

REQUEST FOR CEO ENDORSEMENT

PROJECT TYPE: Full-sized Project TYPE OF TRUST FUND:LDCF

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PART I: PROJECT INFORMATION

Project Title: Strengthening climate resilience of infrastructure in coastal areas in Togo				
Country(ies):	Togo	GEF Project ID: ¹	5279	
GEF Agency(ies):	AfDB (select) (select)	GEF Agency Project ID:		
Other Executing Partner(s):	Ministry of Environment and	Submission Date:	05/23/2016	
	forest resources, Ministry of			
	Public works			
GEF Focal Area (s):	Climate Change	Project Duration(Months)	36	
Name of Parent Program (if		Project Agency Fee (\$):	848,580	
applicable):				
➤ For SFM/REDD+				
➤ For SGP				
➤ For PPP				

A. FOCAL AREA STRATEGY FRAMEWORK²

Focal Object	Area ctives			Trust Fund	Grant Amount (\$)	Cofinancing (\$)
CCA-1	(select)	Reduce the vulnerability of	Vulnerable physical and	LDCF	8,450,000	85,500,000
		people, livelihoods,	natural assets strengthened			
		physical assets and natural	in response to level sea rise			
		systems to the adverse	due to climate change and			
		effects of climate change	erosion			
CCA-2	(select)	Strengthen adaptive	Targeted population groups	LDCF	482,420	4,500,000
		capacity to reduce risks to	(concerning equally men			
		climate-induced economic	and women; in absence of			
		losses	census, we assume 50%			
			men and 50% women)			
			covered by adequate risk			
			reduction measures			
		-	Total project costs		8,932,420	90,000,000

B. PROJECT FRAMEWORK

Project Objective: Building resilience of coastal areas and related infrastructures in Togo						
Project Component	Grant Type	Expected Outcomes	cted Outcomes Expected Outputs		Grant Amount (\$)	Confirme d Cofinanci ng (\$)
Component 1 : Making infrastructure	Inv	Transport infrastructure in coastal zone in the	- Baguida sector is protected thanks to 19 new groynes, the	LDCF	7,300,000	82,000,000

¹ Project ID number will be assigned by GEFSEC.

² Refer to the <u>Focal Area Results Framework and LDCF/SCCF Framework</u> when completing Table A.

climate resilient		area of Baguida Plage and Kossi Agbavi is climate resilient	extension of an existing one and beach nourishment of 800,000 m3: looking ahead 2035 this protection system will prevent a coastal line recession of 80m. - Kossi Agbavi Sector is protected thanks to 7 new groynes, the extension of an existing one and beach nourishment of 120,000 m3: looking ahead 2035 this protection system will prevent a coastal line recession of 120m. - looking ahead 2035 about 100 ha currently jeopardized by erosion will be safeguarded. - The national road currently threatened by erosion will be protected. - About 700 houses/buildings that are currently			
			houses/buildings that			
			preserved.			
Component 2 : Capacity building for coastal management	TA	enabling environment for coastal management is reinforced	- The coastal integrated management scheme and plan of Lome SDAU_GL is strengthened and completed in the project area	LDCF	850,000	2,500,000

	conversion through:		
Increased adaptive capacity of communities in the coastal zone	conversion through: 6 existing IGAs (fishing, agro and fish processing, market gardening, small-scale trade, taxi-moto facility, traditional handcraft); 5 new IGAs (trade of gravels from inland quarries, extensive farming, trade of corn and red oil, trade of liquid soap, beadwork).		
	About 400 (64% of women, 36% of men) inhabitants benefit from technical training and financial support.		
	This diversification of activities induces reduction of illegal harvest of aggregate and gravel in coastal zones.		
	- The existing Early Warning System (EWS) is strengthened in the coastal zone of Togo		
	- 40 inhabitants and stakeholders benefit from general training dealing with sandy coast evolution so as to be abe to train in turn the rest of the local population. An equal implication between men and women is expected.		
	- 40 inhabitants (6750 people indirectly trained) and stakeholders benefit from training on adaptation to climate		

Component 3 : Knowledge Management and Monitoring & Evaluation	TA	Knowledge Management based on results based management and lessons learnt are captured and appropriately disseminated	change so as to be able to to train in turn the rest of the local population. An equal implication of men and women is expected. - Knowledge products on adaptation in coastal zones are produced and disseminated - Training support and materials produced (listed under component # below) - Aggregation of data are done by dedicated staff trained to collection techniques and data analysis - Reporting of the results is done and communicated. - Participation of stakeholders in adaptation practitioners' events (40 inhabitants per year. An equal implication of men and women is expected.)	LDCF	367,420	1,000,000
		Project m	- Monitoring and Evaluation of the project Subtotal nanagement Cost (PMC) ³	LDCF	8,517,420 415,000	85,500,000 4,500,000
		1 Toject II	Total project costs	LDCI	8,932,420	90,000,000

C. SOURCES OF CONFIRMED COFINANCING FOR THE PROJECT BY SOURCE AND BY NAME (\$)

Please include letters confirming cofinancing for the projeSct with this form

Sources of Co-financing	Name of Co-financier (source)	Type of Cofinancing	Cofinancing Amount (\$)
GEF Agency	African Development Bank	Soft Loan	90,000,000
		Total Co-financing	90,000,000

³ PMC should be charged proportionately to focal areas based on focal area project grant amount in Table D below.

D. TRUST FUND RESOURCES REQUESTED BY AGENCY, FOCAL AREA AND COUNTRY 1

G777 A	Type of		Country Name/		(in \$)	
GEF Agency	Trust Fund	Focal Area	Global	Grant Amount (a)	Agency Fee (b) ²	Total c=a+b
AfDB	LDCF	Climate Change	Togo	8,932,420	848,580	9,781,000
Total Grant Resources			8,432,420	848,580	9,781,000	

In case of a single focal area, single country, single GEF Agency project, and single trust fund project, no need to provide information for this table. PMC amount from Table B should be included proportionately to the focal area amount in this table.

F. CONSULTANTS WORKING FOR TECHNICAL ASSISTANCE COMPONENTS:

Component	Grant Amount (\$)	Cofinancing (\$)	Project Total (\$)
International Consultants	920,000	1,200,000	2,120,000
National/Local Consultants	450,000	850,000	1,300,000

G. DOES THE PROJECT INCLUDE A "NON-GRANT" INSTRUMENT? NO

(If non-grant instruments are used, provide in Annex D an indicative calendar of expected reflows to your Agency and to the GEF/LDCF/SCCF/NPIF Trust Fund).

PART II: PROJECT JUSTIFICATION

A. DESCRIBE ANY CHANGES IN ALIGNMENT WITH THE PROJECT DESIGN OF THE ORIGINAL PIF⁴

A.1 <u>National strategies and plans</u> or reports and assessments under relevant conventions, if applicable, i.e. NAPAS, NAPs, NBSAPs, national communications, TNAs, NCSA, NIPs, PRSPs, NPFE, Biennial Update Reports, etc.

The project is in line with Togo's NAPA which includes protecting and securing infrastructure, that is exposed to environmental and climatic hazards as well as implementing early warning systems. The NAPA acknowledges that coastal erosion, which resulted from the construction of hydroelectric and port infrastructure has increased in conjunction with sea level rise partly due to global warming. Recent data on coastal erosion indicates that the coastline is receding by 5m/year on average and is expected to reach 10 m/year. The NAPA recommends that protective infrastructure should be installed in coastal zones as well as building up vulnerable communities' capacity in their daily extraction of sand. Coastal erosion is also prominently mentioned in the country's first national communication as well as in its Poverty Reduction Strategy Paper (PRSP). Other environmental concerns raised are linked to water pollution, land degradation and the deterioration of natural habitats. The project is also in line with the "regional shoreline and monitoring study and management scheme for the West Africa n Coastal area" commissioned by the West African Economic and Monetary Union (UEMOA). The UEMOA report recommends that coastal management should encompass i) increasing the resistance and resilience of littoral areas occupied by people and human facilities and reducing people's vulnerability in the littoral zone; ii) identify and detect with anticipation the situations that engender risks; and iii) increase the combined individual, collective and institutional capacities to face coastal risks.

The project responds to the needs identified by the country in the framework of its national development strategy called "Stratégie de Croissance Accélérée et de Promotion de l'Emploi (SCAPE)", which has dedicated the fourth sector of its fifth pillar to an efficient management of hazards, including coastal erosion.

The National Investment Program for Environment and Natural Resources, which is the framework of

² Indicate fees related to this project.

⁴ For questions A.1 –A.7 in Part II, if there are no changes since PIF and if not specifically requested in the review sheet at PIF stage, then no need to respond, please enter "NA" after the respective question.

investments in the sector has dedicated its third component to the "mitigation of climate change effects, disaster management and risk awareness", which includes coastal erosion as a priority target.

This project is therefore compatible with the climate change adaptation options adopted by the Republic of Togo, including programs and strategies such as i) the strategic implementation of UNFCCC's recommendations in Togo, ii) the national strategy for conservation, restoration and sustainable management of mangroves, iii) the national strategy for risk reduction and natural disaster management, and iv) the national strategy for the management and sustainable use of biodiversity.

A.2. <u>GEF</u> focal area and/or fund(s) strategies, eligibility criteria and priorities.

NA

A.3 The GEF Agency's comparative advantage:

NA

A.4. The baseline project and the problem that it seeks to address:

NA

A. 5. <u>Incremental /Additional cost reasoning</u>: describe the incremental (GEF Trust Fund/NPIF) or additional (LDCF/SCCF) activities requested for GEF/LDCF/SCCF/NPIF financing and the associated <u>global environmental benefits</u> (GEF Trust Fund) or associated adaptation benefits (LDCF/SCCF) to be delivered by the project:

No component level or outcome-level changes were made since the PIF's approval. By building on the updated baseline assessment carried out during PPG work, some complementary outputs were added while some of the outputs presented in the PIF were reworded and added to the project design. These changes are reflected in the Project Results Framework (Table B) presented in the this document. The changes from the PIF are as follows:

The GEF funding will contribute to the baseline project by focusing specifically on:

- 1) Making infrastructure climate resilient and therefore reduce the risk of seeing transport infrastructure damaged or destroyed by coastal erosion. This will reinforce the country's resilience and enhance the sustainability of transport infrastructure in the face of climate change. The baseline activities contribute to the development of the road sector but do not systematically factor in climate change effects, which is why the GEF project is a necessary complement to ensure the long-term sustainability of these investments.
- 2) Supporting local coastal communities who exploit the coastal sand and marine gravel as part of their livelihoods. Climate change is partly responsible for sea level rise and subsequent coastal erosion Regrettably, this phenomenon is further exacerbated by the unsustainable collection of sand and gravel by communities in the region. Under these circumstances, the receding coastline both diminishes the quantity of exploitable sand and increases the vulnerability of coastal infrastructure. To address these challenges, the project will promote strategies and activities to diversify and strengthen communities' livelihoods. This will increase communities' adaptive capacity in the face of climate change's after effects.

The project is composed of three components:

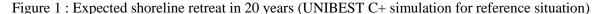
Component 1: This component will finance the civil works related to the installation of coastal protection infrastructure from Katanga to Gbodjomé. These civil works include the installation of 28 groynes coupled with beach nourishment (global volume of 920,000 m3) within some of critical shelves framed by groynes. Groynes and beach nourishment will be distributed as following:

- Baguida sector:
- from Katanga to Gbétsogbé, 1 groyne will be built, coupled with beach nourishment on both sides (sand supply = 120,000 m3 + 40,000 m3);

- from Gbétsogbé to Avépozo (including Baguida Plage), 10 groynes will be built, coupled with beach nourishment in selves between groynes (sand supply = 370,000 m3);
 - in front of Avépozo, 1 groyne will be built and the existing one will be extended;
- from Avépozo to Kpogan, 7 groynes will be built, coupled with beach nourishment in shelves between groynes (sand supply = 270,000 m3);
- Kossi Agbavi sector
- from Kpogan to Kossi Agbav, 7 groynes will be built, coupled with beach nourishment in shelves between groynes (120,000 m3);
 - from Kossi Agbavi to Gbodjomé, the existing groyne will be extended.

These civil works will protect the national coastal road section Avepozo-Aneho, which is jeopardized by coastal erosion as described earlier in section A.1. The sites mentioned above have been selected based on i) the level of erosion registered along the coast, and ii) the proximity of the road to the coast.

On the eastern side of the port financed by the Japan International Cooperation Agency (JICA), Unless action is taken, shoreline recession is expected to carry on at the same high rates as in the recent past. For instance, the shoreline between Baguida-Plage and Kpogan will recede by an annual mean rate varying from 4 to 6 m/year. By 2035, the sea will have flooded at least 86 m wide of coastal strip due to the cumulative effect of littoral drift variations, marine aggregate extractions and sea level rise. Moreover, up to 126 m wide of the coastal strip of Fraternity beach is expected to be flooded inland. Consequently, the national road will be greatly jeopardized in the reference situation, as can be seen on the following figure. Against this dramatic backdrop, studies undertaken as part of the preparation phase of the project have found that the benefits to be reaped from the protection system include significant land loss reduction and prevention.



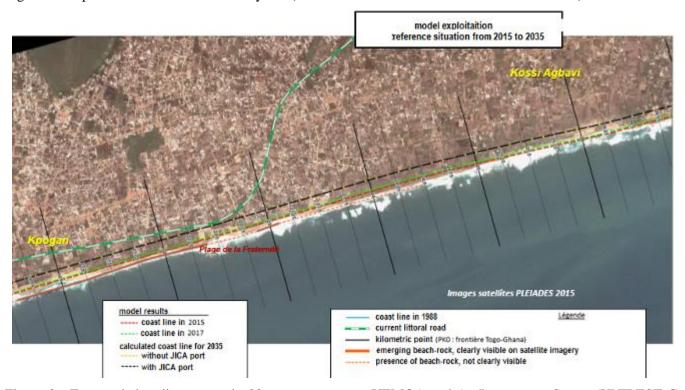
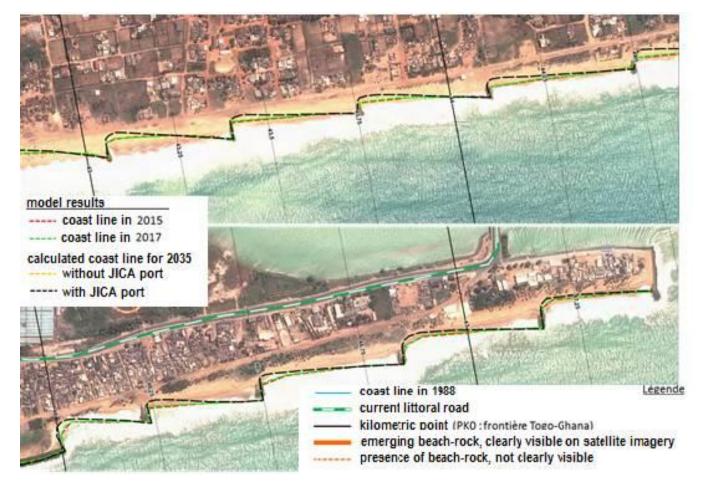


Figure 2 : Expected shoreline retreat in 20 years - zoom on UEMOA and Aného groynes Sector (UNIBEST C+ simulation for reference situation)



Benefits from the proposed protection system are presented in further detail in Section B2

Risks due to the construction of infrastructure are presented in further detail in Section A6

The realization of civil works such as groynes and beach nourishment will be made according to up-to-date best practices with proven technologies for marine works in the context of an extremely aggressive environment. Riprap groynes will be dimensioned by considering their ability to resist projected wave heights (the height of a projected wave considered for dimensioning is 3.2 m at +2.2 m IGN), their stability, the top level, and floor covering.

Component 2: Capacity building for coastal management

This component includes three outcomes: (i) strengthening the enabling environment for coastal management; (ii) increasing communities' adaptive capacity in the coastal zone; and (iii) strengthening the existing EWS in the coastal zone of Togo.

- (i) strengthening the enabling environment for coastal management: Notapplicable since there has not been any change since the PIF was written and submitted for approval in 2013.
- (ii) diversification of Income Generating Activities

Although marine aggregate extractions are officially forbidden in Togolese coastal areas since 2011, this activity is still carried out because it represents the most profitable source of income for a number of people, mainly for women and young people. To prevent future coastal erosion, the project must target local communities because their exploitation of marine sands and gravels affects the coastal line's stability. This component comprises technical support and dedicated budget to build communities' capacity to diversify their economic activities and move away from illegal sand collection.

Strategies were developed to implement a range of Income Generating Activities (IGAs) in Katanga, Gbétsogbé, Baguida Plage, Avepozo, Kpogan and Kossi Agbavi. These strategies aim at helping 400 people change their

current illegal economic activity into a legal and sustainable one. Numerous IGAs have been identified based on market studies and several scenarios for a deployment plan are proposed.

Technical solutions retained are based on existing options for improving the climate-resiliency of costal infrastructure and income generating sources that are known and implemented within the country. A list of technical solutions, primary alternatives explored, and the reasons behind their rejection of those alternatives are as follows:

Component 1: Making infrastructure climate resilient

Technical solution retained: ARTELIA's protection system V2 (28 groynes + 1,000,000 m3 of sand supply)

- **Alternative explored:** Inros Lackner's protection system (33 groynes + 2 new sea walls + extension of an existing one)
- Reasons for rejection
 - o This approach requires additional infrastructures which are not approved by communities
 - Not cost effective
 - o Protection beyond 2035 is not secured
 - o Minimum protection compare to Arteria V1 and V2 options (see figure 8)
- **Alternative explored**: ARTELIA's protection system V1 (28 groynes)
- Reasons for rejection
 - The model simulation shows that this approach protect only critical area currently affected by erosion (coastal road) and not the exposed areas (including schools, houses, agriculture land), see figure 6.
 - o Do not stop illegal gravel extractions
 - o Do not constitute a full protection compare to V2 (see figure 8)
 - o The V1 alternative was rejected in favor of the V2 solution which also offers ecological, social and economic benefits

Component 2: Capacity building for coastal management

- **2.1 Technical solution retained:** Six (6) existing IGA (Fishing, agro processing, small scale trade, market gardening, traditional handcraft, and local transportation taxi-moto) and five (5) new IGAs (trade of gravel from inland quarries, extensive farming, corn and red oil trade, manufacturing of liquid soap, beadwork)
 - **Alternative explored:** Craft (pottery, wood processing, etc.) Fruit & vegetable processing, production of cassava flour (gari) and palm oil, aquaculture, seaweed production, renewable energy production
 - Reasons for rejection:
 - Activities not currently undertaken by local communities and require extensive trainings
 - o Not environmentally sustainable (crafts, seaweed production)
 - o Requires significant investments not available (aquaculture, renewable energy production, etc.)
- **2.2. Technical solution retained:** Upgrade the existing national wide early warning system (EWS)
 - Alternative explored: Setup a new Early Warning System to monitor the Coastal erosion
 - Reasons for rejection:
 - The existing national Early Warning System (EWS) is already operative in the country as a result of the project "Projet de Gestion Intégrée des Catastrophes et des Terres (PGICT)". The coastal zone is included in this EWS. In order to ensure EWS efficiency, a technical desk has been created, in charge of data collection, analysis and dissemination of information by means of an Early Warning Bulletins.
 - o Although not fully functional, keeping the existing EWS is considered cost effective. There is no reliable real-time information relative to coastal areas that would permit efficient information to be

provided to the local people on risks in a timely manner. For this reason, the solution to strengthen the existing EWS is the ideal option.

2.3. Technical solution retained: Training of trainees for local communities awareness and capacity building

• **Alternative explored:** Instead of proposing a training of trainees program, the alternative could have been to train a large number of persons directly

• Reasons for rejection:

- o Not easy to find a large number of persons with education background to attend training
- o There is a high risk to maintain the training program beyond the one shoot session
- o Sustainability reasons: Training of trainees allow to cover a large group beyond the project timeline.

Based on these studies, the recommended strategy is to rely on a combination of 11 IGAs. This will consist in: strengthening 6 existing IGAs (fishing, agro and fish processing, market gardening, small-scale trade, taxi-moto facility, traditional handcraft); creating 5 new IGAs (trade of gravels from inland quarries, extensive farming, corn and red oil, trade of liquid soap, beadwork). This strategy includes plans for technical training and financial support, and new partnership development to ensure long-term success. The 11 proposed IGAs will objectively contribute (directly or indirectly) to decreased pressure on land (market gardening, extensive farming, and trade of palm oil), need of water (market gardening), GES emissions (taxi-moto, agro and fish processing, potential deforestation due to palm oil and corn crops).

However, among the 11 IGAs proposed in the reconversion strategy, efforts in terms of investment and training are focused on the most sustainable ones (extensive farming, market gardening, artisanal fishing) for promoting environment-friendly technologies through training programs. Trainings and practices are in line with the strategy promoted by the NAPA (2009) that aims at strengthening the capabilities of rural operators and producers exposed to climate change by supporting livelihood diversification and contributing to sustainable development.

As fish smoking is concerned, new bio technics exist that can be promoted to reduce pressure on forestry. For the other IGAs, one have to keep in mind that they concern a tiny number of people (< 100 people). The strongest argument behind the sustainability aspect is the proposed livelihood diversification process which will reduce the resulting potential environmental impact in few minor impacts.

About 400 residents (64% women, 36% men) will benefit from technical training and financial support. In order to guaranty sustainability of community support and involvement into this program of conversion, inhabitants were surveyed and interviewed on their willingness. The promotion of gender-responsive climate adaptation is also planned. Besides, the ONG in charged with execution of the reconversion program (4 full-time people during 36 months) will report the successes and fails so as to readjust actions during the project.

This diversification of economic activities will help reduce the illegal harvest of sand and gravel in coastal zones.

Risks due to the conversion of economic activities are presented in further detail in Section A6.

(iii) The existing EWS is strengthened in the coastal zone of Togo. (NA - no change since 2012 PIF version).

Component 3: Project monitoring and evaluation

The project has to ensure its proper monitoring and evaluation by proposing a M&E system that will track the project outcomes on two levels. The system will monitor coastal erosion rate in the future, as well as project outcomes at the communities' level, ensuring that people's behavior and economic activities are changing for an improved sustainable management of the coastal line within the project area. In order to achieve these objectives, four critical tasks have been defined as following: (i) identification of education, information and communication needs in matters of climate change and possible impacts on coastal zone, (ii) identification of activities and operations in order to strengthen integration of climate change issue, (iii) realization of monitoring and evaluation (M&E) of coastal erosion and adaptive behavior and knowledge capitalization among local communities coping with climate change impacts, and (iv) accurate identification of required investment for such M&E implementation. In order to strengthen the integration of climate change issues, recommendations are provided in terms of communication strategy that has to be developed. This strategy depends on: (i) an ambitious training program,

including technical training of qualified people as well as awareness activities for the community; (ii) project monitoring and evaluation implementation, (iii) creation of an efficient knowledge management system, including data base, code of practice, planning of activities within coastal area; and (iv) the definition of a chart that officially points out each roles and responsibility. A dedicated budget envelope has also been defined.

Concretely, 40 inhabitants and stakeholders will benefit from general training dealing with sandy beach barrier evolution, 40 inhabitants and stakeholders will benefit from training on adaptation to climate change, and 30 inhabitants will take part to visits/workshops/feedback presentations. The number of 40 people is the result of the following assumption considering 5 trained people per localities (6 localities) + 10 people belonging to administrations/stakeholders. This results from a compromise between investment costs / expected results in terms of local communities' education/ knowledge. The detailed/advanced trainings aim at teaching a smaller group of people the coastal evolution or the adaptation to climate change so as the trainees would be able in turn to train a larger number of local people. This second circle of trained people is expected to reach 95% of the local population (see in Tracking tools - indicator 8). An external specialist in System Information Management and M & E will teach the method of the construction / implementation and operation of the database, thanks to purchased computer equipment, office machines and vehicles, the trained staff responsible for the aggregation of data will consequently be efficient in the collection techniques and data analysis and will report frequently the results. Knowledge products on adaptation in coastal zones will be produced and disseminated (manuals, guides): training supports in addition to reference knowledge supports such as the manual called « Analyse de la Vulnérabilité et de la Capacité d'adaptation au Changement Climatique » edited by CARE (2010), the manual called « trousse à outils de planification et suivi-évaluation des capacités d'adaptation au changement climatique (TOP-SECAC), Manuel et guide d'utilisation », CILSS/Centre Régional AGRHYMET, 2011, the guide called « Guide d'intégration des changements climatiques dans les plans de développement communaux - Modèle pour servir d'exemple dans la commune d'Atakpamé au Togo », the manual called « Le Programme Pilote pour la Résilience Climatique (PPCR -Niger) - AIDE MEMOIRE MISSION CONJOINTE ». International Finance Corporation, BAD, 2010, Stakeholders will take part in adaptation practitioners events (organisation of exchange visits between the project partners and counterparts in the country and in the West African sub-region). 2 public meetings/year (6 meetings during the 3 year project) are planned to ensure a feedback of the trainings/workshops that representative people attended to the rest of the communities.

Concerning Monitoring and Evaluation System, technical staff responsible for data collect/data aggregation will be designed, and local partners and community representatives will be supported for collecting data and updating the database. Follow-up reports will be published, annual audits will permit to assess the effectiveness of the project regarding erosion issues. If needed, meetings/trainings / information sessions will be gendered in order to facilitate access and to insure open expression to women that are eager to take part in the project. Considering population behavior during the field visits and surveys, the women appear to be at least equally motivated and implied in the project than men. During the field campaign carried out in October 2015 in Baguida, men and women were equally represented (15 men/12 women); in Katanga, only women expressed themselves (4 women in individual pools). All over the studied area, the individual pools carried out concerned 60 % of women. Given this field data, the project targets an equal access to knowledge/training between male and female (50% of males, 50% of females, see in Tracking tool - indicator 9).

The following table sums up the main differences between PIF document and CEO endorsement form.

PIF stage	CEO endorsement stage
Planned civil works were: - 1 waterwall and 2 riprap walls installed in Baguida Plage - 1 waterwall and 2 riprap walls installed in the sector of Kossi Agbavi	Recommended civil works are: - 19 new groynes, the extension of an existing one and beach nourishment of 800,000 m3 in Baguida sector;. - 7 new groynes, the extension of an existing one and beach nourishment of 120,000 m3 of Kossi Agbavi sector.
New EWS were planned	Existing EWS is strengthened

A.6 Risks, including climate change, potential social and environmental risks that might prevent the project objectives from being achieved, and measures that address these risks:

In addition to the risks mentioned in the previous PIF, other risks have been highlighted by the ARTELIA study, as follow:

RISKS	RANKING	MITIGATION MEASURES
People failure/reluctance to use correctly the technologies, despite of an increased knowledge/awareness of the advantages/benefits of such a program. people do not feed the database	Medium	Continuous training/educative program in order to increase coastal communities' awareness of coastal erosion risk and potential damage.
Changes inconsideration/priority from government/politicians/ policymakers that will lead in the future (before the end of the program) to a decrease or a lack of support for the project and the abandon of the project. credits for trainings are cut	Medium	 Ensuring the good implementation of the training program, the activities, events, and follow-up reporting, annual audits that prove the effectiveness of the project. the project has to identify and hire a consultant gifted with technical expertise, interest, availability and willingness to work with communities and the government in an participative monitoring
Reluctance of communities to adopt new IGA, to cooperate with the program.	Low	•Continuous training/educative program in order to increase coastal communities' awareness of negative effect /consequence of marine sand or gravels extractions
Once coastal area would be protected, the costs of land would rise. This possible speculation would prevent poor local population from land acquisition	High	Policies to prevent local communities from expropriation

Risks due to making infrastructure climate resilient are the following:

RISKS	RANKING	MITIGATION MEASURES
Accident risk due to expansion of gas under	Medium	Safety perimeter, shelters, protection screen
high pressure during rock-breaking		
Fire risk due to fuel storage in the yard	Medium	emergency response procedures;
		Protection and fight equipment
		procedures for fuel distribution
Accident risk due to residual instability	Medium	Geological analysis
Contamination and spread of venereal diseases	Medium	• Increasing worker and population awareness, distribution of condoms;
		• Free voluntary testing
		- Tree voluntary testing
Accident risk due to falls and drowning	Medium	Protecting extraction sites
		• warning signs

burial risks due to temporary sand deposit	Medium	warning signs
Risk of road accidents	Medium	 Insurance policies Lane markings and traffic signs Increasing staff & population awareness to road prevention Marking working areas Traffic restriction measures Daily check of vehicles and construction equipment Weekly meetings dealing with worksite safety Insisting on the importance of driver awareness Vehicles must be driven with their lights on at all times, day and night Banning performance incentives and promoting good behavior incentives (no accident)
Risk of work accidents for yard staff	High	 Vehicles must be driven with their lights on at all times, day and night Power supply: warning signs,; ground connection Eye protections Vehicle driving: training and habilitation; medical checks; Traffic restriction measures in the yard Technical check

Except road accident risks which are quite strong during building stage, all these risks are moderate and null after building stage.

Risks due to diversification of Income Generating Activities are the following:

RISKS		MITIGATION MEASURES		
 Fishing: New Legislation ongoing to prevent abusive fishing activities More pressure on the fishery resource competition with aquaculture 	Medium	During the project, ensuring the good implementation of IGAs diversification by: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effective and viability of the project in terms of environm and local economy.		
Agro and fish processing more pressure on the fishery resource competition with the imported products	High	 During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy. 		
 Market gardening land pressure competition with the imported products 	High	During the project, ensuring the good implementation of IGAs diversification: • Concerned people frequent interviews,		

		 follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
 Small-scale trade risk of failure to sell in case of too much competition within the area 	High	 During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
Taxi-moto • high rates of road accidents	Medium	 During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
Traditional handcraft (production, art et services) • risk of failure to sell or stock accumulation	High	 During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
Trade of gravels from inland quarries risk of failure to sell	Medium	During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
Extensive farming I and pressure competition with the imported products parasites pressure and inherent infectious disease risks competition	High	During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
 Trade of corn and palm oil, etc. risk of failure to sell in case of too much competition within the area 	Medium	During the project, ensuring the good implementation of IGAs diversification: Concerned people frequent interviews, follow-up reporting, Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.
 Production and trade of liquid soap risk of failure to sell or stock accumulation 	Medium	During the project, ensuring the good implementation of IGAs diversification: • Concerned people frequent interviews, • follow-up reporting,

		• Annual audits that prove the effectiveness and viability of the project in terms of environment and local economy.		
Beadwork	Medium	During the project, ensuring the good		
• risk of failure to sell or stock accumulation		implementation of IGAs diversification:		
		 Concerned people frequent interviews, 		
		 follow-up reporting, 		
		• Annual audits that prove the effectiveness and		
		viability of the project in terms of environment		
		and local economy.		

The Table below indicates how the proposed IGA are climate change sensitive and contribute to the community resilience:

IGA	Risks/challenges	Mitigation measures
	climate change (CC) impact on marine ecosystems with decrease stock of fisheries:	
	ocean acidification, rising sea	The project includes a number of
Fishing	level, etc.	trainings for sustainable fishing
Agro and fish processing	Low fisheries production	The project includes a value chain training program for communities to group their production for efficient product processing
Market gardening	Land pressure due to coastal erosion	Training on irrigation scheme in new mainland areas
Small-scale trade	No significant CC risk	NA
Taxi-moto facility	No significant CC risk	NA
Traditional handicraft	No significant CC risk	NA
Trade of gravels from inland quarries	High demand due to prohibited coastal aggregate trade	Additional persons will be trained in gravel extraction from inland quarries
Extensive farming	Land pressure due to high demand	The project will support community shared access to land for efficient production
Corn and red oil	No significant CC risk	NA
Trade of liquid soap	No significant CC risk	NA
Beadwork	No significant CC risk	NA

Mitigation measures consist in ensuring a continuous training/educative program to increase coastal communities' awareness of coastal erosion risk and potential damage from gravel extraction. Financial support, mutual help, public assistance for material needs have to be encouraged.

A.7. Coordination with other relevant GEF financed initiatives:

NA

B. ADDITIONAL INFORMATION NOT ADDRESSED AT PIF STAGE:

B.1 Describe how the stakeholders will be engaged in project implementation.

The preparation of this project was guided by a comprehensive and extensive participatory process involving all stakeholders, including local communities, a multidisciplinary approach (professionals from different sectors participated); and a complementary approach, building upon existing plans and programs, including national action plans and national sectoral policies.

Climate vulnerability and capacity assessment: Through use of climate vulnerability and capacity assessment methodology, the analysis provided the understanding of the implications of climate change for the lives and livelihoods of households at risk living close to the project area (coastal road).

In addition to marine aggregate extractions and significant littoral drift variations along the coast that generate locally strong erosion, Togolese coastal line is subjected to sea level rise due to climate changes. This third phenomenon leads also to a consecutive coastal line recession that can be assessed by the mean of the Brünn rule (in « Sea level rise as a cause of shore erosion » Journal of Water. Harb. Vol 88 pp 117-130).

This rule is based on the assertion that sea level rise is slow, which will permit a progressive adaptation of beach profile as sea level rises.

Concretely:

- The sea will gain ground, and at the same time the top of the beach will rise in adaptive way.
- Beach profile will translate further inland as shown on the next Figure 3: Brüun rule.

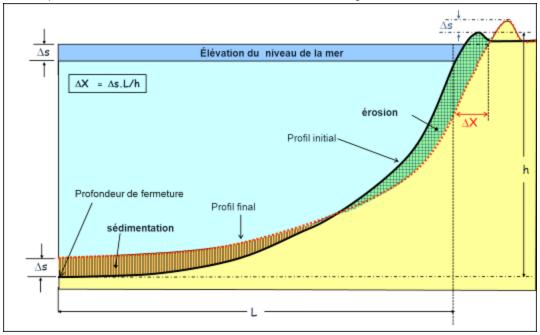


Figure 3: Brüun rule

On this graph:

- Δs (m) is the mean sea level rise due to climate change,
- h (m) is the height between top of the beach and closure depth,
- L (m) is the distance between upper part of the beach and closure depth.

ΔX (m) is the encroachment of the sea onto land, due to sea level rise Δs.

As Togolese littoral is concerned, closure depth is about -7,0 m IGN et the top of the beach reaches +1,0 m to +4 m IGN. Distance between upper beach and closure depth varies from 180 m to 320 m (in front of Kpémé and Aného groynes).

Following IPCC recommendations (Intergovernmental Panel on Climate Change), three scenarios of climate change (basic, mean and high assumptions) have been considered for mean sea level rise forecast in Togo, from reference year 2000 [HYD_06]. Under these three assumptions, sea level rise forecasts to 2100 are plotted on Figure 4: Forecast of mean sea level rise in Togo (in FEM-PNUD, 2010)

. For the needs of the present project, the following figures will be considered (mean assumption):

- Looking ahead to 2030: +0,20 m,
- Looking ahead to 2050: +0,35 m,
- Looking ahead to 2100: +0,70 m.

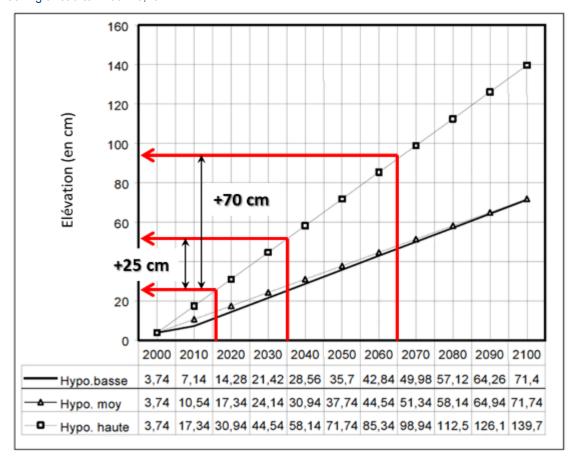


Figure 4: Forecast of mean sea level rise in Togo (in FEM-PNUD, 2010)

Thus, considering these forecasts (+0,25 m from 2015 to 2035 and +0,70 m from 2015 to 2065), retreat of the coastal line due to sea level rise, looking ahead 2035, would reach from 4,0 to 10,0 m.

If nothing is done to protect the littoral, the mean value for expected recession of Togolese coast line, due to sea level rise only, is about of 6 m looking ahead 2035. This encroachment will be increased by 10 m to 15 m from 2035 to 2065.

Yet, climate change will not have significant impact on wave climate; consequently, the main hydro-sedimentary dynamic agent, which is wave energy, will stay unchanged within the active zone located from the upper beach to the closure depth. Consequent littoral drift will stay roughly the same; however its cross-shore distribution along beach profile will be adapted so as to reach an equilibrium profile.

As far as storm set-up/surcote climate is concerned, it will stay unchanged. As long as the upper beach is rising with the sea level, marine flooding will not occur more frequently. However, water levels and height of submersion will be higher. Consequently, water amounts crossing over the beach will be larger than nowadays, which implies longer flooding events in the future.

Local knowledge and scientific data was combined to provide an in-depth socio-economic analysis as well as capture people's understanding about climate risks and possible adaptation strategies.

Besides, expected coastal line recession will cause further direct destruction of infrastructure such as school, homes, and international coastal road, industrial. Tourism will also be impacted by destruction of dedicated infrastructures, and by the loss of beaches and boat landing sites in addition to potential direct destruction of hotels.

Gender analysis: To ensure that alternative adaptation options meet equality and equity criteria, with special attention given to women and youth, a gender impact assessment methodology was used to complement the climate vulnerability and capacity assessment. The applied method was the following. During the start-up mission of climate vulnerability and capacity assessment study carried out from 12 to 21 October 2015, women and youth were interviewed (in groups or individually) on their knowledge of erosion risk (its origins, how to face the risk, their own feeling concerning how their situation is taken into account by authorities...). They were asked about their income generating activities too. The following table inventories the number and gender of surveyed people.

	Survey in group	individual interview
Katanga	-	4 women
Gbétsogbé	13 people (11 hommes et 2 femmes)	-
Baguida	27 people (15 hommes et 12 femmes)	1 man
Avepozo	11 people (11 hommes)	1 man
Kpogan	10 people (8 hommes et 2 femmes)	1 man
Kossi Agbavi	23 people (21 hommes et 2 femmes)	2 women et 1 man

During a second mission, from March to April 2016, more specific interviews concerning the 400 people involved in illegal marine aggregate extractions within the study area were carried out. The goal of this consultation was to survey this population on their aspirations in terms of professional reconversion, their willingness to change their illegal activity into one out of the 11 IGAs proposed by surveyors. Women who represent 64% of the concerned population could express their own wishes that were taken into account in the development of diversification strategy.

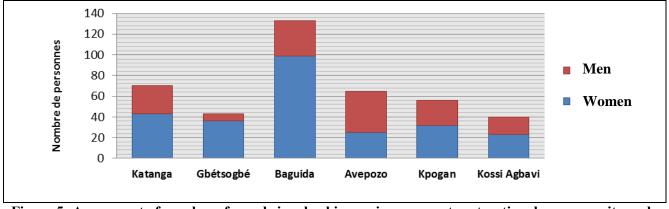


Figure 5: Assessment of number of people involved in marine aggregate extraction, by community and gender

For instance, 211 women expressed their wish to change their current activity to fish processing. 48 women expressed their wish to change their current activity to trade of corn and palm oil, 42 women considered the production and trade of liquid soap as a possible alternative activity.

This assessment reviewed the impact of alternative adaptation options (see section C below) on women and men as well as on gender relations in the project area.

Stakeholder analysis: The stakeholder analysis was conducted as part of vulnerability and adaptation opportunities analysis. The analysis provided insights into and understanding of the interactions between the project and its stakeholders and identified and prioritized stakeholders who have an impact on project success so as to assure their support as well as manage their expectations.

Stakeholders will be engaged in project implementation in a variety of ways. At the national level, the project takes place as a part of the broader National Early Warning System and Infrastructures resilience program in Togo. National-level stakeholders will be engaged via the following coordination mechanisms:

- Togo's donor coordination mechanism is composed at the high level by the Local Development Partner Group, which brings on board all heads of development agencies and all donors/development partners involved in the infrastructure sector.
- Project Steering Committee involving all stakeholders during project implementation period. The Project steering Committee meets at least 2 times a year and is supported by the project implementation unit.

In addition to the African Development Bank (ADB), stakeholders have been identified who will take part in project meetings and workshops:

- Institutions / government delegate dedicated to project coordination :
- ☐ Environment Direction Department of Environment and Forest Resources (ED-DEFR),
- General Direction of Civil Works Department of Transports (GDCW-DT),
- Department of Fisheries and Aquatic Resources Department of Agriculture, Husbandry and Fisheries (DFAR-DAHF),
- Lome University, especially the Integrated Coastal Zone and Environment Management Center (CGILE) and Pr. Blivi, whose research team studies coastal line evolution and could share important data,
- Local associations, governmental or non-governmental (Red Cross, ...),
- Tourism professionals,
- Local populations directly implied and/or affected by erosion issue:
- □ Village heads, leading citizens, heads of village development committees, Committees of Wise Men,
- Representatives of community of marine aggregate exploitations.

- B.2 Describe the socioeconomic benefits to be delivered by the Project at the national and local levels, including consideration of gender dimensions, and how these will support the achievement of global environment benefits (GEF Trust Fund/NPIF) or adaptation benefits (LDCF/SCCF):
- In order to assess the projected benefits of the beach protection systems (for 2022), in terms of infrastructure development and preserved land, an analysis relying on pictures "Pléiades" from 2015 and calculated shoreline positions under reference situation with current protection system will first be carried out.
- A projection is provided for coastal line position in 2022, deduced from the coastal line evolution calculated between 2015 and 2017 under the cumulative pressures of variations of littoral drift, illegal extraction of marine aggregates and sea level rise due to climate change. A 12m-wide land ridge is added to take into account the 12m shoreline recession that a severe storm (as observed in 2011-2013) could cause if occurring at the end of 2022. Then a comparison between coastal line positions in 2017 and in 2022 (if no protection system is built) shows damages caused by erosion that could occur in the 5 next years (project term) if nothing is undertaken. This study made the assumption that JICA port is constructed in 2017.
- Applying the same method to protected situation with ARTELIA V2 system, comparison between calculated coastal line positions in 2017 and in 2022 if protection system is built gives damages caused by erosion that could occur in the 5 next years (project term) if ARTELIA V2 system is undertaken.
- The following table summarizes possible losses of land and infrastructures in the next 5 years if nothing is undertaken (second column), and if ARTELIA V2 system is built (third column).

<u>Looking ahead to 2022, the project would preserve 37.4 ha on the threatened 67 ha, 85 houses out of the threatened 315 that are currently threatened.</u>

TOTAL OF LOSS OCCURING FROM 2017 to 2022	IF NOTHING IS UNDERTAKEN		IF THE SYSTEM ARTELIA V2 IS UNDERTAKEN		
Land loss	67 ha		29.6 ha		
including land occupied by hotel resort	6.5 ha		<1.5 ha		
loss of houses/buildings	273 to 315	houses/buildings	205 to 230	houses/buildings	
including finest properties /villas	10	houses/buildings	6	houses/buildings	
Including buildings dedicated to tourist use	17	houses/buildings	9	houses/buildings	
loss of areas cultivated in 2015	4.65 ha		<1.1 ha		

- In order to assess the benefits from protection system in terms of preserved infrastructures and land looking ahead to 2035, an analysis relying on pictures "Pléiades" from 2015 and calculated shoreline positions under reference situation with current protection system is first carried out.
- The coastal line evolution is calculated between 2015 and 2035 under the cumulative pressures of variations of littoral drift, illegal extraction of marine aggregates and sea level rise due to climate change (8m-recession due to climate change only). Besides, a 12m-wide land ridge is added to take into account the 12m shoreline recession that a severe storm (as observed in 2011-2013) could cause if occurring at the end of 2022. Then a comparison between coastal line positions in 2017 and in 2035 (if no protection system is built) highlights damage caused by erosion that could occur in the 18 next years (project term) if nothing is undertaken.
- Applying the same method to protected situation with ARTELIA V2 system, comparison between calculated coastal line positions in 2017 and in 2035 if protection system is built gives damages caused by erosion that could occur in the 18 next years if ARTELIA V2 system is undertaken.
- The following table summarizes possible losses of land and infrastructures in the next 20 years if nothing is undertaken (second column), and if ARTELIA V2 system is built (third column).

Looking ahead to 2035, the project would preserve 100 ha on the threatened 172 ha, and 710 houses out of the 1185 that are currently threatened.

TOTAL OF LOSS OCCURING FROM 2017 to 2035	IF NOTHING IS UNDERTAKEN		IF THE SYSTEM ARTELIA V2 IS	
Land loss	172.25 ha		72.1 ha	
including land occupied by hotel resort	11.5 ha		<2.9 ha	
loss of houses/buildings	1105 to 1185	houses/buildings	425 to 475	houses/buildings
including finest properties /villas	43	houses/buildings	11	houses/buildings
Including buildings dedicated to tourist use	159	houses/buildings	60	houses/buildings
loss of areas cultivated in 2015	25.7 ha		<4.6 ha	

As Baguida Plage sector is concerned, the following picture (**Figure**) shows that looking ahead to 2035, the school is threatened in reference situation. The proposed ARTELIA V2 protection system succeeds in preserving the school.

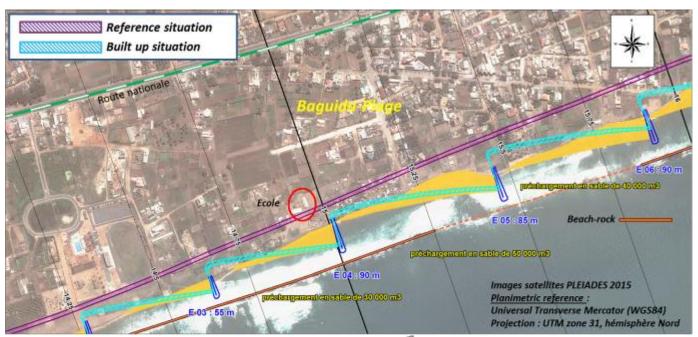
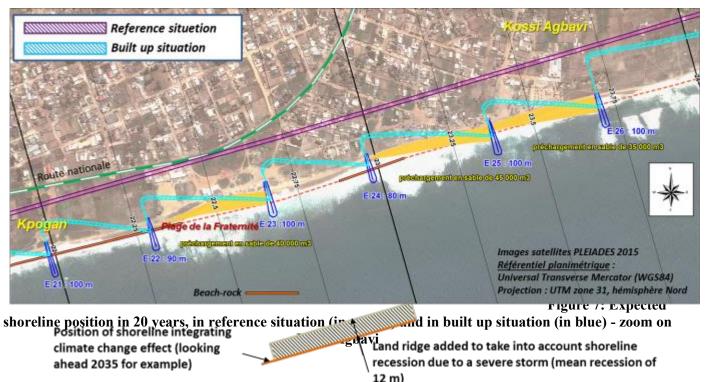


Figure 6: Expected shoreline position in 20 years, in reconstitution (in purple) and in built up situation position of shoreline integrating (in blue) aguida - Plage climate change effect (looking ahead 2035 for example) (in blue) aguida - Plage Land ridge added to take into account shoreline recession due to a severe storm (mean recession of 12 m)

As Kossi Agbavi sector is concerned, the next picture

Figure) shows that looking ahead 2035, the national road is threatened in reference situation. The proposed ARTELIA V2 protection system succeeds in preserving the national road.



From a socio-economical point of view, benefits are great for coastal communities too:

- Protection of the national road,
- Protection of hundreds of houses, cultivated lands...
- Identification of high risk zone;
- Forecasting of endangered people migration;
- Increasing awareness of erosion risks;
- Increasing awareness of the consequences of bad usages like illegal gravel extractions.
- Ensuring material and financial support for beginning a new IGA.

A gender analysis was conducted during the project preparation consultations. Women who are currently living in the affected coastal area that the project won't be able to support, will be equally informed of the risk they are facing, in order to relocate in time.

Plus, the professional reconversion of women involved in marine aggregate extraction is planned by the project: 256 women will be supported in their new alternative activity. Youth involved in marine aggregate extraction will also be supported in their reconversion.

Numerous indicators will be evaluated in a gender-disaggregated manner as outlined in the project results framework.

B.3. Explain how cost-effectiveness is reflected in the project design:

In order to assess the cost/effectiveness of the recommended protection system, four planning scenarii for coastal area have been tested and compared in terms of costs and ability to reduce shoreline recession.:

- Scenario 1 : no new protection system (reference situation)
- Scenario 2 : Inros Lackner's protection system
- Scenario 3 : ARTELIA's protection system V1 (groynes only)
- Scenario 4 : ARTELIA's protection system V2 (groynes + sand supply)

The ARTELIA hydro-sedimentary study showed that the realization of groynes and sand supply will greatly succeed in reducing coastal line recession and protecting assets.

First, Inros Lackner's solution is compared with ARTELIA protection system including groynes only (ARTELIA V1). Following figures show that looking ahead 2035, ARTELIA V1 proposal succeeds in protecting critical areas better than Inros Lackner's one does.

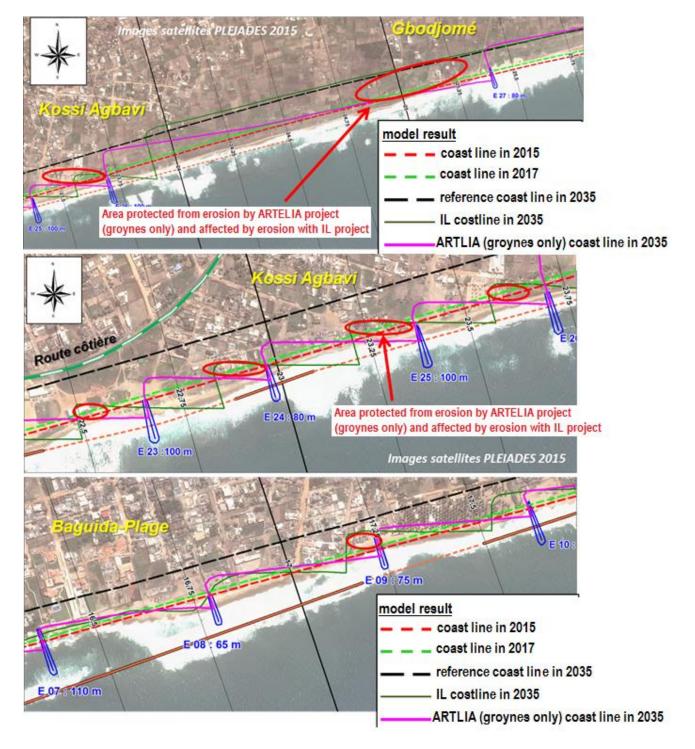


Figure 8: Comparison between expected shoreline position in 2015 for reference situation (black dashed line), considering Inros Lackner protection system (dark green line) and considering Artelia V1 protection system (pink line)

Then a comparison between ARTELIA protection system effectiveness with and without sand supply is carried out. The following figure shows comparison between coastal line locations in 2035: if nothing is done (black dashed line), if groynes only are built (pink dashed line), if groynes are completed with beach nourishment (red dashed line). This result leads to the conclusion that recession is greatly reduced by the solution including groynes plus beach nourishment.

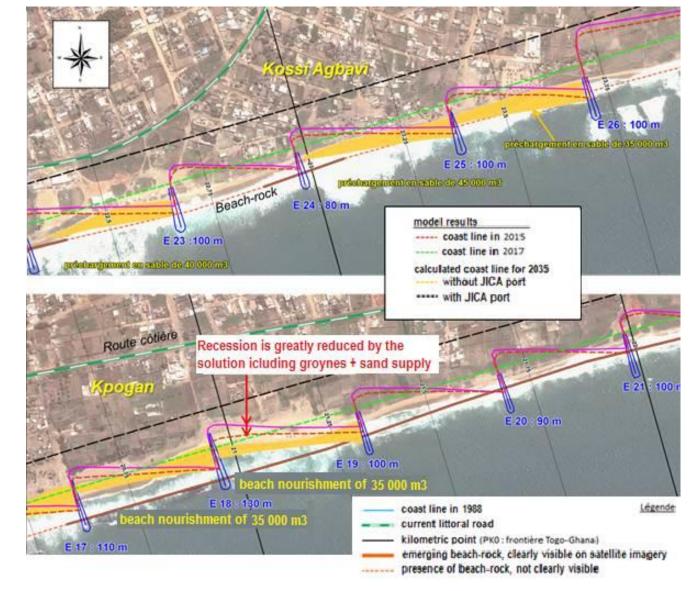


Figure 9 : Comparison between expected shoreline position in 2015 considering Artelia V1 protection system (pink line) and considering Artelia V2 protection system (red dashed line)

The following table compares the cost of each protection solution. The recommended one is the ARTELIA V2 system, for its best ratio cost/ effectiveness.

PROTECTION SOLUTION	DESCRIPTION	COSTS in FCFA	COSTS IN US \$
iNROS LACKNER (Stage 1)	33 groynes + 2 new sea walls + extension of an existiing one	26,580,640,000	45,187,100
ARTELIA V1	28 groynes	15,709,600,000	26,706,000
ARTELIA V2	28 groynes + 1,000,000 m3 of sand supply	27,669,600,000	47,038,000

C. DESCRIBE THE BUDGETED M &E PLAN:

Component 3 of the project is focused on supporting Knowledge Management (KM) and Monitoring and Evaluation (M&E) of the project. The following approach for KM and M&E will be used to build awareness of technologies, measures and practices to increase resilience to climate change in coastal area. The mechanisms described below will

enable empirical analysis of experiences and lessons learned in building resilience in the coastal infrastructure (road). In accordance with Stakeholder discussions, LDCF funds for M&E will be channeled through project implementation Unit. The following M&E process is being implemented.

The project will support the country system to monitor coastal erosion rate in the future, as well as project outcomes at the communities' level, ensuring that people behavior and economic activities are changing for an improved sustainable management of coastal line within the project area.

In order to achieve these objectives, four critical tasks have been defined: ☐ Identification of education, information and communication needs in matters of climate change and possible impacts on coastal zone,
☐ Identification of activities and operations in order to strengthen integration of climate change issue, ☐ Realization of monitoring and evaluation (M&E) of Coastal erosion, ☐ Adaptive behavior and knowledge capitalization among local communities coping with climate change impacts, ☐ Accurate identification of required investment for such M&E implementation.
In order to strengthen integration of climate change issue, recommendations are provided in terms of communication strategy that has to be developed. This strategy depends on: Ambitious training program, including technical training of qualified people as well as awareness activities for the local communities,
□ Project monitoring and evaluation implementation, □ Creation of an efficient knowledge management system, including data base, code of practice, planning of activities within coastal area □ Definition each roles and responsibility in the M&E within the project. □ Dedicated budget envelope has also been defined.

PROJECT START:

A Project Inception Mission will be held within the first 2 months of project start with those with assigned roles in the project organization &structure, AfDB country office in Togo and where appropriate/feasible regional technical policy and programme advisors as well as other stakeholders. The Inception Mission is crucial to building ownership for the project results and to plan the first year annual work plan. An Inception Workshop will then be held, that should address a number of key issues including:

- Assist all partners to fully understand and take ownership of the project. Detail the roles, support services and complementary responsibilities of AfDB staff vis-à-vis the project team. Discuss the roles, functions, and responsibilities within the project's decision-making structures, including reporting and communication lines, and conflict resolution mechanisms. The Terms of Reference for project staff will be discussed again as needed.
- Based on the project results framework and the relevant GEF Tracking Tool if appropriate, finalize the first annual work plan. Review and agree on the indicators, targets and their means of verification, and recheck assumptions and risks.
- Provide a detailed overview of reporting, monitoring and evaluation (M&E) requirements. The Monitoring and Evaluation work plan and budget should be agreed and scheduled.
- Discuss financial reporting procedures and obligations, and arrangements for annual audit.
- Plan and schedule Project Board meetings. Roles and responsibilities of all project organization structures should be clarified and meetings planned. The first Project Board meeting should be held within the first 12 months following the inception workshop.

An Inception Mission report is a key reference document and must be prepared and shared with participants to formalize various agreements and plans decided during the meeting.

QUARTERLY:

- Based on the initial risk analysis submitted, the risk log shall be regularly updated in AfDB information system. Risks become critical when the impact and probability are high. Note that for GEF projects, all financial risks associated with financial instruments such as revolving funds, microfinance schemes, or capitalization of value chain actors are automatically classified as critical on the basis of their innovative nature (high impact and uncertainty due to no previous experience justifies classification as critical).
- Based on the information recorded in AfDB information system, a Project Progress Report can be generated in the Executive Snapshot.

ANNUALLY:

Annual Project Review/Project Implementation Reports (APR/PIR): This key report is prepared to monitor progress made since project start and in particular for the previous reporting period (1 July to 30 June). The APR/PIR combines both AfDB and GEF reporting requirements.

The APR/PIR includes, but is not limited to, reporting on the following:

- Progress made toward project objective and project outcomes each with indicators, baseline data and end-of-project targets (cumulative)
- Project outputs delivered per project outcome (annual).
- Lesson learned/good practice.
- AWP and other expenditure reports
- Risk and adaptive management
- AfDB information system
- Portfolio level indicators (i.e. GEF focal area tracking tools) are used by most focal areas on an annual basis as well.

PERIODIC MONITORING THROUGH SITE VISITS:

AfDB will conduct visits to project sites based on the agreed schedule in the project's Inception Report/Annual Work Plan to assess first hand project progress. Other members of the Project Board may also join these visits. A Field Visit Report will be prepared by the AfDB and will be circulated no less than one month after the visit to the project team and Project Board members.

MID-TERM OF PROJECT CYCLE:

The project will undergo an independent Mid-Term Review at the mid-point of project implementation. The Mid-Term Review will determine progress being made toward the achievement of outcomes and will identify course correction if needed. It will focus on the effectiveness, efficiency and timeliness of project implementation; will highlight issues requiring decisions and actions; and will present initial lessons learned about project design, implementation and management. Findings of this review will be incorporated as recommendations for enhanced implementation during the final half of the project's term. The organization, terms of reference and timing of the Mid-Term Review will be decided after consultation between the parties to the project document. The Terms of Reference for this Mid-Term Review will be prepared by the AfDB based on guidance from the GEF. The management response and the evaluation will be uploaded to AfDB corporate systems. The relevant GEF Focal Area Tracking Tools will also be completed during the Mid-Term Review cycle.

END OF PROJECT:

An independent Final Evaluation will take place three months after the final Project Board meeting and will be undertaken in accordance with AfDB and GEF guidance. The final evaluation will focus on the delivery of the project's results as initially planned (and as corrected after the Mid-Term Review, if any such correction took place). The final evaluation will look at impact and sustainability of results, including the contribution to capacity development and the achievement of global environmental benefits/goals. The Terms of Reference for this evaluation will be prepared by the AfDB based on guidance from the GEF.

The Terminal Evaluation should also provide recommendations for follow-up activities and requires a management response which should be uploaded. The relevant GEF Focal Area Tracking Tools will also be completed at project completion stage.

During the last two months, the project team will prepare the Project Terminal Report. This comprehensive report will summarize the results achieved (objectives, outcomes, outputs), lessons learned, problems met and areas where results may not have been achieved. It will also lay out recommendations for any further steps that may need to be taken to ensure sustainability and replicability of the project's results.

LEARNING AND KNOWLEDGE SHARING:

Results from the project will be disseminated within and beyond the project intervention zone through existing information sharing networks and forums.

The project will identify and participate, as relevant and appropriate, in scientific, policy-based and/or any other networks, which may be of benefit to project implementation though lessons learned. The project will identify, analyze, and share lessons learned that might be beneficial in the design and implementation of similar future projects.

As shown in Table 2, the KM products will be implemented along the project life through various type of features including training of trainees, public awareness campaigns, focused groups (IGAs trainings), and toolkit/manual distribution.

Table 2: Knowledge management implementation plan

Type of training	Delivered supports	Implementation arrangements	Timeline
	 Toolkit for each IGA implementation Booklet on adaptation to coastal erosion Publication of the Vulnerability assessment report and capacity building 	 IGA trainings be conducted throughout timeline for communities Toolkits and publications be disseminated through 	5 years
 IGAs trainings Sandy littoral management strategy Adaptation strategy to deal with Climate Change (CC) 	(CARE, 2010) - Publication of the toolkit « trousse à outils de planification et suivi-évaluation des capacités d'adaptation au changement climatique (TOP-SECAC), Manuel et guide d'utilisation », CILSS/Centre Régional AGRHYMET, 2011 - Dissemination of the toolkit called « Guide d'intégration des changements climatiques dans les plans de développement communaux - Modèle pour servir d'exemple dans la commune d'Atakpamé au Togo » - Awareness campaign on coastal erosion techniques	awareness campaigns by Trainees - Trainees program will include extensive sessions on Toolkit and manuals dissemination - Awareness campaigns periodically at selected villages by Trainees - Focus groups by trainees to disseminate toolkits and manuals - Creation of local communities exchange group for IGAs best practices exchanges	During training of trainees During and after project period During and after project period During and after project period

PART III: APPROVAL/ENDORSEMENT BY GEF OPERATIONAL FOCAL POINT(S) AND GEF AGENCY(IES)

A. RECORD OF ENDORSEMENT OF GEF OPERATIONAL FOCAL POINT(s) ON BEHALF OF THE GOVERNMENT(s):): (Please attach the Operational Focal Point endorsement letter(s) with this form. For SGP, use this OFP endorsement letter).

NAME	POSITION	MINISTRY		DATE (MM/dd/yyyy)
Yao Djiwonu Folly	Directeur de l'inspection	MINISTRY	OF	03/08/2013
	forestière et	ENVIRONMENT	AND	
	environmentale, Point focal	FOREST RESOURCE	ES	
	opérationnel du FEM			

B. GEF AGENCY(IES) CERTIFICATION

This request has been prepared in accordance with GEF/LDCF/SCCF/NPIF policies and procedures and meets the GEF/LDCF/SCCF/NPIF criteria for CEO endorsement/approval of project.

Agency Coordinator, Agency Name	Signature	Date (Month, day, year)	Project Contact Person	Telephone	Email Address
Mahamat ASSOUYOUTI	To lassendoro	05/23/2016	Lydie EHOUMAN	+220 20 26 4215	l.ehouman@afdb.org

ANNEX A: PROJECT RESULTS FRAMEWORK

	Performance Indicators					
Results Chain	Indicator (Including CSI)	Baseline	Target	Means of verification	Risks/Mitigation Measures	
Outcome 1: Transport infrastructure in coastal zone in the area of Baguida (KP 11to 20) and Kossi Agbavi (KP 20 to 26) is climate change resilient	The national road currently threatened by erosion will be protected. Due to the protection system, looking ahead 2035: Reduction of the coastal line recession of 80m in Baguida-Plage and of 120m in the sector of Kossi Agbavi; About 120 ha currently jeopardized by erosion will be safeguarded; About 620 houses / buildings / tourist facilities that are currently threatened are protected by groynes and sand supply; About 22 ha of cultivated land currently jeopardized by erosion will be safeguarded.	Between KP 11 to 20 and 20 to 26 - Mean erosion of 3.5m and 5.7m respectively - loss of 142ha of land - Destruction of about 1010 constructions - loss of 26 ha of crops	Between KP 11 to 20 and 20 to 26 - Mean erosion of 0.8m and 1.5m respectively - loss of 42ha of land - Destruction of about 390 constructions - loss of 4ha of crops	Project monitoring systems, Reporting by monitoring teams, mid and end of project reviews	Risk: People may fail to use correctly the technologies, despite of an increased awareness of the advantages/benefits of such a program. Once coastal area would be protected, the costs of land would rise. This possible speculation would prevent poor local population from land acquisition Mitigation Measures: Continuous training/educative program in order to increase coastal communities' awareness of coastal erosion risk. Policies to prevent local communities from expropriation. Financial compensations	
Outcome 2: - Reinforced enabling environment for coastal management - Increased adaptive capacity of communities in the coastal zone	The coastal integrated management scheme and plan of Lome SDAU_GL is strengthened and completed in the project area (extension to the sector from Kopgan to Kossi Agbavi), after integration of the coastal integrated management scheme and plan (including regulatory framework, training and equipment of personnel in charge of coastal control)	Existing coastal integrated management scheme and plan to extend to the Kpogan/Kossi Agbavi sector		Project monitoring systems, reports Knowledge Attitude Practice (KAP) survey Report	Risk: Changes inconsideration/priority from government/politicians/policymakers that will lead in the future (before the end of the program) to a decrease or a lack of support for the project and the abandon of the project. Mitigation Measures: Ensuring the good implementation of the training program, the activities, events, and follow-up reporting, annual audits that prove the effectiveness of the project.	

	Performance Indicators				
Results Chain	Indicator (Including CSI)	Baseline	Target	Means of verification	Risks/Mitigation Measures
	Communities involved in illegal sand collection are supported in their conversion through: - 6 existing IGAs (fishing, agro and fish processing, market gardening, small-scale trade, taxi-moto facility, traditional handcraft);		The diversification of activities will induce reduction of illegal harvest of aggregate and gravel in coastal zones: 80% of the community	Project monitoring systems, reports Community action plans	Risk: Reluctance of communities to adopt new IGA, to cooperate with the program.
	- 5 new IGAs (trade of gravels from inland quarries, extensive farming, corn and red oil, trade of liquid soap, beadwork); - Technical training and financial support.		About 400 (64% of women, 36% of men) inhabitants benefit from technical training and financial support.		Mitigation Measures: Continuous training/educative program in order to increase coastal communities' awareness of negative effect /consequence of marine sand or gravels extractions
	The existing Early Warning System (EWS) is strengthened in the coastal zone of Togo.	Existing EWS, weak in coastal zone	At least 50% of engineers trained and utilising guidelines	Project monitoring systems, reports	
Outcome 3: M&E management and lessons learnt are captured and appropriately disseminated	- General training dealing with sandy coastal evolution and training on adaptation to climate change - Visits/workshops /feedback presentations		80 persons (inhabitants and stakeholder representatives) benefit from these trainings 30 persons take part to visits or workshops	Attendance sheet Training reports Project monitoring reports	Risk: Changes that could occur in consideration/priority of government/politicians/ policymakers. This could lead in the future (before the end of the program) to a decrease or a lack of financial support for the project and the abandon of the project.
	- Knowledge products (KP) on adaptation in coastal zones are produced and disseminated (manuals, guides)		Providing at least 6 main KP acceptable for A ranked international journals, and information that	Publications	people do not feed the database credits for trainings are cut
	- Participation of stakeholders in adaptation practitioners events (organisation of exchange visits between the project partners and counterparts in the country and in the West African sub-region)		can be used in training, Participation of 20 stakeholder representatives in		Mitigation Measures: the project has to identify and hire a consultant gifted with technical expertise, interest, availability and willingness to work with communities and the government in an participative monitoring

	Performance Indicators				
Results Chain	Indicator (Including CSI)	Baseline	Target	Means of verification	Risks/Mitigation Measures
	- Monitoring and evaluation of the project is effective: technical staff responsible for data collect/data aggregation is designed, local partners and community representatives are supported for collecting data and updating the database, follow-up reports are published, annual audits permit to assess of the effectiveness of the project regarding to erosion issue.		events dealing with practice adaptation Local partners and community representatives are supported for data collecting and database updating: at least 5 persons		

Output-level indicators

	Performance Indicators			
Results Chain	Indicator (including CSI)	Baseline	Target	Means of verificatio
Component 1: Making infrastructure climate resilient				
Output 1.1.1 – The national road currently threatened by erosion will be protected	Minimum distance between the road and the shoreline in the "Plage de la Fraternité" sector	130m	130m +/-20m	
Output 1.1.2: Due to the protection system, looking ahead 2035, the coastal line recession will be reduced of 80m in the sector of Baguida-Plage and of 120m in the sector of Kossi Agbavi	Shoreline position relative to a reference line (measurements every 500 m between KP 11 and 26)			
Output 1.1.3: Due to the protection system, looking ahead 2035, about 100ha of land currently jeopardized by erosion will be safeguarded	Surface (in ha) of land lost per year (between KP 11 and 26)	7.1	2.1	Annual survey / Campaign reports
Output 1.1.4: Due to the protection system, looking ahead 2035, about 620 houses / buildings / tourist facilities that are currently threatened are protected by groynes and sand supply	No. of houses / buildings / tourist facilities destroyed per year (between KP 11 and 27)	50	20	
Output 1.1.5: Due to the protection system, looking ahead 2035, about 22 ha of cultivated land currently jeopardized by erosion will be safeguarded.	Surface (in ha) of cultivated land lost per year (between KP 11 and 27)	1.2	0.2	

Output 2.1.1: The coastal integrated management scheme and plan of Lome SDAU-GL will be strengthened and completed in the sector from Kopgan to Kossi Agbavi, after integration of the coastal integrated management scheme and plan (including regulatory framework, training and equipment of personnel in charge of coastal control)	% of communities with knowledge and understanding of social dimensions of vulnerability and resilience to climate change	0%	80%	Baseline Report, Knowledge Attitude Practice (KAP) report
Output 2.1.2. Communities involved in illegal and callegtion	No. of jobs created (by gender)	0	400 (64% of women, 36% of men)	Campaign reports Database of NGO
Output 2.1.2: Communities involved in illegal sand collection are supported in their conversion through: - 6 existing IGAs and 5 new IGAs - technical training and financial support - awareness campaigns on climate change impacts (erosion) and promotion of gender-responsive climate adaptation conducted.	% change in income before and after the implementation of reconversion activities			Individual interviews Socio-economic survey
	No. of technical training and financial support	0	8	Training reports
	No. of awareness campaigns on climate change impacts and promotion of gender-responsive climate adaptation conducted	0	8	Campaign reports
Output 2.1.3: The existing EWS is strengthened in the coastal zone of Togo	No. of community based planning, implementation and monitoring adaptation programmes implemented	0	6	Community based programmes
	No. of people with access to information on the CC and EWS	0	20%	
Component 3: Knowledge Management and Monitoring &	Evaluation			
Output 3.1.1: General training dealing with sandy coast evolution and training on adaptation to climate change	No of training	0	80	Attendance sheet
Output 3.1.2: Visits/workshops /feedback presentations	No of visits/woorkshops	0	30	Attendance sheet
Output 3.1.3: Knowledge products on adaptation in coastal zones are produced and disseminated (manuals, guides)	No. of knowledge adaptation products developed documented and disseminated	0	5	Knowledge products

Output 3.1.4: Participation of stakeholders in adaptation practitioners events (organisation of exchange visits between the project partners and counterparts in the country and in the West African sub-region)	No. of adaptation practitioners' events attended and evidence of incorporating lessons into the project	0	6	Event Reports
Output 3.1.5: Monitoring and evaluation of the project is effective: technical staff responsible for data collect/data aggregation is designed, local partners and community representatives are supported for collecting data and updating	No. Number of people (local partners and community representatives) trained to fill and update the database	0	5	Training reports
the database, follow-up reports are published, annual audits permit to assess of the effectiveness of the project regarding	No. of follow-up reports	0	12	Reports
to erosion issue	No. of audits	0	3	Audit reports

ANNEX B: RESPONSES TO PROJECT REVIEWS (from GEF Secretariat and GEF Agencies, and Responses to Comments from Council at work program inclusion and the Convention Secretariat and STAP at PIF).

Comments	Responses	Document reference
GEFSEC pending comments at Project Identif	fication Form (PIF)review	
Question 10: By CEO Endorsement, please	As described in the section B.1, stakeholders will	GEFSEC Review
clarify how public participation will be	be fully involved during project implementation	sheet at PIF stage
ensured during implementation, beyond the	through steering committee, project supervision	
consultations contributing to project design	and M&E activities	
Comments from the United States (2013)- US (The United States welcomes this project conce	GEF Council email on 09/17/2013 pt. We recognize the importance of reducing climate	e change impacts
= = = = = = = = = = = = = = = = = = = =	roject's focus on improving coastal management. W	e would like to
request that AfDB, as it prepares the draft fina		
Clarify how it plans to promote policy development or enact legislation to limit harmful land use practices that increase vulnerability to the impacts of climate change;	• Law n°2008-005 of the 30th of May 2008 provides framework for creation by State of Togo of an environmental police department whose missions are to enforce legal instruments dedicated to littoral area and marine environment. Besides, prefectural direction of environment and forest resources department from Golf and Lakes sectors sends trained brigades to control and enforce interministerial instructions N° 002/MME/MERF/2013 of 15th of January 2013 et n°031/MME/MERF/2011 of 05th of May 2011 dealing with marine aggregate extraction banning all over the Togolese littoral.	US GEF Council email
	• Besides, the current project will ensure its monitoring and evaluation by proposing M&E system that will track the project outcomes according two levels. The system will monitor coastal erosion rate in the future, as well as project outcomes at the communities' level, ensuring that people behavior and economic activities are changing for an improved sustainable management of coastal line within the project area.	
	In order to achieve these objectives, four critical tasks have been defined as following: (i)identification of education, information and communication needs in matters of climate change and possible impacts on coastal zone, (ii) identification of activities and operations in order to strengthen integration of climate change issue, (iii) realization of monitoring and evaluation (M&E) of coastal erosion and adaptive behavior and knowledge capitalization among local communities coping with climate change impacts, (iv) accurate identification of required investment for such	

Comments	Responses	Document reference
	M&E implementation. In order to strengthen integration of climate change issue, recommendations are provided in terms of communication strategy that has to be developed. This strategy depends on: (i) ambitious training program, including technical training of qualified people as well as awareness activities for the community; (ii) project monitoring and evaluation implementation, (iii) creation of an efficient knowledge management system, including data base, code of practice, planning of activities within coastal area; (iv) definition of a chart that officially points out each roles and responsibility. Dedicated budget envelope has also been defined.	
• Provide more information on the benefits of waterwalls and riprap walls (or breakwater infrastructure and gabion walls) relative to other coastal erosion protective measures and the process leading up to the selection of this type of infrastructure. Will complementary policy and enforcement measures aimed at reducing gravel- and sand-mining practices be promoted (in addition to identification of alternative livelihood activities) in order to increase the sustainability of erosion infrastructure?	 The project recommends groynes + beach nourishment instead. See in B2 the benefits such installation will provide. Looking ahead 2035, the project would preserve 100 ha on the threatened 172 ha, and 710 houses on the threatened 1185 ones. No complementary law is promoted. Instead, recommendation / informative meetings are planned to increase public awareness on the great role that sandy beach and sand supply play in assets protection and how important it is for the whole community to respect the law 	US GEF Council email
Clarify whether the project proposes to build an entirely new Early Warning System (EWS) or to expand on an existing EWS;	 that bans sand extraction. The government of Togo has funded a national EWS including for coastal area. Thefore, this project activity is revised to avoid duplication. The project will support the existing EWS which will be strengthened within the coastal area. Indeed, EWS is currently weak in the area. 	US GEF Council email
 Clarify how the proposed EWS will be developed, including what exactly it will be measuring, how this information will be organized, archived, and used, if personnel will be specifically trained to operate and maintain the equipment, and if there is current capacity within relevant government ministries to analyse the information produced by the EWS; Clarify how users will be involved both in 	 The contractor in charge with the next study will have to precise: Expected indicators and method of measurement for assessment of factors predicting strong waves and assessment of sea level rise evolution leading to erosion; Specific trainings to provide to ministry staff and local stakeholders (CGILE, national marine, Lome port) in order to monitor phenomena evolutions and to carry out data analysis, prediction update, information diffusion. A specific study has to be launch that will permit 	US GEF Council email

Comments	Responses	Document reference
the design of the EWS and in deciding what information is produced from the EWS as well as how information will be disseminated. Better results can be achieved by ensuring that climate information and early warning system products are user-driven and communicated to users through various innovative channels; and,	to precise this point	email
Provide more information on how the alternative livelihood activities were identified and if consideration was given to environmental and social impacts of the proposed activities.	 Previous proposal provided in 2014 study ('Options de reconversion des acteurs de la filière d'extraction de granulats marins sur le littoral togolais') dealing with economic reconversion of people involved in illegal sand collection and living from Baguida to Kossi Agbavi. This study was financed by FAO and identified 12 alternative IGAs; Stakeholder consultations that were carried out from March to April 2016 by a team made of a coordinator and 3 Togolese surveyors. Groups and local people expressed themselves freely about their concerns, expectations, willingness and questions. The main criteria that will ensure successful reconversion is the willingness of people to change their illegal activity into a legal one. A socio-economic study shows that the 11 proposed IGAs are viable. Thus, the strategy consisting in proposing a large range of activities (11 IGAs) aims at reducing economic and environmental pressure of each one. 	US GEF Council email
Clarify how it will communicate results, lessons learned and best practices identified throughout the project to the various stakeholders both during and after the project;	This will be done through the followings: Training program / Workshop / public meetings with attendance sheets Follow-up report Awareness campaigns as part of the Knowledge activities	US GEF Council email
Expand on how it will ensure the sustainability of climate change adaptation education for personnel as part of the integrated coastal management scheme; and	WorkshopTrainingConsultation	US GEF Council email

Comments	Responses	Document reference
	 information on project realizations, results, lesson learned information on planned projects 	
Provide more information on how beneficiaries, including women and indigenous groups, have been involved in the development of the project proposal and will benefit from this project.	Concerning IGAs, 400 people will benefit from assistance in order to leave their illegal activity consisting in marine aggregate extractions. 64% of this group are females. Concerning M&E and knowledge management, 40 inhabitants and stakeholders (assuming 50% of females) will benefit from general training dealing with sandy coast evolution, 40 inhabitants and stakeholders (assuming 50% of females) will benefit from training on adaptation to climate change, 30 inhabitants (assuming 50% of females) will take part to visits/workshops /feedback presentations. Knowledge products on adaptation in coastal zones will be produced and disseminated (manuals, guides). Stakeholders will take part in adaptation practitioner's events (organization of exchange visits between the project partners and counterparts in the country and in the West African sub-region). Concerning Monitoring and Evaluation System, technical staff responsible for data collect/data aggregation will be designed, and local partners and community representatives will be supported for collecting data and updating the database. Follow-up reports will be published, annual audits will permit to assess the effectiveness of the project regarding to erosion issue.	US GEF Council email

ANNEX C: STATUS OF IMPLEMENTATION OF PROJECT PREPARATION ACTIVITIES AND THE USE OF FUNDS⁵

A. PROVIDE DETAILED FUNDING AMOUNT OF THE PPG ACTIVITIES FINANCING STATUS IN THE TABLE BELOW:

PPG Grant Approved at PIF: \$200,000					
Project Preparation Activities Implemented GEF/LDCF/SCCF/NPIF Amount (\$) \$200,000					
	Budgeted Amount	Amount Spent To date	Amount Committed		
Preparation Consultancy fee	150,000	150,000	150,000		
Consultancy reimbursables	50,000	20,000	50,000		
Total	200,000	170,000	200,000		

40

If at CEO Endorsement, the PPG activities have not been completed and there is a balance of unspent fund, Agencies can continue undertake the activities up to one year of project start. No later than one year from start of project implementation, Agencies should report this table to the GEF Secretariat on the completion of PPG activities and the amount spent for the activities.

ANNEX D: CALENDAR OF EXPECTED REFLOWS (if non-grant instrument is used)

Provide a calendar of expected reflows to the GEF/LDCF/SCCF/NPIF Trust Fund or to your Agency (and/or revolving fund that will be set up)

N/A

ANNEX F: MONITORING & EVALUATION BUDGET

Type of M&E	Responsible Parties	Budget USD	Time frame
activity		Excluding project team staff time	
Year 1: Inception Workshop and Report	Project Manager PMT (Project Management Team) AfDB, GEF	Indicative cost: USD 20,000	Within first two months of project start up with the full team on board
Year 1, 2, 3: Measurement of Means of Verification of project results.	AfDB GEF/Project Manager will oversee the hiring of specific studies and institutions, and delegate responsibilities to relevant team members. PMT, esp. M&E expert	To be finalized in Inception Phase and Workshop.	Start, mid and end of project (during evaluation cycle) and annually when required.
End of year 1, 2, 3: Measurement of Means of Verification for Project Progress on output and implementation	Oversight by Project Manager PMT, esp. M&E expert Implementation teams	To be determined as part of the Annual Work Plan's preparation. Indicative cost is USD 50,000	Annually prior to ARR/PIR and to the definition of annual work plans
End of year 1, 2, 3: Annual review	Project manager; PMT; AfDB and GEF	None	Annually
Every quarter for 3 years: Periodic status/ progress reports	Project manager and team	None	Quarterly
After 18 months after project start: Mid-term Review	Project Manager PMT (Project Management Team) AfDB, GEF External Consultants (i.e. evaluation team)	Indicative cost: USD 45,000	At the mid-point of project implementation.
At the end of Y3: Terminal Evaluation	Project Manager PMT (Project Management Team) AfDB, GEF External Consultants (i.e. evaluation team)	Indicative cost: USD 45,000	At least three months before the end of project implementation
Years 1, 2, 3: Audit	AfDB Project manager PMT	Indicative cost per year: USD 3,000 (USD 15,000 total)	Yearly
Years 1, 2, 3: Visits to field sites	AfDB GEF Government representatives	For GEF supported projects, paid from IA fees and operational budget	Yearly
Total indicative cost Excluding project team staff time and AfDB staff and travel expenses		USD 320,000 USD 250,000	