be set up after concertation in each of the 5 countries involved in the project based on principles of (i) inclusiveness representation, (ii) synergies and complementarity and (iii) concertation, dialogue and consensus.

- As regards inclusiveness, members of the INCCP will include different ministries involved in the climate change adaptation in agriculture (ministries in charge of environment, agriculture, livestock, fisheries, transport and meteorology, etc.), beneficiaries (producer organizations and farmers), local authorities (regional councils, local governments etc.) in the 12 zones of the project (areas of implementation), local and international NGOs, financial and technical partners implementing activities related to climate change adaptation in agriculture.
- As regards the principle of synergies and complementarity, an initial analysis will be conducted in all beneficiary countries to identify existing concertation and coordination mechanisms as regards climate change adaptation in agriculture. In countries where such platforms exist already, the INCCP will build on these existing platforms and may adapt to include some members for specific needs of the project. In countries where such platforms does not exist at all, the INCCP will be set up to fulfill the mission of the project. This principle is important in order to build on existing concertation mechanisms and avoid multiplication of concertation and coordination mechanisms. The principle insures also ownership and sustainability of activities of the project.
- Concerning the principle of concertation, dialogue and consensus and given the diversity of institutional and administrative situation/arrangements in the 5 countries, consultations will be organized at national level to set up an appropriate INCCP. The platform will insure that all stakeholders participate and contribute to the implementation of the project at the local level
- **A Secretariat of the Inclusive National Coordination and Concertation Platform (SINCCP).** To be operational, a technical secretariat of the INCCP will be set up. The mandate of the secretariat is to support activities of the president of the INCCP (draft report to be submitted to the INCCP, animate the concertation of the INCCP, etc.) but also so to technically liaise with the RPMU to insure better coordination between local, national and regional levels. The secretariat is composed of an expert on climate change and an assistant.

The BOAD, in its capacity as regional implementation entity, will supervise the implementation of the project in accordance with the Fund's management rules. To this end, it will issue its no objection to the work program of the RPMU as well as the procedures for acquiring goods and services.

The Bank will conduct periodic supervision missions of the project on the ground and draft reports to the Fund. Through its missions, the Bank will provide technical support for the smooth implementation of the project. Under the procedures of the Fund, the Bank will develop on the basis of RPMU's monitoring reports and its supervision missions, periodic monitoring reports including the annual activity report, the mid-term and the final evaluation reports.

3.2. DESCRIBE THE MEASURES FOR FINANCIAL AND PROJECT/PROGRAMME RISK MANAGEMENT

A comprehensive analysis of the financial framework and risk management of the project will be developed during the formulation of the full proposal of the project. This framework will be specified in the procedural and operational manual to be agreed upon between the main stakeholders (BOAD, RAAF and Adaptation Fund).

In a bid to manage financial risks, a reference framework will be established to specify the modalities of budget and fiduciary management that will govern the relations and operation of the entities involved in implementing the project. The financial management policies of beneficiary countries, BOAD and the Adaptation Fund will be integrated and reflected in this framework.

3.3. DESCRIBE THE MEASURES FOR ENVIRONMENTAL AND SOCIAL RISK MANAGEMENT IN LINE WITH THE ENVIRONMENTAL AND SOCIAL POLICY OF THE ADAPTATION FUND

An environmental and social impact study will be conducted during the formulation of the final project document (full proposal). An environmental and social management plan will be produced and implemented during the project implementation phase.

3.4. DESCRIBE THE MONITORING, EVALUATION AND CAPITALIZATION ARRANGEMENTS AND PROVIDE A BUDGETED M&E PLAN

A monitoring-evaluation mechanism for the project activities will be implemented to assess the progress made towards achieving the outcomes and objectives of the project. It will allow to identify the strengths and weaknesses in the project implementation in order to take the necessary actions in a timely manner. Internal monitoring will be entrusted to the Regional Project Management Unit (RPMU) based at RAAF. In each beneficiary country, the RPMU will carry out two joint annual monitoring missions to assess the smooth operation of project activities in close collaboration with the inclusive national coordination and concertation platform (INCCP). A monitoring mission will be carried out to make recommendations to the Steering Committee. A project monitoring and evaluation plan will be developed and an expert on M & E will be hired to insure follow up of the project in lines with targets and indicators.

During the project implementation, technical support will be provided to the technical services and producers' organizations for the development of simple participatory monitoring and evaluation tools.

Monitoring and evaluation will be done through:

- Evaluation and planning meetings with stakeholders;
- Quarterly reports and annual reviews by the project team;
- Field visits.

Annual evaluation: An annual evaluation conducted by RPMU in close collaboration of the INCCP will be submitted to the Project Steering Committee (PSC). It will address the progress made towards achieving the objectives, the lessons learned, risk management, budget implementation and the challenges related to the implementing of the project. This evaluation will also cover the technical and financial aspects.

Mid-term evaluation: This will be conducted to assess the efficacy, efficiency and relevance of the activities implemented in the context of the project. The report produced will highlight issues that require decisions and actions, and the first lessons learned from the formulation, implementation and management of the project. If necessary, reorientation of some activities will be recommended. According to BOAD rules, a mid-term evaluation is mandatory for projects of more than 3 years.

Terminal evaluation and ex-post evaluation: It will be conducted at the end of the project and recommendations should also be made on additional measures to strengthen project sustainability. According to BOAD rules, an independent assessment (including financial audit) is mandatory for projects of more than 3 years

The Capitalization will be done by the RAAF/ECOWAS during the project implementation to sustainably strengthen institutional capacities

3.5. INCLUDE A RESULTS FRAMEWORK FOR THE PROJECT PROPOSAL, INCLUDING MILESTONES, TARGETS AND INDICATORS

This section will be developed during the drafting of the project document (full proposal)

3.6. DEMONSTRATE HOW THE PROJECT/PROGRAMME ALIGNS WITH THE RESULTS FRAMEWORK OF THE ADAPTATION FUND

This section will be developed during the drafting of the project document (full proposal)

Project Objective(s) ²⁷	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)

²⁷ The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology but the overall principle should still apply

Project Outcome(s)	Project Outcome Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)

3.7. INCLUDE A DETAILED BUDGET WITH BUDGET NOTES, A BUDGET ON THE IMPLEMENTING ENTITY MANAGEMENT FEE USE, AND AN EXPLANATION AND A BREAKDOWN OF THE EXECUTION COSTS

This section will be developed during the drafting of full proposal project.

3.8. INCLUDE A DISBURSEMENT SCHEDULE WITH TIME-BOUND MILESTONES

This section will be developed during the drafting of the of full proposal project.

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

- A. Record of endorsement on behalf of the government²⁸** *Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:*

(Enter Name, Position, Ministry)	Date: (Month, day, year)
----------------------------------	--------------------------

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

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (i) Regional Agricultural Investment Plan (RAIP), ii) National Agricultural Investment Plans (NAIPs), iii) National Adaptation Programme of Action (NAPAs), iv) National Adaptation Plans (NAPs) and v) national communications.) and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.	
Almamy MBENGUE	
Directeur de l'Environnement et de la Finance Climat (BOAD) Implementing Entity Coordinator	
Date: January, 11 th , 2016	Tel. and email: ambengue@boad.org
Project Contact Person: Ms Fatoumata T. SANGARE	
Tel. And Email: +228 22 23 27 96/ ftoure@boad.org	

⁶. EACH PARTY SHALL DESIGNATE AND COMMUNICATE TO THE SECRETARIAT THE AUTHORITY THAT WILL ENDORSE ON BEHALF OF THE NATIONAL GOVERNMENT THE PROJECTS AND PROGRAMMES PROPOSED BY THE IMPLEMENTING ENTITIES.

1. ANNEXES

ANNEXE 1 -: LIST OF PERSONS MET DURING FIELD VISITS 1

PROJET PROMOTION DE L'AGRICULTURE INTELLIGENTE EN AFRIQUE DE L'OUEST				
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M.ISSA IDI	Conseiller au secrétariat Exécutif du CNEDD/Division changement et variabilités climatiques			

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Dr MOUSSA HASSANE		Chercheur à l'Institut National Agronomique au Niger (INRAN). Spécialiste de l'Environnement Ancien DG de l'INRAN			
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M.ATTIKOU AMADOU		Coordonnateur régional de l'initiative 3N de Tillabéry			
M.YAHAYA TANKARI		Secrétaire général de la région de DOSSO			
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MOUSSA MAMA IDI	Producteur Toumboutou	67399733	
ASSANE AZIZOU	Producteur Toumboutou	96805062	
SINA GATCHI	Producteur Toumboutou		
KOTOKOLI ISSIAKA	Producteur Toumboutou	96457605	
FARAM AMANI	Producteur Toumboutou	62150187	
DAOUDA MADJIDOU	Producteur Toumboutou	96910578	
GAKOE MACHAOUDOU	Producteur Toumboutou	97159883	
ISSAKA DAOUDA	Producteur Toumboutou	96463378	
BANGNA BOUKARI	Producteur Toumboutou	67526955	
ISSAKA ASSIA	Producteur Toumboutou		
ZIKA BACHIROU	Malanville SCDA	97151961	

KOSSOUKOE ROUFAI	Producteur Toumboutou	66693870	
ARZOUMA DJIBRIL	Agent de la mairie -	97131285	
NOMA YACOUBOU	Agent de la mairie -	97132953	
GODJI A. IBRAHIM	Agent de la mairie Direction Technique	97447093	
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BAWA SANNI BASSIDOU	Toumboutou Malanville	94149191 / 97865335	
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ELEGBE Valentin	Agent de la mairie	95 17 21 25	
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DAOUDA Madjolou	Producteur Rizerie Malanville	96 91 50 78	
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DJATAOU MAIMOUNA	Mairie Malanville	62347750 / 64585608	

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MOUSSA MAMA IDI	Producteur Toumboutou	67399733	
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FARAM AMANI	Producteur Toumboutou	62150187	
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GAKOE MACHAOUDOU	Producteur Toumboutou	97159883	
ISSAKA DAOUDA	Producteur Toumboutou	96463378	
BANGNA BOUKARI	Producteur Toumboutou	67526955	
ISSAKA ASSIA	Producteur Toumboutou		
ZIKA BACHIROU	SCDA/Malanville	97151961	
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**ANNEXE 2 : MAIN CONCLUSIONS AND RECOMMANDATIONS OF THE VALIDATION WORKSHOP OF THE CONCEPT NOTE :
“PROMOTING SMART AGRICULTURE TO CLIMATE CHANGE FOR FOOD SECURITY IN WEST AFRICA”- (6, JANUARY
2016, LOMÉ TOGO)**

Introduction



1. As part of the call for proposal of the Adaptation Fund, ECOWAS in collaboration with the West African Development Bank, FAO and the Designated National Authorities (DNAs) of Benin, Burkina Faso, Ghana, Niger and Togo have made a pre-concept note which was accepted. It focuses on promoting the scaling of smart agriculture to climate change that will allow the adaptation of populations to the impacts of climate change and its resilience to food insecurity;

2. The project aims to: i) promote the dissemination of good practices for adaptation of populations to the impacts of risk and changes, ii) to ensure the integration of best practices for

adaptation to climate risks in strategies and agricultural projects at national and regional and sub regional level iii) insure knowledge management on good practices for adaptation of agriculture to climate risks;

3. Wednesday, January 6, 2016, was held in the conference room of the West African Development Bank (BOAD) in Lome, Republic of Togo, a validation workshop of the "concept note" of the said project. The workshop saw the participation of BOAD teams, ECOWAS-RAAF, FAO, the Designated National Authorities (DNAs) of the Adaptation Fund, in charge of the Ministries of Agriculture, Representatives of the countries concerned (Benin, Burkina Faso, Ghana, Niger and Togo. Attached is the list of attendance.
4. The meeting for the validation of the Concept Note was jointly organized by (BOAD), the Regional Agency for Agriculture and Food (RAAF) ECOWAS and FAO.

Purpose of the workshop

5. The overall objective of the workshop was to discuss the concept note of the project "Promoting climate-smart agriculture" to be submitted to the Adaptation Fund.
6. More specifically, the workshop aimed at:
 - informing recipient countries of the call for proposal of the projects.
 - Discussing the activities and proposals of project implementation mechanisms;
 - Identifying the need for additional information to strengthen link between the concept note of the regional project, national priorities of the countries concerned as well as the synergies between the activities proposed in the project and those already in progress in the area of intervention.

Opening Ceremony

7. The opening ceremony was chaired by the Director in charge of Environment, BOAD and the Executive Director of the Regional Agency for Agriculture and Food, ECOWAS.
8. All these Directors warmly thanked the Adaptation Fund, the Designated National Authorities (DNAs) and the Ministries of Agriculture of 5 Project countries for their interest in the project.
9. They also stressed that the BOAD and the ECOWAS- RAAF will spare no effort for better project formulation that will contribute to the implementation of the agricultural policy of ECOWAS (ECOWAP) reviewed for consideration of climate change dimensions.

Proceedings

10. Following the opening of the workshop, the work was chaired by Mr. Dramane Coulibaly, Resource person and moderation was provided by Dr. Ablassé Bilgo, Head of the Technical Unit of the RAAF- ECOWAS. The reporting was provided by the team of the RAAF, FAO and BOAD.
11. Work began with a brief presentation on the scheme of call for proposal focusing on criteria of eligibility and guidelines of the call for proposal.
12. At this level, it was recalled that the eligible projects are those that should be of great value, innovative and regional activities, a cost/effectiveness ratio acceptable and a coordination mechanism developed at regional and national level. In addition, each beneficiary country should demonstrate its commitment through a letter of endorsement.
13. After this initial presentation, the second focused on the "concept note". It came with a comprehensive presentation of the note which main points are the three components of the project, broken down into expected results and activities and institutional anchorage.
14. Component 1 will be devoted to the dissemination of good practices for adaptation to climate risks locally.

15. Component 2 will involve the integration of best practices for adaptation to climate risks in strategies and agricultural projects at national and sub regional level.
16. Component 3 will be the knowledge management on best practices for adaptation of agriculture to climate risks.
17. At the institutional level, it is noted that the coordination of the project will be provided by the Regional Agency for Agriculture and Food ECOWAS (ARAA) with a Project Management Unit based at its headquarters and BOAD will ensure the financial management of the project.

1. Presentations and discussion during the workshop

18. Following the two presentations, contributions, comments and clarification questions were addressed by the participants to finalize the concept note.
19. In respect of questions:

Clarification of the questions focused on the value added at institutional, technical and financial; the contents of the innovative nature of the project; country engagement; criteria and targeting the role of BOAD.

Satisfactory responses have been made to various points. On the specific role of the BOAD, it was clarified that BOAD should not be part of the project management unit or the steering committee. BOAD will issue only non-objection on the implementation of project activities as it will provide the mandate for the management of financial resources.

As for the identified activities, it was also recalled that a field mission was carried out in the countries to diagnose the priorities of national stakeholders, including exchanges by phone or by mail, and the interventions of experts from the FAO Representation in countries allowed the identification of three components of the project activities declined. So the question of consistency with national priorities is assured.

20. In respect of contributions and comments:

The participants made comments and suggestions which will be taken into account in the development of the full note. In addition, the question of definitions, harmonization of concepts, correction of certain data, the issue of sensitization of stakeholders, taking account of certain activities such as reducing post-harvest losses, and supplemental irrigation, the clear use of the terms climate change, lack of socio environmental impact assessment, highlighting the link between strategies / policies of the countries and the project, capacity building has been sufficiently addressed.

It was agreed to review the institutional arrangement setting out the general guidelines and the details should be made at the time of formulation of the document of the full project will be the third phase of the process.

21. At the end of the workshop, the draft concept note has been validated and endorsed by the Designated National Authorities. Only Ghana AND who became represented endorse the draft next week. The team in charge of project formulation work will take into account all the needs of countries for finalizing the Concept Note before submission to the Adaptation Fund. Countries thanked the Adaptation Fund and requested funding for this project that meets national and regional priorities to allow populations resilience to climate change impacts.

List of Participants to the validation workshop of the concept note Lomé-Togo, 6 January 2016

Name	STRUCTURE / country	FONCTION	CONTACT (Téléphone – Email)
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ANNEXE 3 : DEMOGRAPHIC AND ECONOMIC CHARACTERISTICS OF THE COUNTRIES AND REGIONS CONCERNED BY THE PROJECT

Country	Area	Total Population (Millions)	Population in project areas in each country	Growth	population over national population per capita		per capita GNI in 2014	Ratio of the poor according to the national poverty line (% of population)	Share of agriculture	Cereal yield in 2013	Major food crops
					Million	% total					
<u>Benin</u>	<u>114760</u>	<u>10,598</u>	<u>1373 000</u>	<u>2,7</u>	<u>5,960</u>	<u>56,2</u>	<u>890</u>	<u>36,2% (en 2011)</u>	<u>35,9</u>	<u>1 433</u>	<u>Maïs, riz, sorgho,</u>
<u>Burkina Faso</u>	<u>274 220</u>	<u>17,589</u>	<u>3 891 352</u>	<u>3,08</u>	<u>12,484</u>	<u>71,0%</u>	<u>700</u>	<u>46,7% (en 2009)</u>	<u>22,4</u>	<u>1 157</u>	<u>Maïs, riz, sorgho, millet</u>
<u>Ghana</u>	<u>238.537</u>	<u>25,75</u>	<u>4 394 420</u>	<u>2,19%</u>	<u>12,484</u>	<u>48,48</u>	<u>1590</u>	<u>24,2% (en 2012)</u>	<u>32</u>	<u>1 689</u>	<u>Maïs, riz, sorgho</u>
<u>Niger</u>	<u>1 267 000</u>	<u>19,11</u>	<u>4 600 386</u>	<u>3,8</u>	<u>15,583</u>	<u>81,54</u>	<u>410</u>	<u>48,9% (en 2011)</u>	<u>39</u>	<u>424</u>	<u>Maïs, riz, sorgho, millet</u>
<u>Togo</u>	<u>56,785</u>	<u>6,817</u>	<u>1 498 214</u>	<u>2,6</u>	<u>4 ,306</u>	<u>60,47</u>	<u>570</u>	<u>58,7% (en 2011)</u>	<u>38,4</u>	<u>1 258</u>	<u>Maïs, riz, sorgho</u>

Sources :

National Statistics Departments (Burkina Faso, Benin, Togo), World Bank 2014 General Census of Agriculture and Livestock, 2007 (Niger), 4th National Census of Agriculture, 2014 (Togo); West African Agriculture and Climate Change: Exhaustive analysis: Ghana (Delali K. et al in December 2012).

ANNEXE 4 : INDICATIVE LIST OF PROJECTS ON THE ADAPTATION OF AGRICULTURE TO CLIMATE CHANGE IN NIGER, TOGO, BENIN, GHANA AND BURKINA FASO

<u>Projets</u>	<u>Pays</u>	<u>Objectifs</u>	<u>possibles Synergies</u>
<u>Projet d'Actions Communautaires pour la Résilience Climatique (PACRC)</u>	<u>NIGER</u>	<u>Improved protection of populations and production systems</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Programme Stratégique pour la Résilience Climatique (PSRC) du Niger</u>		<u>significant contribution in foresight and useful climate information</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Projet Résilience Agricole-PANA</u>		<u>Strengthening the capacity to adapt to climate change in agriculture and water</u>	<u>Knowledge management</u>
<u>Programme d'Action Communautaire-PAC 2 et 3</u>		<u>Improving the capacity of municipalities to design and implement participatory manner communal development plans and annual investment plans</u> <u>Reduction of land degradation and promote sustainable land management</u>	<u>land conservation</u> <u>Water management</u> <u>Knowledge management</u>
<u>Programme d'Appui au Secteur Rural (PASR)</u>		<u>Strengthening the capacity of actors to operationalize the 3N Initiative</u> <u>Creating favorable conditions for a sustainable increase in production and rural incomes</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Projet d'Appui au Développement de l'Irrigation Privée au Niger (PADIP)</u>		<u>Evaluation of the different dynamics of peasant irrigation in Niger and identification of relevant accompanying and monitoring the expansion of irrigation measures</u> <u>Capacity building of farmers' organizations in the assessment management and monitoring of smallholder</u>	<u>Knowledge management</u>

<u>Projet d'Intensification de l'Agriculture par le Renforcement des Boutiques d'Intrants</u>	<u>NIGER</u>	<u>sustainable improvement in productivity of rainfed crops</u> <u>Strengthening and improving existing BI</u>	<u>Water management</u> <u>Knowledge management</u>
<u>Projet de Gestion Intégrée des Ecosystèmes dans les Régions Transfrontalières entre le Niger et le Nigeria</u>		<u>Development of integration , harmonization and cross-border cooperation strategies</u> <u>Capacity building for the promotion of local values</u>	<u>Knowledge management</u>
<u>Projet Formation et Vulgarisation des Techniques Pratiques pour l'Atténuation des Effets de la Désertification et l'Amélioration des Revenus des ménages du Sahel</u>		<u>Vulgarisation et pérennisation de la technique pratique "Système de la petite jachère dans les champs"</u>	<u>Knowledge management</u>
<u>Programme d'Appui au Développement Local (PADEL)</u>	<u>NIGER</u>	<u>Promote local economic development,</u> <u>Improve food security by increasing accessibility,</u> <u>Reduced incidence of wasting and reducing malnutrition,</u> <u>Capacity Building of Local Authorities in Planning,</u> <u>Programming project management for socio-economic structuring investments</u>	<u>Knowledge management</u>
<u>Projet d'appui à l'agriculture sensible aux risques climatiques (PASEC)</u>		<u>Adaptation of agricultural practices, food chains and social policies</u> <u>Increasing agricultural productivity and resilience to drought of agro-forestry-pastoral production system in households and target communities</u> <u>Improved capacity to respond promptly and effectively to any crisis or eligible emergency</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>NEER-Tamba : Projet de Gestion Participative des</u>	<u>Burkina Faso</u>	<u>Improvement of living conditions of the rural poor in the project area</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u>

<u>Ressources naturelles et de Développement rural</u>			<u>Knowledge management</u>
<u>GCP/BKF/054/LDF Intégrer la Résilience Climatique à la production Agricole et pastorale pour la Sécurité Alimentaire dans les Zones Rurales vulnérables à travers l'Approche Champ Ecole des Producteurs</u>		<u>Strengthening the agricultural sectors and pastoral capacities of Burkina Faso to address climate change by signing the practices and strategies to adapt to climate change (ACC) in agricultural development initiatives in progress , agricultural policies , programming and increasing adoption of practices and CCA technologies by farmers through a CEP network already established . "</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>PNGT II : Programme National de Gestion des terroirs II phase 3</u>		<u>Strengthen the capacity of rural communities and decentralized structures the implementation of local development plans that promote sustainable management of land and natural resources and economic investments in common ...</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Land and Water Management Project FAO/TCP</u>	<u>GHANA</u>	<u>Support land and water management</u>	<u>land conservation</u> <u>Water management</u>
<u>Support transition towards climate-smart agriculture food systems</u>		<u>Promote CSA</u>	<u>Knowledge management</u>
<u>Adaptation of Agro Eco Systems to Climate Change (AAESCC)</u>		<u>Promote sustainable agriculture system of production</u>	<u>Knowledge management</u>
<u>Northern Rural Growth Programme (NRGP)</u>		<u>Food Security and nutrition</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Ghana Agriculture Sector Investment Programme (GASIP)</u>		<u>Food Security and nutrition</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Ghana Adaptation Fund Project</u>		<u>Promote agriculture adaptation to climate change</u>	<u>land conservation</u> <u>Water management</u> <u>Livestock mobility</u> <u>Knowledge management</u>
<u>Project to Support Agricultural</u>	<u>Togo</u>	<u>To contribute to the improvement of food security</u>	<u>Water management</u> <u>Knowledge management</u>

<u>Development in Togo (2011-2016)</u>		<u>and incomes of small farmers through the improvement of production and productivity of the targeted farms rice, maize and cassava as well as through the promotion and marketing targeted agricultural production.</u>	
<u>Planned areas for agricultural development (ZAPP)</u>		<u>Occupation of land all year</u> <u>Avoid pressure on the forest during the dry season</u>	<u>land conservation</u> <u>Water management</u> <u>Knowledge management</u>
<u>Project to support the agricultural sector (PASA)</u>		<u>rehabilitate and strengthen the productive capacities of targeted beneficiaries in selected sectors and</u> <u>Promote an institutional environment suitable to the development of the agricultural sector</u>	<u>Knowledge management</u>
<u>Agricultural Productivity Program in West Africa - Togo Project (PPAAO – Togo)</u>		<u>Generate, adapt and disseminate a range of improved sustainable production technologies of the main plant products (corn, rice, sorghum, cassava, yam, cowpea, groundnut, tomato, pineapple, cashew) and animals (poultry, small ruminants and swine);</u> <u>• Enhance the efficiency, performance and sustainability of agricultural extension services</u>	<u>Knowledge management</u>
<u>Programme intégré d'adaptation aux changements climatiques dans le secteur agricole dans 4 zones agro-écologiques vulnérables (2011-2015). Une mise à échelle est envisagée.</u>	<u>Benin</u>	<u>Make available to actors and farming communities advice and warning of significant weather and climate events announced , damaging production systems</u>	<u>Knowledge management</u>
<u>Projet de renforcement de l'Information sur le climat et système d'alerte précoce en Afrique pour un développement résilient au</u>		<u>Strengthen monitoring capacities, early warning systems and the availability of information on climate change to cope with climate shocks</u>	<u>Knowledge management</u>

<u>climat et adaptation aux changements climatiques</u>		<u>and plan adaptation to climate change in Benin</u>	
<u>Projet de Renforcement de la gouvernance locale en matière de financement de l'adaptation aux changements climatiques</u>		<u>Contribuer à combler le déficit de financement de l'adaptation aux changements climatiques au niveau des collectivités locales tout en développant leur capacité institutionnelle et technique pour faire face aux risques et défis climatiques dans le processus de développement local.</u>	<u>Knowledge management</u>

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

- A. Record of endorsement on behalf of the government²⁸** *Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:*

(Enter Name, Position, Ministry)	Date: (Month, day, year)
----------------------------------	--------------------------

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

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (i) Regional Agricultural Investment Plan (RAIP), ii) National Agricultural Investment Plans (NAIPs), iii) National Adaptation Programme of Action (NAPAs), iv) National Adaptation Plans (NAPs) and v) national communications.) and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

Almamy MBENGUE

Directeur de l'Environnement et de la Finance Climat (BOAD)

Implementing Entity Coordinator

Date: January, 11th, 2016

Tel. and email: ambengue@boad.org

Project Contact Person: Ms Fatoumata T. SANGARE

Tel. And Email: +228 22 23 27 96/ ftoure@boad.org

⁶ EACH PARTY SHALL DESIGNATE AND COMMUNICATE TO THE SECRETARIAT THE AUTHORITY THAT WILL ENDORSE ON BEHALF OF THE NATIONAL GOVERNMENT THE PROJECTS AND PROGRAMMES PROPOSED BY THE IMPLEMENTING ENTITIES.



REPUBLIQUE DU BENIN

MINISTERE DE L'ENVIRONNEMENT, CHARGE DE LA GESTION
DES CHANGEMENTS CLIMATIQUES, DU REBOISEMENT ET DE LA PROTECTION
DES RESSOURCES NATURELLES ET FORESTIERES

AUTORITE NATIONALE DESIGNEE DU BENIN POUR LE FONDS D'ADAPTATION

Cotonou, 6th January 2016

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 "Enhancing the resilience to climate change of populations in West Africa by promoting the dissemination of practices of Climate Smart Agriculture".

In my capacity of Benin's Designated National Authority for the Adaptation Fund, 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 the climate change in Benin.

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by the Banque Ouest Africaine de Développement (BOAD) in collaboration with the Economie Community of West African States (ECOWAS) and executed by the General Directory of Climate Change (GDCC) of Benin.

Designed National Authority,

Ibila DJIBRIL

CC:

- M. Théophile C. WOROU, Minister of Environment in charge of Climate Change
- SG du Ministère de l'Environnement
- SG du Ministère de l'Agriculture
- Directeur Général des Changements Climatiques



ADAPTATION FUND



Burkina Faso
Unité-Progrès-Justice

Letter of Endorsement by Government

Ouagadougou, January 6th, 2016

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 "Enhancing the resilience to climate change of populations in West Africa by promoting the dissemination of practices of Climate Smart Agriculture".

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 of, and risks, posed by climate change in Burkina Faso.

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by Banque Ouest Africaine de Developpement (BOAD) in collaboration with The Economic Community of West African States (ECOWAS) and executed by technical Ministries and actors of Burkina.

Sincerely

Mr. Lassana KABORE

Adaptation Fund- National Authority Designed
Directeur Général.

de la Coopération du Ministère de l'Economie et des Finances
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January 8th, 2015

The Adaptation Fund Board
C/O Adaptation Fund Board Secretariat
Email: Secretariat@Adaptation-Fund.Org
Fax: 202 522 3240/5

**ENDORSEMENT FOR PROJECT “ENHANCING THE RESILIENCE TO CLIMATE
CHANGE OF POPULATIONS IN WEST AFRICA BY PROMOTING THE
DISSEMINATION OF PRACTICES OF CLIMATE SMART AGRICULTURE”.**

In my capacity as designated authority for the Adaptation Fund in Ghana, 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 Ghana.

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by Banque Ouest Africaine de Development (BOAD) in collaboration with the Economic Community of West African States (ECOWAS) and executed by the Directorate in charge of Environment in Ghana.

Kindly accept our assurances of highest esteem

A handwritten signature in blue ink, appearing to read 'Mahama'.

HON. MAHAMA AYARIGA (MP)
MINISTER



ADAPTATION FUND



Letter of Endorsement by Government of Niger

Niamey, 6th January 2016

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 "Enhancing the resilience to climate change of populations in West Africa by promoting the dissemination of practices of Climate Smart Agriculture".

In my capacity as designated authority for the Adaptation Fund in Niger, 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 Niger.

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/ programme will be implemented by Banque Ouest Africaine de Développement (BOAD) in collaboration with the Economic Community of West African States (ECOWAS) and executed by Conseil National de l'Environnement pour un Développement Durable of Niger in collaboration with ECOWAS Regional Agency for Agriculture and Food (RAAF).

Sincerely,

Dr KAMAYE Maâzou

Adaptation Fund- National Authority Designed

REPUBLIQUE TOGOLAISE
Travail Liberté Patrie

Ministère de l'Environnement et des Ressources Forestières

Direction de l'environnement



ADAPTATION FUND



Letter of Endorsement by Government

Lomé, 6th January, 2016

To: The Adaptation Fund Board

C/o Adaptation Fund Board Secretariat

Email: Secretariat@Adatation-Fund.org

Fax: 202 522 3240/5

Subject: Endorsement for Project «Enhancing the resilience to climate change of populations in West Africa by promoting the dissemination of practices of intelligent agriculture».

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 Banque Ouest Africaine de Développement (BOAD) and executed by Direction de l'Environnement du Togo with ECOWAS Regional Agency for Agriculture and Food (RAAF).

Sincerely,



Thiyu ESSOBIYOU

Directeur de l'Environnement
Adaptation Fund National Designated
Authority

FA Observations	
<p>b) (i) The concept should elaborate on the linkages of the proposed project with national and regional initiatives and programmes in the same region and sectors, and explain how it avoids duplication and is complementary with them. In doing so the concept should reflect the potential complementarity with the fully-developed project document for Niger submitted by BOAD for consideration by the Board;</p>	<p>(in yellow page 29) Considering the intervention zone (agro-ecological and transboundary transition), its scale (several contiguous regions of various neighboring countries) and its intervention approach (scaling up of good climate adaptation practices in agriculture by local actors), risks of duplication is limited (few projects with regional approaches). However, a complete mapping of potential overlapping activities will be carried out at the stage of drafting the full proposal of the project. At the level of beneficiary countries, complementarities and synergies will be developed with the others projects related to climate change adaptation in agriculture in the zones of intervention.</p> <p>(in yellow page 12) At the regional level, complementarities will be developed with the “Regional Projects to support Pastoralism in the Sahel (PRAPS, a project funded by the World Bank) covering Burkina, Mali, Mauritania, Niger, Senegal and Chad and implemented by the CILSS and the beneficiary countries. This proposal project will seek synergies and complementarity by covering costal countries (Togo, Ghana and Benin) not covered by PRAPS but where issues related to climate change and pastoralism are very critical. Transhumant corridors covers Sahelian and costal countries and a regional approach to address climate change and pastoralism in all involved countries is key. A detailed and comprehensive mapping of all projects and programme related to climate change adaptation in agriculture will be realized to highlight synergies with other initiatives in the country.</p> <p>At the level of beneficiaries’ countries, complementarities and synergies will be developed with, among others:</p> <ul style="list-style-type: none"> • The agricultural chapter of national adaptation action programmes; • The project Community-based actions for Climate resilience (PACRC) with the objective of “improving the protection of populations and production systems against climate change and variability in the targeted communes”

	<p>implemented since 2012 in 2017.</p> <ul style="list-style-type: none"> • Strategic Programme for Climate Resilience (PSRC) in Niger, funded by African Development Bank (AfDB); • The Project to support climate change-sensitive agriculture (PASEC), funded by the World Bank; • The proposal project for Enhancing Resilience of Agriculture to Climate Change to Support Food Security in Niger, through Modern Irrigation Techniques submitted by BOAD to the adaptation fund • Etc. <p>in the area of Dosso, the proposal project for Enhancing Resilience of Agriculture to Climate Change to Support Food Security in Niger, through Modern Irrigation Techniques submitted by BOAD to the adaptation fund and the proposal project will develop synergies and complementarities particularly in conservation and management of water for agriculture issues</p>
b) ii) The concept should further elaborate the added value of the regional approach in the project;	<p>Because of climate change, the actors of the agricultural sector of project beneficiaries countries face common challenges. The project activities will enable the sharing of knowledge and experiences and community capacity building for the climate change adaptation in agriculture.</p> <p>agricultural production patterns and socioeconomic realities are very similar in the project area, the regional approach of the project will act locally while having an impact at national and regional level</p> <p>(in yellow page 11) Through its regional and transboundary scope of action, areas of intervention (plant production and livestock production) and approach (scaling up of best practices on climate change adaptation in agriculture) and knowledge and experience sharing and production, the project has a significant replication potential in West Africa and even in other Africa regions. Regional approaches are not very common but are very important and relevant for climate change adaptation in particular. In West Africa in particular, the regional approach has been endorsed by the West African Alliance for CSA in June 2015 (Bamako, Mali) and it fits into a logic of pooling and complementarity of interventions.</p>

	<p>(in yellow page 27) The capitalization of climate adaptation actions in agriculture in the ECOWAS/UEMOA region will enhance the quality of the actions initiated and will foster scaling up of technologies and best practices related to climate change adaptation in agriculture.</p> <p>(In yellow page 28) Built on a logic of capitalizing on the achievements of interventions by sub-regional organizations (CILSS, IUCN, CORAF, ACMAD, etc.) through BOAD and RAAF to address regional issues, this project is cost effective compared to implementing activities at the national level only. This aspect is strengthened by the economies of scale induced by the mobilization of expertise familiar with sub-regional issues.</p> <p>(In yellow page 28) By focusing these actions on a transboundary agro-ecological transition zone, the project with all its activities directly related to the adaptation of agriculture to climate change, is both catalytic, pioneer and innovative in addition to its positive cost-benefit ratio. The implementation of activities such as support livestock mobility and crossborder transhumance cannot be coordinated only at the national level. Therefore regional coordination have a comparative advantage and cost-effectiveness.</p>
<p>b) (iii) The concept should further explain how national institutions would contribute to or participate in the mainstreaming of innovative practices developed by this project;</p>	<p>At the national and local level (in yellow page 34)</p> <ul style="list-style-type: none"> • An Inclusive National Coordination and Concertation Platform (INCCP). The mission of the INCCP is to (i) provide feedback on activities to be implemented at the national level, (ii) participate (through an elected representative) to meetings of the regional project management Unit (RPGM), (iii) monitor implementation of activities and insure coordination and synergies between different ministries and other stakeholders, (iv) insure national priorities are taken into account. The composition of this platform will be set up after concertation in each of the 5 countries involved in the project based on principles of (i) inclusiveness representation, (ii) synergies and complementarity and (iii) concertation, dialogue and consensus. <ul style="list-style-type: none"> • As regards inclusiveness, members of the INCCP will include different

	<p>ministries involved in the climate change adaptation in agriculture (ministries in charge of environment, agriculture, livestock, fisheries, transport and meteorology, etc.), beneficiaries (producer organizations and farmers), local authorities (regional councils, local governments etc.) in the 12 zones of the project (areas of implementation), local and international NGOs, financial and technical partners implementing activities related to climate change adaptation in agriculture.</p> <ul style="list-style-type: none"> • As regards the principle of synergies and complementarity, an initial analysis will be conducted in all beneficiary countries to identify existing concertation and coordination mechanisms as regards climate change adaptation in agriculture. In countries where such platforms exist already, the INCCP will build on these existing platforms and may adapt to include some members for specific needs of the project. In countries where such platforms does not exist at all, the INCCP will be set up to fulfill the mission of the project. This principle is important in order to build on existing concertation mechanisms and avoid multiplication of concertation and coordination mechanisms. The principle insures also ownership and sustainability of activities of the project. • Concerning the principle of concertation, dialogue and consensus and given the diversity of institutional and administrative situation/arrangements in the 5 countries, consultations will be organized at national level to set up an appropriate INCCP. The platform will insure that all stakeholders participate and contribute to the implementation of the project at the local level <p>• A Secretariat of the Inclusive National Coordination and Concertation Platform (SINCCP). To be operational, a technical secretariat of the INCCP will be set up. The mandate of the secretariat is to support activities of the president of the INCCP (draft report to be submitted to the INCCP, animate the concertation of the INCCP, etc.) but also so to technically liaise with the RPMU to insure better coordination between local, national and regional levels. The secretariat is composed of an expert on climate change and an assistant.</p>
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<p>b) (iv) The concept should explain how knowledge developed under the project could contribute to building up of adaptation knowledge at the international and regional levels, including through existing international and regional knowledge platforms;</p>	<p>(In yellow page 29) The production, management and dissemination of knowledge and lessons learnt will be key actions in all the 3 components of the project. This will be done through the production and dissemination of information via a web portal, policy briefs to policymakers, press releases, scientific publications, the creation of databases on practices and the production of awareness raising tools (documentary films, etc.). In the component 1, activities related to climate services and existing best practices in climate change adaptation in agriculture will produce knowledge that will be shared and disseminated through different networks and websites. The component on training the technicians will support the dissemination of knowledge at field level and will help to learn about feedback from the local actors in climate change adaptation in agriculture.</p> <p>Potential partnerships with key international Knowledge Management Systems like the Climate Technology Centre and Network (CTCN) will be analyzed in lines with communication strategies of the Adaptation Fund to foster the sharing and dissemination of information.</p>
<p>d) Request BOAD to transmit the observations under item (b) to the Governments of Benin, Burkina Faso, Ghana, Niger, and Togo.</p>	<p>BOAD has sent the Notification about AFB26 decision related to the pre-concept note to the Governments of Benin, Burkina Faso, Ghana, Niger, and Togo</p>
<p>e) Encourage the Governments of Benin, Burkina Faso, Ghana, Niger, and Togo to submit through BOAD a project concept that would also address the observations under item (b) above.</p>	<p>(in yellow page 30) A validation workshop of the concept note which involved the national designated authority, the representatives of the Ministry in charge of agriculture and livestock of beneficiaries' countries and some regional and international organizations was organized on the 6, January 2016 in Lomé (Togo) at the headquarters of the BOAD. This workshop was a good opportunity to have an in-depth discussion with major stakeholders on activities to be carried out in the framework of the project. The methodology adopted enabled to appreciate the potential of adaptation practices, to identify the constraints related to their scaling up, and to define appropriate support measures.</p>

Adaptation Fund Board secretariat note: These CSO comments to the regional project proposal "Promoting Climate-smart Agriculture in West Africa" were received by the secretariat on 4 February 2016 through the Adaptation Fund NGO Network. Subsequently it was clarified that the comments were prepared by Mawusé Hountondji Kodjo, ONG JVE Benin, and that the author did not object to being identified.

NOTRE COMMENTAIRE SUR LE PROJET DE LA BOAD SOUMIS AU FONDS D'ADAPTATION

PROMOTING CLIMATE-SMART AGRICULTURE IN WEST AFRICA est un projet sous régional porté par la Banque Ouest Africaine de Développement (BOAD) et soumis au Conseil d'Administration du Fonds d'Adaptation pour son financement évalué à 14 Millions de dollars.

A la lumière de nos investigations, il ressort que ce projet concerne le Niger, le Burkina Faso, le Togo, le Ghana et le Bénin. Ce projet dont l'une des grandes ambitions directes est de faire la promotion de l'agriculture familiale dans l'intention de faire face à la sécurité alimentaire et aux effets néfastes des changements climatiques a ciblé pour son exécution au Bénin les zones de l'Alibori et l'Atacora. Selon des études, ces régions font parties des huit zones agro-écologiques identifiés au Bénin et très vulnérables au changement climatique. L'agriculture pratiquée dans ces zones du Bénin est caractérisée par de petites exploitations à ressources limitées. Les principales cultures pratiquées sont les cultures vivrières (Sorgho, petit mil, riz, maïs, niébé), les cultures maraîchères (oignon, tomate, pomme de terre, piment, gombo) et les cultures de rente (coton, arachide, oignon). L'agriculture est de type extensif. Tout ce qui précède justifie à notre avis la pertinence du sujet abordé à travers ledit projet et les localités identifiés pour son exécution au Bénin.

En ce qui concerne la consultation à la base, un sondage réalisé auprès de certaines personnes ressources confirme qu'elles ont été effectivement impliquées. Il s'agit notamment de l'Autorité Nationale Désignée au Bénin qui reconnaît avoir endossé ce projet, et d'autres personnes ressources qui reconnaissent avoir été approché dans le cadre de ce projet et justifient sa pertinence pour le Bénin.

Au regard de tout ce qui précède et de notre analyse du document de projet nous reconnaissons premièrement ; qu'il existe déjà dans les zones du projet des prérequis sur lesquels les résultats envisagés pourront être atteint. Il s'agit de ce que : l'agriculture familiale est fortement pratiquée dans ces milieux, des projets d'adaptation au changement climatique tels que le Projet de renforcement des capacités d'Adaptation des acteurs Ruraux Béninois

face aux Changements Climatiques (PARBCC) qui a expérimenté un système de pré-alerte pour relayer l'information agro-météorologique pour réduire les effets de certains risques climatiques notamment, les poches de sécheresse qui sont dévastatrices sur les productions agricoles et menacent la sécurité alimentaire des communautés locales , et le Système d'Alerte Précoce (SAP)-Bénin qui permet de renforcer la prise de conscience des populations en général par rapport aux risques météorologiques/climatiques afin qu'elles se préparent en conséquence, et apprennent à mieux gérer les risques liés aux changements climatiques à long terme, avec les incertitudes qui y sont attachées ont été exécutés dans la zone.

Les retombées de la mise en œuvre d'un tel projet sont à plusieurs niveaux :

- L'amélioration du bien-être des agriculteurs et agricultrices,
- Vulgarisation des techniques modernes d'agriculture familiale,
- Synergie entre les expériences des pays de la sous-région,
- Promotion de l'adaptation à base communautaire,
- Mise en place d'un catalogue de bonne pratique en agriculture familiale,
- Renforcement des capacités techniques des agriculteurs,
- Réduire la pression sur les ressources naturelles
- Renforcement des capacités des ONG pour le suivi des acquis du projet.

Pour notre part, nous estimons que ce projet répond à une initiative d'adaptation au changement climatique qui peut véritablement aider les agricultures pour la résilience au changement climatique et garantir la sécurité alimentaire.

Bien que ce projet soit à notre avis pertinent, il repose tout de même un certain problème. Tout d'abord, le fait que le projet soit porté par une entité multilatérale va certainement défavoriser le Bénin sur bien de plans :

- Non maîtrise de tous les contours de ce projet par les nationaux,
- Le pays ne pourra pas bénéficier en termes de renforcement de capacité de ses cadres techniques tels que voulu par le fonds d'adaptation en optant pour l'accréditation des entités nationales,
- Non implication de façon active des directions techniques nationales pour l'exécution de ce projet,
- L'influence de cette institution internationale va toujours dans l'exécution des activités,
- Ce projet court le risque d'une véritable non appropriation par les différents acteurs,

Nous recommandons que le comité de pilotage de ce projet soit constitué de tel sorte que les nationaux jouent les rôles prépondérants de manière à faire gagner au pays, au-delà des résultats évoqués dans le document de projet un renforcement de capacité technico-organisationnelle de nos structures de gestion de projet.