



The International Forum on Integrated Water Resources Management of The Mekong River Basin 28th-29th November 2005, Chiang Rai, Thailand





RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS RED INTERNACIONAL DE ORGANISMOS DE CUENCA Международная сеть водохозяйственных организаций الشبكة الدولية لهيئات الأحواض



The International Forum on Integrated Water Resources Management of The Mekong River Basin 28th-29th November 2005 Chiang Rai, Thailand



Paper of Mr. Jean - François DONZIER General Manager International Office for Water Permanent Technical Secretary RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS RED INTERNACIONAL DE ORGANISMOS DE CUENCA Международная сеть водохозяйственных организаций, الشبكة الدولية لهيئات الأحواض



INTERNATIONAL NETWORK of TRANSBOUNDARY BASINS ORGANIZATIONS



- For million years, water has been naturally flowing in river basins, disregarding borders and the administrative limits created by mankind.
- Depuis des millénaires, l'eau s'écoule naturellement dans les bassins versants sans se soucier des frontières, ni des limites administratives créées par les hommes.
- Desde milenios, el agua corre naturalmente en las cuencas hidrográficas sin tener cuenta de las fronteras ni de las limites administrativas creadas por los hombres.



INTERNATIONAL NETWORK of TRANSBOUNDARY BASINS ORGANIZATIONS









INBO General Objective: To Organized better IWRM



at basin level!







 Indeed, basins are the natural territories in which water runs on the soil or in the sub-soil, whatever are the national or administrative

boundaries or limits crossed.

 The search for solutions must pass through an integrated approach, organized at the relevant level of basins of rivers, lakes and aquifers, either local, national or transboundary.



INBO 10 Years! 1994 - 2004







International Network of Basin Organisations, MEMBERS:



- "Basin Organizations", entrusted by relevant public administrations with integrated water resources management at the level of important river basins, either national, federal or transboundary, as well as the cooperation structures they have developed among them.
- the governmental administrations in charge, interested in applying integrated and sustainable water resources management:
 - organized at the level of river basins,
 - associating administrations and local authorities, as well as users,
 - having specific budgetary resources at their disposal, obtained by applying the "user-polluter-pays" principle.
- bi and multilateral co-operation agencies supporting activities related to integrated and sustainable water resources management at the level of river basins.



International Network of Basin Organisations, OBJECTIVES:



- to develop relations between basin organizations interested in comprehensive water resource management at the river basin level,
- to favor exchanges of experiences and expertise among them,
- to promote the principles and means of sound water management in cooperation programs,
- to facilitate the implementation of tools suitable for institutional and financial management, programming, organization of data banks, and for models adapted to the needs,
- to promote information and training programs
 for the different stakeholders involved in water management
 as well as for the executives and staff
 of the member basin organizations,
- to evaluate ongoing actions and disseminate their results.





Integrated Water Resource
 Management, at the river basin level, should aim at meeting, in a holistic, consistent, sustainable and inter - sectoral manner, all essential and legitimate needs, at combating wastage, protecting against risk, preventing pollution, at preserving and rehabilitating ecosystems,







INTEGRATED WATER RESOURCE MANAGEMENT

- OVERALL MEETING
 OF RATIONAL AND LEGITIMATE DEMANDS
 - Agriculture
 - Domestic uses
 - Industry
 - Fish farming

- Electricity
- Transports
- Leisure
- Fishing
- WASTEWATER TREATMENT AND RECYCLING,
- CONSERVATION OF ECOSYSTEMS:
 - rivers, lakes, wetlands, aquifers, costal areas,
- RISK PREVENTION:
 - Erosion
 - Drought
 - Floods





2-A clear legal framework must specify, in each country, the rights and obligations, the possible levels of decentralization, the institutional responsibilities of the different stakeholders, the processes and means needed for good water governance,



INTEGRATED WATER RESOURCE MANAGEMENT:



DEFINING ROLES AND RESPONSIBILITIES OF EACH:













Multilateral organizations

International commissions

Central or federal government

Local authorities = **states (Federation)**

= municipalities

= villages

Large public regional planners

basin organizations?



= community

= individuals

Civil Society:

enterprises

= researchers

= NGOs



INTEGRATED WATER RESOURCE MANAGEMENT: MAIN BASIC FUNCTIONS



- International agreements
- Legislation Regulations
- Standardization
- Authorizations for abstraction or discharge - Water policing
- Monitoring
- Follow-up of the environment and uses
- Warning and protection
- Planning
- Funding Programming
- Investments
- Operation Maintenance
- Research
- Training
- Information





- 3-The representatives of populations and local authorities, water users or organizations representing collective interest should participate in this management beside administrations, especially, in Basin Councils or Committees.
- Information, awareness and education of populations or users and of their representatives are essential,





 4-Basin management plans or master plans should be prepared, through dialogue and transparency, to set the objectives to be achieved in the medium term,





5-Integrated information and monitoring systems which are reliable, representative, harmonized and easily accessible, and specific research should be organized in each basin,





- 5-The establishment of specific financing systems, based on the consumers and polluters' contribution and common cause, is required in each basin to ensure the implementation of successive priority action plans and guarantee the smooth operation of the necessary community utilities.
- These contributions, defined by consensus in Basin Committees, should be mainly managed at the basin level, in a decentralized manner, by a specialized, technical and financial basin organization.





- 7-As regards large transboundary rivers, lakes or aquifers cooperation agreements should be signed by riparian countries and management plans designed at the level of all the basins, especially in International or transboundary Commissions, Authorities or Organizations.
- Indeed, there are 263 transboundary rivers and lakes and hundreds of aquifers over the world, the basins of which cover an area of about 50% of the emerged lands.



International Network of Basin Organisations:

158 FULL MEMBERS or PERMANENT OBSERVERS in 52 COUNTRIES!





Permanent Technical Secretariat operated by International Office for Water, PARIS



INBO's REGIONAL NETWORKS



INBO member organizations, belonging to the same geographic region, may create a "Regional Network", if they wish so in order to:

- > strengthen relations between member organizations from neighboring countries,
- > develop INBO joint activities in the region,
- > organize joint activities of regional interest.
- ❖ In Africa = ANBO/RAOB,
- ❖ In Latin America = LANBO/RELOC,
- ❖ In Central and Eastern Europ = CEENBO,
- ❖ In the Mediterranean = MED-INBO/REMOB/REMOC,
- ☐ International Network of Transboundary Basins Organizations
- □"EUROPE INBO" "EURO RIOB" "EURO RIOC"





The creation of a specialized Network of

International Commissions
and

Transboundary Basin Organizations

has been decided during the constitutive Assembly, held in Thonon-les Bains, 25 & 26 November 2002.



There are 263 transboundary rivers over the world, the basins of which are shared by at least two countries!



Transboundary basins per continent.

	2002	Pourcentage du territoire
Afrique	59	<u>52</u> %
Asie	57	39 %
Europe	69	54 %
Amerique du Nord	<mark>스</mark> 뷰 ()	35 %
Amerique du Sud	38	<u>50 %</u>
TOTAL	263	각5 %





Many agreements were signed in the past centuries between riparian countries of transboundary rivers to ensure:

- free navigation,
- the share of river flows,
- the prevention of floods,
- the building of hydropower dams.





But, today, there are still too few agreements, conventions or treaties dealing with:

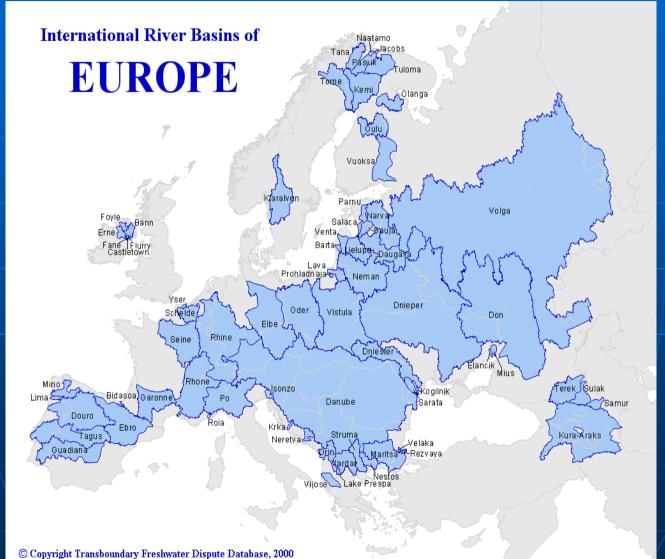
- pollution control,
- aquifer management,
- a fortiori, the integrated management

of shared river basins.



A lot of them being transboundary ones!







Cooperation beyond EU current and future borders





Danube river basin: 18 countries, 817.000 km² catchment area



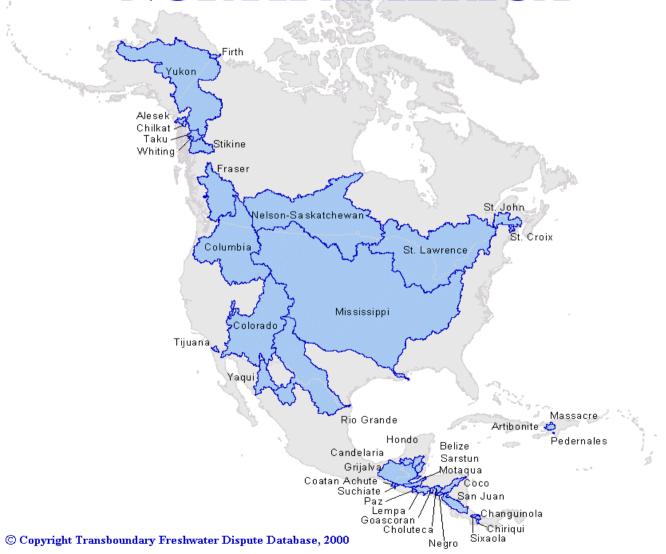






International River Basins of

NORTH AMERICA







International River Basins of

SOUTH AMERICA









INBO/GWP Associated Program:









ASSOCIATED PROGRAM: "DEVELOPING AND STRENGTHENING RIVER BASIN ORGANIZATIONS" **4 MAIN EXPECTED OUTPUTS**

- Direct cooperation established between existing, future or pilot basin organizations through twinning agreements; "TWINBASIN",
- Mobilization within existing basin organizations of professional assistance capacities in order to facilitate the setting up or development of new basin organizations and the debate on their management options; "PILOT PROJECTS",
- A synthesis of available knowledge and know-how, of best practices, preparation of recommendations or guidelines and drawing-up of training modules;

"IWRMNET" & "WFDLEARN",

The networking of water documentation systems to share and get access to useful institutional, legal, economic and technical information at the international level:

SEMIDE/EMWIS-Aquadoc-Inter AWIS/SADIEAU?

International Office For Water PARIS-FRANCE

Associated Programme GWP-INBO 4 main fields of collaboration



Output 1:

Promoting Twinning between Basins
Organizations for Developing Integrated Water
Resources Management best Practices

- Direct experiences sharing
- Exchange of decision-makers and technicians....















The "Twin Basins project", supported by the European Union, give a sponsorship for travels and accomodation, to basin organizations which sign twinning agreement between them to exchange their staffs.

At the moment 14 twinning have been signed.



Associated Programme GWP-INBO





- Output 2:
- Capacities mobilisation from Basin Organizations:
- Assistance with the implementation of institutional reforms,
- Initiation of <u>basin pilot projects</u>,
- Support to countries sharing a transboundary basin,
- Assisting with the <u>setting-up of</u> new basin organizations,
- Professional training of technical teams,



Associated Programme GWP-INBO





- □ Output 2:
- Capacities mobilisation from Basin Organizations
- Design of monitoring networks and databases,
- Assesment to <u>planning process</u>,
- Establishment of institutional mechanisms for users' <u>participation</u> in decision-making,
- Financial and economical studies,
- Assisting with the <u>setting-up of new water taxes</u>...



The European Water Initiative for African transboundary rivers,



Organizations



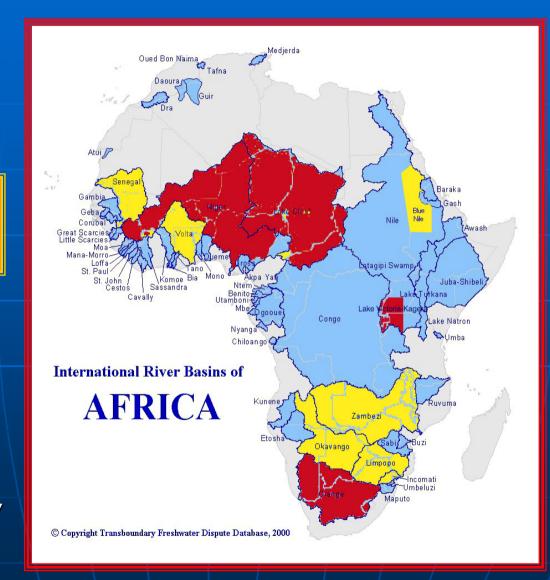
EUWI

5 selected pilot basins:

Orange-Senqu,
Lake Chad,
Lake
Victoria/Kagera,
Niger and Volta.

Animated by:

the French Ministry for Foreign Affairs &







Transboundary management of the Irtysh River Basin









FLOOD CONTROL: FORECAST, PREVENTION, PROTECTION

- Foreseeing hazardous events,
- Reducing vulnerabilities,
- Protecting people and properties,
- Warning and educating.



Associated Programme GWP-INBO 4 main fields of collaboration



- Output 3:
- Synthesis of knowledge and Know-How:
- To identify good practices,
- To set common, easily accessible and measurable performance indicators,
- To train staff and stakeholders from basin organizations,







Towards a European-wide exchange Network for improving dissemination of IWRM research outcomes:

- identifying and describing the national research programs which have a relationship to IWRM in UE countries,
- locating the sources of information on recent and current projects,
- identifying and contacting the persons-in-charge of these programs
- organising workshops of these program managers to prepare the basis of a long-term collaboration,
- proposing new ways to develop a more demand-driven research, and a better dissemination of outputs.





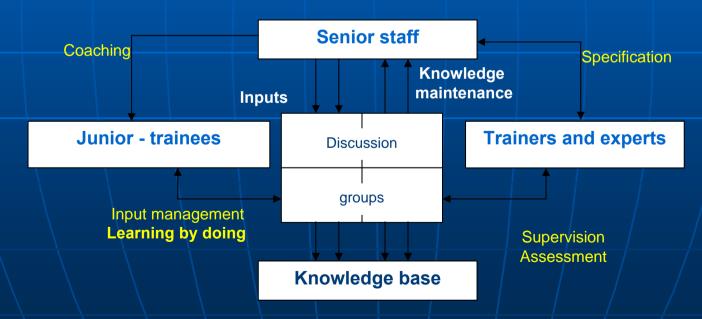




Project supported by the European Programme Leonardo Da Vinci

« WFD Community »:

a Virtual Learning computering system for Water professionnals



The basis of our future internal Virtual "University"



GENERAL ASSEMBLY The Martinique, 24 – 28 January 2004 « DECLARATION OF TROIS-ILETS »



Implementation of
the European Water Framework Directive
in the 25 countries
of the enlarged European Union,

as well as in the candidate countries for accession, is a major milestone for promoting the principles of good governance advocated by INBO.

This theme is a priority for mobilizing its members, not only in Europe

but also in all other interested countries.

Directive 2000/60/EC of 23 October 2000

establishing a framework for the Community action in the field of water policy.



Many questions indeed arise!

International Network Of Basin

Organizations

Framework
Directive:
good status
for waters
in the Union
before 2015

How to define 'good ' ecological quality

?

How to define the 'sustainable' functioning of the aquatic ecosystems

?

How to achieve
the environmental objectives
and ensure a consistent
implementation
in the Union

?

.. And how to ensure comparability in the classification of ecological status and of monitoring in the Union

?



INBO joins the Strategic Coordination Group of the WFD Common Implementation Strategy



Fourteen CIS Guidance Documents:

- 1) Economics and the Environment
- 2) Identification of Water Bodies
- 3) Analysis of Pressures and Impacts
- 4) Artificial and Heavily Modified Water Bodies
- 5) Transitional and Coastal Waters -Typology, Reference Conditions
- 6) Intercalibration Network and the Intercalibration Process
- 7) Monitoring
- 8) Public Participation
- 9) GIS and the WFD
- 10) Rivers and Lakes Typology
- 11) Planning Process
- 12) Wetlands
- 13) Classification
- 14) Reporting

nte	er	'C	ali	b	ra	t	0	n l	P	rocess	
Economics and the environment The implementation challenge of the WFD	Identification of Water Bodies	Analysus of Pressures and Impacts	Identification & Designation of Heavely Modified & Artificial Water Bodies	Transitional and Coastal Waters	owards a guidance on establishment of the intercalibration network and the process on the intercalibration exercise	Monitoring under the Water Framework Directive	Public Participation in relation to the WFD	Implementing the Geographical Information System Elements (GIS) of the Water Framework Directive	River and lakes - Typology, reference, conditions	Common Market Fran	Common Implementation Strategy for the Water Framework Directive (2000/60/EC) Guidance document n.* 11 Planning process
Guidance document n°1	Guidance document n°2	Guidance document n°3	Guidance document n°4	Guidance document n°5	Guidance document n"6 Towa	Guidance document n°7	Guidance document n°8	Guidance document n°9	Guidance document n°10	Guidance document n°11	





CIS priorities for 2005-2006:



- Climate Change
- Droughts and Floods
- Intercalibration exercise
- WFD and agriculture
- Hydromorphology (hydropower and navigation)
- New Pilot River Basin exercise
- Reporting and WISE
- Priority substances / Chemical monitoring
- Cost effectiveness





Associated Programme GWP-INBO





□ Output 4:

- The networking of water Information- documentation systems
- Exchange of information and documentation,
- Assistance with the structuring of the National Relay Documentation Centers,
- AQUADOC-INTER, SEMIDE or AWIS?





Dissemination by the most appropriate means (internet, books, Q/A, courses, newspapers, etc.)

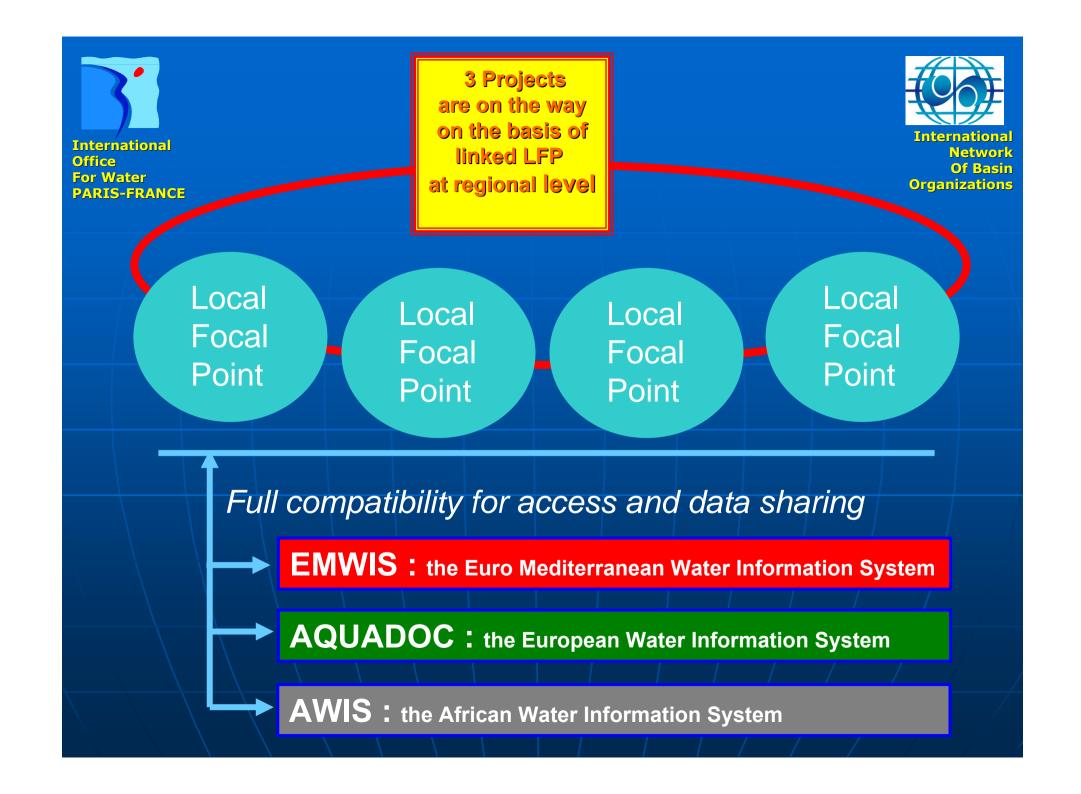
Other actors

Basin Organizations
National Authorities
Local Authorities
NGOs
Private sector
Research and academics

Exchanges with the other LFPs using Internet and common standards

Local Focal Point

Collection of
Projects
Reports
Papers: thesis
Learning materials
Data





المكتب الدولي للمياه

SEMID

www.semide.org

Système Euro-Méditerranéen d'information sur les savoir-faire dans le domaine de l'Eau



نظام المعلومات الأورو-متوسطي حول المهارات في مجال المياه



الشبكة المولية المولية

S

www.emwis.org

EuroMediterranean
Information
System on know
how in the water
sector





"AQUADOC-INTERNATIONAL-CEE"



International
Office
For Water
PARIS-FRANCE





« EUROPE INBO »

Web Site: <u>europe-wfd.inbo-news.org</u>



FPs projects web sites
HarmoniCA initiative

MS projects web sites ERA-Net initiatives

Districts web sites

CIRCA web site

WSSTP web site

Fragmented "tons" of information,

hardly useable by practitioners

Identification, assessment, collection, networking,

« Europe INBO » Europe-wfd.inbo-news.org

Management, needs analysis, infrastructure development,

materials production, ...

Structured links to raw and assessed information

Mapping of the available knowledge

Production of synthesis and learning materials

Organisation
of regular
dissemination events

Ready-to-use knowledge for water practitioners

for strengthening the common strategy for an operational implementation of the Water Framework Directive (WFD).



AWS: the African Water Information System



Dissemination

to stakeholders



Local knowledge : lots of valuable

reports, legal documents, ...)

information are produced every day

(projects implementation plans, evaluation

Collection



Continent-wide needs: no time, no money for reinventing the wheel!



International Network of Basin Organisations Réseau International des Organismes de Bassin





INBO initiatives are open to your participation:
your inputs are welcome!

http://www.inbo-news.org
For developing and strengthening
basin organizations over the world

For developing and strengthening river basin organizations:

INBO / GWP ASSOCIATED PROGRAM



FOUR MAIN OUTPUTS ARE EXPECTED

Output 0

Organization of twinning arrangements between basin organizations

Proposed services:

- Direct exchanges of experiences between twin basin organizations.
- "TWINBASIN" Project

The goal of the INBO/ Global Water partnership "Associated Program" is to support all initiatives for the organization of Integrated Water Resource Management at the river basin, lake and aquifer level, whether national or transboundary. It also aims to develop many experiments to reconcile economic growth, social equity, environmental conservation, water protection and participation of the Civil Society.

The International Network of Basin Organizations (INBO) is responsible for coordinating and managing the Associated Program.

Output @

Mobilization of professional support capacities of basin organizations

Proposed services:

- Assistance with the implementation of institutional reforms.
- Initiation of pilot projects,
- Support to several countries sharing a transboundary river basin.
- Design of monitoring networks and databases,
- Assisting new basin organizations with the setting-up of technical teams,
- Establishment of institutional mechanisms for the water users' participation in decision-making and activities of basin organizations,
- Financial simulation.
- Audits,...

Output ®

Synthesis and dissemination of available knowledge and know-how

Proposed services:

- Assessing the performance of the different systems,
- Contributing to the improvement of knowledge and know-how in the area of basin organizations and IWRM.
- Making available a set of common performance indicators,
- Training to good practices.
- "IWRM.NET"
- "WFD COMMUNITY"

Output @

The networking of water documentation systems

Proposed services:

- Exchange of information, documentation and data, definition of common standards,
- Assistance with the structuring of the National Relay Documentation Centers and Databases in each country concerned,
- Dissemination of information to professionals and decision-makers.
- AQUADOC-INTER



INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS

"INBO" Head Office and Permanent Technical Secretariat c/o International Office for Water - 21, rue de Madrid - 75008 Paris - France Tel.: +33 (1) 44 90 88 60 - Fax: +33 (1) 40 08 01 45 - Mail: inbo@wanadoo.fr

www.inbo-news.org





IVth World Water Forum

on 18 March 2006 in Mexico City, within the « IWRM » topic





INBO has proposed to organize 3 sessions:

In the European Union.

- 1. on the participation of the public and water users in basin management,
- 2. on the management of transboundary basins,
- 3. on the implementation of the European Water Framework Directive, which represents and exceptional example of basin management in more than 27 countries,



MEXICO March 2006 « IVth World Water Forum »



Our ideas are progressing, let's get mobilized to make our results known in Mexico City!

i Nos idées progressent, mobilisons-nous pour les faire connaître!



You are all invited!!!





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Международная сеть водохозяйственных организаций الشبكة الدولية لهيئات الأحواض







www.inbo-news.org
www.riob.org
mail: inbo@wanadoo.fr
riob2@wanadoo.fr

Международная сеть водохозяйственных организаций, Réseau International des Organismes de Bassin International Network of Basin Organizations Red Internacional de Organismos de Cuenca الشبكة الدولية لهيئات الأحواض



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