



Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

# **Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area**

**(Bénin, Burkina Faso, Côte d'Ivoire, Ghana, Mali Togo)**

Project Number: 53885

## **Annual work plan and budget (2011)**

**December 2010**





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## List of abbreviations and acronyms

<b>Abbreviation</b>	<b>Definition</b>
ADB	African Development Bank
AMCOW	African Ministerial Conference on Water
ANBO	African Network of Basin Organisations
APNP-VRB	Action Plan for the National Part of the VRB
BOAD	Banque Ouest Africaine de Développement
DGEF	Division of Global Environment Facility
ECOWAS	Economic Community Of West African States
ECOWAS/WRCC	Economic Community Of West African States/Water Resources Coordination Centre
EPA	Environmental Protection Agency
EU	European Union
GEF	Global Environment Facility
GLOWA	Globaler Wandel WAsserkreislaufes
GTZ	German Technical Cooperation
GWP	Global Water Partnership
GWP-WAWP	Global Water Partnership-West Africa Water Partnership
HYCOS	Hydrological Cycle Observation System
ICARM	Integrated Coastal Area and River Basin Management
IRB	International River Basin
IUCN	International Union for Conservation of Nature and Natural Resources
IW-LEARN	Internal Water Learn
IWRM	Integrated Water Resources Management
M&E	Monitoring and Evaluation
MCA	Millennium Challenge Account
MOA	Memorandum Of Agreement
MOU	Memorandum Of Understanding
NBA	Niger Basin Authority
NFP	National Focal Point
OMVG	Organisation pour la Mise en Valeur du fleuve Gambie
OMVS	Organisation pour la Mise en Valeur du fleuve Sénégal
ORASECOM	Orange-Senqu River Commission
PAGEV	Projet d' Amélioration de la Gouvernance de l'Eau dans le Bassin de la Volta
PIR	Project Implementation Report
PMU	Project Management Unit
PSC	Project Steering Committee
PTF	Project Task Force
RBO	River Basin Organisation
SAP	Strategic Action Program
SIAAP	Syndicat Interdépartemental pour l' Assainissement de l' Agglomération de Paris
TDA	Transboundary Diagnostic Analysis
ToR	Terms of References
UDC	UNEP DHI Centre for Water and Environment
UNEP	United Nations Environment Program
UNEP/GEF	United Nations Environment Program/ Global Environment Facility
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNOPS	United Nations Office for Project Services
VBA	Volta River Authority
VB-ISS	Volta Basin Information Sharing System
VRB	Volta River Basin
WSSD	World Summit on Sustainable Development



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## 1. Background information

**Project title:** Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

**Project number (if applicable):** 53885 (UNOPS)

**Responsible division(s)/unit(s) in UNEP:** UNEP/GEF

**Project starting date:** 2<sup>nd</sup> January 2008

**Project completion date:** 31<sup>st</sup> December 2012

**Reference to UNEP sub-programme(s) and expected accomplishment(s):** UNEP/GEF International Waters

### 1.1 Overall objective(s) of the Project

1. The UNEP/GEF Volta River Basin Project is a regional initiative which has been designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin within the six riparian countries: Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. It is developed specifically to address priority regional transboundary issues and problems as identified through a preliminary Transboundary Diagnostic Analysis (TDA). The Project has a primary focus on addressing some of the major environmental problems and issues of the basin leading to the degradation of the environment by human activities.
2. **Project's long-term goal:** equitable and sustainable management of water resources and other connected natural resources in the Volta River Basin and its downstream coastal area.
3. **The project's overall objective is to** enhance the ability of the riparian countries to plan and manage the Volta River Basin and its downstream coastal area (including aquatic resources and ecosystems) on a sustainable basis, by achieving sustainable capacity and establishing regional institutional frameworks for effective management; developing national and regional priorities; and effective legal, regulatory and institutional frameworks and management tools as a basis for action as well as initiating national and regional measures to achieve sustainable ecosystem management.
4. **The broad development objective** of this project is to address the perceived major transboundary problems and issues of the Volta Basin leading to the degradation of the environment as a result of human activities, by reducing those activities that lead to water scarcity, land and water degradation, and to integrate environmental concerns with present and future development of the basin. The broad development objectives are in line with the WSSD recommendations, national IWRM planning processes, and national development and poverty reduction strategies.
5. The three **Specific Objectives of the project** are as follows:
  - Specific Objective n° 1: Build capacity, improve knowledge and enhance stakeholders' involvement to support the effective management of the VRB
  - Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area
  - Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin.

## 1.2 Partners and Financial details (budget)

6. The UNEP GEF Volta Project is implemented by the United Nations Environment Programme (UNEP). The executing agency is the United Nations Office for Project Services (UNOPS) with UNEP DHI Centre for Water and Environment (UDC) as co-executing agency. The roles of these institutions are mentioned in the project inception report as approved by the Project Steering committee meeting held in Bamako, Mali on 15th May, 2008.
7. The project has discussed and negotiated partnership arrangements with several institutions and organisations. Specifically, discussions have been held with VBA, IUCN-PAGEV, SIAAP, IW-LEARN, GEF Niger River, GEF-Senegal River, ECOWAS/WRCC, OMVG, OMVS, NBA, MCA Burkina Faso and GWP-WAWP on possible areas to collaborate. During the discussions with some of these partners (mainly SIAAP, VBA, IUCN-PAGEV, MCA Burkina Faso) MOAs or collaboration agreements have been proposed towards the execution of key project activities.
8. The main financial partners are the Global Environment Facility (GEF) and the Governments of the riparian countries, contributing US\$ 5,844,880 and US\$ 3,424,739 respectively. Countries participating in the Project are Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. Project activities in these participating countries are coordinated by the National Focal Points.
9. Activities at national level are undertaken by the National partners from the six riparian countries, based upon the MOA signed with UNOPS and the agreed project work plan and budget. However, during the year 2011, mobilising the co-financing from some of the national partners and other project partners as stated in the initial project brief will remain very difficult. For example, some countries like Côte d'Ivoire and Togo felt that their current financial situation did not allow them to honour the co-finance commitments that were originally pledged to the project.

**Table 1: Project financial details**

Country/Partner	Initial pledge US\$	Revised pledge (2008) US\$
<b>GEF Support</b>		
Project	5,347,380	5,347,380
PDF – B	472,500	472,500
PDF – A	25,000	25,000
<b>Subtotal GEF</b>	<b>5,844,880</b>	<b>5,844,880</b>
<b>Co-financing</b>		
Benin	418 200	418 200
Burkina Faso		267 353
Côte d'Ivoire	915 000	915 000
Ghana	3 888 270	690 000
Mali	7211	314 270
Togo	819 916	819 916
UNEP	60 000	60 000
Hungary	10 000	10 000
Czech Rep.	50 000	50 000
IUCN	620 000	620 000
ECOWAS/EU <sup>1</sup>	1 962 500	1 962 500
SIAAP <sup>2</sup>	471 000	471 000
MCA Burkina Faso		To be determined
<b>Subtotal Co-financing</b>	<b>9 222 097</b>	<b>6 598 239</b>
<b>Total Project Budget</b>	<b>15 066 977</b>	<b>12 443 119</b>

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<sup>1</sup> 1,250,000 euros

<sup>2</sup> 300,000 euros

## 2. Overview of the 2011 main events

10. The year 2010 was mainly dedicated to the preparation and review of national TDA documents, the completion of the Volta River Basin Causal Chain Analysis, the development of the Volta Basin Information Sharing System and the implementation of the 3 demo projects.
11. The year 2011 is the fourth year of the project implementation. It is a very significant year in the project lifespan and therefore the 2011 work plan and its successful implementation are very critical to the project delivery.
12. The main focus of the GEF Volta Project activities in 2011 consist of the followings key events:
  - Finalisation and validation of the TDA document
  - Beginning of the preparation of the SAP document
  - Implementation of the 3 demonstration projects as per their respective work plans and budgets and based on MOAs signed or to be signed with identified executing agencies
  - Development of a concept note for the implementation of the Demo Project 2 in Benin (protection of river banks and code of conduct on fishery activity on the Pendjari river)
  - Finalisation of the Volta Basin Information Sharing System in collaboration with the Volta Basin Observatory and with the support of UNEP DEWA
  - Organisation of the project mid-term evaluation
  - Organisation of the 3<sup>rd</sup> Project Steering Committee meeting
  - Awareness raising campaigns and training of national partners on IWRM and international river basins management approaches, including enhanced stakeholders participation at the basin level.
13. An overview table of the main events planned for 2011 is presented in Table 2.
14. The detailed 2011 work plan is presented in Tables 3, 4 and 5. A summary of the main activities under each of the project specific objectives is presented in the following sections.

**Table 2: Overview of the main events planned for 2011**

Date	Place	Event
January – February 2011	Pretoria	Study visit to ORASECOM (VBA, PMU, PAGEV)
April 2011	Lomé/accra	Project Steering Committee meeting
April/May 2011	Riparian countries	Conduct the project mid-term evaluation
May/June 2011	Cotonou	Regional TDA validation workshop
May/June 2011	Bamako/Accra	Regional Starting workshop for the SAP
May-June 2011	Ouagadougou	VBA Programming and harmonisation workshop with ongoing/planned initiatives
July-September 2011	Riparian countries/Ouagadougou	Training of national institutions on IWRM and IRB management
July-September 2011	Riparian countries/Ouagadougou	National or regional level awareness raising campaigns on IRB management for stakeholders

### 3. Main activities per specific objective

#### 3.1 Main activities planned for the Specific objective 1

15. The VBA is the permanent regional body to facilitate the mandate for development of the basin; and as such, has long term objectives and responsibility, whereas the UNEP-GEF Volta Basin Project is a project which seeks to support and service the VBA in the implementation of its strategic priorities and as a project, promote and pursue its activities in a manner that would ensure that its outputs are integrated into the VBA's programme of work. Therefore, there is a need for a strong collaboration between the two partners. In view of this, the GEF Volta Basin Project will consolidate and intensify its collaboration with the VBA on the basis of the collaboration framework signed by the 2 partners in 2009 to achieve their common goals and objectives. The GEF Volta Basin Project will also support the VBA for the editing and dissemination of its Strategic Plan, the Study and Exchange visit to ORASECOM (Orange-Senqu River Commission, Pretoria - South Africa), the coordination of ongoing and planned initiatives within the Volta River Basin, the participation in key VBA meetings and workshops.
16. The GEF Volta Basin Project will also support in collaboration with the VBA, the finalisation and operation of the Volta Basin Clearinghouse and Information System with the aim to provide a mechanism for regional cooperation, coordination and collaborative actions, and enable the riparian partners to harness resources and expertise from a wide range of stakeholders and interest groups towards solving interlinked environment and water resources problems. The GEF Volta Project will also: i-) contribute to thematic forums/trainings as per Volta Basin Observatory work plan, ii-) contribute to the preparation of reference report on the VRB water and environmental resources status as per Volta Basin Observatory work plan and, iii-) participate to the Volta Basin Observatory steering committee meeting (and other key meetings if required).
17. One of the major set of activities planned to achieve the Specific Objective 1 is awareness raising campaigns and training of national partners on IWRM and international river basins management. Discussions are ongoing with the VBA, IUCN/PAGEV and other Projects for the harmonisation and joint organisation of transboundary water and environment thematic training workshops and awareness raising campaigns. In view of this, the PMU also plans to prepare a training plan and raise additional funds through the GTZ division of Transboundary Water Management in Africa
18. To ensure that local stakeholders are fully participating in the GEF Volta Project activities and in view of the establishment of national basin organisations at country's level, it is expected to support in collaboration with IUCN/PAGEV and through the implementation of the Demo Projects: i-) the establishment of pilot local committees in Benin, Ghana, Mali and Côte d'Ivoire (grassroots communities) and, ii-) their involvement to the Volta River Basin resources management at the local level. The Project will also implement other joint activities with IUCN/PAGEV in Togo; Burkina Faso, Benin and Ghana: river bank protection, regulation of fishery activities, trainings, etc.
19. As part of its communication strategy, the PMU will: i-) prepare and disseminate project's brochures, leaflets, stickers, ii-) organise radio and TV broadcasts, iii-) prepare a documentary on the Volta River Basin, iv-) prepare the synthesis of all documentations on the project and produce communication products for all events related to transboundary water and associated environment issues v-) participate and present the project's results at major regional and international water conferences: 2<sup>nd</sup> Istanbul International Water Forum, GWP, PAGEV, VBA, ANBO, GCLME and ECOWAS meetings/workshops, vi-) disseminate the project results and reports and regularly update the project website
20. Other key activities include:
  - Updating of the project M&E plan based on baseline situation and stress reduction indicators analysis from demo projects

- Preparation and dissemination of project reports (PIR and annual report, monthly brief, study reports)
  - Organisation of the project mid-term evaluation
  - Organisation of the 3rd Project Steering Committee meeting
  - Courtesy visits to national authorities (Ministers in charge of water and environment) to update them on the project implementation: status, major challenges, national contributions, information on VBA activities, etc
  - Participation to IUCN/PAGEV, MCA Burkina Faso, GWP West Africa steering committees meetings and other key workshops
  - Support to the VBA for the development of stakeholders involvement plan in the framework of its Strategic Plan
  - Contribution to the celebration of international water or environment events in Benin and Togo
  - Establishment of contact with key potential technical and financial partners: GTZ division in Charge of Transboundary Water Management in Africa, American Environmental Protection Agency, World Bank, ADB, AMCOW, African Water Facility, etc.
21. Table 3 presents the detailed activities and work plan corresponding to Specific Objective n° 1

**Table 3: Detailed activities and work plan corresponding to Specific Objective n° 1**

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB					
Code	Activities	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>RI.1: Project Managed and coordinated to partners satisfaction</b>					
A1.1.1.	<ul style="list-style-type: none"> <li>• <i>Establish the Project Management Unit and governance system including: PMU, MOUs, PSC, NFP, NIC, Inception report, etc<sup>3</sup></i> <ul style="list-style-type: none"> <li>○ Training of PMU staff on UNOPS procedures, rules and regulation</li> </ul> </li> </ul>	X			
A1.1.2.	<ul style="list-style-type: none"> <li>• Develop and implement project monitoring and evaluation plan                             <ul style="list-style-type: none"> <li>○ Update the M&amp;E plan (including stress reduction indicators) and submit it to the PSC</li> <li>○ Pay courtesy visits to national authorities (Ministers in charge of water and environment) and update them on the project implementation</li> <li>○ Implement the M&amp;E plan</li> <li>○ Conduct the project mid-term evaluation and submit the report to the PSC</li> <li>○ Organise the 3<sup>rd</sup> PSC meeting</li> </ul> </li> </ul>	X			
A1.1.3.	<ul style="list-style-type: none"> <li>• Identify linkages with other partners, develop and implement collaboration plan                             <ul style="list-style-type: none"> <li>○ Support VBA for the editing and dissemination of its Strategic plan</li> <li>○ Contribute to VBA coordination meeting with ongoing/planned initiatives</li> <li>○ Implement joint activities with IUCN/PAGEV in Togo; Burkina Faso, Benin and Ghana: river bank protection, regulation of fishery activities, trainings, etc</li> <li>○ Prepare and sign a collaboration agreement with SIAAP for the implementation of the Demo Project 2 in Togo</li> <li>○ Participate in IUCN/PAGEV, MCA Burkina Faso, GWP West Africa steering committees meetings and other key workshops</li> <li>○ Participate in VBA and Volta Basin Observatory meetings and workshops</li> <li>○ Support in collaboration with IUCN PAGEV, the VBA for a Study and Exchange visit to ORASECOM (Orange-Senqu River Commission) in Pretoria (South Africa)</li> <li>○ Establish contact with key potential technical and financial partners: GTZ division in Charge of Transboundary Water Management in Africa, American Environmental Protection Agency, World Bank, ADB, AMCAW, African Water Facility, etc.</li> </ul> </li> </ul>	X			
		X	X	X	X
		X	X		
		X	X	X	X
		X	X		
			X		
		X			
		X	X	X	

<sup>3</sup> Font style for activities completed: italic

<b>Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB</b>					
<b>Code</b>	<b>Activities</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
A1.1.4.	<ul style="list-style-type: none"> <li>• Carry out project reports (PIR and annual report, monthly brief, study reports)</li> </ul>	X	X	X	X
A1.1.5.	<ul style="list-style-type: none"> <li>• Document project implementation and communicate results through publications, regional and internal reports, project newsletter and project website: <i>(just for the record)</i> <ul style="list-style-type: none"> <li>○ Synthesize all documentations on the project and produce communication products for all events related to transboundary water and associated environment issues</li> <li>○ Participate in and present the project's results at major regional and international water conferences (e.g. 2<sup>nd</sup> Istanbul International Water Forum , GWP, PAGEV, VBA, ANBO and ECOWAS meetings/workshops)</li> <li>○ Prepare and disseminate project's brochures, leaflets, etc</li> </ul> </li> </ul>	X	X	X	X
	<ul style="list-style-type: none"> <li>○ Organise radio and TV broadcasts</li> </ul>		X		X
	<ul style="list-style-type: none"> <li>○ Prepare a documentary on the Volta River Basin</li> </ul>	X	X	X	
<b>R1.2: Capacity &amp; participation of stakeholders in VRB management strengthened</b>					
A1.2.1.	<ul style="list-style-type: none"> <li>• <i>Conduct training on TDA/SAP process for NFPS</i></li> </ul>				
A1.2.2.	<ul style="list-style-type: none"> <li>• Analysis of national institutions and stakeholders and preparation of stakeholders involvement plan                             <ul style="list-style-type: none"> <li>○ <i>Prepare the matrix of national institutions concerned by the management of the Volta Basin, analyse their mandates and capacities</i></li> <li>○ <i>Prepare and analyze the stakeholders matrix: main activities and mandates, links with the management of the Volta Basin, and capacities to address IRB issues</i></li> <li>○ <i>Identify training gaps and prioritise training needs of national institutions and stakeholders for IRB management</i></li> <li>○ <i>Develop national training plans for the training of personnel in the key institution</i></li> </ul> </li> </ul>	X			
	<ul style="list-style-type: none"> <li>○ Support the VBA for the development of stakeholders involvement plan in the framework of its Strategic Plan</li> </ul>	X	X		
	<ul style="list-style-type: none"> <li>○ Support in collaboration with PAGEV the establishment of pilot local committees in Benin and Togo, Ghana and Côte d'Ivoire (grassroots communities) in view of the establishment of national basin organisation</li> </ul>	X	X	X	X
	<ul style="list-style-type: none"> <li>○ Support and co-organise the celebration of international water or environment events in riparian countries</li> </ul>		X	X	X
A1.2.3.	<ul style="list-style-type: none"> <li>• Conduct training sessions and awareness raising campaigns for national institutions and stakeholders on IWRM and IRB management                             <ul style="list-style-type: none"> <li>○ Prepare a training plan and raise additional funds through the GTZ division of Transboundary Water Management in Africa</li> <li>○ Organise national training sessions on IRB management for personnel in the key institutions</li> <li>○ Organise at national level, awareness raising campaigns on IRB management for stakeholders</li> </ul> </li> </ul>	X			
			X		
				X	

<b>Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB</b>					
<b>Code</b>	<b>Activities</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
A1.2.4.	<ul style="list-style-type: none"> <li>• Conduct a training session for national institutions on data management and monitoring and, clearinghouse system</li> </ul>	X			
A1.2.5.	<ul style="list-style-type: none"> <li>• Conduct training on SAP implementation at national and regional levels</li> </ul>				
<b>R1.3: Knowledge based expanded &amp; basin-wide communication mechanism in place</b>					
A1.3.1.	<ul style="list-style-type: none"> <li>• Conduct study on data inventory and assessment, including data sharing mechanism, training gaps and training plan</li> </ul>				
A1.3.2.	<ul style="list-style-type: none"> <li>• Support and/or contribute to studies on the establishment of the Volta Basin Observatory through database, data collection and data sharing protocol</li> </ul>				
	<ul style="list-style-type: none"> <li>○ Contribute to thematic forums/trainings as per Volta Basin Observatory work plan</li> </ul>		X	X	
	<ul style="list-style-type: none"> <li>○ Contribute to the preparation of reference report on the VRB water and environmental resources status as per Volta Basin Observatory work plan</li> </ul>		X	X	X
	<ul style="list-style-type: none"> <li>○ Participate to the Volta Basin Observatory steering committee meeting (and other key meetings if required)</li> </ul>		X	X	X
	<ul style="list-style-type: none"> <li>○ Support the installation of the Volta Basin data platform through the procurement and installation of: 1 Hardware Server, 1 UPS, the Software ArcGIS Server, the ArcGIS Desktop (if necessary) and the MS SQL Server 2005</li> </ul>				
	<ul style="list-style-type: none"> <li>○ Finalise and operate the Volta Basin Information Sharing System (VB-ISS)</li> </ul>	X			
A1.3.3.	<ul style="list-style-type: none"> <li>• Organize one scientific workshop in collaboration with key partners (UNESCO, GTZ, GLOWA, WASCAL, etc.)</li> </ul>				
	<ul style="list-style-type: none"> <li>○ Prepare a concept note on the workshop, establish contact and share it with selected partners and potential donors</li> </ul>				X
A1.3.4.	<ul style="list-style-type: none"> <li>• Develop and update project website</li> </ul>	X	X	X	X

### 3.2 Main activities planned for the Specific objective 2

22. The production of a Transboundary Diagnostic Analysis (TDA) followed by a Strategic Programme of Action (SAP) is a requirement for most the projects proposed for financing in the GEF International Waters Focal Area. The TDA is a scientific and technical fact-finding analysis used to scale the relative importance of sources, causes and impacts of transboundary waters problems. It is an objective assessment and not a negotiated document.
23. For the Volta River Basin, this analysis is carried out in a cross sectoral manner, focusing on transboundary problems without ignoring national concerns and priorities. Also, a detailed 'governance analysis' which considers the local institutional, legal and policy environment has been included into the TDA process in order to make the analysis more effective and sustainable.
24. A transboundary problem has been defined as any form of anthropogenic degradation in the natural status of a water body that concerns more than one country and, following the GEF approach, the findings of national discussions and studies, eight priority transboundary issues were identified during the causal chain analysis workshop held in Akosombo (Ghana) in September 2010:
  - Changes in water quantity and seasonality of flows
  - Degradation of Aquatic Ecosystems
  - Degradation of Surface Water Quality/Pollution
  - Invasive Aquatic Species
  - Land Degradation/ Loss of Vegetative Cover
  - Loss of Biodiversity
  - Water related diseases
  - Coastal Erosion
25. For the GEF Volta Project, 2010 and 2011 are major years for conducting TDA/SAP activities. National TDA documents prepared/drafted in 2010 for the Volta River Basin are used as the basis for the finalisation of the regional TDA document in 2011 and the initial development of the SAP.
26. The main TDA activities planned by the PMU to deliver on this objective during the year 2011 are:
  - Organisation of the National TDA validation workshop in Côte d'Ivoire
  - Pursuit of consultation with key partners and discussion on transboundary water and associated environmental issues
  - Translation of national TDA reports into English/French
  - Organisation in collaboration with the VBA, of regional experts meeting for the development of regional synthesis reports on each thematic area, the drafting the Volta Basin TDA
  - Updating and finalisation of the Volta River Basin TDA document
  - Validation of the final TDA document by key stakeholders both at national and regional levels
  - Dissemination of national/regional TDA reports and causal chain analysis workshop report
27. The SAP is a negotiated policy document which should identify policy, legal and institutional reforms and investments needed to address the priority transboundary problems. Endorsed at the highest level, it establishes clear priorities for action to resolve the priority transboundary problems which are identified in the TDA. The SAP sets out specific actions for each country that can be adopted nationally but harmonised with the other concerned countries.
28. Toward the end of the 2<sup>nd</sup> quarter of the year 2011, the work plan and TORs for SAP preparation will be finalised and the SAP process will be officially launched by the PMU through the organisation of a regional workshop. The SAP process will therefore be implemented based on the

work plan and detailed guideline prepared and approved by key stakeholders during the SAP inception workshop.

29. The PMU will start the fundraising process by establishing contact and involving some donors/partners in the TDA/SAP process: American EPA, World Bank, African Water Facility, BOAD, etc. In view of this, the PMU envisages to visit some of the potential donors.
30. Table 4 presents the detailed activities and work plan corresponding to Specific Objective n° 2

**Table 4: Detailed activities and work plan corresponding to Specific Objective n° 2**

<b>Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</b>					
<b>Code</b>	<b>Activities</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
<b>R2.1: VRB regional coordination mechanisms supported (Just for the record)</b>					
A2.1.1.	• Advocate at Ministerial level and through project meetings, workshops and reports, the importance of ratifying the basin convention (just for the record)				
A2.1.2.	• Insert and mainstream the TDA, SAP and APNP-VRB into the VBA policies, strategies and plans (just for the record)				
<b>R2.2: Transboundary Diagnostic Analysis (TDA) updated and finalised</b>					
A2.2.1.	• Review the preliminary TDA, identify gap and prepare detailed methodology for TDA finalisation and SAP/APNP-VRB development				
A2.2.2.	• Organize starting regional/national workshops with national, regional and international institutions and stakeholders <ul style="list-style-type: none"> <li>○ Organize regional starting workshop with national, regional and international institutions and stakeholders (Dissemination of the workshop report)</li> <li>○ Organize national starting workshops with national institutions and stakeholders</li> </ul>				
A2.2.3.	• Update and complete the TDA document including situation analysis and causal chain analysis				
	○ Draft the regional TDA Document	X	X		
	○ Translate national TDA reports into English/French				
	○ Organise 1or 2 regional experts meeting for the drafting the Volta Basin TDA		X		
	○ Finalise the regional TDA document and translate it into French		X		
A2.2.4.	• Organize regional validation workshop with national, regional and international institutions and stakeholders		X		
A2.2.5.	• Submit the TDA document to the PSC and VBA for approval		X		
A2.2.6.	• Disseminate national/regional TDA reports and causal chain analysis workshop report	X	X	X	X
<b>R2.3: Action Plans for the National Parts of the VRB (APNP-VRB) developed</b>					
A2.3.1.	• Organize 6 workshops at country level (with national institutions and stakeholders) as input to the APNP-VRBs elaboration				
A2.3.2.	• Prepare the National Action Plans documents, including APNP-VRBs implementation guideline, monitoring & evaluation system for APNP-VRBs implementation, long term financing strategy for the APNP-VRBs				
A2.3.3.	• Organize APNP-VRB validation workshops in each riparian country				
A2.3.4.	• Submit APNP-VRB document to national authorities for endorsement				
<b>R2.4: Strategic Action Programme (SAP) prepared</b>					
A2.4.1.	• Organize starting regional workshop with national, regional and international institutions and stakeholders				

<b>Outputs / Results corresponding to Objective n° 2: Develop river basin legal, regulatory and institutional frameworks, and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area</b>					
<b>Code</b>	<b>Activities</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
	<ul style="list-style-type: none"> <li>○ Update the work plan for SAP preparation</li> </ul>		X		
	<ul style="list-style-type: none"> <li>○ Finalise TORs and contract the SAP team</li> </ul>		X	X	
	<ul style="list-style-type: none"> <li>○ Organise SAP regional inception workshop</li> </ul>		X	X	X
A2.4.2.	<ul style="list-style-type: none"> <li>● Prepare the Strategic Action Programme document, including SAP implementation guideline, monitoring &amp; evaluation system for SAP implementation, long term financing strategy for the SAP</li> </ul>		X	X	X
A2.4.3.	<ul style="list-style-type: none"> <li>● Organize validation regional workshop with national, regional and international institutions and stakeholders</li> </ul>				
A2.4.4.	<ul style="list-style-type: none"> <li>● Submit the SAP document to: i-) the Steering Committee for approval and, ii-) the Ministers in charge of Water and Environment for the endorsement of the SAP document (ideally in conjunction with VBA Ministerial meeting)</li> </ul>				
A2.4.5.	<ul style="list-style-type: none"> <li>● Start the fundraising process by establishing contact and involving some donors/partners in the TDA/Sap process: American EPA, World Bank, African Water Facility, BOAD, etc</li> </ul>	X	X	X	X

### 3.3 Main activities planned for the Specific objective 3

31. Three demo projects were selected and developed during the overall project preparation. The 3 demo project documents have been updated in 2008 taking into account recent development in the proposed demo project areas, especially: i-) equipment of the Sourou river with hydrometric and rain gauge station through the implementation of the Volta HYCOS Project (Demo Project 1), ii-) the construction of wastewater network in the City of Kara with the support of SIAAP (Demo Project 2) and, iii-) the construction of the hydroelectric dam at Bui in Ghana (Demo Project 3). The review of the demo projects has led to more detailed and elaborate project documents submitted to the PMU and national partners.
32. Based on the revised Demo Projects documents and discussions with national partners, MOAs were signed in 2010 with the Government of Mali for the implementation of the Demo Project 1 and the Governments of Côte d'Ivoire and Ghana for the implementation of the Demo Project 3. The PMU will therefore pursue the implementation of these 2 Demo Projects in the framework of the MOAs and as per the agreed Demo Projects work plans and budgets for 2010.
33. Based on discussions undertaken with MCA Burkina Faso for the implementation of the Demo Project 1, the adaptation of the hydrological model (HEC RAS) to the project area will be finalised in 2011 and national partners trained on how to use the model for the prediction of floods and inundations scenarios in the Sourou River Basin. Also, the demo budget will be reallocated to allow bathymetric measurements in Mali and therefore facilitate the integration into the model of data from the Malian side of the basin.
34. The ongoing situation in Côte d'Ivoire could seriously affect the implementation of the Demo Project 3. The PMU envisages developing with the support of UDC and in collaboration with partners from Côte d'Ivoire and Ghana, an appropriate response plan at the beginning of the year 2011. In addition to the fact that the project will be implemented based on the 2011 work plan and budget, one should highlight 2 major activities planned for 2011:
  - organisation of the 1<sup>st</sup> bilateral meeting (Ghana – Côte d'Ivoire) and the official launch the Demo Project
  - update of the project stress reduction indicators, work plan and budget
35. In the meantime, the PMU will pursue and finalise discussions with SIAAP for the implementation of the Demo Project 2 in Togo, mainly:
  - completion of the wastewater network in Ewawu area (Kara city)
  - validation of the study on the appropriate technology for the construction of the small scale treatment plant and its connection to the wastewater network in Ewawu area
  - construction of a small scale wastewater treatment plant in Ewawu area (Kara city)
  - connection of houses, Kara Market, hotels, restaurants, schools, Kara Municipality and other major public/privates institutions to the network
  - awareness creation campaigns and sensitize Ewawu's inhabitants on Water and Environmental Sanitation issues
  - training of national partners on how to operate and maintain the treatment plant and wastewater network.
36. As follow up of the joint filed visit organised in collaboration with IUCN PAGEV and the Benin National Water partnership in the Pendjari River Basin (Benin), the GEF Volta Project will:
  - organise joint field visits GEF Volta IUCN/PAGEV to the Pendjari river Basin in Benin and Burkina Faso during the first quarter of the year
  - support the governments of Benin and Burkina Faso for the development of a code of conduct on fishery activity on the Pendjari river
  - prepare a new proposal for the extension of the IUCN/PAGEV activities on river bank protection

- to the upstream of the Pendjari river in Benin
- prepare and sign MOAs with Benin government and/or other implementing/executing agency and organise starting workshop/discussion with national partners in Benin
37. There is a need to address coastal area challenges as identified during the project preparation. The GEF Volta Project will t(therefore update the Demo Project on: Fresh groundwater storage and movement between SE Ghana and SW Togo and agronomic practices to safeguard the shallow freshwater lenses from salinisation, prepare and integrate a concept note for the construction of a wastewater network and treatment plan in Keta (coastal downstream area of the Volta Basin - Ghana) and negotiate financing issues with KfW, US EPA and ADB
38. Due to budget constraint which could harm the successful implementation of the demonstration projects, the PMU envisages to conduct some fundraising activities by emphasising during discussion with donors on their major outcomes and impacts.
39. Table 5 presents the detailed activities and work plan corresponding to Specific Objective n° 3

**Table 5: Detailed activities and work plan corresponding to Specific Objective n° 3**

<b>Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin</b>					
<b>Code</b>	<b>Activities</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
<b>R3.1: 3 Demo projects successfully implemented</b>					
A3.1.1.	• Review demo project documents (logframe, activities, budget, M&E plan and work plan) and prepare inception report ( <i>Dissemination of studies reports and preparation of inception reports</i> )	X			
A3.1.2.	• Implement the Demo project no 1: Joint management by Burkina Faso and Mali of a flow release warning system in the Sourou river valley (tributary of Black Volta River or Mouhoun)				
	○ Disseminate the DP inception report	X	X		
	○ Finalise the adaptation of the hydrological model (HEC RAS) to the project area and train national partners (activity funded by MCA Burkina Faso)	X	X		
	○ Reallocate the demo budget to allow bathymetric measurements in Mali	X			
	○ Implement the demo Project as per the 2011 work plan and budget	X	X	X	X
A3.1.3.	• Implement the Demo project no 2: Installing and comparing technological models of waste water treatment in the Cities of Kara (Togo) and Natitingou (Benin)				
	○ Validate the study on the appropriate technology for the construction of the small scale treatment plant and its connection to the network in Ewawu area	X			
	○ Prepare and sign MOA or collaboration agreement with SIAAP for the implementation of DP 2 in Togo	X			
	○ Finalise the construction of wastewater network in Ewawu area through SIAAP funding	X	X		
	○ Construct the small scale treatment plant		X	X	X
	○ Connect mosques, schools, restaurants and other major public/privates institutions to the network				X
	○ Organise awareness creation campaigns and sensitize Ewawu's inhabitants on Water and Environmental Sanitation issues		X		X
	○ Organise a Joint field visit GEF Volta IUCN/PAGEV to the Pendjari river Basin in Benin and Burkina Faso	X			
	○ Support the governments of Benin and Burkina Faso for the development of a code of conduct on fishery activity on the Pendjari river	X	X	X	X
	○ Prepare a new proposal for the extension of the IUCN/PAGEV activities on river bank protection to the upstream of the Pendjari river in Benin	X	X	X	X
	○ Prepare and sign MOAs with Benin government and/or other implementing/executing agency		X		
	○ Organise starting workshop/discussion with national partners in Benin		X		
	○ Implement the demo Project as per the 2011 work plan and budget	X	X	X	X

<b>Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin</b>					
<b>Code</b>	<b>Activities</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
A3.1.4.	<ul style="list-style-type: none"> <li>• Implement the Demo project no 3: Restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire &amp; Ghana) and its tributaries through participative campaigns of reforestation                             <ul style="list-style-type: none"> <li>○ Organise the 1<sup>st</sup> bilateral meeting (Ghana – Côte d'Ivoire) and officially launch the DP</li> <li>○ Update the project stress reduction indicators, work plan and budget</li> <li>○ Implement the demo Project as per the work plan</li> </ul> </li> </ul>				
		X			
		X			
		X	X	X	X
A3.1.5.	<ul style="list-style-type: none"> <li>• Prepare a concept note for the construction of a wastewater network and treatment plan in Keta (coastal downstream area of the Volta Basin - Ghana) and negotiate financing issues with KfW, US EPA and ADB</li> </ul>	X	X		
A3.1.6.	<ul style="list-style-type: none"> <li>• Update the Demo Project on: Fresh groundwater storage and movement between SE Ghana and SW Togo and agronomic practices to safeguard the shallow freshwater lenses from salinisation</li> </ul>	X	X		
A3.1.7.	<ul style="list-style-type: none"> <li>• Fundraising for the implementation of demo projects</li> </ul>	X	X	X	
A3.1.8.	<ul style="list-style-type: none"> <li>• Evaluate the implementation of the three Demo projects</li> </ul>				
<b>R3.2: Replication strategy for demonstration project developed and initiated</b>					
A3.2.1.	<ul style="list-style-type: none"> <li>• Develop a plan for the replication of the Demo projects</li> </ul>				
A3.2.2.	<ul style="list-style-type: none"> <li>• Develop six national Demo projects based and TDA/SAP priorities</li> </ul>				
A3.2.3.	<ul style="list-style-type: none"> <li>• Submit the six national Demo projects to riparian countries for approval</li> </ul>				
A3.2.4.	<ul style="list-style-type: none"> <li>• Incorporate the replication plan in the SAP</li> </ul>				

#### 4. Proposed budget for the calendar year 2011

40. The proposed budget for 2011 is presented in the Table 6 below. This table is the summary of a detailed budget prepared in EXCEL by PMU and discussed with UNEP/DGEF before its integration into this report.
41. The total budget for 2011 is 1,669,349.00 \$. The project budget has been revised taking into account changes that occurred during the year 2010. Some key activities planned for 2010 have been postponed to 2011 and 2012 such as:
- MOA with SIAAP for the implementation of Demo Project 2 in Togo,
  - MOAs with IUCN/PAGEV and national partners for the implementation of Demo Project 2 activities in Benin,
  - National/regional training sessions and awareness raising campaigns on IRB management for personnel in the key institutions and other stakeholders
  - Finalisation of the TDA, including thematic meetings with regional experts, regional validation workshop and payment of TDA consultants
  - Regional SAP starting workshop<sup>4</sup>
  - Purchase of the ESRI software in the framework of the project support to the Volta Basin Observatory.

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<sup>4</sup> This could be a back to back workshop with the TDA validation workshop

**Table 6: Project budget for year 2011 (USD)**

UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2008 Expenditures	2009 Expenditures	2010 Expenditures	2011 Budget	2012 Budget	Total Revised 2011
<b>10</b>	<b>PROJECT PERSONNEL COMPONENT</b>						
	1100 Project Personnel	279 439	259 388	341 089	311 377	353 832	1 545 123
	1200 Consultants	206 843	75 000	23 441	177 800	81 500	564 584
	1300 Administrative support	14 732	18 921	27 729	21 795	22 667	105 843
	1400 Volunteers	0	0	0	0	0	0
	1600 Travel on official business (PMU+Consultants)	45 898	59 363	35 790	86 531	43 000	270 582
	<b>1999 Component Total</b>	<b>546 912</b>	<b>412 672</b>	<b>428 047</b>	<b>597 502</b>	<b>500 998</b>	<b>2 486 132</b>
<b>20</b>	<b>SUB-CONTRACT COMPONENT</b>						
	2100 Sub-contracts (MoU's/LA's for UN agencies)	0	0	0	0	0	0
	2200 Sub-contracts (MoU's/LA's for non-profit organisations)	47 736	43 555	157 656	319 677	249 389	818 014
	2399 Sub-contracts (commercial purposes)	0	0	0	0	0	0
	<b>2999 Component Total</b>	<b>47 736</b>	<b>43 555</b>	<b>157 656</b>	<b>319 677</b>	<b>249 389</b>	<b>818 014</b>
<b>30</b>	<b>TRAINING COMPONENT</b>						
	3100 Fellowships	0	0	0	0	0	0
	3200 Group training	52 118	42 130	74 022	80 000	57 384	305 654
	3300 Meetings/conferences	39 000	49 426	166 278	320 636	150 000	725 340
	<b>3999 Component Total</b>	<b>91 118</b>	<b>91 556</b>	<b>240 300</b>	<b>400 636</b>	<b>207 384</b>	<b>1 030 994</b>
<b>40</b>	<b>EQUIPMENT &amp; PREMISES COMPONENT</b>						
	4100 Expendable equipment	5 340	10 806	3 059	46 709	3 586	69 500
	4200 Non-expendable equipment	9 562	4 880	42 493	8 960	1 500	67 394
	4300 Premises	0	1 739	849	2 477	561	5 626
	<b>4999 Component Total</b>	<b>14 902</b>	<b>17 425</b>	<b>46 401</b>	<b>58 146</b>	<b>5 647</b>	<b>142 520</b>
<b>50</b>	<b>MISCELLANEOUS COMPONENT</b>						
	5100 Operation and maintenance of equip.	0	1 828	109	13 800	12 945	28 681



UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2008 Expenditures	2009 Expenditures	2010 Expenditures	2011 Budget	2012 Budget	Total Revised 2011
5200	Reporting costs	2 950	22 391	23 249	70 607	70 000	189 197
5300	Sundry (communications, postage,	6 450	13 045	11 304	30 325	49 617	110 739
5400	Hospitality and entertainment	0	0	0	0	0	0
5500	Evaluation	0	0	0	55 001	90 001	145 001
<b>5999</b>	<b>Component Total</b>	9 400	37 263	34 662	169 732	222 562	473 618
<b>TOTAL COSTS</b>		710 068	602 470	907 067	1 545 693	1 185 980	4 951 278
<b>Project Execution Costs -UNOPS (8%)</b>		56 805	69 126	72 565	123 655	94 878	396 102
<b>GRAND TOTAL COSTS</b>		766 873	671 596	979 633	1 669 349	1 280 858	5 347 380