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International
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Of Basin
Organizations

Office International de l'Eau

International Office for Water

Oficina Internacional del Agua

Международное бюро по водным ресурсам

المكتب الدولي للمياه

水资源国际办公室





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流域组织国际网

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



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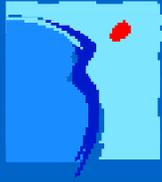
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Zaragoza, "Water Tribune"
09 de julio de 2008

Mr. Jean - François DONZIER
General Manager
International Office for Water
Permanent Technical Secretary

INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS



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



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INBO ACTION PLAN



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INBO OBJECTIVES ARE:

- to develop relations between 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 suitable tools 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.



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International Network of Basin Organisations, MEMBERS:



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- **“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** or 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.



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5th World Water Forum ISTANBUL 2009

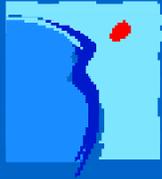
5th WORLD WATER FORUM
ISTANBUL 2009



BRIDGING
DIVIDES
FOR WATER



**INBO and UNESCO were designated jointly
for the preparation, animation and coordination of topic 3.1:
"Basin Management and Transboundary Cooperation".**



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4 questions were selected:



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What are the success and failures stories of hydro solidarity and IWRM at basin level?

How to organize and enable stakeholders participation ?

How can transboundary water resources be managed more sustainably by all the riparian countries concerned?

What are the tools to be used for better basin management and transboundary cooperation over surface and ground water ?

5th WORLD WATER FORUM
ISTANBUL 2009



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**International events are still planned in 2008
to prepare and promote the World Forum on this topic:**

- **in Solo, Indonesia, in February, with NARBO GM,**
- **in Tunis, Tunisia, in March, during the African Water Week,**
- **in Moscow, Russia, in June,**
- **in Saragossa, Spain, in July,**
- **in Montpellier, France, and Budapest, Hungary, in September,**
- **in Romania and in Japan in October,**
- **in Brazil in November...**

Please add your own events on the agenda.



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Global Water
Partnership



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***Joint GWP-INBO Handbook:
"How to apply IWRM approaches
at river, lake and aquifer basin levels"***





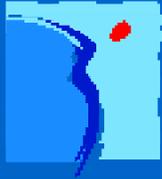
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water resources management should be organized:



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- 1) on the scale of local, national or transboundary basins of rivers, lakes and aquifers;**
- 2) based on integrated information systems, allowing knowledge on resources and their uses, polluting pressures, ecosystems and their functioning, the follow-up of their evolutions and risk assessment.**
- 3) based on management plans or master plans that define the medium and long-term objectives to be achieved;**



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water resources management should be organized:



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- 4) through the development of Programs of Measures and multiyear priority investments;**
- 5) with the mobilization of specific financial resources,
based on the « polluter pays » principle and « user pays » systems;**
- 6) with the participation in decision making of the concerned Governmental Administrations
and local Authorities, the representatives of different categories of users
and associations for environmental protection or of public interest.**



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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.

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.



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Implementation of
the UN Convention
for the international water courses management
in Europe
is also a major milestone for promoting the
principles of good governance advocated by
INBO.





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**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.**



**An overall approach should be organized
on the relevant scale
of basin areas of rivers, lakes and aquifers,**



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« UPSTREAM-DOWNSTREAM » COMMON CAUSE ON THE SCALE OF BASINS AND SUB-BASINS

**Sub-basin/Sector/
Water type**
element of district to deal
with particular aspects

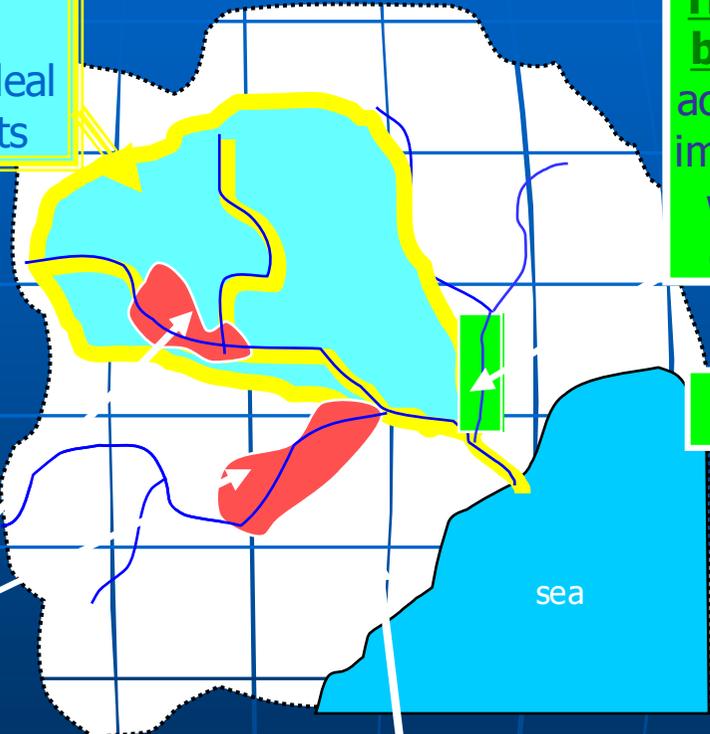
**Heavily modified water
bodies (HMWB):** human
activity carried out makes it
impossible to reach the goal
without disproportionate
costs (change activity...)

⇒ *no link with pollution*

THE DIFFERENT HYDROLOGICAL SCALES:

Water bodies
scale of evaluation
of the achievement
of the objectives

District =
river basins + associated
groundwaters and coastal waters



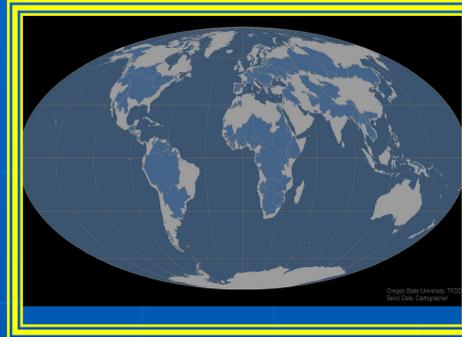


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TWO HUNDRED AND SIXTY THREE RIVERS OR LAKES AND HUNDREDS OF AQUIFERS ARE TRANSBOUNDARY ONES



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Transboundary basins per continent.

	2002	Pourcentage du territoire
<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 %
TOTAL	263	45 %



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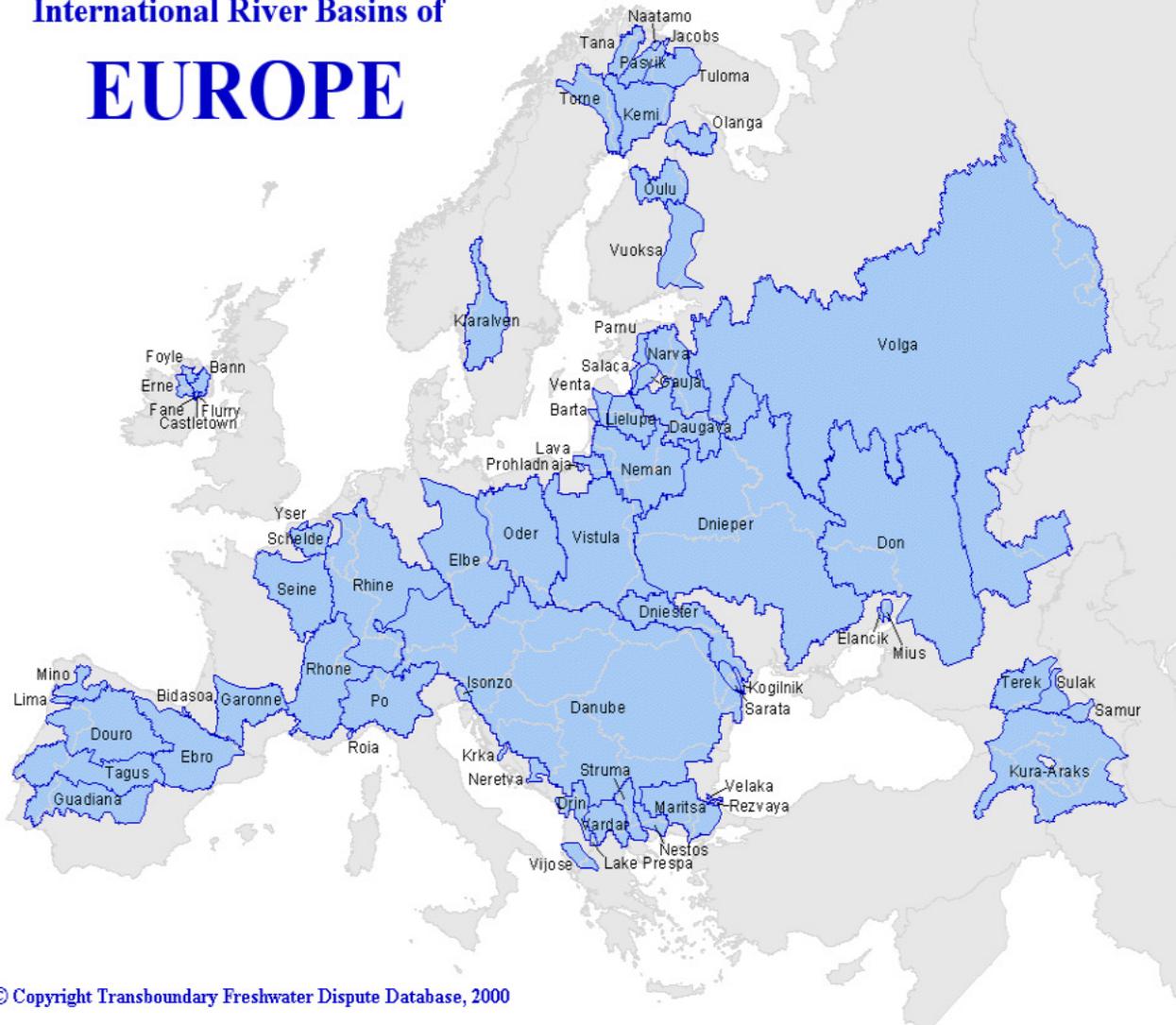
In Europe a majority of basins are transboundary ones!



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International River Basins of

EUROPE



© Copyright Transboundary Freshwater Dispute Database, 2000

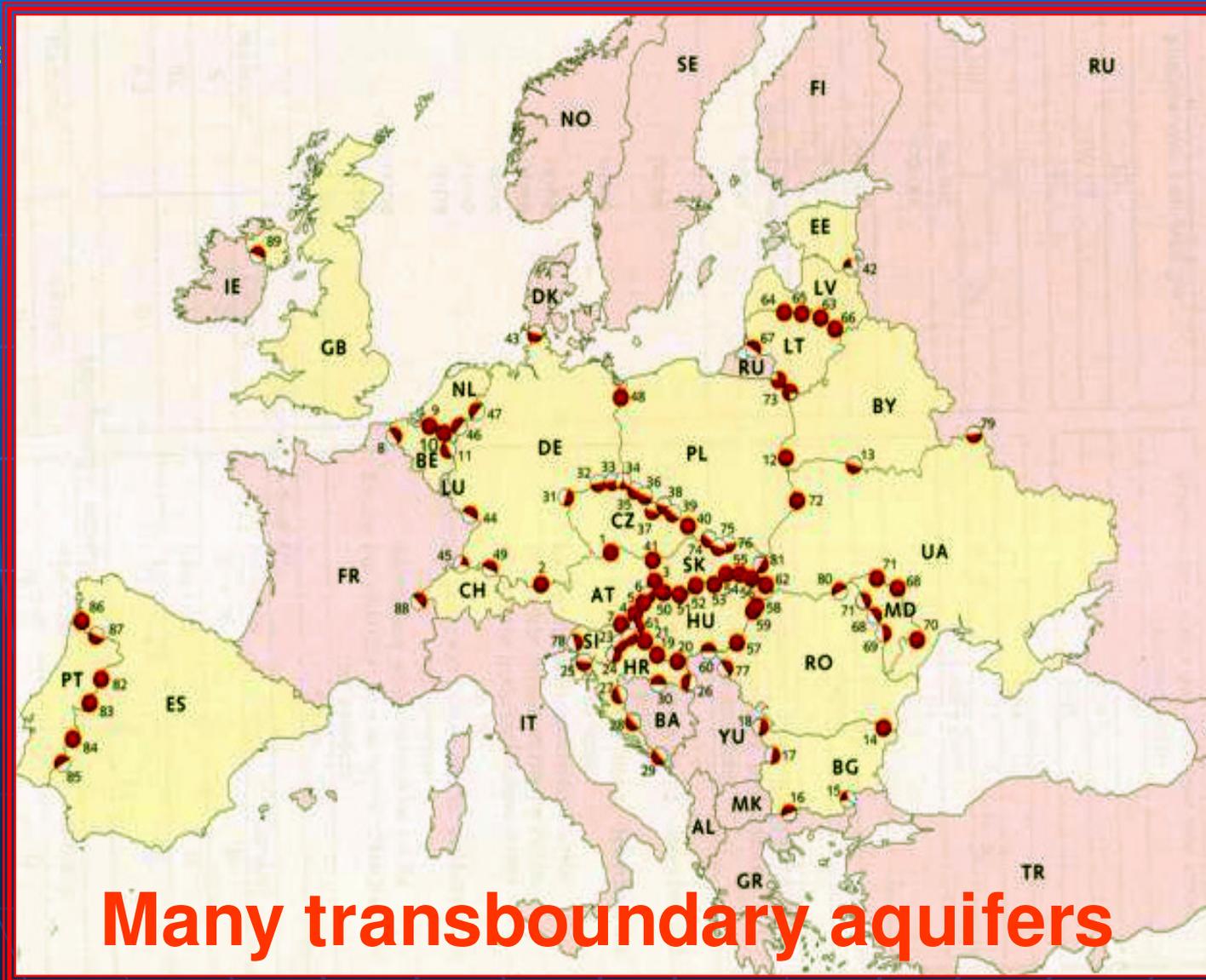


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The aquifers in Europe are also concerned:



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**IN NOTHERN AFRICA
THE MAIN AQUIFERS
ARE SHARED**



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*EX: the Algerian hydrological basin Agency
of the Sahara is mainly concerned by their management.*

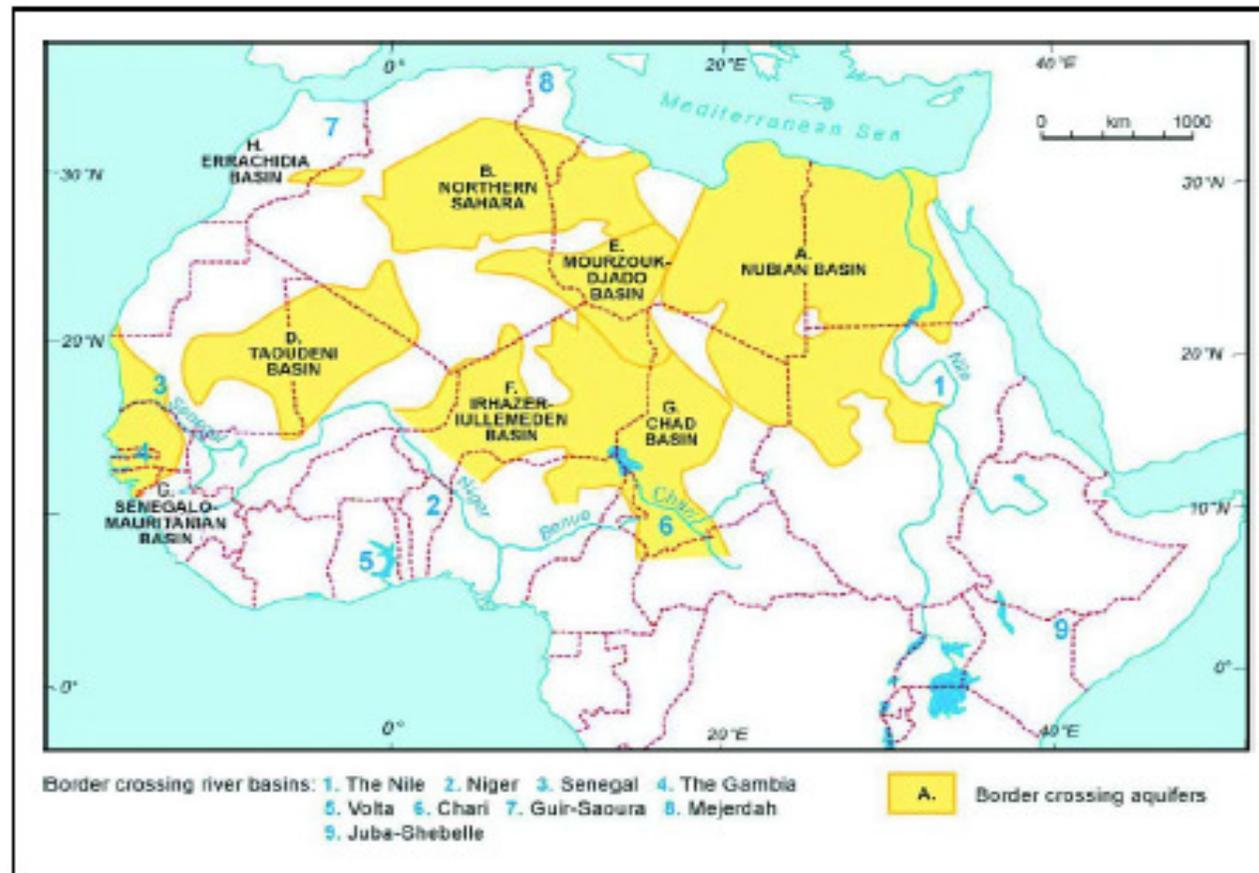


FIGURE 1. Transboundary aquifers in N Africa



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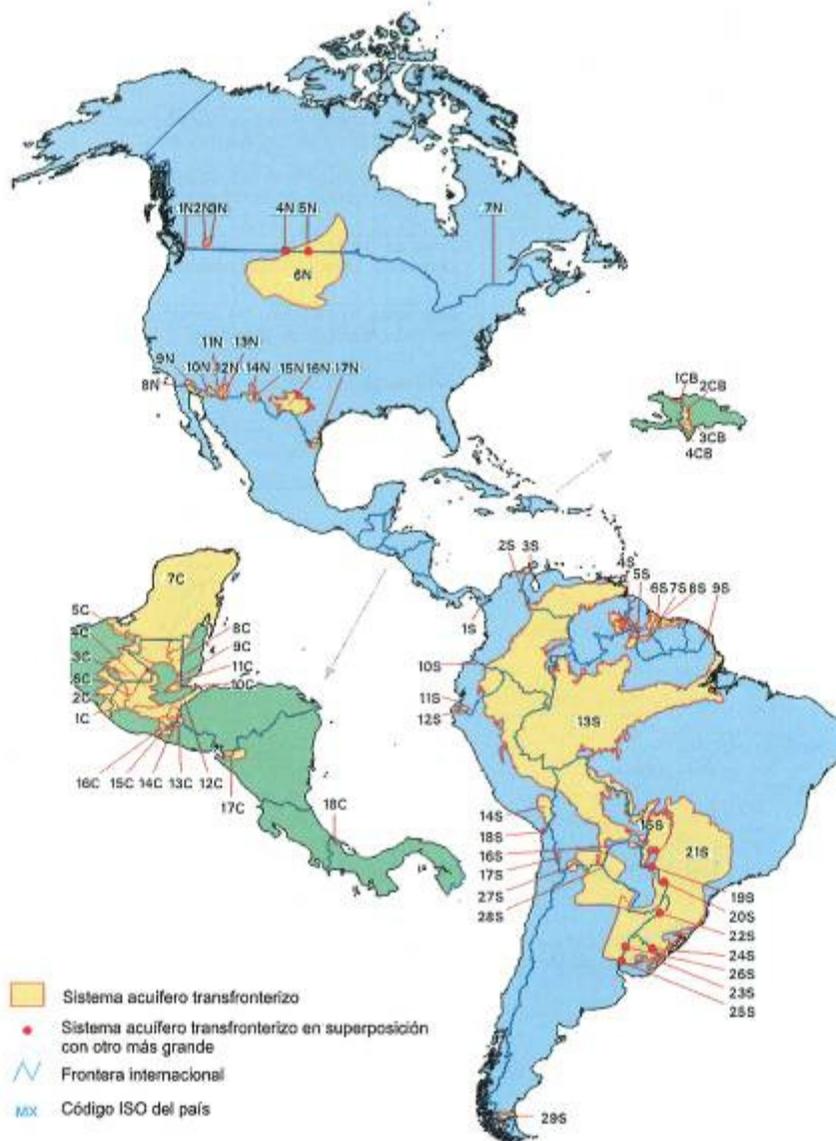


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Sistemas Acuíferos Transfronterizos de las Américas



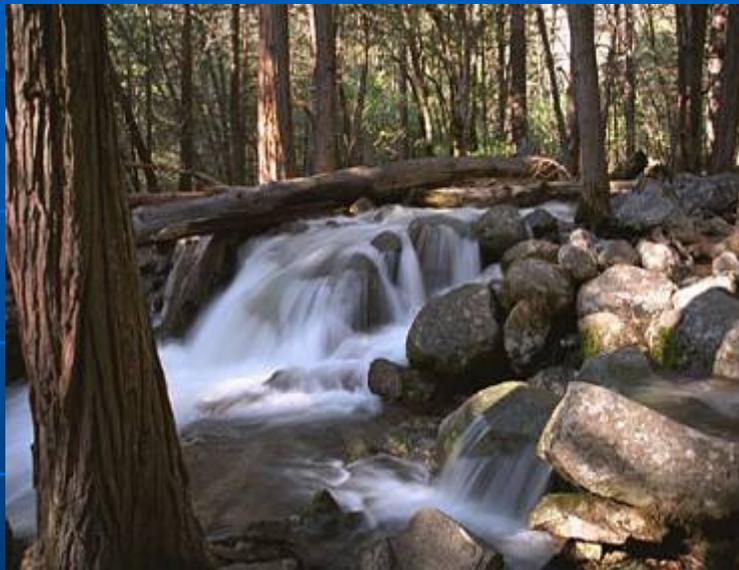


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All kinds of water Are taken into consideration



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- * surface waters
- * groundwater



- * transitional water
- * coastal waters...



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IWRM



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NOT ONLY WATER ALLOCATION BETWEEN SECTORS,

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



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IWRM CONCERNS

ALL MAJOR WATER USES



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hydropower

Industrial use
• abstraction
• discharges

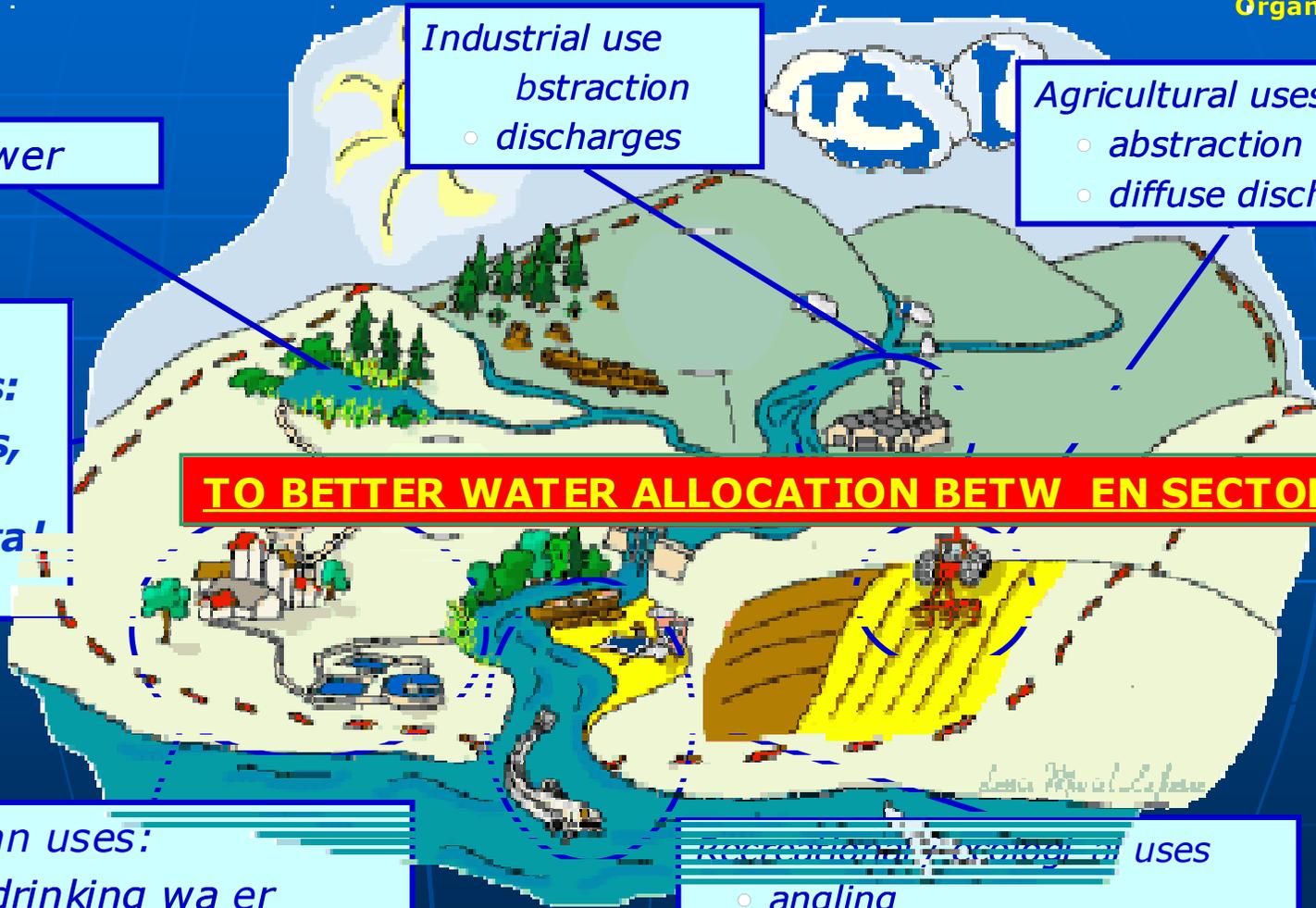
Agricultural uses
• abstraction
• diffuse discharges

■ Conservation of ecosystems:
■ rivers, lakes, wetlands, aquifers, coastal areas,

TO BETTER WATER ALLOCATION BETW EN SECTORS,

Urban uses:
• drinking water supply
• wastewater treatment

Recreational / ecological uses
• angling
• bathing...



Source: Ministry of the environment,
Québec, Canada



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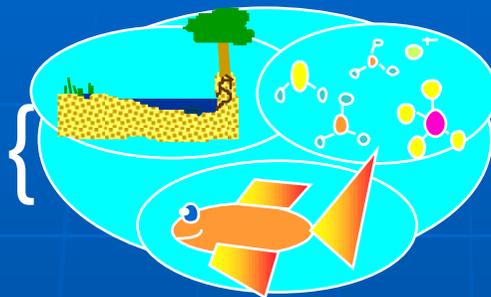


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Ecological objectives

Ecological status

No or
minimal



HIGH

Slight



GOOD

Moderate



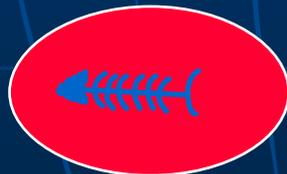
MODERATE

Major



POOR

Severe



BAD



Non-deterioration



Courtesy Peter Pollard



Global warming cannot now be avoided.

Fresh water resources

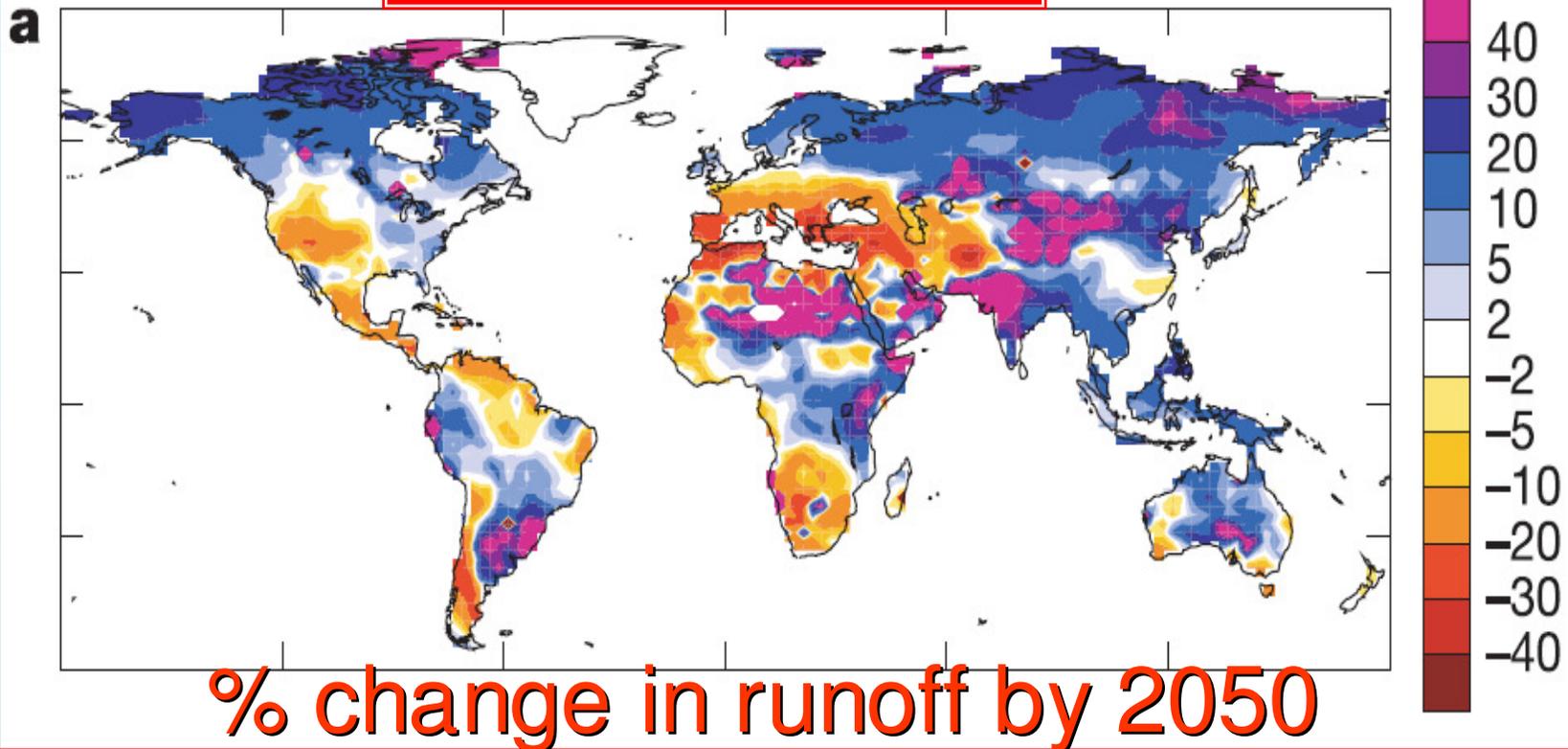
will be directly affected in the coming years!



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water availability



- Many of the major “food-bowls” of the world are projected to become significantly drier
- Globally there will be more precipitation
- Higher temperatures will tend to reduce run off
- A few important areas drier (Mediterranean, southern South America, northern Brazil, west and south Africa)



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INTEGRATED FLOOD CONTROL: FORECAST, PREVENTION, PROTECTION

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



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WITH REGARD TO DROUGHTS:



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- WATER SAVING,
- AVOIDING WASTAGES,
- LEAK DETECTION,
- RECYCLING,
- THE REUSE OF TREATED WASTE WATER,
- GROUNDWATER RECHARGE,
- THE DESALINATION OF SEA WATER,
- RESEARCH ON LOW-CONSUMPTION USES...

... MUST BECOME PRIORITIES.



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DEFINING ROLES AND RESPONSIBILITIES OF EACH:



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- **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,

- 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



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INTEGRATED WATER RESOURCE MANAGEMENT :



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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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GENERAL ASSEMBLY

The Martinique, 24 – 28 January 2004

« DECLARATION OF TROIS-ILETS »



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- 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.



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Partnerships

185 000 km²
50 millions inhabitants

The Rhin : an international river basin district (WFD, art 3.3)

9 States involved

Austria
Belgium
France
Germany
Italy
Liechtenstein
Luxemburg
Switzerland
The Netherlands



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



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BASIN ORGANIZATIONS AND IWRM



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According to the needs, local situations and history,

- Various formulas were adopted to organize some of the functions useful for water management,
- at the level of the basins, there is a great diversity in the mandates and selected options.
- One can mention:



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DIFFERENT TYPES OF BASIN ORGANIZATIONS:



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- **Administrative Commissions, with or without permanent secretariat,** in which mainly participate representatives of the « ministries » concerned to coordinate their various projects on the same river or aquifer, to exchange information or data, formalized or not, on emergency situations in particular, to define common rules (navigation, etc.), and whenever necessary, to allocate the available resources between the categories of uses, the countries or regions, especially in periods of crisis or when regulation structures do exist, etc.,
- **Arbitration « Authorities »,** to which the interested « parties » refer for decision-making on the conflicts which arise; this is the case of the **Joint International Commission** (IJC) between the USA and Canada, for example.



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DIFFERENT TYPES OF BASIN ORGANIZATIONS:



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- **Organizations taking charge of contracting large structuring or combined installations;**

this is the case for navigation, flood control, the building of reservoirs, especially for irrigation, hydropower production, etc.

These organizations, often created as public or private « companies » have usually the concession of community facilities for which they are responsible for their construction and long-term management, generally for providing services, raw water or by levying specific taxes.

- **« Agencies »**, which are in charge of carrying out tasks for medium-term planning and for collecting taxes on abstractions and discharges to finance or support the investments necessary for achieving the set objectives. In some cases, they can also be responsible for water policing, studies, data production or collection, etc.



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DIFFERENT TYPES OF BASIN ORGANIZATIONS:

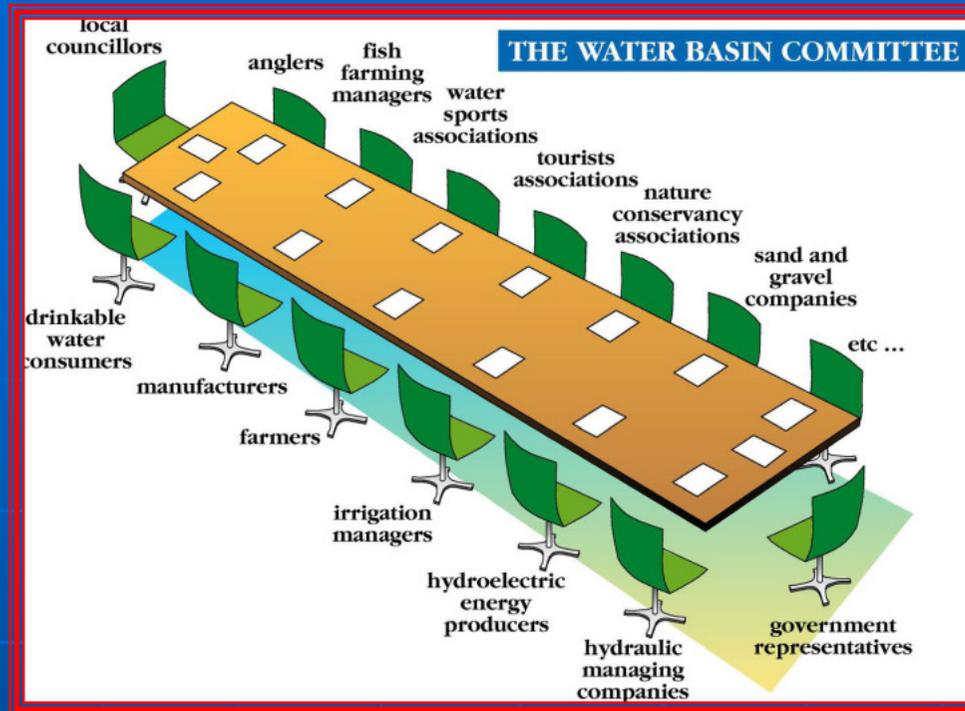


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- « Basin Committees or Councils », which gather, at the side of administrations, representatives of local authorities, economic sectors using water, the civil society, etc. They can be advisory or decisional, especially regarding planning, the definition of taxes, the allocation of available resources, etc.
- « Associations, unions or consortiums », of local authorities, users or NGOs, which are often spontaneously organized to solve a common problem or to have some influence in water management.
- « Projects », which are usually temporary for specifically implementing and action plan with specific financing.



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- 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,



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Conflicts

requirements collected
from each point of view



Designing a program
through **dialogue**



Reaching **agreement**
with an ambitious program



Inter
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Integrated information and monitoring systems



International

The National Water Commission

- Allows consistency at national level,
- Defines policy directives,
- Deals with inter-basin strategies and national security.

The Basin Organizations

- Prepare the basin plan,
- Manage the national waters in the basin,
- Coordinate integrated management,
- Harmonize specific actions,
- Facilitate and assist in the involvement of the society through the Basin Council Assembly.

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



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GENERAL ASSEMBLY

The Martinique, 24 – 28 January 2004

« DECLARATION OF TROIS-ILETS »



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- 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.

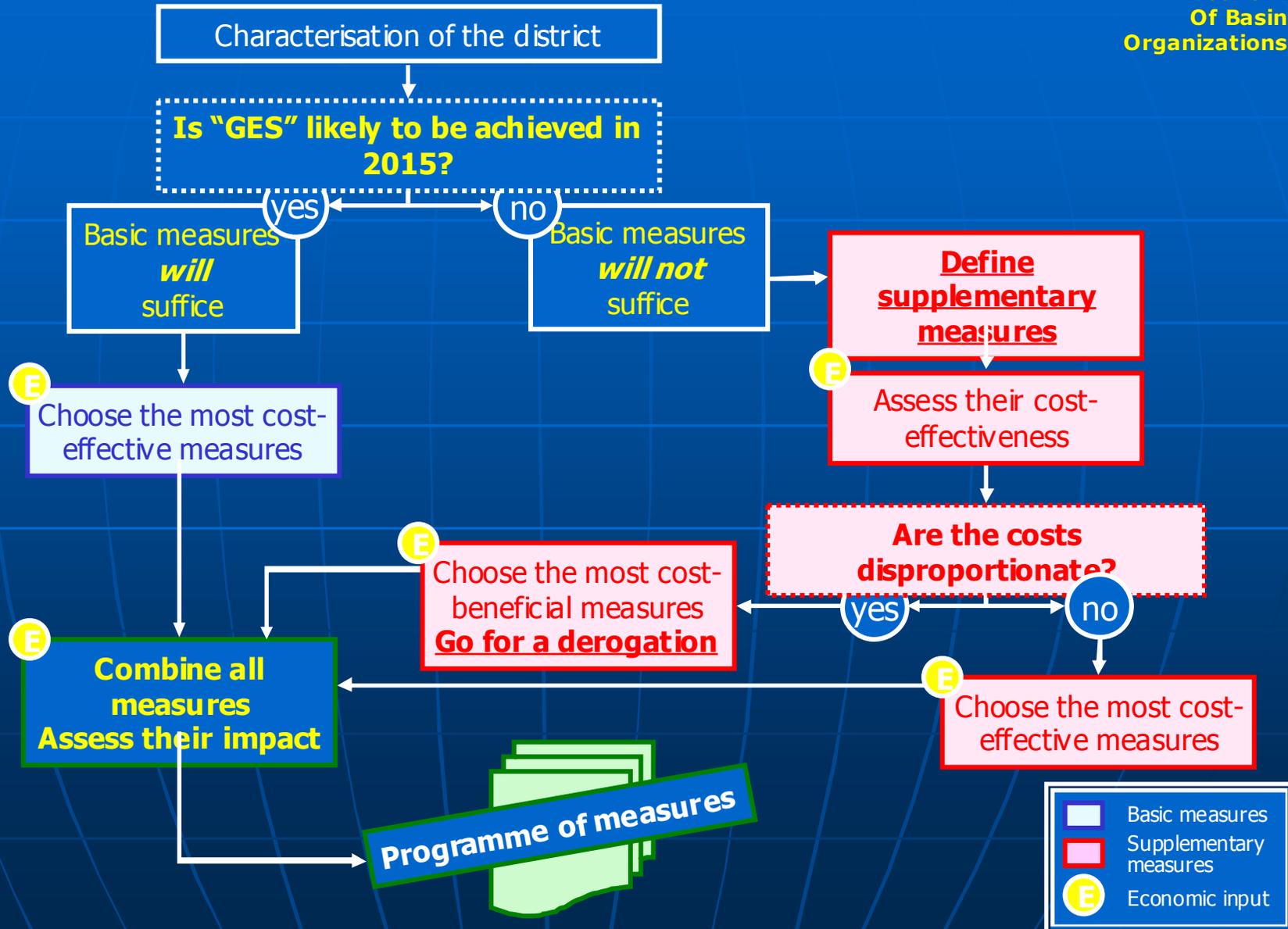


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FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES



	Basic measures
	Supplementary measures
	Economic input



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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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THE « POLLUTER - USER – PAYS » PRINCIPLE

**Abstraction
taxes**

**Pollution
taxes**

**The Water Agency's Budget
adopted by the Board of Directors
with approval of the Basin Committee**

10 % ↓

Studies & Research

Operation

Measurement networks

90 % ↓

Aid = 5-year Program

Big developers

Local authorities

Farmers

Industrialists



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23 October 2000



**The European Framework Directive:
the future of water resource management
In the European Union.**



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The European Water Framework Directive



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VERY AMBITIOUS CHALLENGES:

- **PREVENTING THE DETERIORATION
OF WATER RESOURCES,**
- **REDUCING THE EMISSIONS OF SUBSTANCES,**
- **ACHIEVING A "GOOD STATUS"
FOR WATER AND AQUATIC ENVIRONMENTS.**



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As everything is linked in each Water Body,
for a real implémentation of the WFD,



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it's important to take into account:

- not only the problems of quality of water and the environments,
- **BUT**, all the aspects of water management and their impacts,
- **AND**, in particular, obvious interfaces with navigation, energy production, the prevention and protection against floods and droughts,



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ASSESSING WATER QUALITY:



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

*

THE DIRECTIVE REQUIRES:

- **THE IDENTIFICATION OF "WATER BODIES",**
As the scale of evaluation of the achievement of the objectives,
- **THE DEFINITION OF COMMON FRAMES OF REFERENCES.**

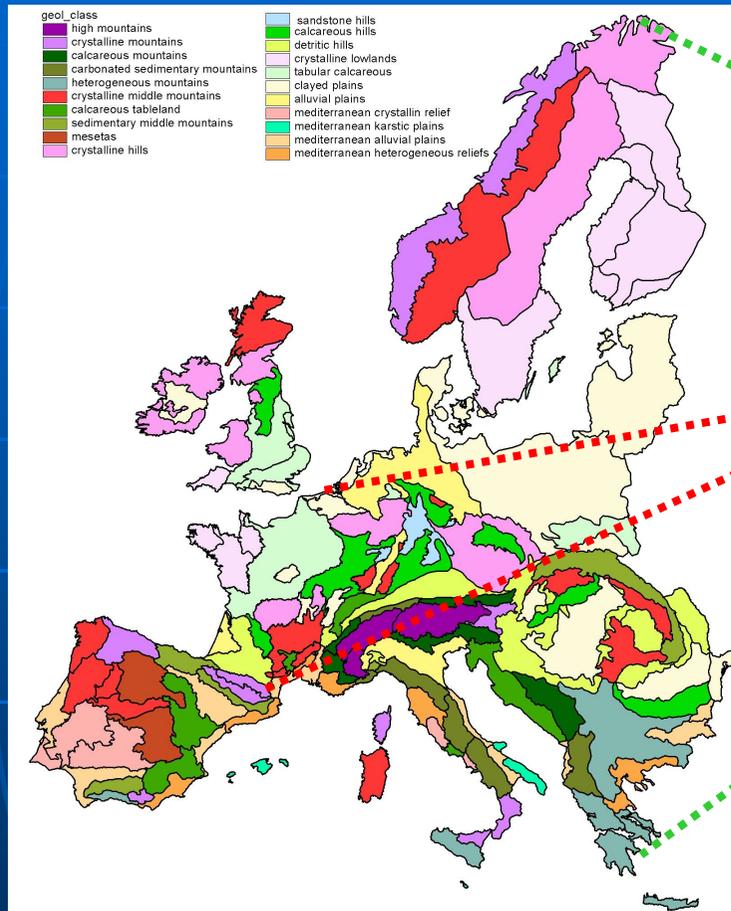


Integrated information and monitoring systems



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



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ASSESSING WATER QUALITY:



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A typology of water bodies:
European Hydro - ecoregions

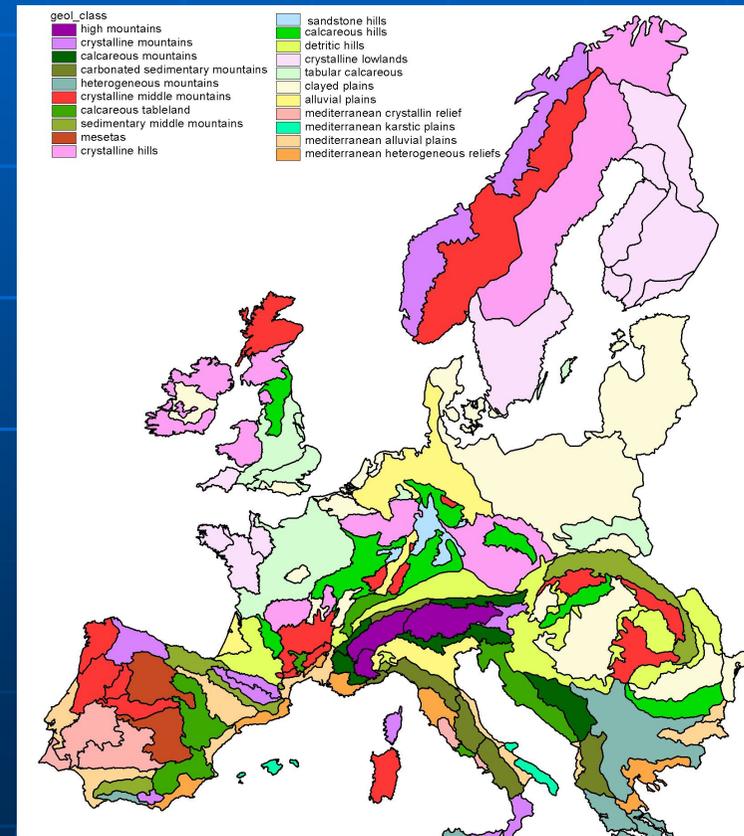
In Europe,

50,000 "WATER BODIES" have been identified:

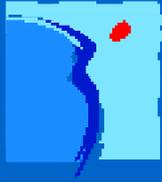
- River WB = 27 455
- Lake WB = 10 060
- Groundwater WB = 7 719
- HMWB/AWB = 5 783

➤ **IN FRANCE :**

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



THE DEFINITION OF COMMON FRAMES OF REFERENCES.



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the European Water Framework Directive



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■ **FOR EACH DISTRICT,**

MUST BE FORMULATED:

➤ A **"MANAGEMENT PLANS",**

DEFINING THE OBJECTIVES TO ACHIEVE,

AND

➤ **"PROGRAMS OF MEASURES",**

DEFINING THE NECESSARY ACTIONS.



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The WFD introduces an obligation of results:



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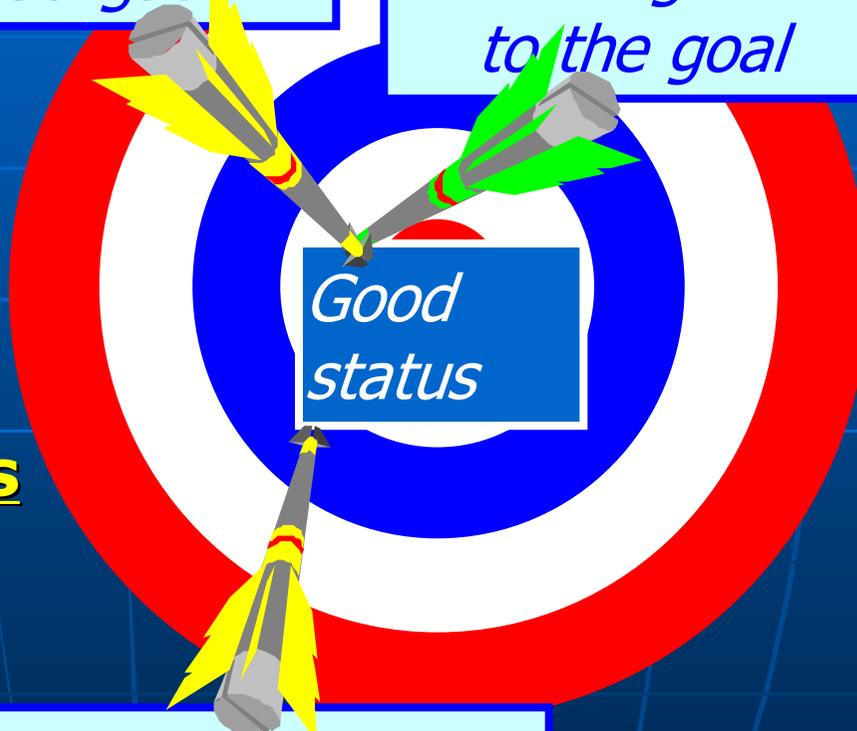
*General
obligation*

*Actions defined
with regards
to the goal*

*Good
status*

*Derogations to be
justified*

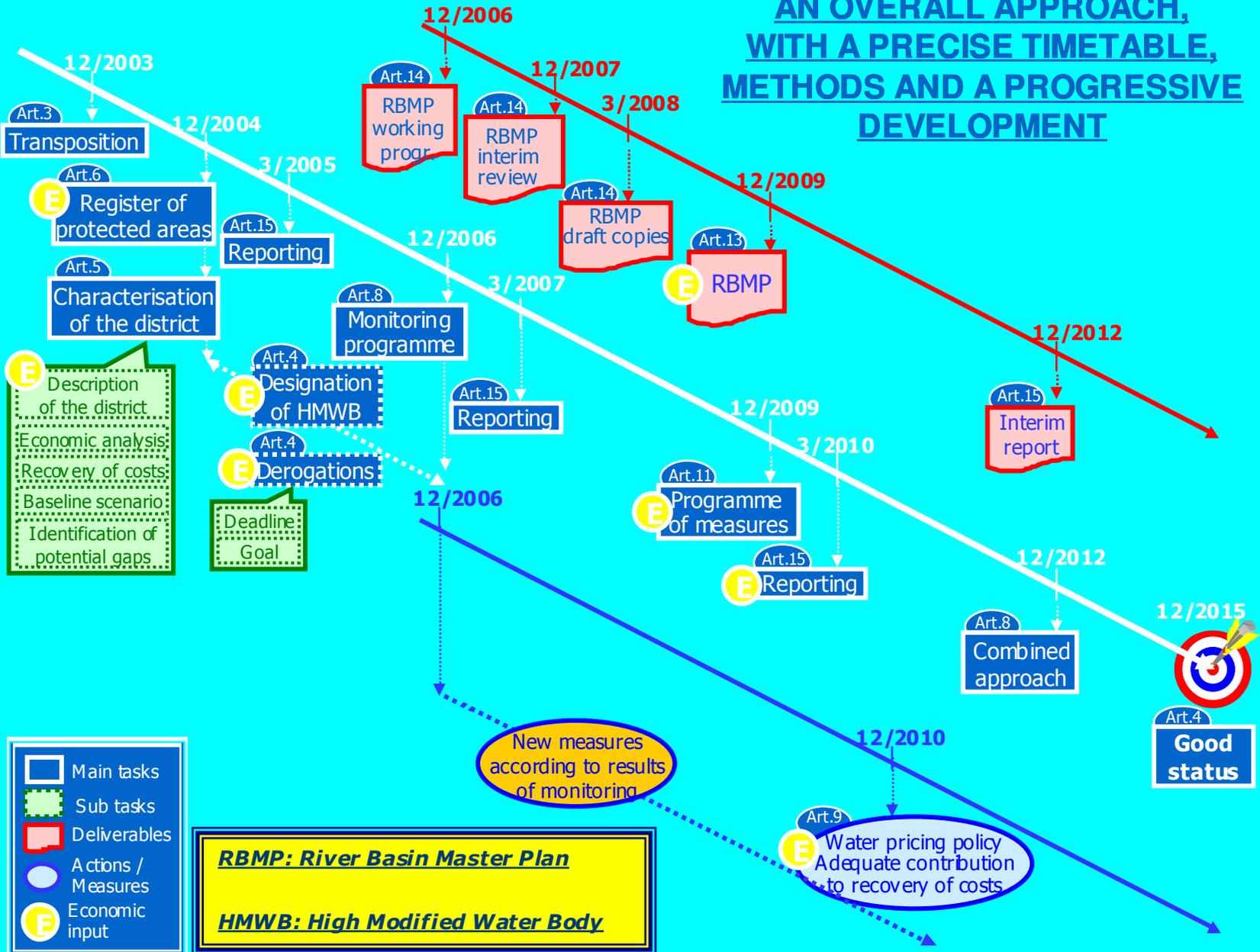
**Achieving
a "good status"
for surface
and ground waters
before 2015**





Permanent
Technical
Secretariat
PARIS

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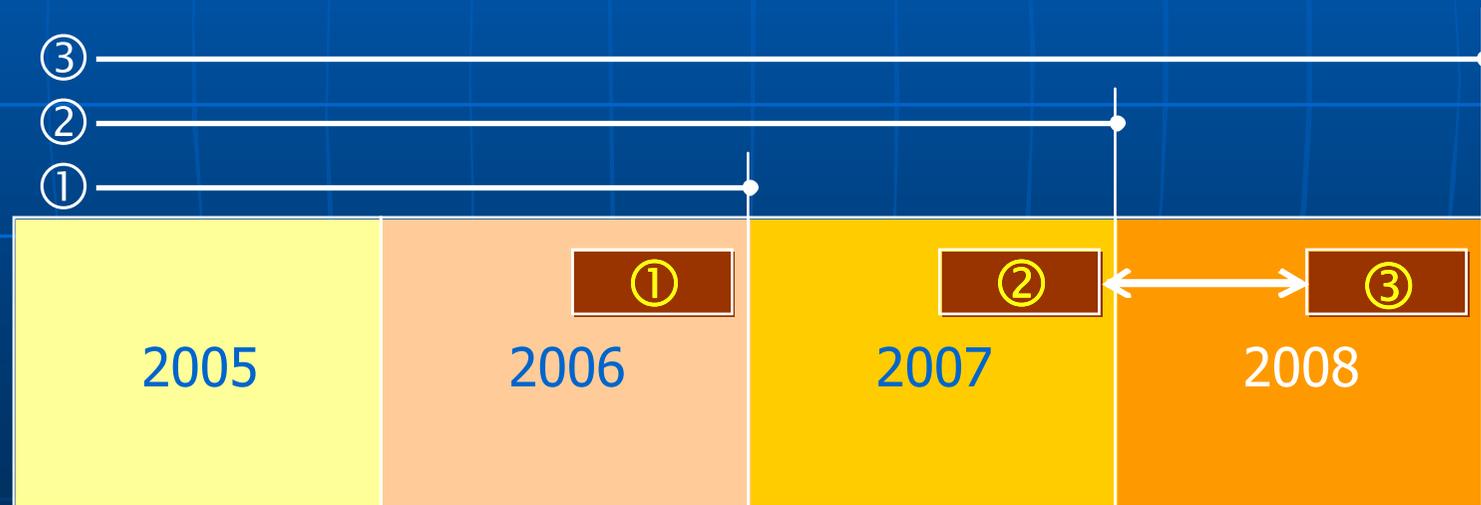


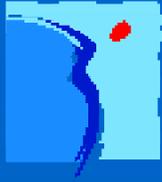


Obligations of the directive

Member States have to consult the public on :

- ① the timetable and work programme,
- ② an overview of the significant water issues identified in each river basin
- ③ draft of the river basin management plan



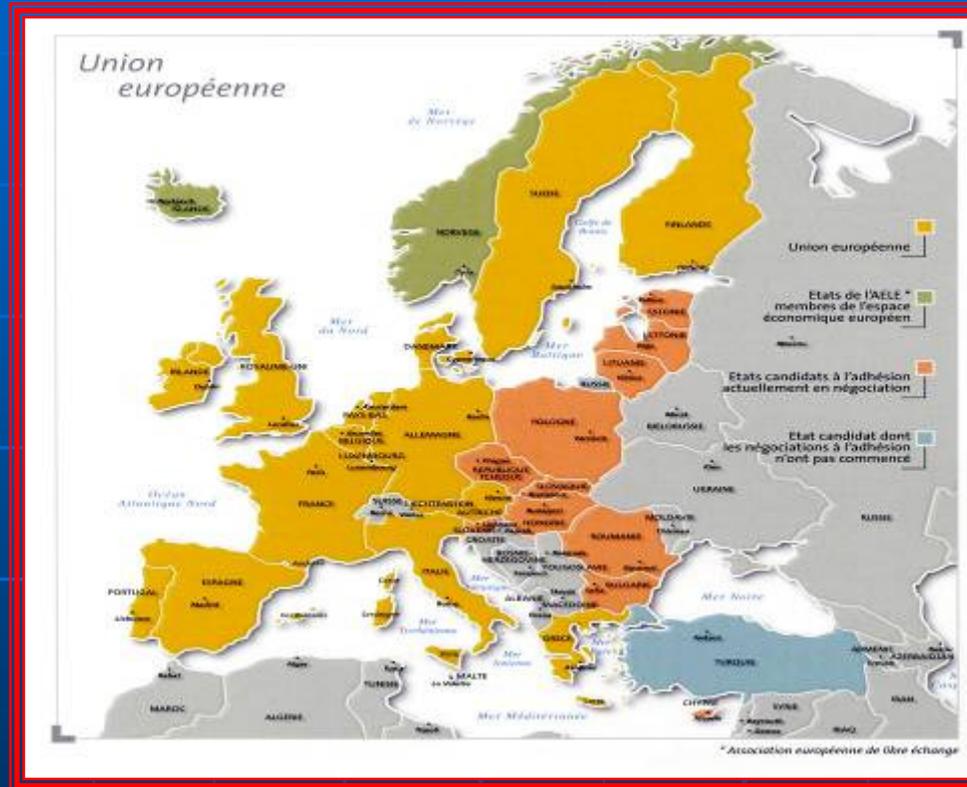


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→ OUR MAIN CHALLENGE: integration of new Member – States 12 now, 14 or more in the next future?



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In Europe, for the first time in the world,
27 countries adopted
The same water management approach!

French Ministry of Ecology + OIEau/ IOWater + French Water Agencies 17 PHARE TWINNING CONTRACTS IN CEE



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Implementation of the WFD in Poland: Six main topics.



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**B1: Economic
issues in planning
process**

**B2:
Methodological
planning issues**

**E: Improvement of
the international
co-operation
between cross-
border water
boards**

**B3: Technical
issues**

**650 Working
days in Poland**

171 Missions

**D: process of
public
participation
in elaboration
of river basin
management
plans**

52 Experts

**C: principle of
costs recovery of
water services
into water pricing
policies**



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INBO ACTION PLAN



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**The “Twin Basins project”,
supported by the European Union:**

At the moment 37 twinning have been signed.

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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- ✓ **5 calls from 2005 to 2007**
- ✓ **43 supported Twinnings**
- ✓ **150 missions**
- ✓ **70 Basin Organisations in 42 countries**

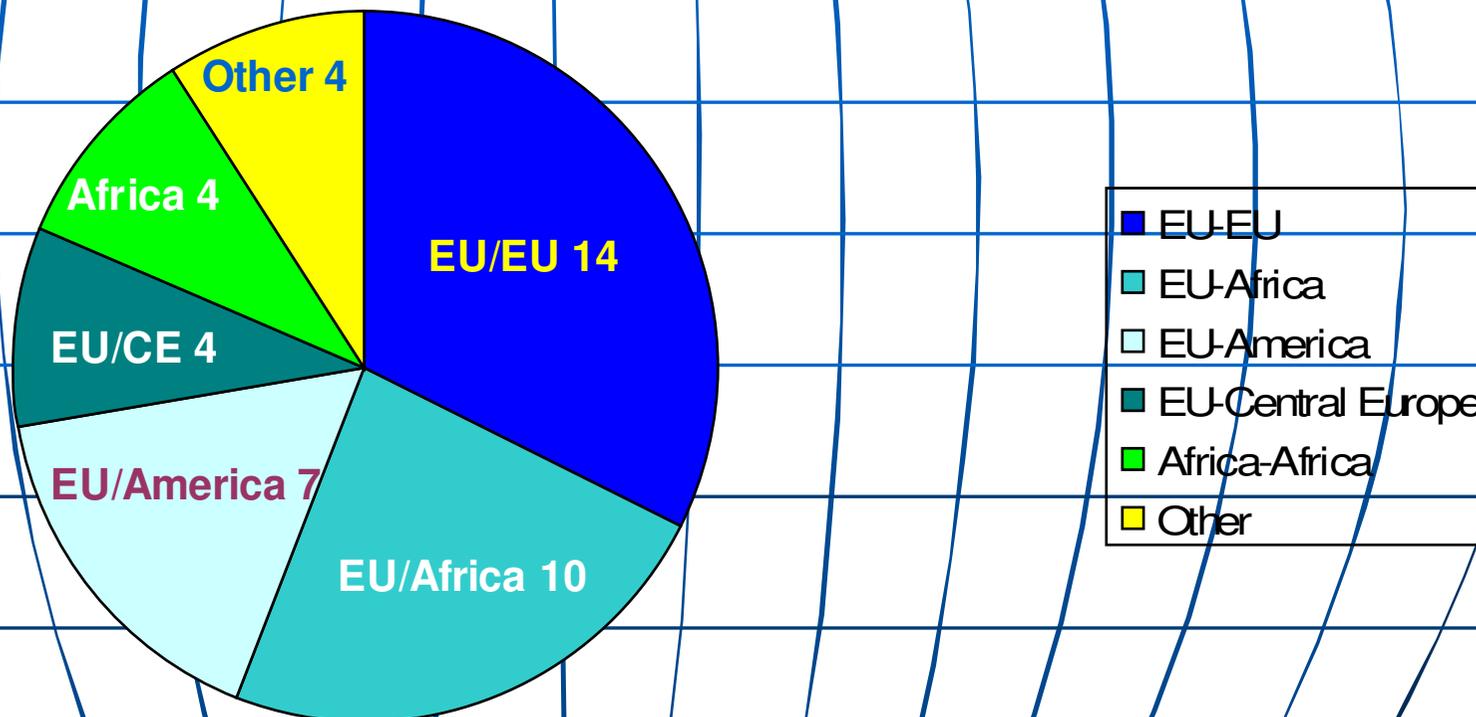


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The twinning are ...



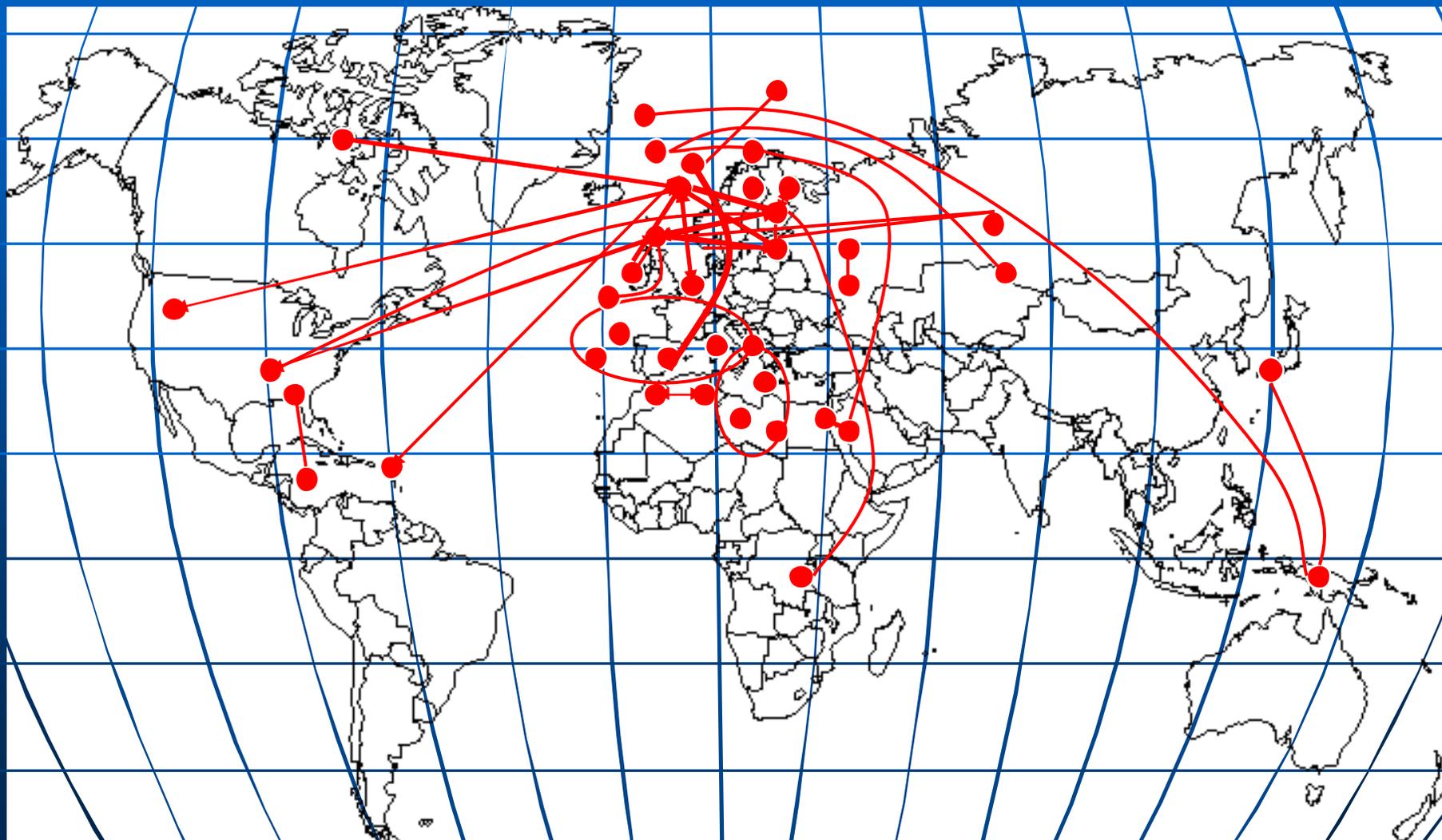


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✓43 supported Twinnings



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ACHIEVEMENTS

Thematic Twinning 1/2

- **WFD implementation**
- **Institutional aspects**
- **Hydrobiology & hydrology**
- **Information system**
- **Participation: civil society, stakeholders**



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ACHIEVEMENTS

Thematic Twinning 2/2

- Master plan
- Monitoring networks, quality or quantity
- Economical aspects: pricing, cost recovering
- Coastal waters' management
- Basin valorisation by tourism



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A TWINNING AGREEMENT SHOULD BE REALISTIC:



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- ❑ **Restricted to some very specific topics for effective cooperation ... and not aiming at the whole of IWRM in a theoretical manner !**
- ❑ **Targeting the medium term (3 or 5 years) ... there will not be any immediate results**
- ❑ **Defining an achievable program ... therefore useful actions in limited number**
- ❑ **Securing the human and financial means required.**



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... About Twinning?

- **Similitude between twin BOs is preferable:**
same major characteristics, same climate,
or same problems (e.g. coastal management
in Crete Island and Bulgaria, Congo/Niger)



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... About Twinning

- **Exchanges of Staff is often the most profitable (Heads stay home)**
- **Add value of “multi twinning”**
 - **Romania-Spain + Romania-France**
 - **Bulgaria-France + Bulgaria-Greece**
 - **Sweden- Nicaragua – Peru – Uruguay**



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... About Twinning?

- **Success of TW depends on quality of preparation before missions:**
clear agenda and objectives,
targeted topics,
...according to the status of the basin and BO
- **Involvement of high level from the beginning to ensure decision-makings afterwards**



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... About Twinning?

- **Communication : key aspect for success**
 - Dissemination/information flow after mission: workshops/meetings, notes, etc...
in RBO among various departments
 - **Communication between missions among Twinners**
 - Use of existing networks : e.g. ANBO, MENBO, CEENBO



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...About Content?

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□ Concrete results:

- **Setting up hand book for cost recovering in Morocco**
- **Elaboration of documents for monitoring withdrawals (regulation on declaration, model of bill, communication plan in Algeria)**
- **Elaboration of flood management plan in Nigeria with support of Ghana ...**



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THE SIGNING OF A TWINNING AGREEMENT IS NOT AN END IN ITSELF

?



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**TWINNING ARRANGEMENTS
SHOULD NOT LEAD TO
TECHNICAL
AND ADMINISTRATIVE
TOURISM**





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THE TWINNED BASIN ORGANIZATIONS SHOULD HAVE:



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- Their own legal existence (legal status)**

and not be “projects” or “services”

- Means**

 - Human:**

 - ↗ technical and administrative staff

 - ↗ political decision-makers

 - ↗ socioeconomic representatives

 - Financial:**

 - ↓ travels

 - ↓ welcoming/visits

 - ↓ experts' assignments

- A true will of working together !**



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On these conditions,

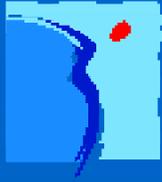
TWINNING ARRANGEMENTS

ARE USEFUL AND EFFICIENT MEANS

TO SUPPORT

THE DEVELOPMENT

OF BASIN ORGANIZAITONS



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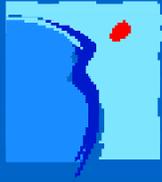


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□ Output 2:

➤ 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,



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□ 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 ...

PHARE PROJECT

"Pilot Project for the creation of a basin Information System in Poland"

- **Sponsoring: EU/ French Ministry for Foreign Affairs,
Polish Ministry for Environmental Protection**
- **Duration: 18 months,**
- **Beginning January 1996.**
- **Geographical location: RZGW of Gdansk**
- **Project priority topic:
Surface water quality / Data comparability.**

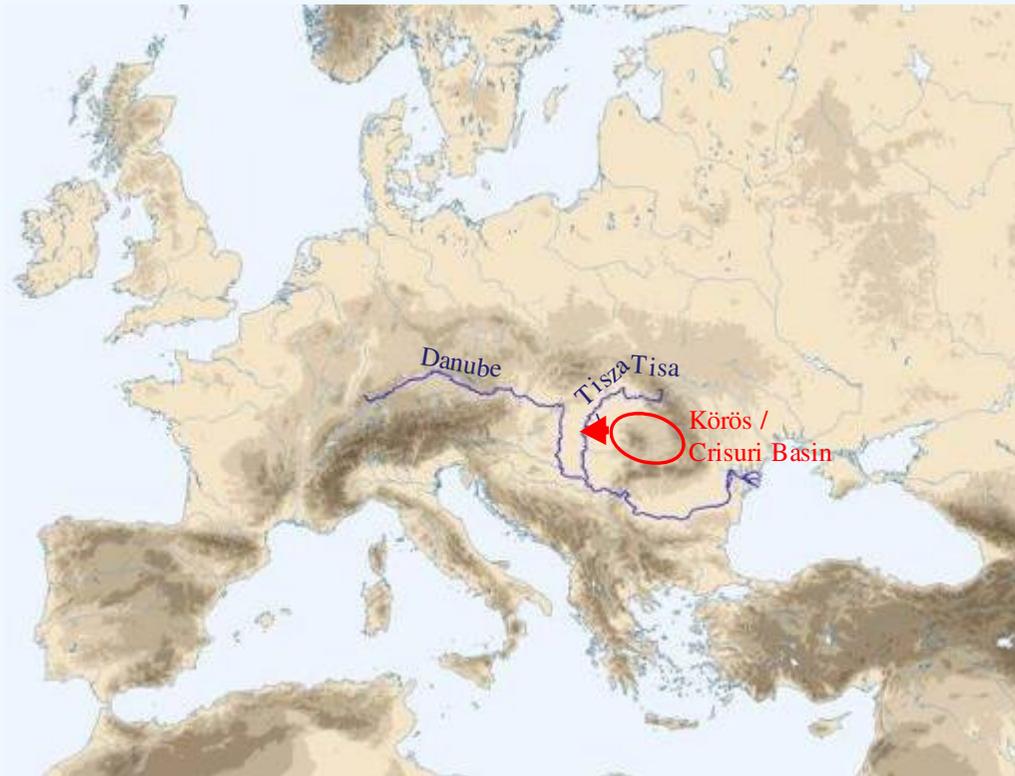
Organization of the partners network,

Harmonizing and standardizing Works,

***Setting-up of the Gdansk RZGW information system
on surface water quality (RZGW, 4 IMGW and 9 WIOS).***



French Global
Environment Facility



Transboundary River Basin Management

of the Körös/Crisuri River Project,

Hungary - Romania

Pilot project including tool set-up for the shared control and management
of the river Basin

2 National WFD implementation strategy

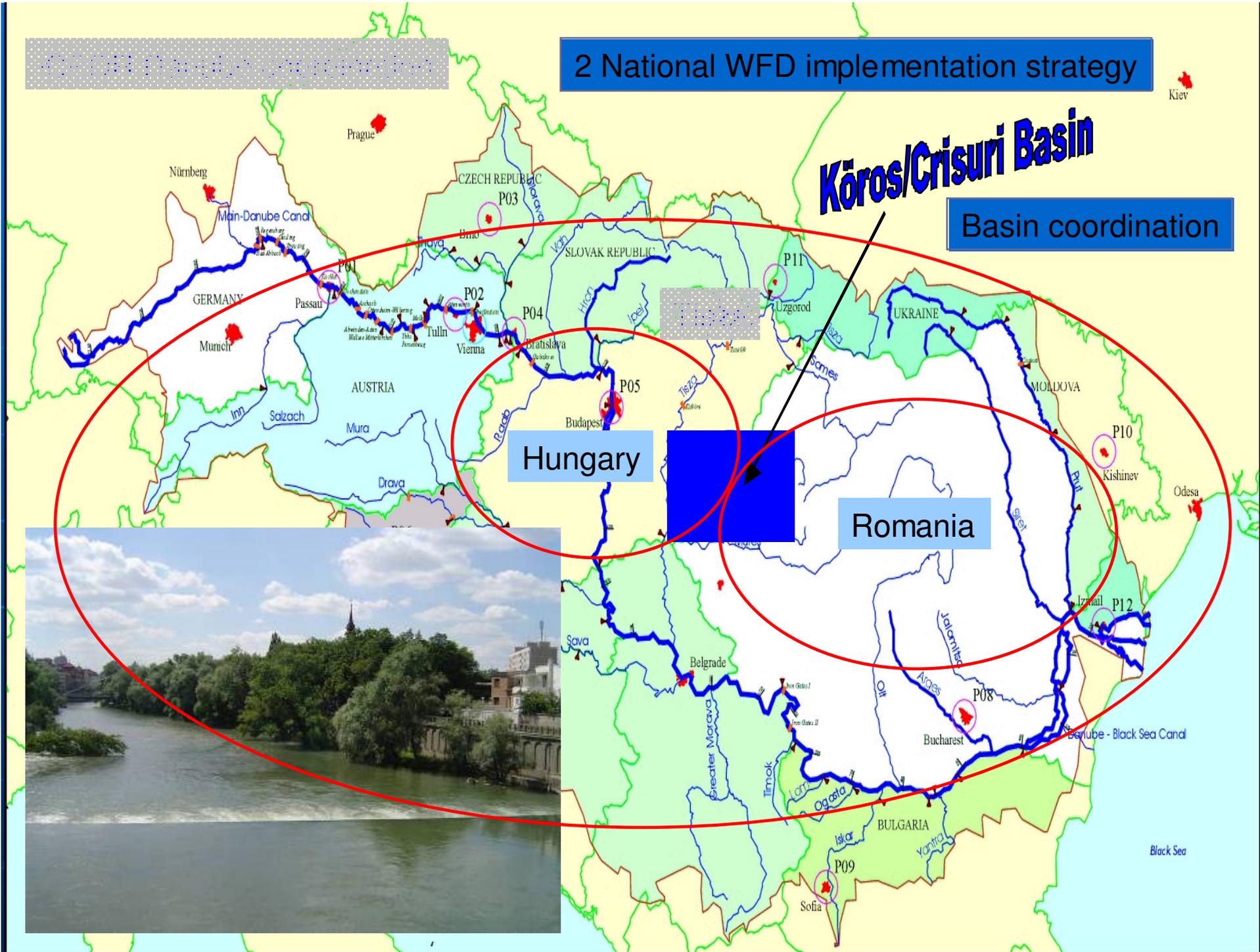
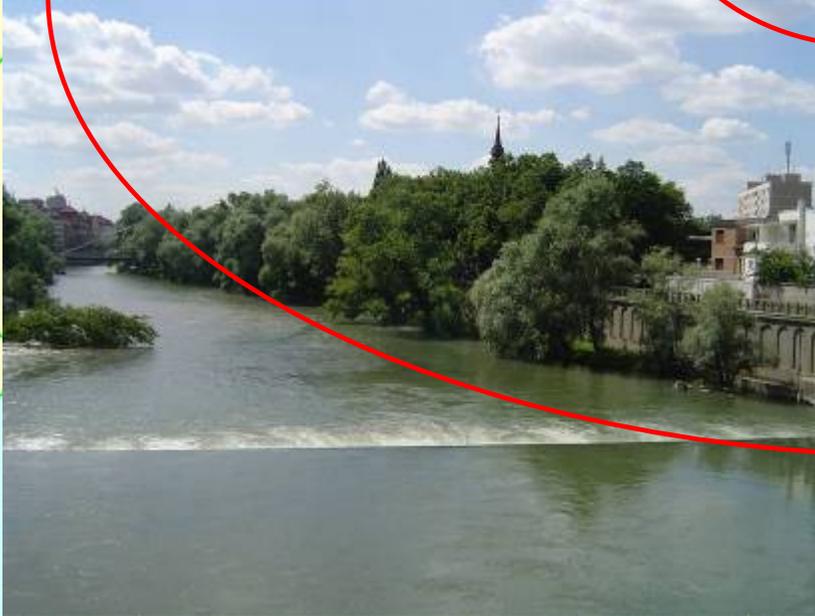
2 National WFD implementation strategy

Körös/Crisuri Basin

Basin coordination

Hungary

Romania





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□ 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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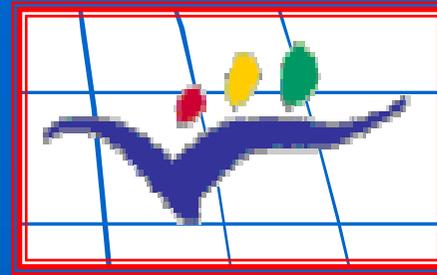


Towards a European-wide exchange Network for improving dissemination of IWRM research outcomes:

- 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.



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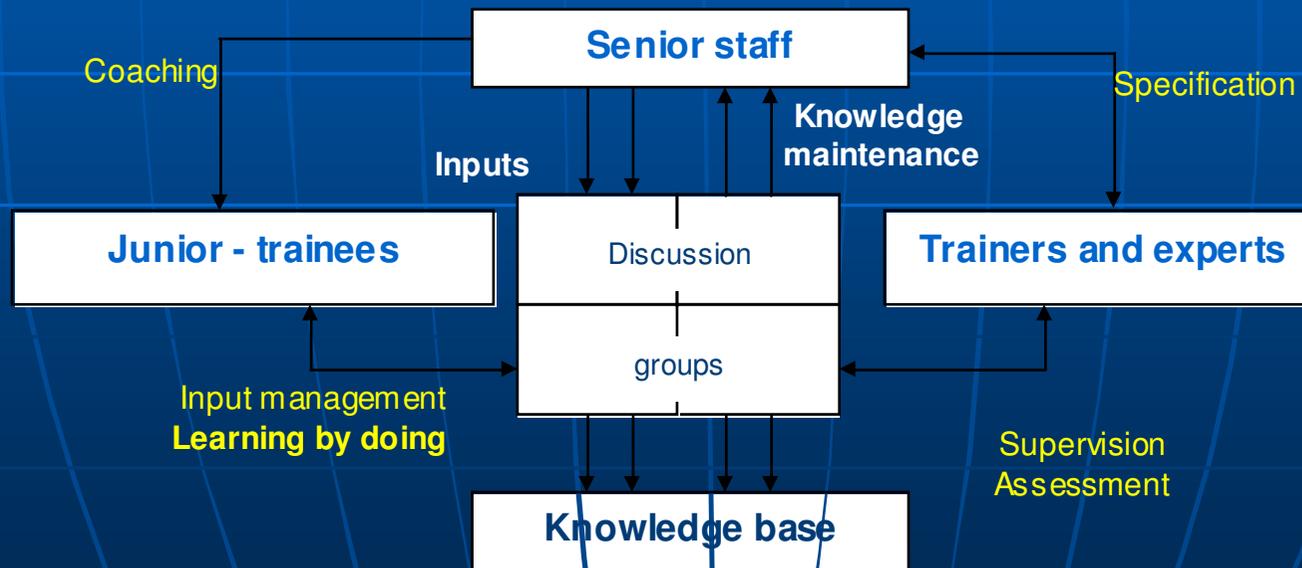


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Project supported by the European Programme Leonardo Da Vinci

« WFD Community »:

a Virtual Learning computing system for Water professionnals



The basis of our future internal Virtual "University"



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

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
?

How to define
'good' ecological
quality
?

?

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

?

?

The European Framework Directive: Many questions indeed arise!



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« EURO – RIOB 2007 »

08 – 09 Novembre 2007 - ROME



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

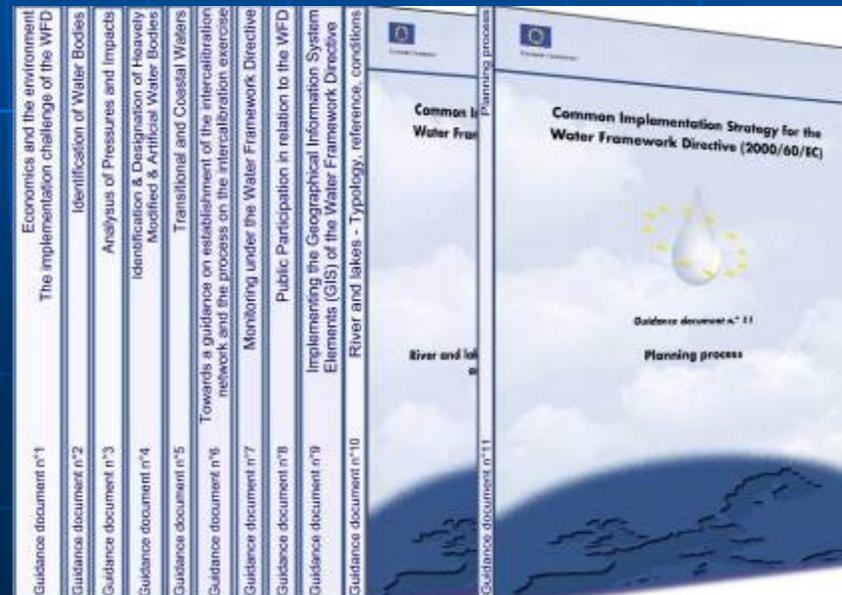
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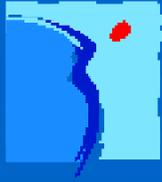


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Fourteen CIS Guidance Documents:

- 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





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CIS priorities :



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- **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**





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□ 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?**



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





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www.riob.org – www.inbo-news.org
800.000 VISITORS / YEAR!



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R.I.O.B.
Réseau International des Organismes de Bassin

I.N.B.O.
International Network of Basin Organizations

R.I.O.C.
Red Internacional de Organismos de Cuenca

R.I.O.B.
Rede Internacional dos Organismos de Bacia

МСБО
Международная Сеть Бассейновых Организаций

Debrecen (HONGRIE)
Assemblée Générale Mondiale du RIOB
Du 7 au 9 juin 2007

Debrecen (HUNGARY)
INBO's **World General Assembly**
June, from 7th to 9th, 2007

Debrecen (Hungria)
Asamblea General Mundial de la RIOC
Del 7 al 9 de Junio de 2007

Debrecen (HUNGRIA)
Assembleia Geral Mundial da RIOB
De 07 a 09 de JUNHO de 2007

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newsletter

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your inputs are welcome !

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***For developing and strengthening
basin organizations over the world***

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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