



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

## **Revised work plan and budget (2012-2013)**

**December 2011**





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UNEP-GEF Volta Project  
Project Management Unit  
No. E3 Leshie Crescent - Labone  
P.O. Box 1423 Accra Ghana  
Phone: +233 30 2764111  
Fax: +233 30 2772669  
Mobile: +233 20 6309775  
Website: <http://gefvolta.iwlearn.org>

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The report was prepared by Mr. Hubert Onibon of the UNEP-GEF Volta River Basin Project Management Unit.

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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	International Waters Learning Exchange and Resource Network
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 2013

**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 remaining project lifespan, 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.

**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 2012/2013 main events

10. The years 2010 and 2011 were mainly dedicated to the preparation and review of national TDA documents, the completion of the Volta River Basin Causal Chain Analysis, the finalisation of the Regional TDA document (including thematic reports on water resources, ecosystems, governance and economy), the development of the Volta Basin Information Sharing System and its transfer to the Volta Basin Observatory and, the implementation of the 3 demo projects.
11. The years 2012 and 2013 are very significant in the project lifespan and therefore the proposed work plan and its successful implementation are very critical to the project delivery.
12. The main focus of the GEF Volta Project activities in 2012 and 2013 consist of the following key events:
  - Validation of the TDA document, preparation and validation of the SAP and APNP-VRB documents, including their endorsement by national authorities and SAP integration into VBA work plan
  - 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, including the development of a concept note for the implementation of the Demo Project 2 in Benin.
  - Organisation of 2 Project Steering Committee meetings
  - Contribution to various studies, capacity building and knowledge developments activities in the framework of the VBA Strategic Plan
  - Experience sharing and participation in key meetings and workshops (mainly VBA, GEF IW, UNEP, etc.)
13. An overview table of the main events planned for 2012 and 2013 is presented in Table 2. The detailed 2012/2013 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 2012/2013**

<b>Date</b>	<b>Place</b>	<b>Event</b>
February 2012	Abidjan Côte d'Ivoire	Project Steering Committee meeting
March/April 2012	Cotonou/Bamako	Regional TDA validation and starting planning workshops
April/May 2012	Riparian countries	APNP-VRB & SAP national consultations
May-June 2012	Ouagadougou	VBA Programming and harmonisation workshop with ongoing/planned initiatives
January 2013	Riparian countries	APNP-VRB validation workshops
February 2013	To be determined	Project Steering Committee meeting
March/April 2013	To be determined	SAP validation workshop
May-June 2013	To be determined	SAP Endorsement by ministers
May-June 2013	Ouagadougou	VBA Programming and harmonisation workshop with ongoing/planned initiatives

### 3. Main activities per specific objective

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

14. During the remaining 2 years of the projects implementation, the PMU (including national focal points, consultants and other service providers) will be managed based on UNOPS procedures, rules and regulation and in collaboration with the VBA and UNEP. PMU staff meeting will be organised on monthly basis to ensure a good planning and prioritization of project activities.
15. The project monitoring and evaluation plan will be updated based on the outcomes and recommendations of the MTE, including the management response prepared by the PMU in collaboration with UNEP and VBA and also, based on stress reduction indicators analysis from demo projects. The PMU will implement the updated M&E plan and ensure that key project report are timely prepared, reviewed and widely disseminated (PIR and annual report, monthly briefs, MTE report, TDA, SAP, APNP-VRB and other study reports).
16. The 4<sup>th</sup> and 5<sup>th</sup> Project Steering Committee meetings will be organized respectively in Abidjan (Côte d'Ivoire) the last week of February 2012 as back to back meeting with the VBA experts and Ministerial Council meetings and during the first quarter of the year 2013 (the PMU will discuss the venue with national partners in the course of the year 2012).
17. 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 dissemination of its Strategic Plan, the coordination of ongoing and planned initiatives within the Volta River Basin, the participation in key VBA meetings and workshops.
18. The project team will also facilitate the completion of migration of the VB-ISS (Volta Basin Information Sharing System) to the French-hosted server based on discussions held with the Volta Basin Observatory in September 2010. This will 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.
19. The PMU will also: i-) contribute to thematic forums/trainings as per VBA work plan (and other key meetings if required), ii-) contribute to the preparation, the review and validation of reference reports on the VRB water and associated environmental resources status as per Volta Basin Observatory work plan.
20. Furthermore, to ensure that local stakeholders are fully participating in the GEF Volta Project activities and in view of the establishment of VBA forum of parties, it is expected to contribute to the development VBA stakeholders' involvement plan in the framework of its Strategic Plan.
21. As part of its communication strategy, the PMU will: i-) prepare and/or disseminate project's brochures, leaflets, stickers, ii-) organise radio and TV broadcasts, iii-) prepare a documentary on the Volta River Basin (depending on resources available), 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: World Water Forum (Marseille France), GWP, VBA, ANBO, GCLME and ECOWAS meetings/workshops, vi-) disseminate the project results and reports and regularly update the project website

22. Other key activities include:

- 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
- Contribution to the celebration of international water or environment events in Benin and Mali
- Establish/Maintain contact with key potential technical and financial partners: WASCAL, American Environmental Protection Agency, World Bank, ADB, AMCOW, African Water Facility, DANIDA, Kfw, etc.

23. 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 (IRBM). Nevertheless, due to budget limitation the training on IWRM and IRBM is on hold pending the mobilisation of additional resources.

24. 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	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>R1.1: 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>○ Manage the PMU (including NIF, NOFP, service providers) based on UNOPS procedures, rules and regulation</li> <li>○ Organise PMU Staff monthly meeting</li> </ul> </li> </ul>								
		X	X	X	X	X	X	X	X
		X	X	X	X	X	X	X	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) based on MTE recommendation</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>○ Disseminate the project mid-term evaluation report</li> <li>○ Organise the 4<sup>th</sup> PSC meeting</li> </ul> </li> </ul>								
		X							
		X		X		X		X	
		X	X	X	X	X	X	X	X
		X							
		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 dissemination of its Strategic plan</li> <li>○ Contribute to VBA coordination meeting with ongoing/planned initiatives</li> <li>○ Prepare and sign a collaboration agreement with PNE-Benin for the implementation of the Demo Project 2 in Benin</li> <li>○ Participate in VBA, WRCC/ECOWAS, IUCN/PAGEV, GWP West Africa steering committee meetings and other key workshops and activities in line with the GEF Volta project objectives</li> <li>○ Maintain 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	X	X	X	X
A1.1.4.	• Prepare project reports (PIR, annual reports, monthly briefs, study reports)	X	X	X	X	X	X	X	X

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

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB									
Code	Activities	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A1.1.5.	• Document project implementation and communicate results through publications, regional and internal reports, project newsletter and project website: <i>(just for the record)</i>								
	○ Synthesize all documentations on the project and produce communication products for all events related to transboundary water and associated environment issues								
	○ Participate in and present the project's results at major regional and international water conferences (e.g. International Water Forum , TWAP, GWP, UNEP, GEF, IW and ANBO meetings/workshops)		X		X		X		X
	○ Prepare and disseminate project's brochures, leaflets, etc	X	X	X	X	X	X	X	X
	○ Organise radio and TV broadcasts (Mainly during VBA and GEF Volta project meetings and workshops)	X		X		X		X	
	○ Prepare a documentary on the Volta River Basin		X	X					
<b>R1.2: Capacity &amp; participation of stakeholders in VRB management strengthened</b>									
A1.2.1.	• Conduct training on TDA/SAP process for NFPs								
A1.2.2.	• Analysis of national institutions and stakeholders and preparation of stakeholders involvement plan (dissemination of study reports)								
	○ Prepare the matrix of national institutions concerned by the management of the Volta Basin, analyse their mandates and capacities								
	○ Prepare and analyze the stakeholders matrix: main activities and mandates, links with the management of the Volta Basin, and capacities to address IRB issues								
	○ Identify training gaps and prioritise training needs of national institutions and stakeholders for IRB management								
	○ Develop national training plans for the training of personnel in the key institution								
	○ Contribute to the study on the development of VBA stakeholders involvement plan (review and dissemination of study report)		X						
	○ Support and co-organise the celebration of international water or environment events in riparian countries			X					
A1.2.3.	• Conduct training sessions and awareness raising campaigns for national institutions and stakeholders on IWRM and IRB management								
	○ Organise national training sessions on IRB management for personnel in the key institutions (cancelled, pending additional funds)								
	○ Organise at national level, awareness raising campaigns on IRB management for stakeholders								
A1.2.4.	• Conduct a training session for national institutions on data management and monitoring and, clearinghouse system								

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB									
Code	Activities	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A1.2.5.	• Conduct training on SAP implementation at national and regional levels (cancelled, pending additional funds)								
<b>R1.3: Knowledge based expanded &amp; basin-wide communication mechanism in place</b>									
A1.3.1.	• Conduct study on data inventory and assessment, including data sharing mechanism, training gaps and training plan								
A1.3.2.	• Support and/or contribute to studies on the establishment of the Volta Basin Observatory through database, data collection and data sharing protocol								
	○ Contribute to the preparation of reference report on the VRB water and environmental resources status as per Volta Basin Observatory work plan (Preparation of TORs and review of study reports)		X		X		X		X
	○ Participate to the Volta Basin Observatory steering committee meeting (and other key meetings if funded by the observatory)		X		X		X		X
	○ 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								
	○ Facilitate the completion of migration of the VB-ISS to the French-hosted server	X							
A1.3.3.	• Organize one scientific workshop in collaboration with key partners (UNESCO, AMMA, GLOWA, WASCAL, etc.)								
	○ Prepare a concept note on the workshop, establish contact and share it with selected partners and potential donors				X				
	○ Raise funds for the organisation of the event				X	X			
	○ Organise the scientific workshop on the Volta river basin (including announcement and review of articles/publication)					X	X	X	X
A1.3.4.	• Develop and update project website	X	X	X	X	X	X	X	X

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

25. 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.
26. 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. It is recommended for most of the projects in the GEF International Waters projects.
27. On the other hand, the SAP is a negotiated policy document that establishes clear priorities for action and identifies policy, legal and institutional reforms as well as investments needed to address and resolve priority problems of the transboundary waters. 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. National TDA documents have been prepared and validated in 2010 while in 2011, 4 thematic reports have been prepared at the regional level on the basin water resources, basin ecosystems, basin economic status and governance analysis. These reports served as reference for the preparation of the 1<sup>st</sup> draft of the Volta Basin TDA document submitted to the PMU and reviewed by key project partners in December 2011.
29. For the GEF Volta Project, 2012 and 2013 are major years for conducting SAP and APNP-VRB activities. TDA documents prepared in 2010 and 2011 will be used as the basis for the development of the SAP and APNP-VRB. To that end, the main activities planned by the PMU to deliver on this objective during the years 2012 and 2013 are:
  - Translation of the 4 thematic reports as well as the regional TDA document French/English and submit to stakeholders for validation
  - Update the methodology and work plan for the development of the SAP and APNP-VRB
  - Update/finalisation of TORs and recruitment of regional and national consultants for the preparation of SAP and APNP-VRB
  - Organisation of the regional TDA validation workshop by the end of the first quarter of 2012. This will be a back to back meeting with the regional SAP planning 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.
  - Pursuit of consultation with key partners and discussion on transboundary water and associated environmental issues
  - Organisation in collaboration with the VBA, of regional experts meetings for the development of regional synthesis reports on each thematic area and drafting the Volta Basin SAP
  - Organisation in collaboration with the National Partners, of national experts meetings for the drafting of the APNP-VRB
  - Validation of the final SAP and APNP-VRB documents by key stakeholders both at national and regional levels
  - Translation, editing, printing and dissemination of SAP and APNP-VRB
30. During the first or second quarter of 2013, the SAP document will be submitted to:
  - the Steering Committee for approval and,
  - the Ministers in charge of Water and Environment for endorsement (ideally in conjunction with VBA Ministerial meeting)
31. The PMU will pursue in collaboration with the VBA, the fundraising process by establishing

and/or reinforcing contact and involving some donors/partners in the TDA/SAP process: American EPA, World Bank, African Water Facility, BOAD, Kfw, DANIDA, CIDA, SIDA, USAID, etc. In view of this, the PMU envisages to visit some of the potential donors.

32. 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**

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									
Code	Activities	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<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 gaps 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 <ul style="list-style-type: none"> <li>○ Finalize and edit the 4 TDA thematic reports</li> <li>○ Translate the draft regional TDA document into French</li> </ul>	X	X						
A2.2.4.	• Organize regional validation workshop with national, regional and international institutions and stakeholders, including PSC and VBA			X					
A2.2.5.	• Finalise the regional TDA document (including thematic reports) based of the validation workshop recommendations				X				
A2.2.6.	• Edit, print and the regional TDA document (including thematic reports)					X			
A2.2.7.	• Disseminate TDA document (including regional/national TDA, Thematic TDA reports)					X	X	X	
<b>R2.3: Action Sheets for the National Parts of the VRB (ASNP-VRB) developed</b>									
A2.3.1.	• Prepare the National Action Sheets <ul style="list-style-type: none"> <li>○ Finalise TORs, select and sign contracts with national consultants</li> <li>○ Organize 6 workshops at country level (with national institutions and stakeholders) as input to the ASNP -VRBs elaboration</li> <li>○ Organise 4 SAP/ ASNP -VRBs groups discussions per country</li> <li>○ Draft the ASNP -VRBs</li> </ul>	X		X	X				
A2.3.2.	• Submit ASNP -VRB to PMU and regional TDA team for validation				X				

<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>									
Code	Activities	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
A2.3.3.	• Finalize and submit ASNP -VRB documents to national authorities for endorsement					X			
A2.3.4.	• Edit, print and disseminate ASNP -VRB					X			
<b>R2.4: Strategic Action Programme (SAP) prepared</b>									
A2.4.1.	• Organize starting regional workshop with national, regional and international institutions and stakeholders								
	o Update the work plan for SAP preparation	X							
	o Finalise TORs and contract the SAP team		X						
	o Organise SAP regional inception workshop			X					
A2.4.2.	• Prepare the Strategic Action Programme document, including SAP implementation guideline, monitoring & evaluation system for SAP implementation, long term financing strategy for the SAP			X	X	X			
A2.4.3.	• Organize validation regional workshop with national, regional and international institutions and stakeholders					X			
A2.4.4.	• 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)					X	X		
A2.4.5.	• 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, KfW, etc					X	X	X	X

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

33. 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-) equipping 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.
34. Based on the revised Demo Project documents and discussions with national partners, MOAs were signed in 2010 with the Government of Mali for the implementation of the Demo Project 1, the Governments of Côte d'Ivoire and Ghana for the implementation of the Demo Project 3 and SIAAP for the implementation of Demo 2 in Kara (Togo). The PMU will therefore pursue the implementation of these 3 Demo Projects in the framework of the MOAs and as per the agreed Demo Projects work plans and budgets for 2012 and 2013.
35. Funded by MCA Burkina Faso, the adaptation of the hydrological model (HEC RAS) to the project area will be completed in January 2012 and national partners trained on how to use the model for the prediction of floods and inundations in the Sourou River Basin. Also, national partners in Mali will reallocate the MOA budget to: i-) allow bathymetric measurements in the national part of the basin, ii-) carry out a study on the relation flooding, inundations, water level in the lake and water level in the Lerry Dam depending of the period, iii-) carry out a study on potential floods and inundations scenarios and management strategy. In the meantime the project will contribute to the establishment of the bilateral committee, including the preparation protocol or accord for the joint management of the basin. The 2 countries will pursue the collection and management of hydro-meteorological data in the framework of the Volta HYCOS Project.
36. In the meantime, the PMU will work SIAAP and Kara Municipality for the implementation of the Demo Project 2 in Togo, mainly:
  - 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, including its connection to the wastewater network (Kara city) by September 2012
  - connection of houses, Kara Market, hotels, restaurants, schools, Kara Municipality and other major public/privates institutions to the network by September-October 2012
  - awareness creation campaigns and sensitize Ewawu inhabitants on Water and Environmental Sanitation issues
  - training of national partners on how to operate and maintain the treatment plant and wastewater network.
37. As follow up of the joint field visit organised in collaboration with IUCN PAGEV and the Benin National Water partnership in the Pendjari River Basin (Benin), the project will prepare a new proposal for on river bank protection in identified hotspots areas of the Pendjari River in Benin. After the validation of the proposed project brief, an MOA will be prepared and signed with the government of Benin and/or other implementing/executing agency by March 2012. This will therefore allow the implementation of the pilot project for at least 20 months. The PMU will also contribute to the WAP project activities in support to the governments of Benin and Burkina Faso for the development of a code of conduct on fishery activity on the Pendjari River.
38. In the framework of the ongoing Demo 3 implementation, the PMU will continue to work with the national partners to implement the followings during the year 2012: Establishment of Demo project bilateral committee; preparation of baseline socio-economic study as a basis for Project monitoring and evaluation; training local stakeholders on IWRM and conflict resolution involving

forest and natural resources. Specifically to Ghana based activities, the project planned to develop posters on degradation, efficient charcoal production and bush fire issues for awareness campaign in order to sensitize communities on impact of buffer zones, use of chemicals in fishing and mining. Planned work for the restoration of riverbank initially put on hold due to the raining season will also be launched along with studies for flow and sediment monitoring on areas to be dredged. Ongoing work on the Cote d'Ivoire based demo activities would also be intensified with follow-up monitoring by the PMU during the year.

39. Due to budget constraint which could harm the successful implementation of the demonstration projects, the PMU envisages to hire a consultant for the preparation of a bankable project document on Demo 3, Demo 2 (mainly in Benin) and the Demo 4 between Ghana and Togo (on hold since the approval of the overall GEF Volta Project Document). This could be based on the summary presentation of the GEF Volta project and its financial needs already discussed with key donors (Kfw, US EPA, USAID, etc.) as well as the logical frameworks of the demon projects. Fundraising activities will therefore be conducted in collaboration with VBA and national partners.
40. 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**

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin									
Code	Activities	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>R3.1: 3 Demo projects successfully implemented</b>									
A3.1.1.	<ul style="list-style-type: none"> <li>• Review demo project documents (logframe, activities, budget, M&amp;E plan and work plan) and prepare inception report (<i>Dissemination of studies reports and preparation of inception reports</i>)</li> </ul>								
A3.1.2.	<ul style="list-style-type: none"> <li>• 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)                             <ul style="list-style-type: none"> <li>○ Finalise the adaptation of the hydrological model (HEC RAS) to the project area and train national partners (activity funded by MCA Burkina Faso)</li> <li>○ Training of national partners on the HEC-RAS model</li> <li>○ Reallocate the demo budget to allow bathymetric measurements in Mali</li> <li>○ Data collection</li> <li>○ Relation flooding, inundation water lever in the lake and water level in the Lerry Dam depending of the period</li> <li>○ Floods and inundations scenarios and management strategy</li> <li>○ Floods and inundations predictions (early warning)</li> <li>○ Contribution to the establishment of the bilateral committee, including protocol or accord for the joint management of the basin</li> <li>○ Implement the demo Project as per the 2012/2013 work plan and budget</li> </ul> </li> </ul>								
A3.1.3.	<ul style="list-style-type: none"> <li>• Implement the Demo project no 2: Installing and comparing technological models of waste water treatment in the Cities of Kara (Togo) and Natitingou (Benin)                             <ul style="list-style-type: none"> <li>○ 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</li> <li>○ Finalise the construction of wastewater network in Ewawu area through SIAAP funding</li> <li>○ Construct the small scale treatment plant</li> <li>○ Connect mosques, schools, restaurants and other major public/privates institutions to the network and operate the small scale treatment plant</li> <li>○ Monitor key water quality parameters</li> <li>○ Organise awareness creation campaigns and sensitize Ewawu's inhabitants on Water and Environmental Sanitation issues</li> <li>○ Prepare a new proposal on river bank protection in identified hotspots areas of the Pendjari river in Benin</li> <li>○ Prepare and sign MOAs with Benin government and/or other implementing/executing agency</li> </ul> </li> </ul>								

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin									
Code	Activities	2012				2013			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	○ Organise starting workshop/discussion with national partners in Benin	X	X						
	○ Implement the demo Project as per the 2012/2013 work plan and budget (Benin and Togo)	X	X	X	X	X	X	X	X
A3.1.4.	● Implement the Demo project no 3: Restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire & Ghana) and its tributaries through participative campaigns of reforestation								
	○ Organise bilateral meetings (Ghana – Côte d'Ivoire) and officially launch the DP	X				X			
	○ Update the project stress reduction indicators, work plan and budget	X	X						
	○ Implement the demo Project as per the work plan	X	X	X	X	X	X	X	X
A3.1.5.	● Recruit consultant to carry out the followings								
	○ Prepare a concept note for the construction of a wastewater network and treatment plan in Keta (coastal downstream area of the Volta Basin - Ghana)	X							
	○ 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	X							
	○ Comprehensive project document of the restoration/protection of river banks in the national parts of the basin mainly in Benin, Côte d'Ivoire, Ghana and Togo	X							
A3.1.6.	● Use the finalised concept notes and raise additional funds for the implementation of demo projects		X	X					
A3.1.7.	● Evaluate the implementation of the three Demo projects							X	X
<b>R3.2: Replication strategy for demonstration project developed and initiated ((on hold, could be part of the SAP and ASNP VRB process))</b>									
A3.2.1.	● Develop six national Demo projects based and TDA/SAP priorities, including financial plan and replication plan								
A3.2.2.	● Submit the six national Demo projects to riparian countries for approval								
A3.2.3.	● Incorporate the replication plan in the SAP								

#### 4. Proposed budget for the calendar year 2012 and 2013

41. The proposed budget for 2012 and 2013 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 and VBA before its integration into this report.
42. Due to the delay in the implementation of some project activities, it has been recommended to UNEP/DGEF during the midterm evaluation process, to extend the project implementation period to 2013. This therefore has cost implications mainly in terms of salary for the project staffs; the implementation of the Demo Projects and the PMU running cost and project budget has been revised accordingly.
43. The total budgets for 2012 and 2013 are respectively 1 219 799 \$ and 980 177 \$. Some key activities planned for 2011 have been postponed to 2012 and 2013 such as:
  - Validation of the regional TDA document and payment of TDA regional experts
  - Regional SAP starting workshop<sup>4</sup>
  - Development and validation of SAP and APNP-VRB documents
  - Implementation of the Demo Project 2 activities in Benin
44. MOAs with riparian countries in the framework of the overall project will expire in January 2012 and the new strategy adopted for the implementation of the project activities doesn't allow their renewal. The project will therefore allocate funds to national teams to support their contributions to the development of APNP-VBA as well as SAP. As for MOAs signed with national partners for the implementation of the Demo projects, it is recommended to extend them to July 2013.

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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 years 2012 and 2013 (USD)**

UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2008 Expenditures	2009 Expenditures	2010 Expenditures	2011 Budget	2012 Budget	2013 Budget	Total Revised 2011
<b>10</b>	<b>PROJECT PERSONNEL COMPONENT</b>							
1100	Project Personnel	279 439	259 388	341 089	312 198	263 424	126 635	1 582 173
1200	Consultants	206 843	8 000	14 941	145 364	211 487	186 923	773 559
1300	Administrative support	14 732	18 921	27 729	27 083	25 023	26 024	139 512
1400	Volunteers	0	0	0	0	0	0	0
1600	Travel on official business (PMU+Consultants)	45 898	59 363	35 790	36 048	79 241	37 000	293 340
<b>1999</b>	<b>Component Total</b>	<b>546 912</b>	<b>345 672</b>	<b>419 547</b>	<b>520 693</b>	<b>579 176</b>	<b>376 583</b>	<b>2 788 583</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	0
2200	Sub-contracts (MoU's/LA's for non-profit organisations)	47 736	43 555	157 656	64 734	281 973	200 833	796 487
2399	Sub-contracts (commercial purposes)	0	0	0	0	0	0	0
<b>2999</b>	<b>Component Total</b>	<b>47 736</b>	<b>43 555</b>	<b>157 656</b>	<b>64 734</b>	<b>281 973</b>	<b>200 833</b>	<b>796 487</b>
<b>30</b>	<b>TRAINING COMPONENT</b>							
3100	Fellowships	0	0	0	0	0	0	0
3200	Group training	52 118	42 130	74 022	45 317	13 000	59 909	286 497
3300	Meetings/conferences	39 000	49 426	166 278	79 333	164 218	141 000	639 255
<b>3999</b>	<b>Component Total</b>	<b>91 118</b>	<b>91 556</b>	<b>240 300</b>	<b>124 651</b>	<b>177 218</b>	<b>200 909</b>	<b>925 751</b>
<b>40</b>	<b>EQUIPMENT &amp; PREMISES COMPONENT</b>							
4100	Expendable equipment	5 340	10 806	3 059	3 138	4 000	4 000	30 343
4200	Non-expendable equipment	9 562	4 880	42 493	5 801	750	750	64 236
4300	Premises	0	1 739	849	3 291	5 000	5 000	15 880
<b>4999</b>	<b>Component Total</b>	<b>14 902</b>	<b>17 425</b>	<b>46 401</b>	<b>12 230</b>	<b>9 750</b>	<b>9 750</b>	<b>110 458</b>
<b>50</b>	<b>MISCELLANEOUS COMPONENT</b>							
5100	Operation and maintenance of equip.	0	1 828	109	4 188	12 475	11 845	30 443



UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2008 Expenditures	2009 Expenditures	2010 Expenditures	2011 Budget	2012 Budget	2013 Budget	Total Revised 2011
5200	Reporting costs	2 950	22 391	23 249	21 371	56 500	55 302	181 763
5300	Sundry (communications, postage,	6 450	13 045	11 304	9 723	12 352	12 350	65 223
5400	Hospitality and entertainment	0	0	0	0	0	0	0
5500	Evaluation	0	0	0	12 569	0	40 000	52 569
<b>5999</b>	<b>Component Total</b>	9 400	37 263	34 662	47 851	81 327	119 497	329 999
<b>TOTAL COSTS</b>		710 068	535 470	898 567	770 159	1 129 444	907 571	4 951 278
<b>Project Execution Costs -UNOPS (8%)</b>		56 805	69 126	71 885	61 613	90 356	72 606	396 102
<b>GRAND TOTAL COSTS</b>		766 873	604 596	970 453	831 771	1 219 799	980 177	5 347 380