



## PRE-CONCEPT FOR A REGIONAL PROJECT/PROGRAMME

### PART I: PROJECT/PROGRAMME INFORMATION

Title of Project/Programme:	<b>INTEGRATION OF CLIMATE CHANGE MITIGATION AND ADAPTATION MEASURES IN THE CONCERTED MANAGEMENT OF THE W TRANSBOUNDARY PARC: ADAPT-W PROJECT</b>
Countries:	Benin, Burkina Faso, Niger
Thematic Focal Area <sup>1</sup> :	Disaster risk reduction and early warning systems
Type of Implementing Entity:	RIE
Implementing Entity:	Sahara and Sahel Observatory (OSS)
Executing Entities:	Project Management Unit (PMU) hosted by OSS (Regional coordination) <b>Benin</b> : Centre National de Gestion des Réserves de Faune (CENAGREF), <b>Burkina Faso</b> : La Direction Générale des Eaux et Forêts (DGEF), <b>Niger</b> : La Direction Générale des Eaux, de l'Environnement et Forêts (DGEEF) and le Centre National de Suivi Environnemental et Ecologique (CNSEE) - (National Level PMUs)
Amount of Financing Requested:	5 MK\$ (in U.S Dollars Equivalent)

#### Project / Programme Background and Context:

The W-Arly-Pendjari (WAP) Complex (French « Parc de l'Entente ») is among the most important set of terrestrial trans-boundary ecosystems in Africa. Shared by Benin, Burkina Faso, and Niger, this network of protected areas (also called « W Trans-boundary Biosphere Reserve (TBR) ») extends over a total area of 31 000 km<sup>2</sup> to 50 000 km<sup>2</sup>, including riparian areas (43% in Benin, 36% in Burkina Faso and 21% in Niger). The WAP complex is located in the vicinity of the West African savannah belts. It displays considerable biological diversity which contributes to the economic development of West Africa. In the peripheral areas of the Complex and at a distance of about 40 km from its protected areas, are found about 350 cities and villages with a total population of one million inhabitants (about 700 000 in Benin, 200 000 in Burkina Faso and less than 100 000 in Niger) that depend essentially on the WAP Complex's natural resources for their living. The natural resources of the WAP Complex represent a major asset for the local populations whose livelihoods are based mainly on agriculture, livestock breeding, fishery, forest resources (wood and non-wood products), and tourism.

However, the WAP Complex is subject to multiple pressures and threats, mainly conflicts of use, poaching, overgrazing, extension of agricultural lands, transhumance and bush fires, surface water pollution, unsustainable production of wood, non-wood products, fishery, all these pressures are amplified by CC impacts. In addition, the WAP Complex is located in an agro-pastoral region characterized by high inter-annual variability exacerbated by climate change which makes it more vulnerable. The project will target climate phenomena that are directly

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<sup>1</sup> Thematic areas are: Food security; Disaster risk reduction and early warning systems; Transboundary water management; Innovation in adaptation finance.

impacting the WAP Complex's ecosystems and populations in the park and its vicinity. More specifically, it will focus on:

- Droughts causing uncontrolled and not mastered movement of pastors.
- Floodings becoming increasingly closely spaced in time that threaten the security of lowland populations and causes the loss of crops grown at Niger River banks.
- Crops ravaging locusts around the park and pushing people to fall back on the use of the Park's resources.
- Uncontrolled bush fires of anthropogenic and natural origin reducing forest areas
- Farmland expansion and land use change at the expense of the Complex area inducing pressures on natural resources and loss of ecosystem services such as carbon sequestration.

With all these anthropogenic and natural pressures exerted on the WAP natural resources and the adverse effects of CC, the vulnerability of ecosystems and populations is expected to increase so that the introduction of adaptation measures and resilience enhancement actions has become a must.

### Project / Programme Objectives:

The project aims to strengthen the resilience of ecosystems and to improve the WAP Complex populations' livelihoods facing CC through the establishment of a Mutli-Risk Early Warning System (MREWS) and the implementation of concrete adaptation measures. The project will also allow to consolidate synergy between the three beneficiary countries with a view to enhance the sustainable and participatory management of the Complex natural resources as well as resolving conflicts between the different users.

The overall objective will be achieved through these specific objectives:

- **Improving the resilience of population** through the provision of **relevant and timely information** on the occurrence of extreme events related to the effects of CC at the WAP complex and surroundings.
- **Improving the resilience of populations and ecosystems** (fauna and flora) through the **development of pilot infrastructure** (paths and crossings, drinkers, flood control structures, livestock market, ...).
- **Improving strategic reference documents** (development and management plans) by mainstreaming CC issues.
- **Ensuring the sustainability** of coping skills through the **mobilization** of partners and their **training programs** to master the developed tools and carried out works.

### Project / Programme Components and Financing:

Project/Programme Components	Expected Outcomes	Expected Outputs	Countries	Amount (US\$)
<b>1. Component 1:</b> Design and implementation of a CC-related disasters Multi-Risk Early Warning System (drought, floods, locust invasions, fires and land use change)	<b>R.1.</b> An Early Warning System is used by beneficiaries to handle emergencies	1.1 – A global regional Early Warning System to monitor the WAP Complex risks and vulnerability is designed. This MREWS will be as follows:  a- Observation and detection of the occurrence of catastrophes (hazard) due to climate by integrating information gathered from: i) national and local climate data (weather stations); ii) satellite imagery processing and iii) local observations provided by local communities. This component will generate warning messages about extreme weather events: droughts, floods, fires and locust invasion.  b- Assessment of risk levels and development of specific detected phenomena alerts to the exposed populations and ecosystems. Messages produced are suitable for various information channels..  c- Dissemination of near/real-time alert messages, reliable and understandable by the authorities and the population. The messages are spread through various communication	Benin Burkina-Faso Niger	1 500 000

		adapted channels, in particular: regional Web platform, mobile application, SMS, local radio and warning bulletin. d- Preparing and training local communities on the use of alerts and the deployment of an emergency plan (actions) to reduce potential impact on lives and livelihoods.		
<b>2. Component 2:</b> Integrating climate change aspects and emergency plan (MREWS) into the Park Management Plans at regional and national levels .	<b>R. 2.</b> The climate dimension and its risks as well as the emergency plan are integrated into the complex management plans	2.1 – Revised development and management plans of the WAP Complex, integrating Climate aspects are updated and adopted by the three beneficiary countries. These plans contains: a- Identification of Climate Change Adaptation measures taking into account disasters response plans. b– Action plan for implementation of the concrete adaptation measures c – Emergency plan for disasters responses are set up jointly by the three countries.	Benin Burkina-Faso Niger	300 000
<b>3. Component 3:</b> Improving the resilience of ecosystems and livelihoods of neighbouring and user populations through the implementation of concrete adaptation actions .	<b>R.3.</b> The resilience of populations and ecosystems (fauna and flora) is improved through concrete adaptation actions	3.1- Concrete pilot adaptation actions are implemented in accordance with the updated development and management Plan, in specific sites. These actions are as follows: a- Rehabilitation and protection measures of ecosystems (reforestation, rectification river banks, etc.) b- Adaptation and protection works against extreme events (paths and crossings, drinkers, flood control structures, livestock market, ...). c- Actions and Infrastructure to improve income sources (Breeding improvement centre ...).	Benin Burkina-Faso Niger	2 200 000
<b>4. Component 4:</b> Sensitizing, strengthening and capacity building on previous experiences for a concerted, integrated and sustainable management of the WAP Complex .	<b>R.4</b> Concerned actors are mobilized and sensitized through Adapted communication and capacity building	4.1- A communication strategy on the use of project outputs (MREWS, MP & infrastructures) is developed and implemented. It will consider the gender and vulnerable groups dimension and will cover the following aspects: Training of practitioners and technicians on the project's technical aspects (data collection, indicators production, adaptation measures testing and EWS use ...) a– Elaborating adapted communication tools for better dissemination of information to different categories of actors b– Establishment of an online exchange platform to share knowledge and warning messages. c– Setting up a consultation mechanism and legal frameworks to support early warnings	Benin Burkina-Faso Niger	300 000
5. Project/Programme Execution cost				350 000
6. Total Project/Programme Cost				4 300 000
7. Project/Programme Cycle Management Fee charged by the Implementing Entity (if applicable)				350 000
<b>Amount of Financing Requested</b>				<b>5 000 000 \$</b>

**Project Duration:** 4 years / 48 months

## PART II: PROJECT / PROGRAMME JUSTIFICATION

The three concerned countries (Benin, Burkina Faso and Niger) with the support of OSS propose, through the present project request, the development and implementation of a concerted and synergistic adaptation strategy to be integrated in the regional plan for the WAP Complex. This strategy will be supported by pilot concrete adaptation actions and a MREWS. (

The project will complement the development actions already undertaken in the region and will focus on adaptation to CC. It will strengthen the capacities of the national and sub-regional institutions involved in the management of the WAP Complex and adjacent areas natural resources. This project proposal is built around **four components** combining national, regional

and local actions. These components and activities to be undertaken are, as shown in the table above: i) Design and implementation of a CC-related disasters Multi-Risk Early Warning System (drought, floods, locust invasions, fires and land use change); ii) Integrating CC aspects and emergency plan (MREWS) into the Park Management Plans at regional and national levels; iii) Improving the resilience of ecosystems and livelihoods of neighbouring and user populations through the implementation of concrete adaptation actions, and iv) Sensitizing, strengthening and capacity building on previous experiences for a concerted, integrated and sustainable management of the WAP Complex.

The component 3 activities will include concrete adaptation actions to be conducted in-field with a view to reducing communities' vulnerability to CC. The fund to be granted will be used for the implementation of the emergency plan measures and for actions aiming at diversifying livelihoods, setting up structures for resources mobilization and preservation, encouraging recourse to the use of renewable energy, raising awareness (for populations, managers and technicians) at the level of the WAP Complex in terms of best management practices of natural resources. In fact, a better protection and concerted management of natural resources will be possible through the implementation of updated management plans (regional and national) integrating CC aspects and adapted to the specificities of the WAP Complex while reducing risks of conflicts. The project will also allow to build on the local know-how of the three beneficiary countries and will offer a regional platform for the exchange of experiences and effective natural management practices. These conditions will help to preserve the Complex's ecosystems and hence to improve the livelihoods of its local populations. The Multi-Risk Early Warning System and the adaptation measures to be developed under this project will generate successful lessons and ensure the validation of best practices to be documented and replicated in other areas.

In the framework of this project a regional approach will be adopted. This will allow a holistic treatment of major themes at the Complex level while taking into account the different particularities of each country. Indeed ecosystems (biotic communities, migratory wildlife, rivers and streams) and user populations (transhumant pastoralists, fishermen, etc.) directly affected by extreme weather events are transboundary. Regional, harmonized and common approach is thus needed to resolve border problems. Besides it will help maximize learning of lessons and sharing among the concerned actors and stakeholders.

The project will promote innovative solutions and new tools adapted to the regional context, it will use remote sensing and new communication technologies (as mentioned above in the table). These technologies will be used to develop the MREWS tools and messages broadcast. In addition, it will use existing linkages with relevant national level sectors and other regional forums to share lessons and policy recommendations. Also, face-to-face interactions during regional workshops and meetings will be facilitated. Furthermore, promoting innovative solutions will be through the involvement of different stakeholders and target groups (youth, women, private, NGOs, civil society and researchers) in the various activities of the project (design and involvement in system alert, updating management plan, the execution of works). This approach will foster ownership of the project and ensure its sustainability achievements.

The project activities will be designed in alignment with national and regional strategies, the expected results will help to improve the WAP management and development plan elaborated within the framework of the ECOPAS/W regional program ("Protected Ecosystems in Sahelian Africa"). The project results will also feed into the sub-regional action plan for reducing vulnerability to CC (PASR-RV-AO) adopted in 2010 by the Heads of States of the Economic Community of West African States (ECOWAS). This issue will be conducted in a participatory manner in order to be in adequacy with the national and sub-regional development plans and strategies.

The Project will allocate about **US\$ 2.200.000 to Component 3** for the implementation of concrete pilot adaptation actions for resilient and sustained W Complex ecosystems. The benefits of these actions will include improved economic productivity and better livelihoods.

This Component is the most important as it will ensure the introduction of concrete CC adaptation action in the WAP Complex, which will also allow reducing loss of incomes due to extreme events

occurrence. In addition, **US\$ 1.500.000** will be allocated to **Component 1** for the establishment of an MREWS to natural disasters and **US\$ 300.000** for the integration of climate dimension and emergency plan into the complex development and management plan within the **Component 2**. Furthermore, **US\$ 300.000** will be allocated to **Component 4**, for strengthening the capacities of institutions and communities and for knowledge management. In addition, the regional approach will enhance cost effectiveness of capacity development as well as ensuring a certain level of generic scope of tools and processes developed for future application beyond the target sites and countries. Finally, the project will provide an opportunity for networking with stakeholders concerned with CC adaptation, environment and development planning to ensure more effective and enhanced knowledge sharing.

The project **preparation** will be carried out through **four steps** involving different levels of intervention: regional, national and local: **i)** identification and definition of stakeholders and beneficiaries, **ii)** exchanges between OSS, as an implementing entity, and the identified national partners, **iii)** consultation for preliminary surveys aimed at local actors (farmers, households managed by women, vulnerable groups as indigenous peoples, etc..) and **iv)** regional workshop bringing together the different stakeholders will be organized to validate the project document that should reflect a common vision.

The project sustainability will be maintained thanks to the commitment of some of the key stakeholders targeted for capacity building including extension services staff from various categories such as forestry, agriculture, pastoralism, water, environment, and community development. After having mastered the tools elaborated in the framework of the project through training sessions, the technicians will be able to manage all the achievements even after the end of the project. In addition to the ownership of the tools the project will implement innovative solutions that will generate financial benefits that will be used to sustain the monitoring activities (eg. access fees, breed improvement center, ...).

The present project is classified under category B in accordance with the Social and Environmental Policy of the Adaptation Fund. A social and environmental assessment will be conducted as a preliminary step to the submission of the project request.

### PART III: IMPLEMENTATION ARRANGEMENTS

The project will involve regional, national and local stakeholders.

- **At the local level:** The development and implementation of the project will require the mobilization of populations and other local authorities as well as associations, NGOs, villages, women's cooperatives etc.
- **At the national level:** The project will be implemented by national executing entities that will be mandated in consultation with the Ministries in charge of Environment in the three beneficiary countries ( Benin: The Ministry of Environment in charge of Climate Change Management, Reforestation and Forest and Natural Resources Protection (MECGCCRPRNF) through the CENAGREF (Centre National de Gestion des Réserves de Faune), Burkina Faso: the Ministry of Environment, Green Economy and Climate Change through the Directorate General of Water Resources and Forests (DGEF), Niger: the Ministry of Environment and Sustainable Development through the National Center for Ecological and Environmental Monitoring (CNSEE) and Directorate General of Water Environment and Forests (DGEF).
- **At the regional level:** The project will be implemented by the Sahara and Sahel Observatory (OSS) who will serve as Regional Implementing Entity (RIE) and will be in charge of all financial, monitoring and reporting aspects to the Adaptation Fund. The project will be executed by a Project Management Unit to be hosted by OSS.

Other regional organizations active in the region will also be involved, in particular as part of the project Steering Committee (CILSS, ECOWAS, and UEMOA).

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

### A. Record of endorsement on behalf of the government<sup>2</sup>

<b>Mr. Nazaire THIOMBIANO</b> General Director for Cooperation <i>Ministry of Economy and Finance (BURKINA FASO)</i>	Date: 04/20/2016
<b>Mr. Ibila DJIBRIL</b> General Director of Climate Change Management <i>Ministry of Environment in charge of climate change management, reforestation and forest and natural resources protection (MECGCCRPRNF)(BENIN)</i>	Date: 07/31/2016
<b>Dr. Kamaye Maazou</b> Executive Secretary of the National Council of the Environment for Sustainable Development <i>Ministry of Environment and Sustainable Development (NIGER)</i>	Date: 07/16/2016

### B. Implementing Entity certification

I certify that this proposal has been prepared in accordance with the guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (PANA, ECOPAS, PAPE, PAGAP.) 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 to the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

**Mr. Khatim Kherraz** – Executive Secretary of the Sahara and Sahel Observatory (RIE)  
Implementing Entity Coordinator

Date: 08/29/2016

Tel. and email: (+216) 71 206 633 --  
[boc@oss.org.tn](mailto:boc@oss.org.tn)

Project Contact Person: *Nabil Ben Khatra*

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

<sup>2</sup> Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

MINISTERE DE L'ECONOMIE, DES FINANCES  
ET DU DEVELOPPEMENT

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SECRETARIAT GENERAL  
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DIRECTION GENERALE  
DE LA COOPERATION

0640

N° 2016 /MINEFID/SG/DG-COOP/DPPP/tn

BURKINA FASO

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Unité – Progrès - Justice

Ouagadougou, le 20 AVR 2016

Le Directeur Général a.i

to:

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

**Subject:** Endorsement for the regional project proposal « Integration climate change adaptation measures into the concerted management of the transboundary WAP Park (*Intégration des mesures d'adaptation et d'atténuation aux changements climatiques dans la gestion concertée du parc transfrontalier de l'entente : projet ADAPT – W*) » with a total budget of 5 millions USD.

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

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by OSS and executed by the national institution of Burkina Faso: **"Direction des forêts du Ministère de l'Environnement, de l'Economie Verte et du Changement Climatique"** in cooperation with the respective national institutions of Niger and Benin.

Sincerely,



**Mr Nazaire THIOMBIANO**  
Chevalier de l'Ordre du Mérite Burkinabè





ADAPTATION FUND



REPUBLIQUE DU BENIN

FRATERNITE - JUSTICE - TRAVAIL

MINISTRE DU CADRE DE VIE ET DU DEVELOPPEMENT DURABLE

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**DIRECTION GENERALE DES CHANGEMENTS CLIMATIQUES**

**Letter of Endorsement by Benin Government**

Cotonou, the 31 July 2016

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

**Subject:** Endorsement for the project proposal « *intégration des mesures d'adaptation et d'atténuation aux changements climatiques dans la gestion concertée du parc transfrontalier de l'entente : projet ADAPT – W* ».

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

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by OSS and executed by the institution "Centre National de Gestion des Réserves de Faune (CENAGREF)".

Sincerely,

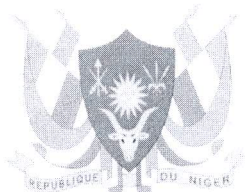
Autorité Nationale Désignée du  
Fonds d'Adaptation,

  
**Mr. Ibila DJIBRIL**



Letter of Endorsement by Government

REPUBLIQUE DU NIGER



*Fraternité - Travail - Progrès*

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CABINET DU PREMIER MINISTRE

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CONSEIL NATIONAL DE L'ENVIRONNEMENT POUR UN DEVELOPPEMENT DURABLE

SECRETARIAT EXECUTIF

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July 16, 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 the project proposal « *intégration des mesures d'adaptation et d'atténuation aux changements climatiques dans la gestion concertée du parc transfrontalier de l'entente : projet ADAPT – W* »

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

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by OSS and executed by "Direction Générale des Eaux et Forêts (DGEF) and Centre National de Suivi Environnemental et Ecologique (CNSEE)".

Sincerely,

Dr. Kamayé Maâzou

Secrétaire Exécutif du

Conseil National de l'Environnement  
pour un Développement Durable

