



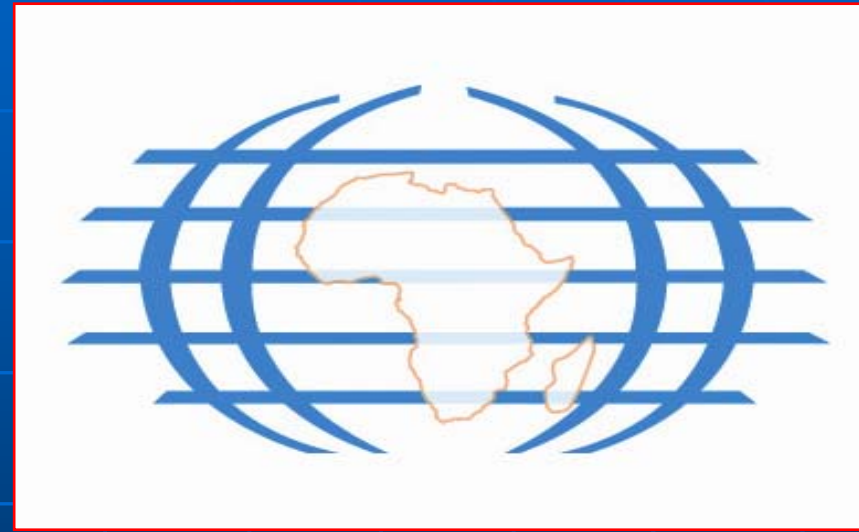
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GENERAL ASSEMBLIES OF THE AFRICAN NETWORK OF BASIN ORGANIZATIONS AND OF THE NETWORK OF TRANSBOUNDARY BASIN ORGANIZATIONS



International
Network
of Basin
Organizations

JOHANNESBURG (SOUTH AFRICA)
Kopanong Hotel and Conference Centre



RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN

INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS

RED INTERNACIONAL DE ORGANISMOS DE CUENCA

流域组织国际网

Международная сеть водохозяйственных организаций

الشبكة الدولية لهيئات الأحواض

GENERAL ASSEMBLIES OF THE AFRICAN NETWORK OF BASIN ORGANIZATIONS AND OF THE NETWORK OF TRANSBOUNDARY BASIN ORGANIZATIONS



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**GENERAL ASSEMBLIES
OF THE AFRICAN NETWORK OF BASIN ORGANIZATIONS AND
OF THE NETWORK OF TRANSBOUNDARY BASIN ORGANIZATIONS**



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**JOHANNESBURG (SOUTH AFRICA)
Kopanong Hotel and Conference Centre**

**Paper of
Mr. Jean - François DONZIER**

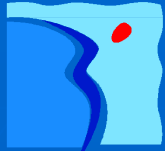
**General Manager
International Office for Water
Permanent Technical Secretary**

**RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN
INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS**

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INBO General Objective: To Organized better IWRM at basin level!



Réseau
International
des Organismes
de Bassin



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International Network of Basin Organisations:



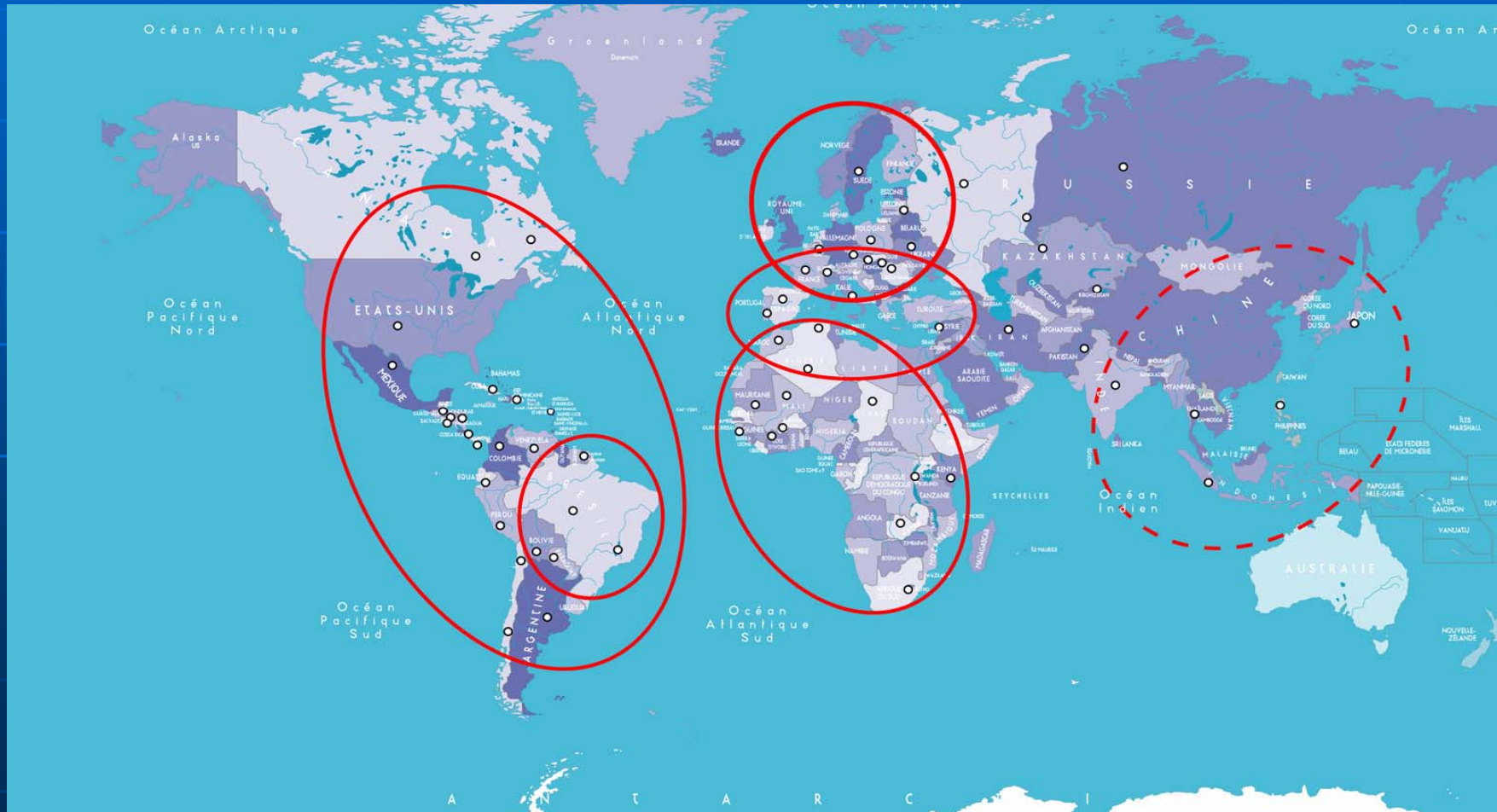
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المكتب الدولي للمياه

158 FULL MEMBERS or PERMANENT OBSERVERS
in 52 COUNTRIES!

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الشبكة الدولية لهيئات الأحواض



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,**
- ❖ **In EECCA-Eastern Europe, Caucasus & Central Asia (project)**

- ❑ **International Network of Transboundary Basins Organizations**
- ❑ **"EUROPE INBO" "EURO RIOB" "EURO RIOC"**

**INTERNATIONAL NETWORK
of TRANSBOUNDARY BASINS ORGANIZATIONS**

**WHY A NETWORK
OF
INTERNATIONAL COMMISSIONS
AND
TRANSBOUNDARY BASINS
ORGANIZATIONS**



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.**



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- 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.

« Water has no boundary »

?!?

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INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS
RED INTERNACIONAL DE ORGANISMOS DE CUENCA

INTERNATIONAL NETWORK of TRANSBOUNDARY BASINS ORGANIZATIONS

***There basins shared by at least two countries
host two-fifths of the world population :***

***15% of the Countries depend on more than 50%
of the water resources of upstream countries.***

***For instance, Iraq, Sudan, Syria, Egypt, Paraguay, Niger, Congo,
Gambia, Botswana or Mauritania, Luxembourg, Romania,
the Netherlands, Bulgaria or Hungary
have more than 2/3 of their resources coming from bordering countries.***

***It is estimated that 48% of the world population
will live in highly degraded river basins in 2025.***



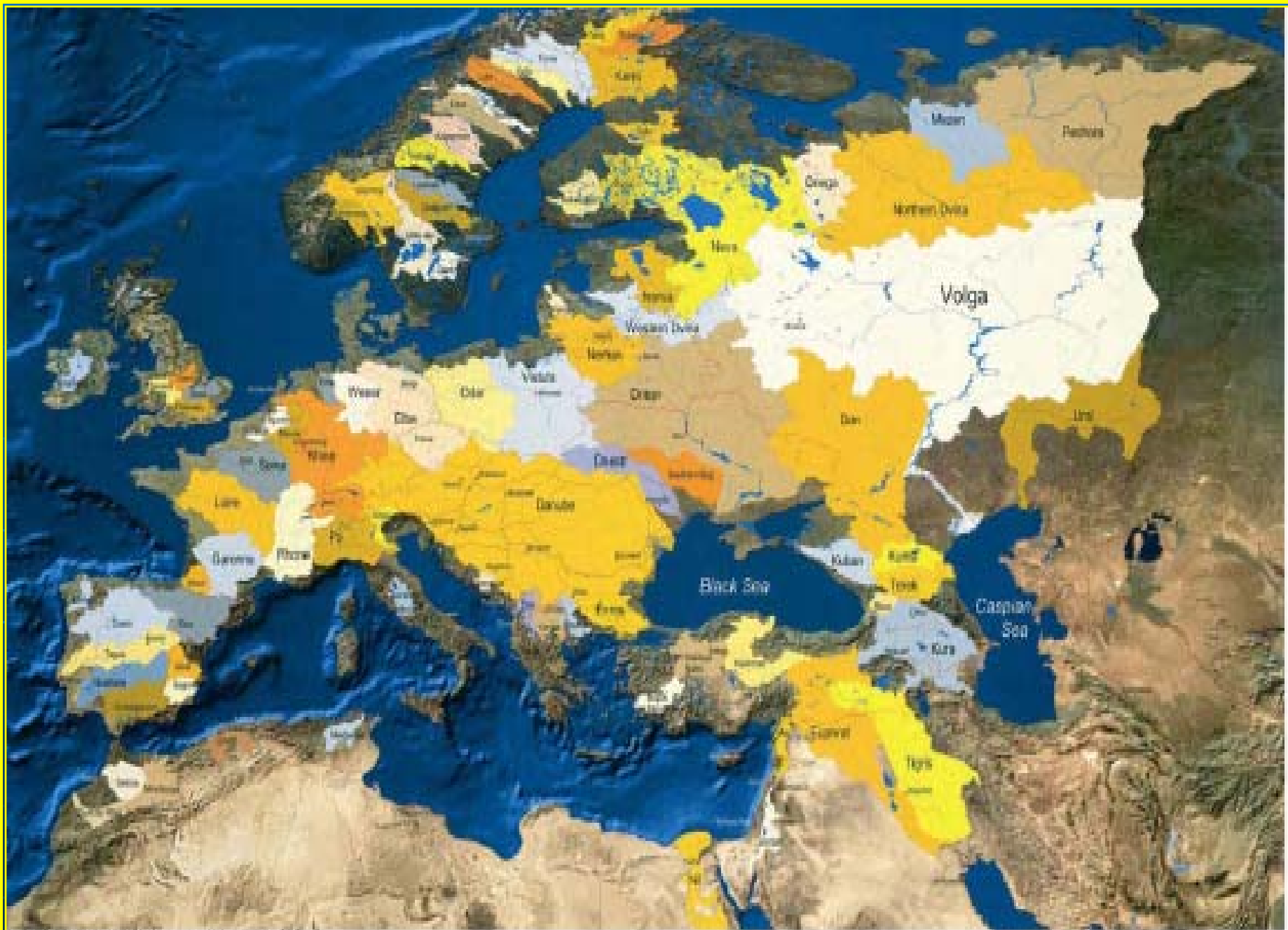
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Transboundary basins per continent.

	<i>2002</i>	<i>Pourcentage du territoire</i>
<i>Afrique</i>	59	62 %
<i>Asie</i>	57	39 %
<i>Europe</i>	69	54 %
<i>Amerique du Nord</i>	40	35 %
<i>Amerique du Sud</i>	38	60 %
<i>TOTAL</i>	<i>263</i>	<i>45 %</i>



Source : ERN / Solidarité Eau Europe



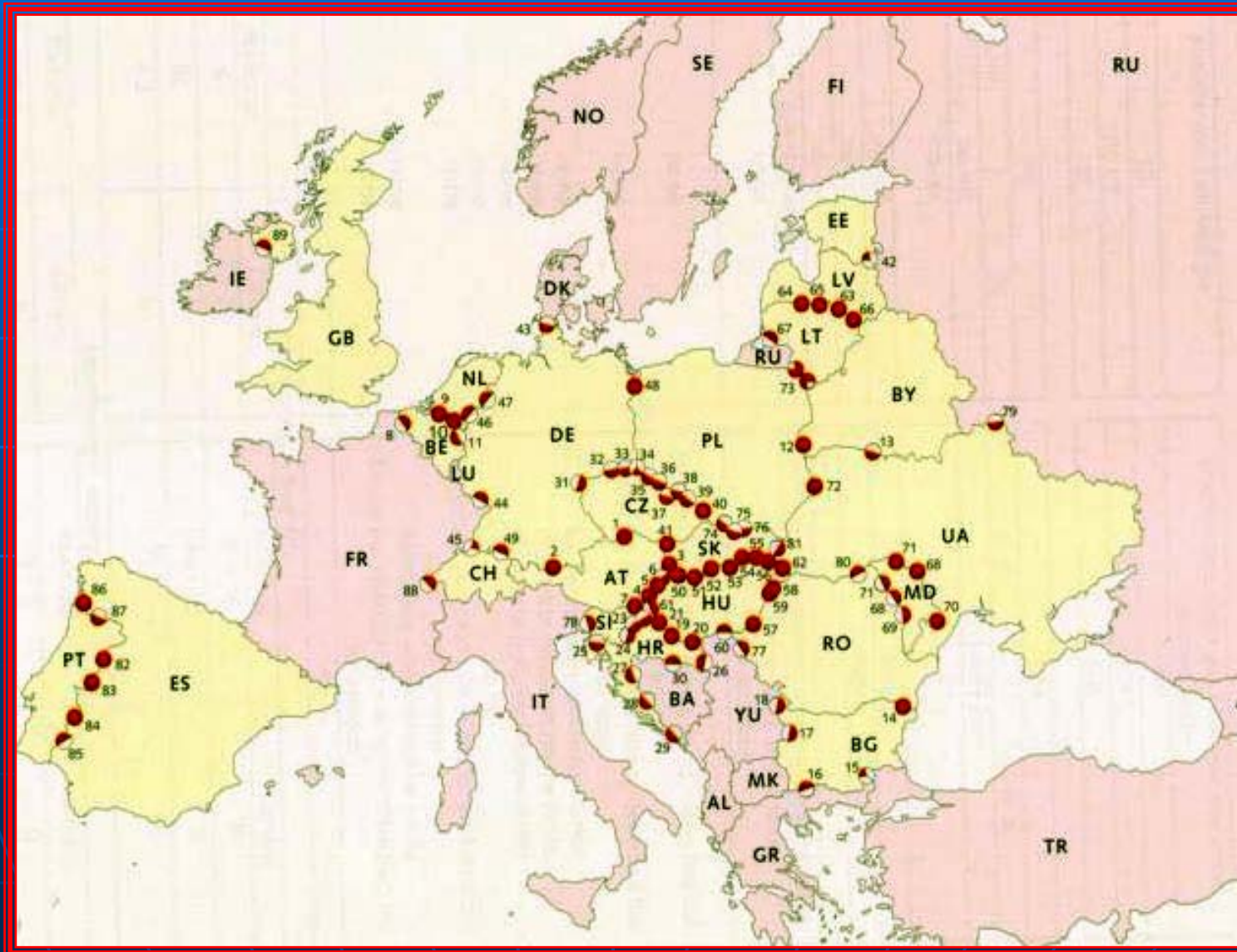
Cooperation beyond EU current and future borders



Danube river basin: 18 countries, 817.000 km² catchment area

UNECE

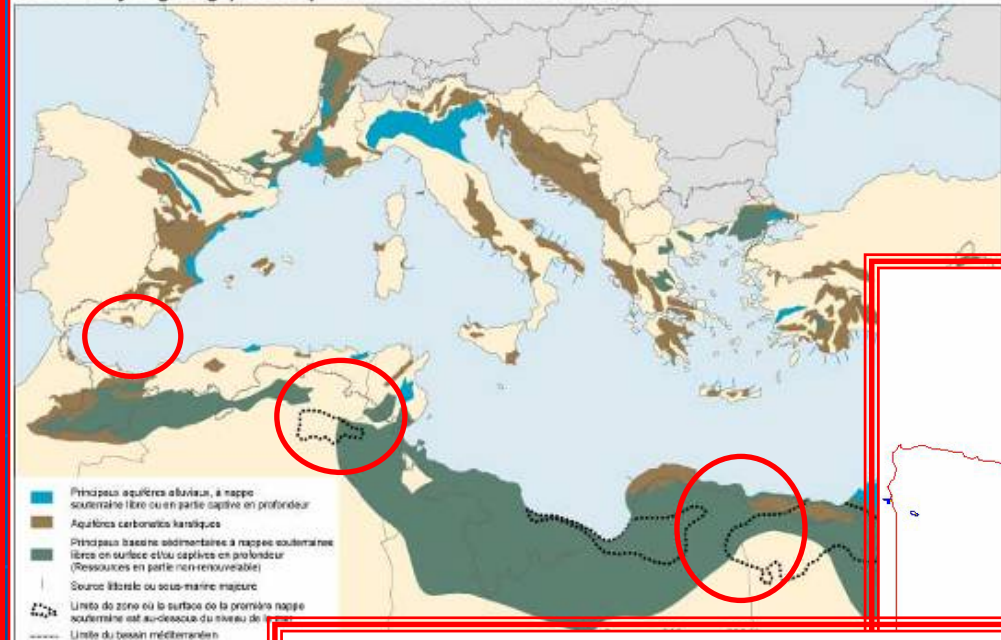
Transboundary aquifers in Europe





© Copyright Transboundary Freshwater Dispute Database, 2000

Structures hydrogéologiques et aquifères dans le bassin méditerranéen



SHARED AQUIFER RESOURCES IN THE MEDA AND NORTH AFRICA

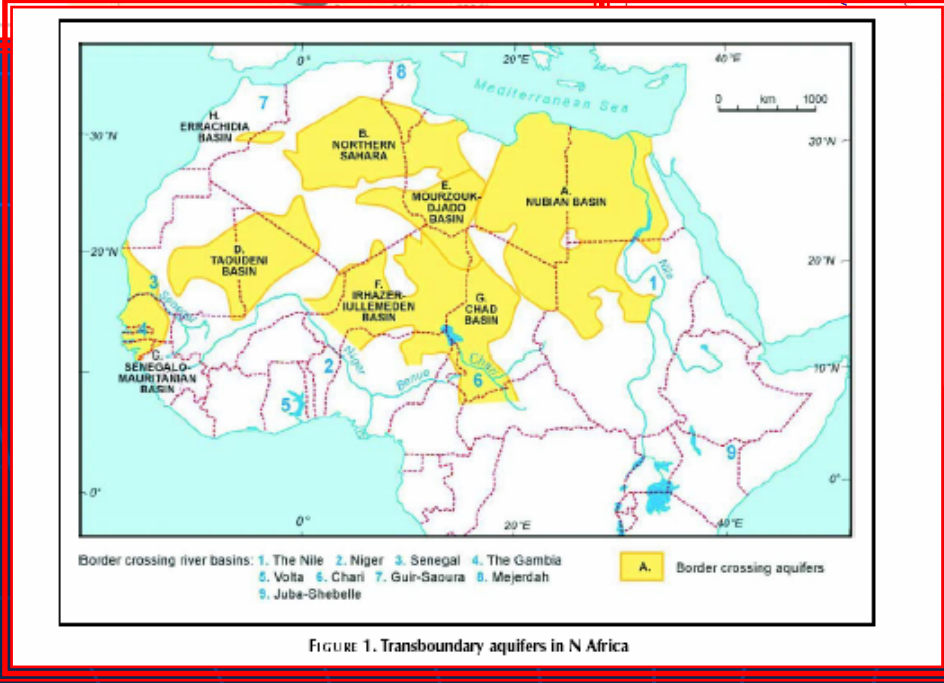
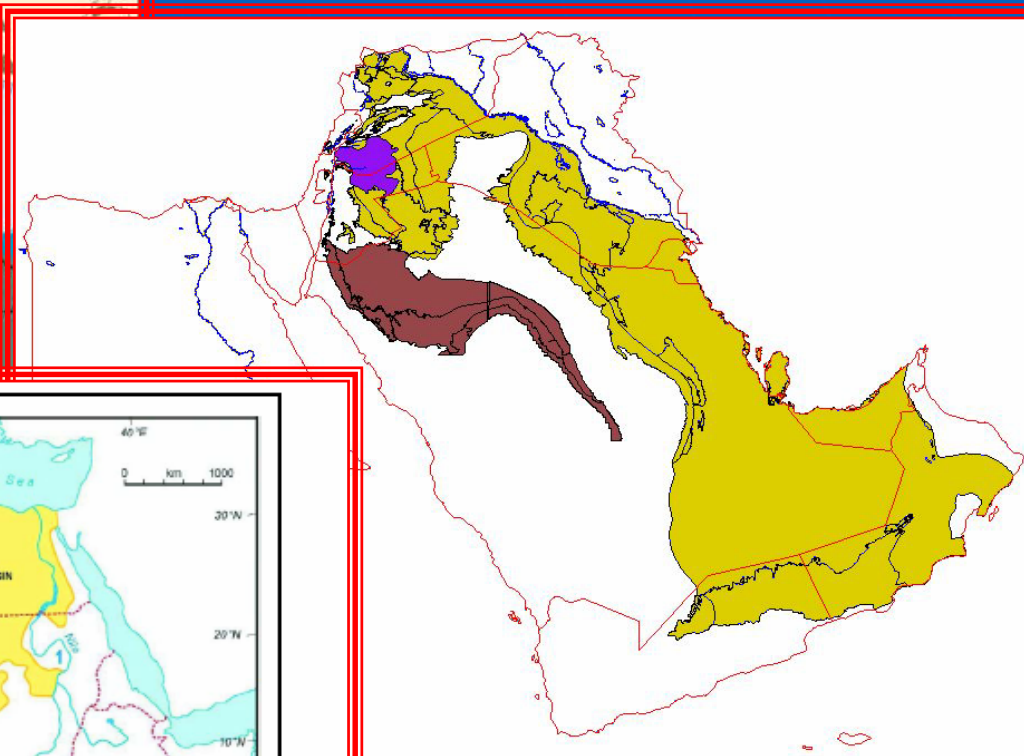


FIGURE 1. Transboundary aquifers in N Africa



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Transboundary basins:



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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.



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Transboundary basins:



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But,

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

- **pollution control,**
- **aquifers management,**

and, a fortiori,

- **the integrated management
of shared river basins.**

**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 .**



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.

INTERNATIONAL NETWORK of TRANSBOUNDARY BASINS ORGANIZATIONS

Appropriate integrated management of rivers, lakes or aquifers,
shared by several riparian countries,
is now of strategic significance :

**For these large transboundary rivers and aquifers,
inland or international seas,
cooperation agreements between the riparian countries
should be considered.**

**Several countries have already established
an appropriate basin organization
and a large number are considering doing so,
in cooperation with international organizations and programs.**



**International
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of Basin
Organizations**

**Implementation of
the European Water Framework Directive
in the 27 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.**

Directive 2000/60/EC of 23 October 2000
establishing a framework for the Community action in the field of water policy.

INBO/GWP Associated Program:





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Associated Programme GWP-INBO



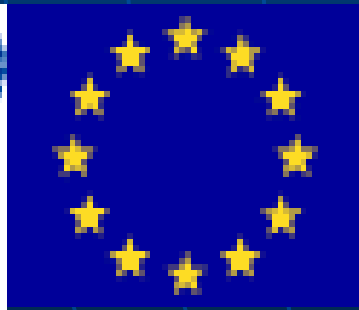
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4 main fields of collaboration

Output 1:

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

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





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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 34 twinning have been signed.



Associated Programme GWP-INBO



4 main fields of collaboration

□ Output 2:

➤ Capacities mobilisation from Basin Organizations:

- Assistance with the implementation of institutional reforms,
- Initiation of basin pilot projects,
- Support to countries sharing a transboundary basin,
- Assisting with the setting-up of new basin organizations,
- Professional training of technical teams,



Associated Programme GWP-INBO



4 main fields of collaboration

□ Output 2:

➤ Capacities mobilisation from Basin Organizations

- Design of monitoring networks and databases,
- Assessment to planning process,
- Establishment of institutional mechanisms for users' participation in decision-making,
- Financial and economical studies,
- Assisting with the setting-up of new water taxes ...

The European Water Initiative for African transboundary rivers,



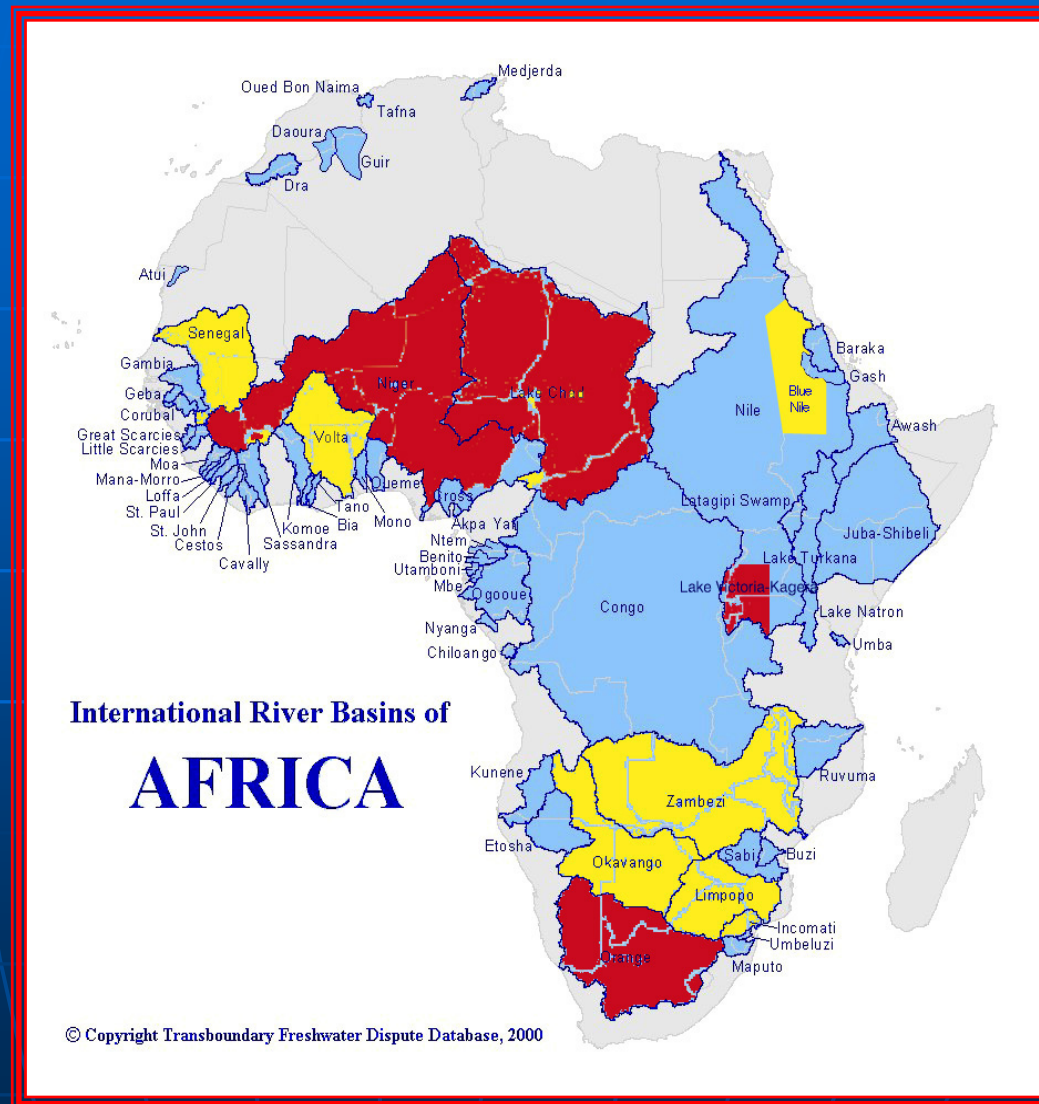
EUWI

**5 selected
pilot basins:**

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

Animated by:

the French Ministry for Foreign Affairs &





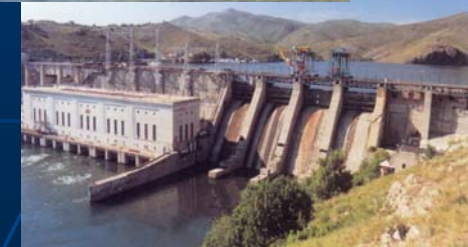
European Commission

ACP-EU WATER FACILITY
ACTIONS IN ACP COUNTRIES



- **TEST FOR A SET OF INDICATORS OF PERFORMANCES OF BASIN ORGANIZATIONS**

Transboundary management of the Irtysh River Basin



Conférence de DUSHANBE « Gestion des fleuves d'Asie Centrale »



Conférence de DUSHANBE

« Gestion des fleuves d'Asie Centrale »



la Cumbre Binacional del Río Bravo / Río Grande



Commission du Mekong





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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,



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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.

Bringing together National and Regional research programmes to develop joint activities

- ▶ Exchanges of experiences and good practice
- ▶ Research needs assessment on Integrated Water Resources Management brought on by the WFD
- ▶ Common strategic orientations
- ▶ Joint dissemination approaches

Common forum and platform for knowledge transfer

- ▶ To facilitate communication between researchers, water policy makers, research programme managers and water managers
- ▶ To create new RTD/policy interfaces

A network based on an interdisciplinary approach

- ▶ Encompassing social sciences, economics, technical and ecological fields
- ▶ To be extended to other research programme from all member states and neighbouring countries

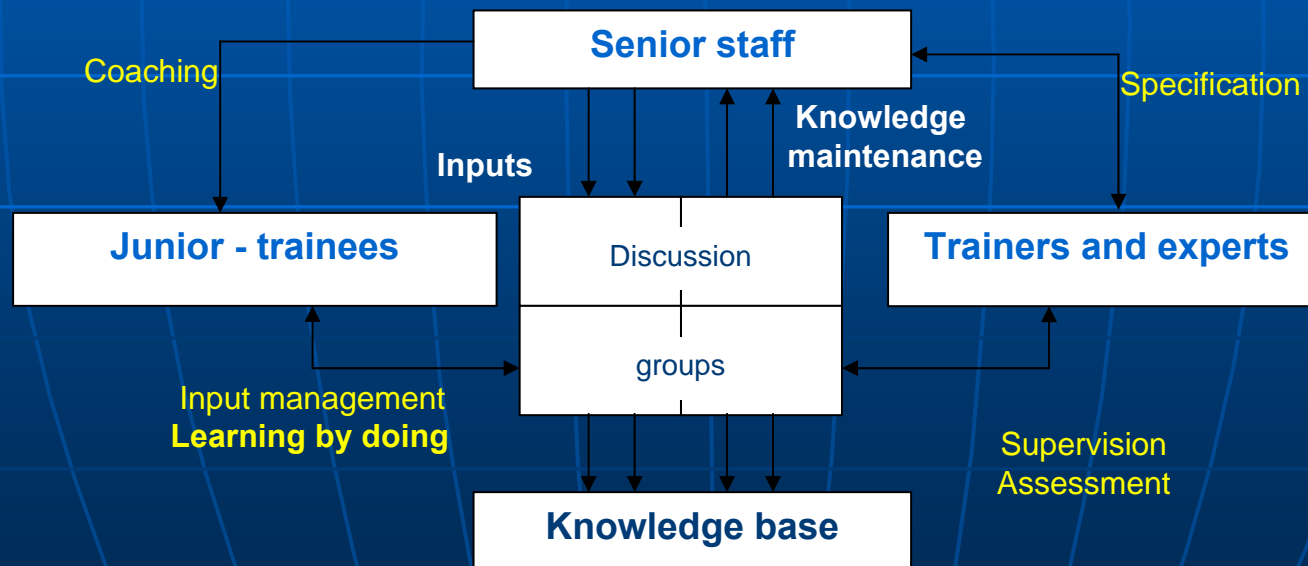
Towards future transnational and transregional research programmes



Project supported by the European Programme Leonardo Da Vinci

« WFD Community »:

a Virtual Learning computing system for Water professionals



The basis of our future internal Virtual "University"



Many questions indeed arise!



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





CIS priorities for 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



4 main fields of collaboration

□ 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?**

**3 Projects
are on the way
on the basis of
linked LFP
at regional level**

Local
Focal
Point

Local
Focal
Point

Local
Focal
Point

Local
Focal
Point

Full compatibility for access and data sharing

EMWIS : the Euro Mediterranean Water Information System

AQUADOC : the European Water Information System

AWIS : the African Water Information System



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SEMID

E

www.semide.org

Systeme Euro-
Méditerranéen

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



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EMWI

S

www.emwis.org

Euro-
Mediterranean
Information

System on know
how in the water
sector



نظام المعلومات الأورو-
متوسطي حول المهارات
في مجال المياه



EURO-MEDITERRANEAN PARTNERSHIP



“AQUADOC-INTERNATIONAL-CEE”



Adresse http://aquadoc.oieau.fr/ml/?lg=eng OK Liens

aqu@doc INTER

Search

- Countries choice :

- France
- Poland
- Rumania
- Hungary
- Czech republic

- Type of information :

Documentary DB

Site map
Contact us

Search

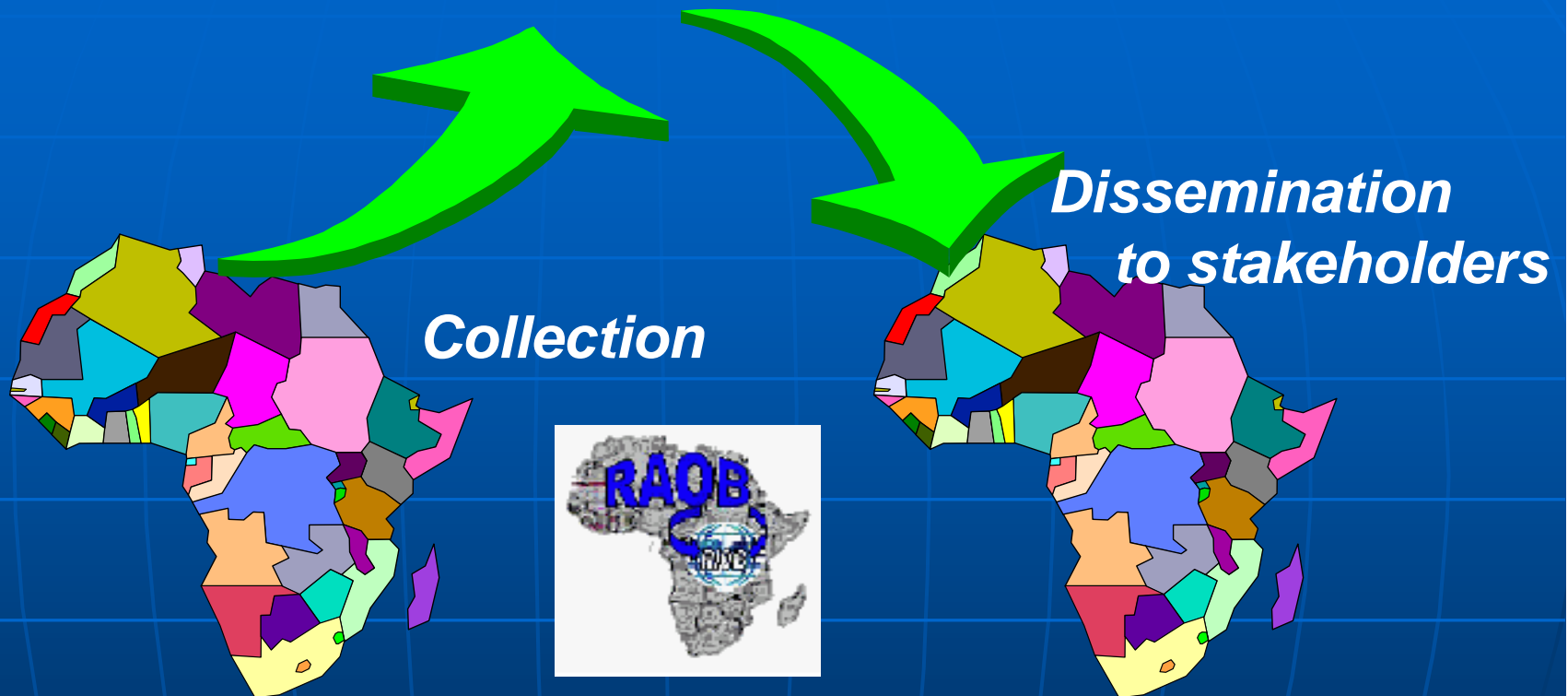
Countries choice : France - Poland - Rumania - Hungary - Czech republic

Type of information : Documentary DB

Internet



AWIS : the African Water Information System



Local knowledge : lots of valuable information are produced every day (projects implementation plans, evaluation reports, legal documents, ...)

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



**MEXICO March 2006
IVth World Water Forum**



**INBO has organized
4 official sessions:**

1,250 participants!

- 1. on the management of transboundary basins,**
- 2. on the implementation
of the European Water Framework Directive,**
- 3. on the participation of the public and
water users in basin management,**
- 4. On Tranboundary Basin in Africa (RAOB).**

**on 18 March 2006 BANAMEX CENTER,
within the « IWRM » topic
of the 4th World Water Forum.**





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« La Lettre du RIOB », N°14 et 15.



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Pour les années 2006 et 2007:

- le tirage se fait en 3 langues, anglais, français et espagnol,
- 15.000 exemplaires sont tirés, dont :
 - 8.000 ex. en anglais,
 - 4.500 ex. en français,
 - 2.500 ex. en espagnol,
- la version électronique est téléchargeable sur notre site Internet.

POUR 2007, **MERCI**, DONC, D'ENVOYEZ, COMME EN 2006:
VOS INFORMATIONS, VOS CARTES ET VOS PHOTOS !!

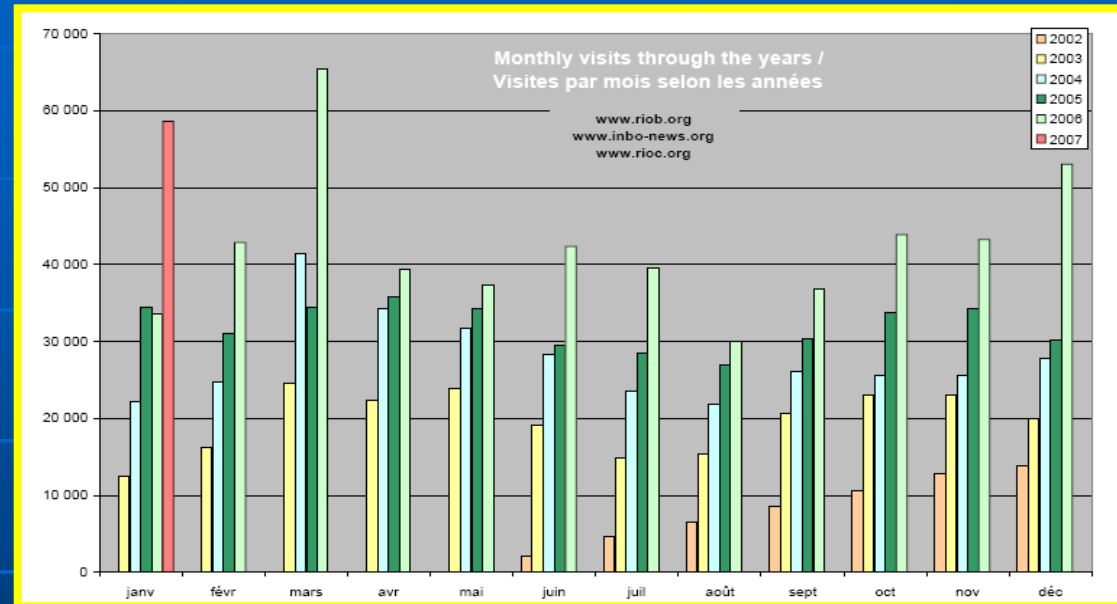
www.riob.org:



Il y a eu **1.545.400** visiteurs,
depuis son ouverture !!!!!

Dont:

- **60.000** en **2002**,
- **240.000** en **2003**,
- **330.000** en **2004**,
- **383.000** en **2005**,
- **532.400** en **2006**



Avec un maximum mensuel de:

- **65.500** visites, en Mars 2006,

Et une moyenne actuelle de:

- **45.000** visites par mois!!

GENERAL ASSEMBLIES
OF THE AFRICAN NETWORK OF BASIN ORGANIZATIONS &
OF THE NETWORK OF TRANSBOUNDARY BASIN
ORGANIZATIONS

**3 workshops will deal with central topics
for the implementation of IWRM:**

- statutes and responsibilities of transboundary basin organizations,
- preparation of basin management plans and action programs, financing basin organizations and their programs,
- monitoring and information systems in the management of transboundary basins.

ASSEMBLEES GENERALES
DU RESEAU AFRICAIN DES ORGANISMES DE BASSIN ET
DU RESEAU DES ORGANISMES DE BASSINS TRANSFRONTALIERS

3 ateliers de travail sont organisés
sur des thèmes centraux
pour l'application de la GIRE :

- Les statuts et les compétences des organismes de bassins transfrontaliers,
- L'élaboration des plans de gestion et des programmes d'actions de bassin,
le financement des organismes de bassin
et de leurs programmes,
- Le monitoring et les systèmes d'information des bassins transfrontaliers.



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流域组织国际网

**When they exist,
Basin organizations are working !!**



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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?

Water users : = community

= individuals

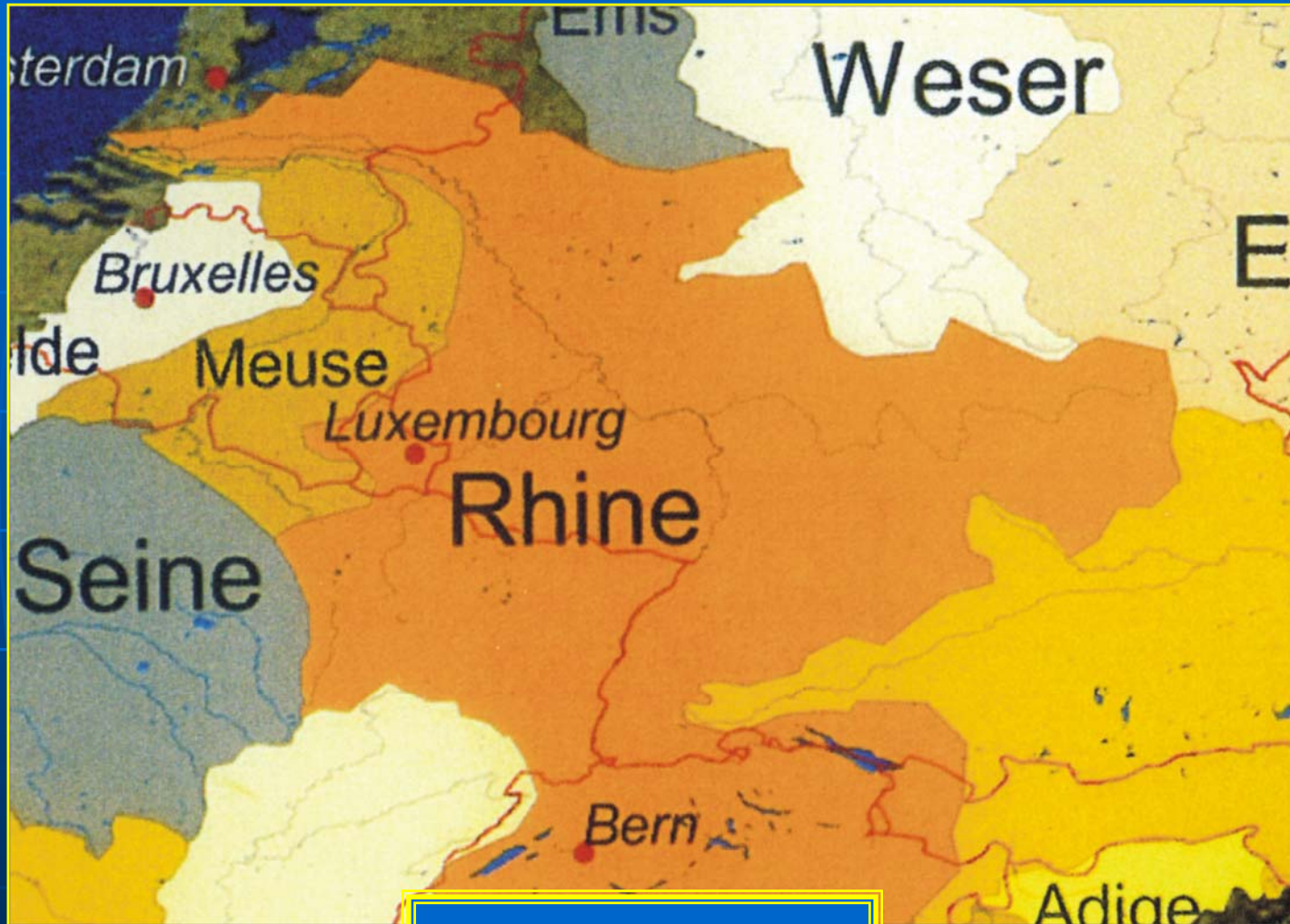
Civil Society : = enterprises
= researchers
= NGOs



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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**



RHINE

The Rhine :

an international river basin district

(WFD, art 3.3)

185 000 km²
50 millions inhabitants

9 States involved

Austria
Belgium
France
Germany
Italy
Liechtenstein
Luxemburg
Switzerland
The Netherlands

9 working sectors ...

Secretariat

**Plenary assembly (PLEN)
Coordination Committee (CC)**
Delegation Head

Strategy Group (SG)
Editorial Group

**WG Flooding
(H)**

**WG Water
Quality /
Emissions (S)**
incl. Groundwater (GW)

**WG Ecology
(B)**

**Expert Groups
GIS
Economy (E)**

Riparian states*

*cf. Diagram 2: Expert coordination / Coordination of reporting

RHINE



The **MOSEL / SAAR** working sector

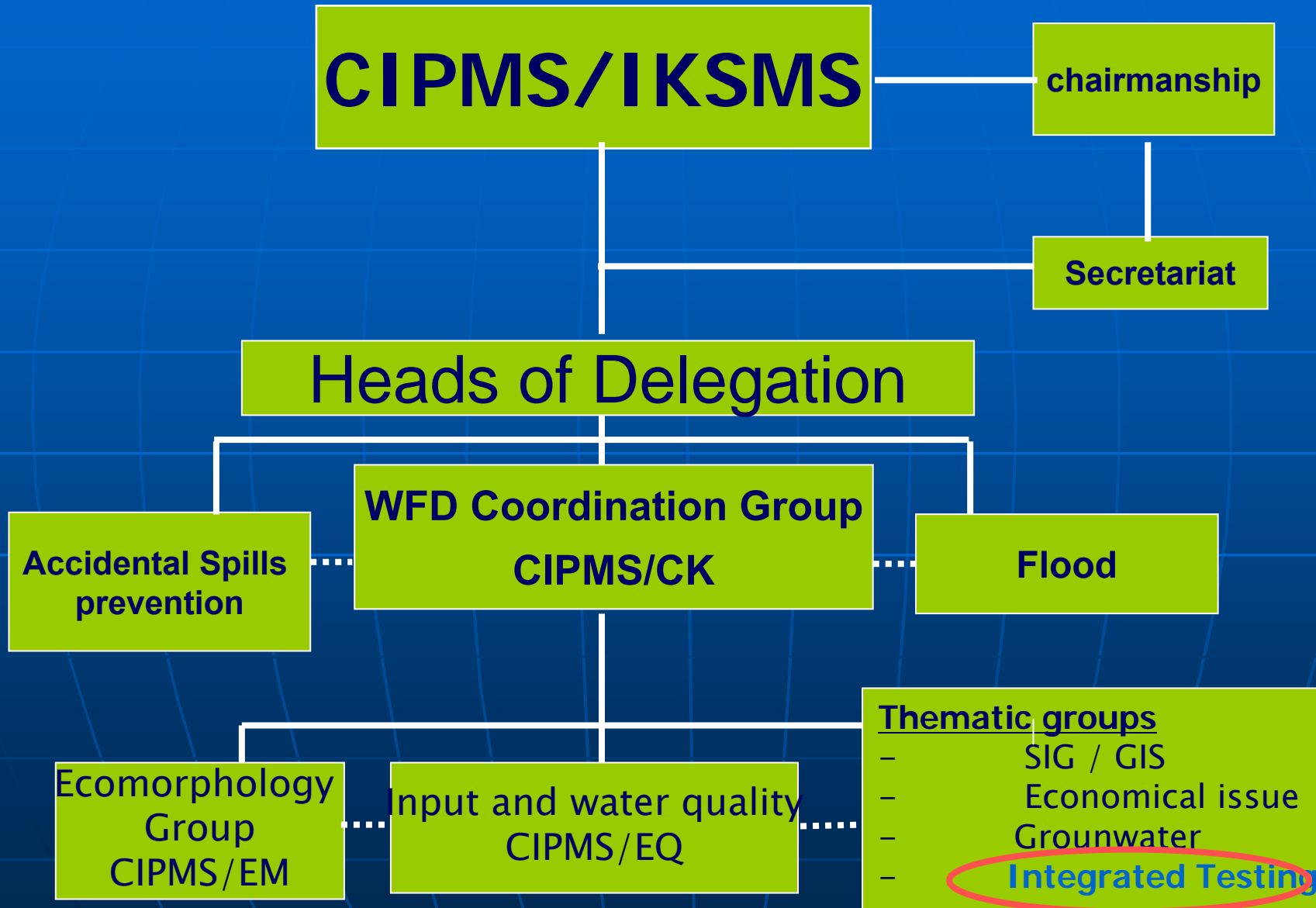
River basin: 28 286 km²

Population :
4,3 million inhabitants

4 States involved :

- **Belgium** (Wallonia),
- **Germany** (Nordrhein-Westfalen, Rheinland-Pfalz, Saarland)
- **France**
- **Luxembourg**

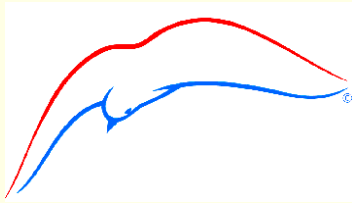
Commissions for the Protection of the Mosel and Saar



International Commission for Lemman Lake Protection - CIPEL

Zone géographique concernée par la CIPEL





Vaud
Valais
Genève



Secrétariat
permanent

Collaboration F - CH
en cas de pollution

Relations
publiques

Organization chart

Organigramme de la CIPEL

Sous-commission technique

Comité
opérationnel

Bureau

Conseil
scientifique

Programme de surveillance

Pollutions
domestiques

Pollutions
agricoles

Pollutions
industrielles

Renaturation

Méthodologie

Subvention à la
déphosphatation



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- **FOR EACH BASIN,
MUST BE FORMULATED:**
 - **"MANAGEMENT PLANS",
DEFINING THE OBJECTIVES TO ACHIEVE,**
 - AND**
 - **"PROGRAMS OF MEASURES",
DEFINING THE NECESSARY ACTIONS.**



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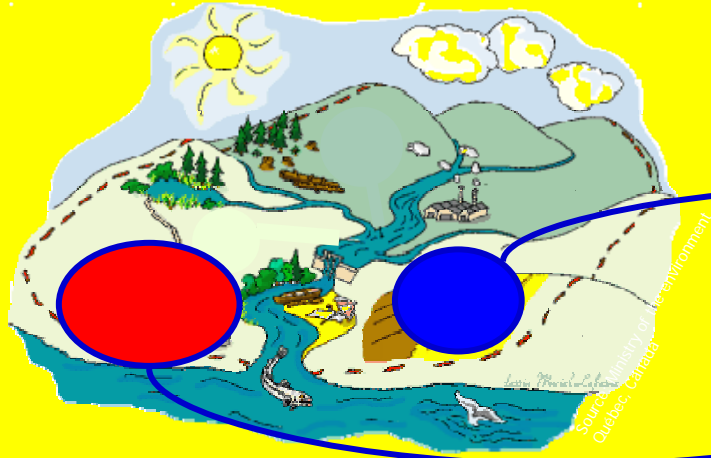
THE CHARACTERISATION OF THE BASIN



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2004

Description of the initial situation

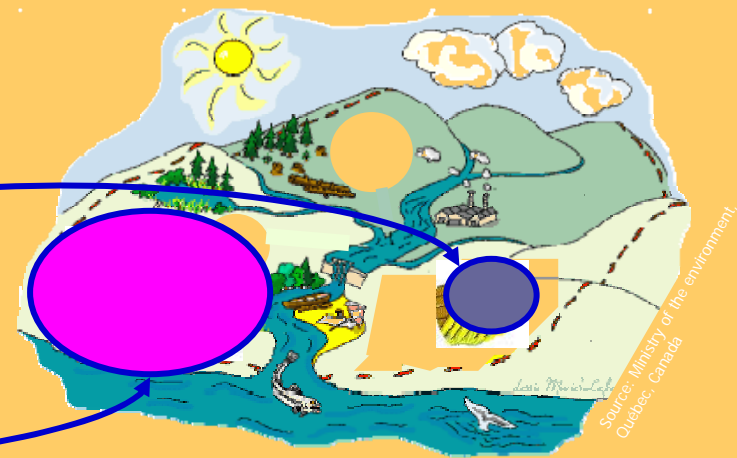


Focus on economic aspects:

- estimate the economic "weight" of water uses and services
- assess the level of recovery of costs of water services

2015

Baseline scenario: projection for 2015



Baseline scenario:

- appraisal of evolutions of uses, pressures...
- identification of potential gaps in water status with GES

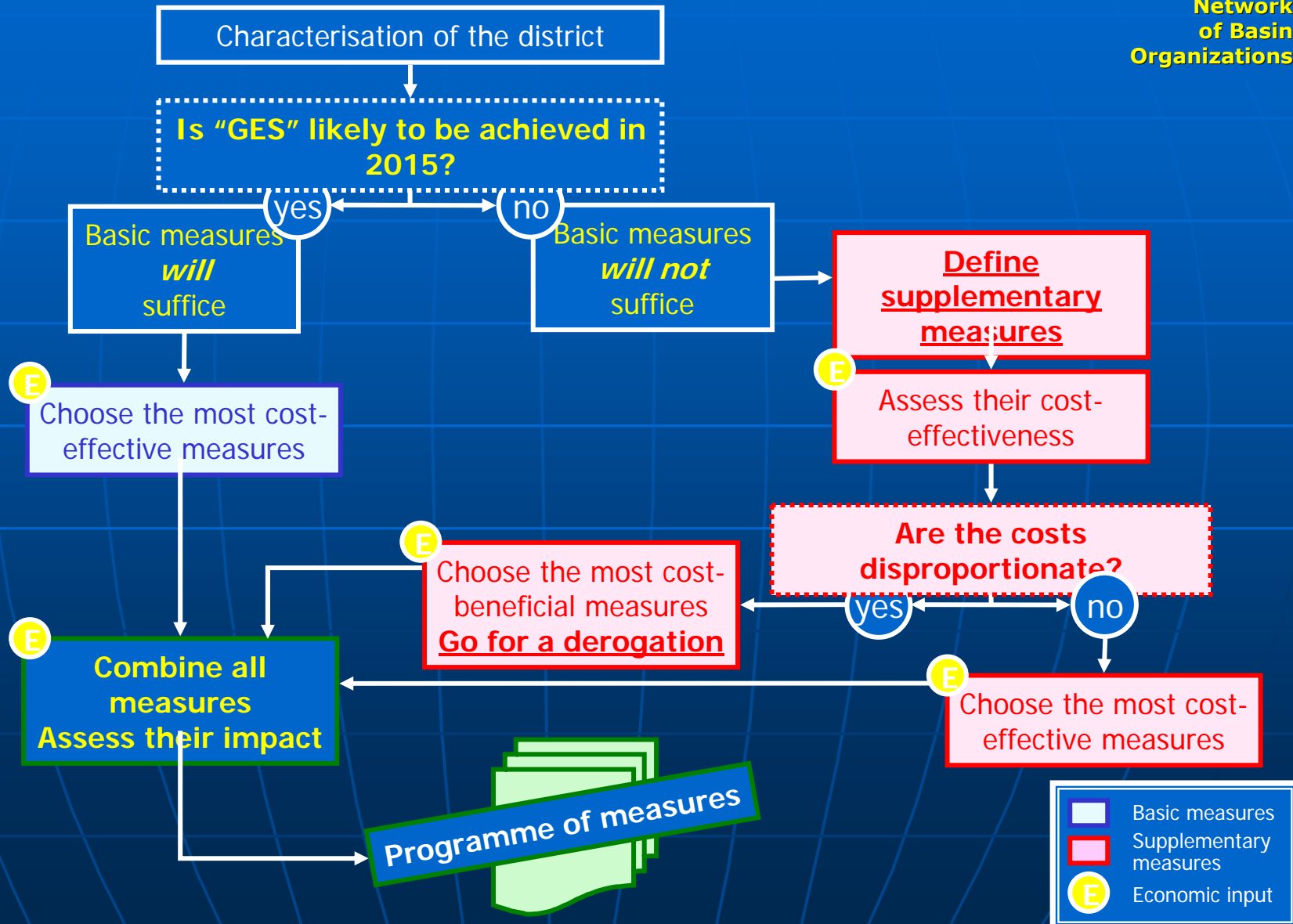


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FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES





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TRANSPARENCY OF COSTS AND POLLUTER-PAYS PRINCIPLE:



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Costs	Definition	Example
Direct cost	Capital costs	<i>Principal and interest, depreciation</i>
	Operating costs	<i>Wages, electricity, maintenance of equipment, analyses of the quality of water...</i>
Environmental cost	Costs of the damages to the environment caused by a given activity	<i>Contamination of an aquifer, destruction of wetlands...</i>
Resource cost	Value of the alternative foregone by choosing a particular activity (= opportunity costs)	<i>Cost of electricity that could have been produced if water would be available instead of being pumped for irrigation</i>

Sum = full cost -



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A PARTICIPATORY WORKING METHOD:



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**THE PREREQUISITE
TO REAL TRANSPARENCY
IS THE EFFECTIVE PARTICIPATION
OF THE PUBLIC,
THROUGH PLANNED
CONSULTATIONS
DURING THE WHOLE PROCESS.**



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WATER INFORMATION SYSTEMS

- **Integrated monitoring systems**
 - reliable, representative,
 - harmonized and easily accessible**should be organized in each District.**

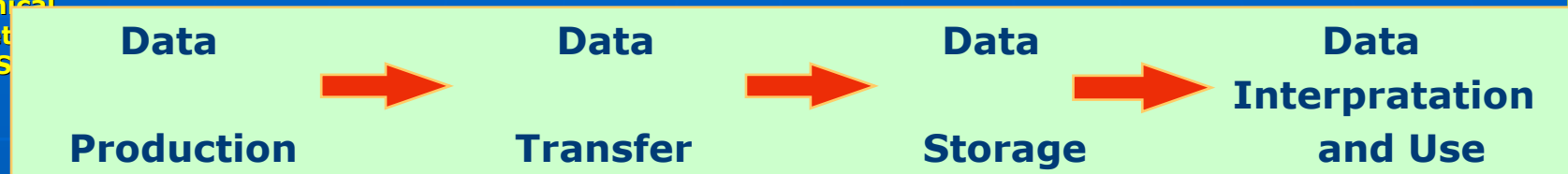


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COMPLEX INFORMATION SYSTEMS



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- measures
- withdrawals
- analyses
- location
- automatic
- on-line
- manual
- periodical
- Banks
- thematic
- geographic
- specialized
- general
- models
- expert systems
- warning
- telematic
- directories
- mapping
- assistance to decision-making
- publications

**INVESTMENT
AND
OPERATION**

AUTOMATIC WARNING OR OPERATION SYSTEMS - "SLOW" SYSTEMS FOR STATISTICS

WATER REPORT DOMAIN

- **Numerous producers hold data for their own needs**
- **Hardly accessible data**
- **Various themes: resources, uses, discharges, treatment plants, ecosystems, economy etc.**

➔ Need for coordinated data management :

- **To share informations and avoid redundancy**
- **To be able to transfer and synthesis the data**
- **To inform all water users, and increase public awarness**
- **To ensure the safeguard of a "data heritage"**
- **To highlight specific data and follow up water policy**



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KNOWN FACT : REAL DEMANDS



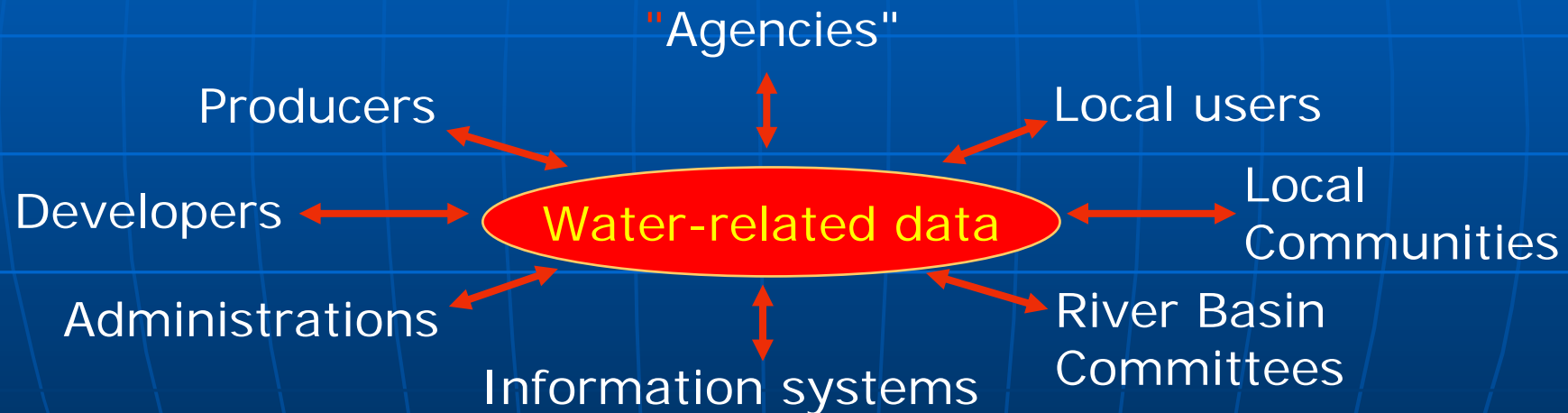
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for accessing the information:

at local, national and international levels, in order to

- conform with standards
- ensure a demand / resource balance
- control water supply and sanitation
- define and control water policy
- inform and communicate



for exchanges:

- between topics (various producers)
- between areas (administrative areas and river basins)



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ASSESSING WATER QUALITY:

*TODAY, THE SYSTEMS FOR ASSESSING WATER RESOURCES
AND FOR FORMULATING THE OBJECTIVES TO ACHIEVE
VARY CONSIDERABLY
FROM ONE COUNTRY TO ANOTHER.*

*

THE EU WF DIRECTIVE REQUIRES:

- **THE IDENTIFICATION OF "WATER BODIES",**
- **THE DEFINITION OF COMMON FRAMES OF REFERENCES.**



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ASSESSING WATER QUALITY:

■ **THE IDENTIFICATION OF 50,000 "WATER BODIES":**

- **River WB = 27 455**
- **Lake WB = 10 060**
- **Groundwater WB = 7 719**
- **HMWB/AWB = 5 783**

➤ **IN FRANCE:**

- **River WB = 3 522**
- **Lake WB = 471**
- **Groundwater WB = 539**
- **HMWB/AWB = 912**
- **Good Status = 984**
- **At Risk = 941**