

6 È M E F O R U M M O N D I A L D E L ' E A U

Session 1.1.5
**Practical approaches for sharing
and monitoring information**
Supporting and developing
Environment Observatories in Africa



MARSEILLE, FRANCE '12

LE TEMPS DES **SOLUTIONS**

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Fonds Français pour
l'Environnement Mondial

March 15th 2012

Support for an environmental observation system for the Volta River Basin

VBA OBSERVATORY = A PROCESS

Component 1 : Carry out Baseline situation analysis in the basin

- Characterisation of usages (Water supply, cultures irrigation, livestock, ...) and assessment of associated demand
- Characterisation of resources water availability (surface, groundwater)
- Summary of supply and demand
- Characterisation challenges (MDG, ...) and the problems, related to the management of water as it affects related ecosystems (Risk sanitary risk ...)

Component 2 : Establishment of the Observatory

- Progressive development of computerised tools for communication and decision support (definition of indicators for monitoring the challenges and problems, data collection, analysis of useful data and calculation of indicators)
- Develop a reference situation in 2 stages (initial and consolidated), with the view to having regular updates
- Capacity building (methodologies, network of data collectors, interoperability between data sources, format for data / information exchange)

Component 3 : Involvement of stakeholders in water management in environmental monitoring (cross-cutting component)

- Implication of all the actors at all the stages (consensus on the problems and the means to evaluate them; data collection and validation)
- Capacity building of the stakeholders

Facilitate decision making-management of water and the environment; governance)

Innovative Component



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www.abv-volta.org



Support for an environmental observation system for the Volta River Basin

VBA OBSERVATORY = MEANS

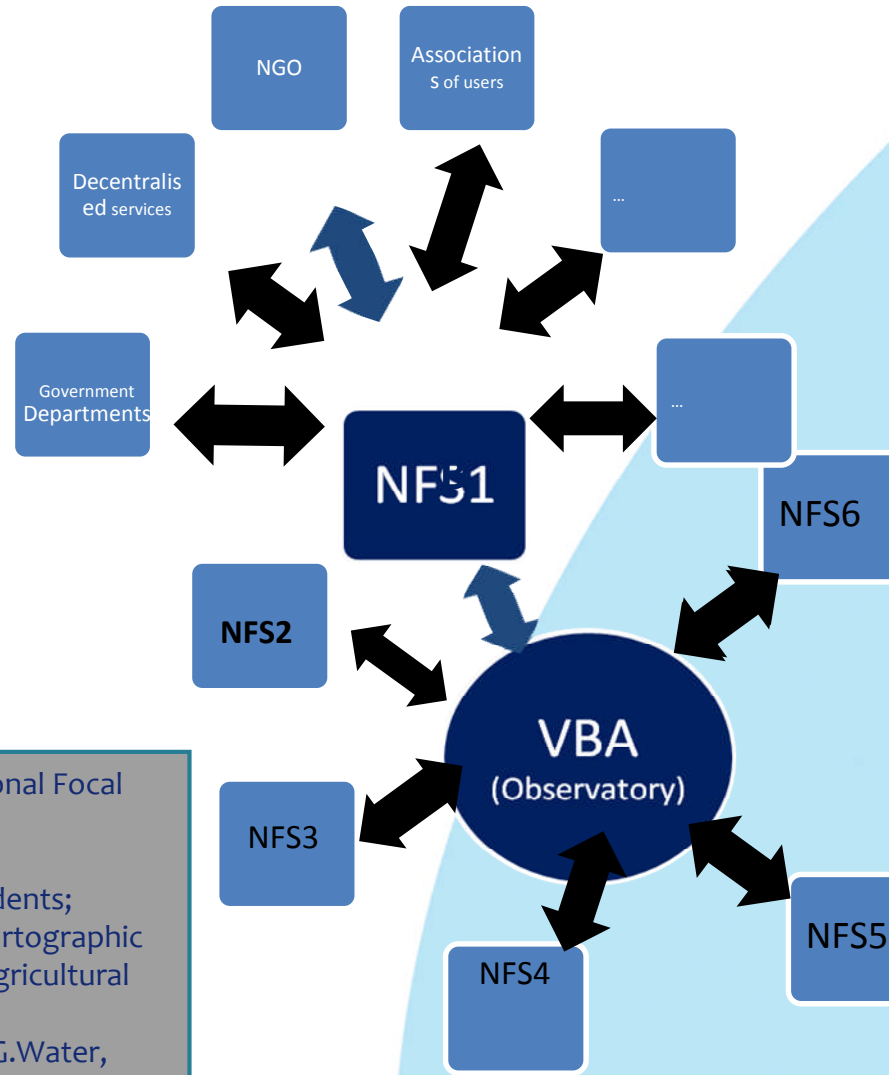
Network of data collection and dissemination of information and useful data



MoUs for exchange of:

- Information
- Data
- Results

NFS = National Focal Structure:
NHS, Web Correspondents;
National Cartographic Services, Agricultural water managers, G.Water, Water Quality, Water-related Diseases, ...



Agreed methods for data collection and validation

Standardised scientific and technical tools

Human Resources



Support for an environmental observation system for the Niger River basin

- This project is intended to provide a set of decision support tools to the Niger Basin Authority (NBA) in order to improve the co-ordinated joint management of natural and environmental resources in the Niger basin.

> *The basin of the Niger River—the third-largest in Africa—is shared by the nine States which created the Niger Basin Authority in 1980. Extensive infrastructure work is either underway or complete in various parts of the basin. This work has a major impact on the environment and the human population.*



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- **The Observation System created in 2004 by the NBA Member States in response to**

- Deterioration of the environment due to the combined effects of climate change and pressure from an ever-growing population
- Challenges for managing environmental data on the river basin (limited and scattered data, minimal leveraging, etc.)
- The outlook for peaceful, sustainable development in the Niger Basin (Shared Vision)

- **Mission:**

- **Help reinforce the NBA's role as co-ordinator and improve the joint management of natural resources across the basin**

- The Niger Basin Observation System (NBO) became operational thanks to €1.2 million in financial support from FGEF/FDA, provided as a grant for the “Support for an Environmental Observation System for the Niger River Basin” project
- The goal is to ultimately provide the NBA with a set of decision support tools designed to improve the co-ordinated joint management of natural resources as well as the social and economic activities in the Niger River basin

Project beneficiaries include the Niger Basin Authority (NBA) and its nine Member States: Benin, Burkina-Faso, Cameroon, Ivory Coast, Guinea, Mali, Niger, Nigeria, and Chad.

The Niger Basin Authority was created in 1980 in Faraway (Guinea) to replace the Niger River Commission, which was founded in 1964 in Niamey (Niger). From 2002 to 2008 the NBA implemented the Shared Vision process for sustainable development of the Niger basin.



Support for an environmental observation system for the Senegal River Basin

The screenshot displays the OMVS website interface. At the top, there is a navigation bar with the OMVS logo and the text 'Haut Commissariat'. Below this, a breadcrumb trail reads: 'Accueil > Gestion de la ressource et de l'environnement > Ressources en eau'. The main content area is titled 'Observatoire de l'environnement'. It contains several paragraphs of text describing the observatory's mission and the system's functionality. A photograph of a large flock of birds in a wetland is positioned to the right of the text. On the left side, there is a sidebar with various menu items such as 'Actualités', 'A la une', 'Situation hydrologique', and 'Projets et programmes'. On the right side, there is another sidebar with sections like 'Le fleuve Sénégal', 'L'OMVS', and 'Réalizations'. The overall layout is clean and professional, typical of a government or international organization website.

Actualités

- [A la une](#)
- [Situation hydrologique](#)
- [Situation météorologique](#)
- [Agenda](#)
- [Etudes en cours](#)
- [Appels d'offres](#)

Projets et programmes

- [Infrastructure régionale](#)
- [Développement et planification](#)
- [Actions sanitaires et sociales](#)
- [Cadres de concertation](#)

Gestion de la

Observatoire de l'environnement

L'Observatoire de l'Environnement de l'OMVS a été intégré dans la Direction de l'Environnement et du Développement Durable (DEDD) lors de la réforme des institutions de l'OMVS en 2010 .

La mission principale de l'Observatoire de l'OMVS est de suivre l'évolution de l'état de l'Environnement dans l'ensemble du Bassin du fleuve Sénégal. Pour atteindre les objectifs fixés, un Système de Veille a été conçu dans la logique d'un Système d'Information localisée et d'Aide à la Décision (méthode d'analyse MERISE). Elle a ainsi donné lieu à l'élaboration d'un Outil informatisé labellisé SOE-FSEN, permettant, pour chaque réseau thématique, de gérer les acteurs, les informations manipulées, les flux d'information entre les acteurs et les traitements effectués sur ces informations et déclinés en actions .

L'exploitation de la Base de Données permet alors d'établir les principaux modèles conceptuels de Communication, des traitements et des données, permettant d'appréhender chacun des réseaux thématiques actuels. Cette structuration de l'information permet de réaliser des mises à jour aisées de l'analyse en intégrant les évolutions du Système d'Information (nouveau producteur de données, nouvelle méthode d'acquisition de données, nouveau indicateur,) .

Ce Système est actuellement fonctionnel et permet de générer entre autres produits, des cartes thématiques de l'état des lieux dans le temps et dans l'espace.

Un rapport sur l'état de l'environnement du bassin du fleuve Sénégal a également été publié en 2011, grâce à l'analyse des données collectées dans les Etats et aux traitements effectués dans l'outil SOEFSEN .

RAPPORT : écrire à tamsir.ndiaye@omvs.org ou ndiayetamsir2002@yahoo.fr

Rapport etat Environnement :

Le fleuve Sénégal

- [Caractéristiques physiques](#)
- [Aspects socio-économiques](#)

L'OMVS

- [Etats membres](#)
- [Présentation](#)
- [Organes](#)
- [Objectifs](#)
- [Perspectives](#)
- [Partenaires](#)

Réalizations

- [Manantali](#)
- [Diama](#)
- [Endiguements](#)



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worldwaterforum6.org
solutionsforwater.org

