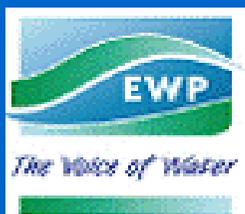


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## European Regional Session "The way forward in the 21st century"



## River Basin Management and Transboundary Cooperation

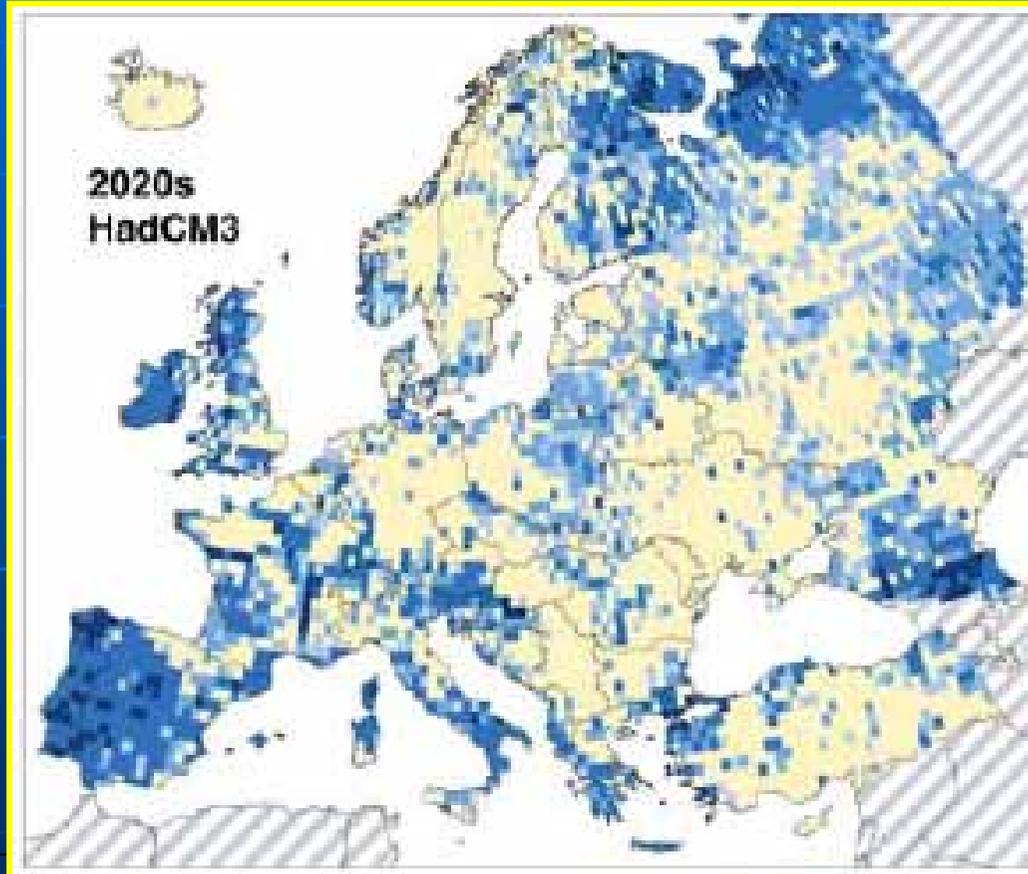
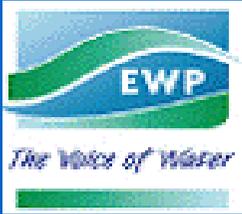


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**Indeed, basins are the natural territories, in which water runs,  
on the soil or in the sub-soil,  
whatever are the national or administrative boundaries or limits crossed.**

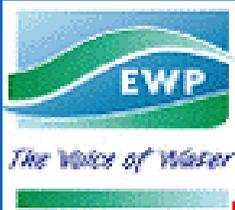


**An overall approach should be organized  
on the relevant scale  
of basin areas of rivers, lakes and aquifers,**



- **Over much of Europe ,  
“ one in a hundred year floods”  
will occur  
every couple  
of decades**

**Europe: Changing flood frequency**



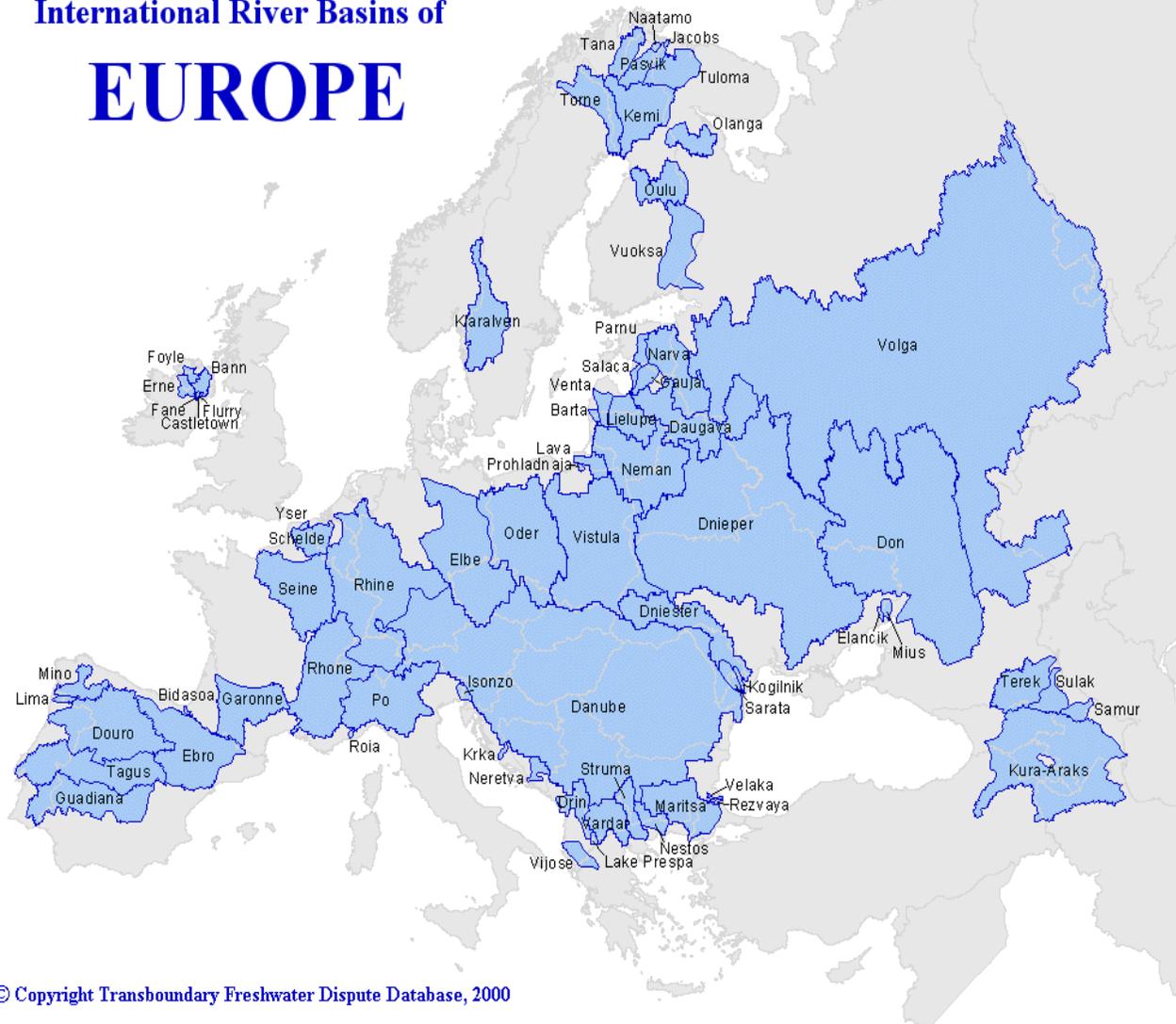
5th WORLD WATER FORUM  
ISTANBUL 2009  
BRIDGING  
DIVIDES  
FOR WATER



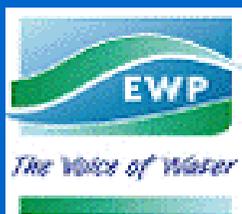
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## International River Basins of

# EUROPE



© Copyright Transboundary Freshwater Dispute Database, 2000

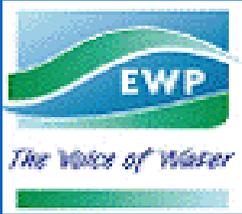


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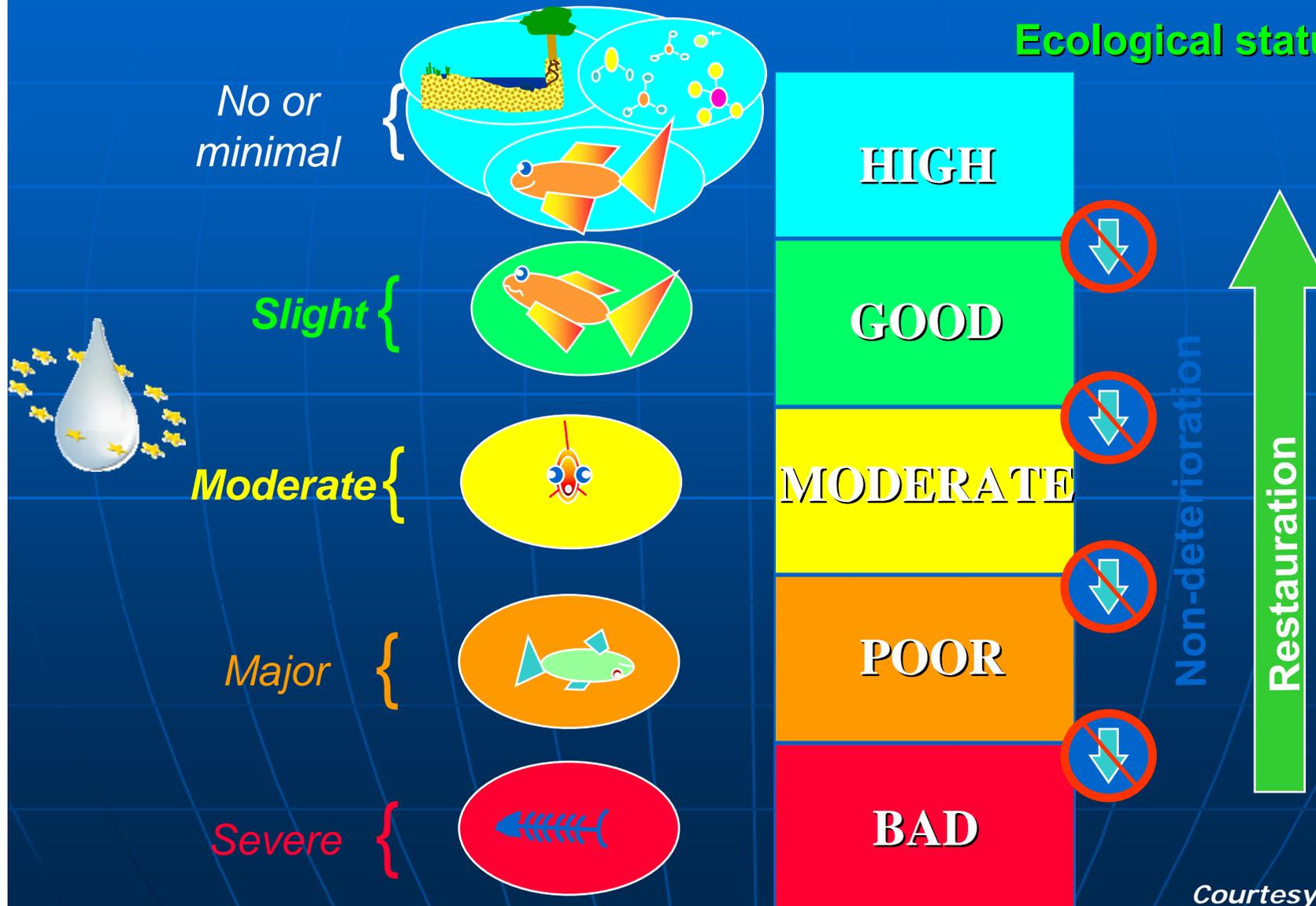
**23 October 2000**



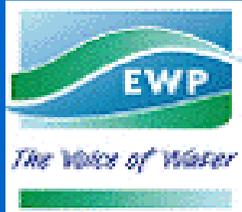
**The European Framework Directive:**  
**the future of water resource management**  
**In the European Union.**



## Ecological status



Courtesy Peter Pollard

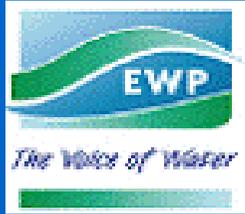


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## The European Water Framework Directive

### *VERY AMBITIOUS CHALLENGES:*

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

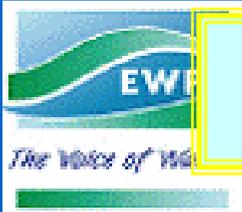


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As everything is linked in each Water Body,  
for a real implementation of the WFD,

**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,



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



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

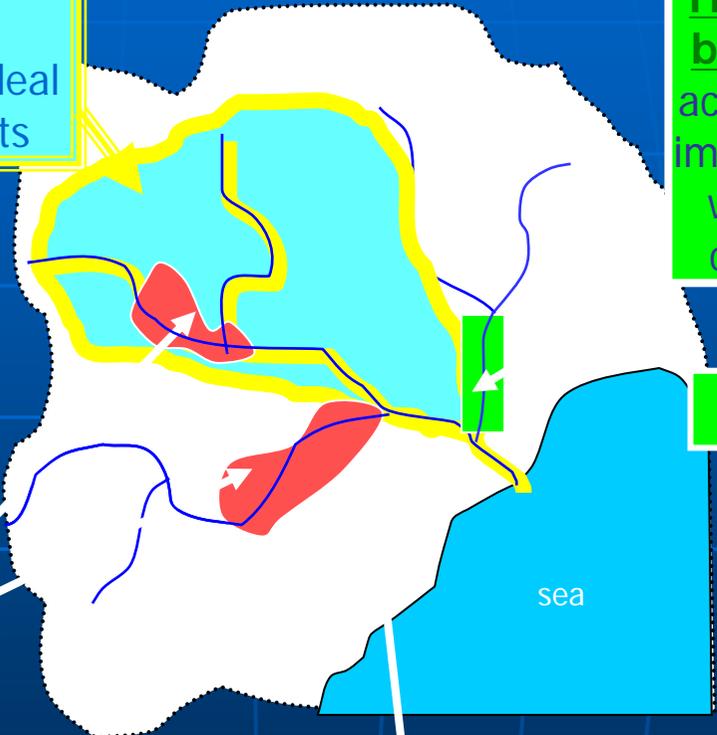
Heavily modified water  
bodies (HMWB): human  
activity carried out makes it  
impossible to reach the goal  
without disproportionate  
costs (change activity...)

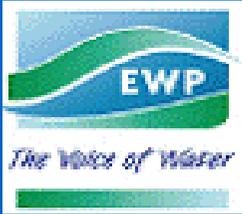
⇒ no link with pollution

## THE DIFFERENT HYDROLOGICAL SCALES:

Water bodies  
scale of evaluation  
of the achievement  
of good status

District =  
river basins + associated  
groundwaters and coastal waters





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## All kinds of water Are taken into consideration

\* surface waters

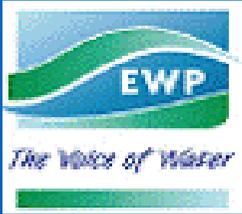
\* groundwater



\* transitional water

\* coastal waters...



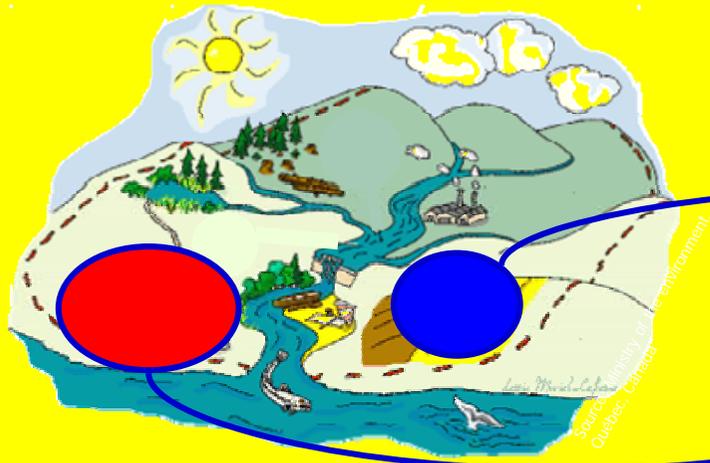


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2004

2015

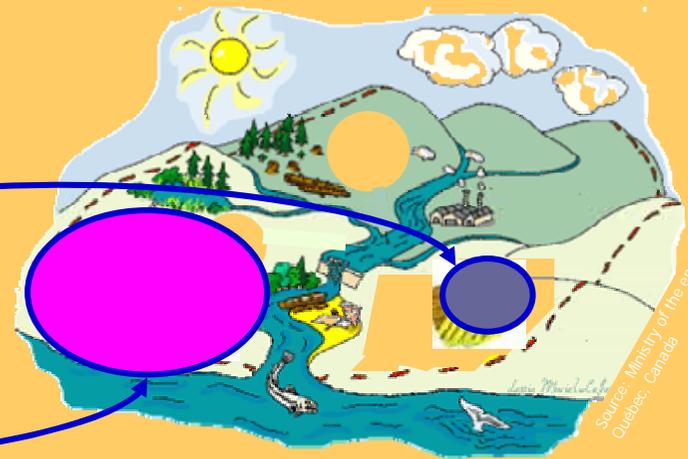
### Description of the initial situation



Source: Ministry of the environment,  
Quebec, Canada

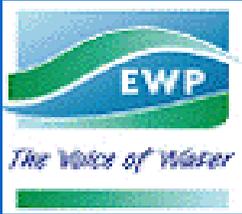
- Focus on economic aspects:
- estimate the economic "weight" of water uses and services
  - assess the level of recovery of costs of water services

### Baseline scenario: projection for 2015



Source: Ministry of the environment,  
Quebec, Canada

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

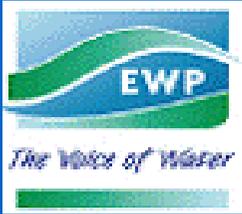


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## TRANSPARENCY OF COSTS AND POLLUTER-PAYS PRINCIPLE:

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**



# ASSESSING WATER QUALITY:



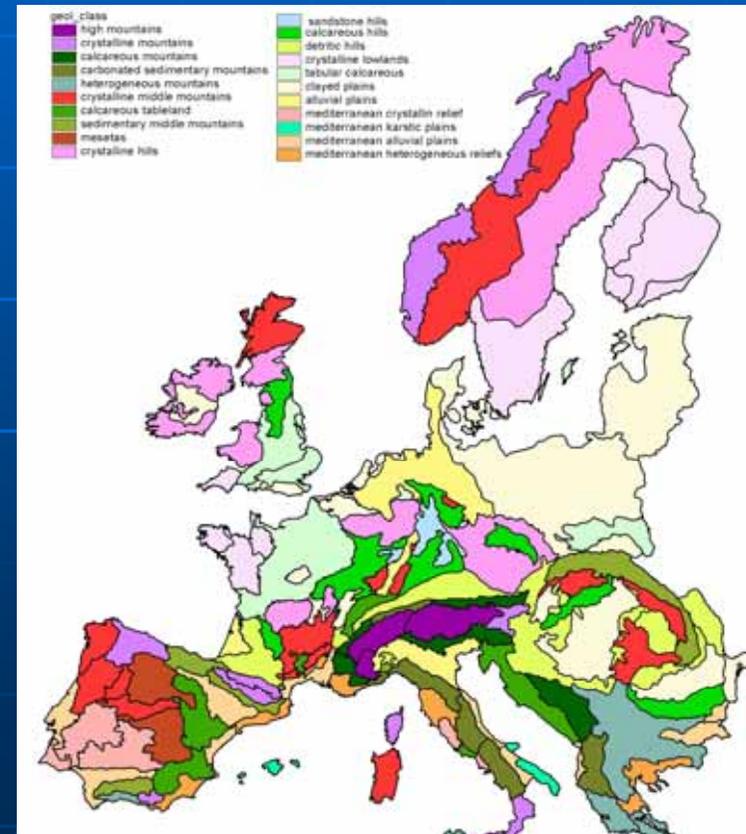
*In Europe,*

**50,000 "WATER BODIES" have been identified:**

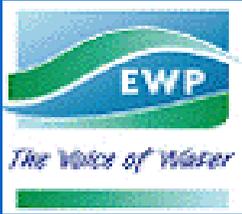
- River WB = 27 455
- Lake WB = 10 060
- Groundwater WB = 7 719
- HMWB/AWB = 5 783

➤ **IN FRANCE :**

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



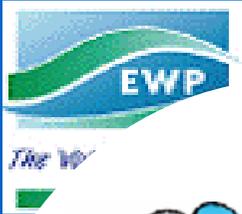
**THE DEFINITION OF COMMON FRAMES OF REFERENCES.**



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## the European Water Framework Directive

- **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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# Conflicts

requirements collected  
from each point of view



Designing a program  
through **dialogue**

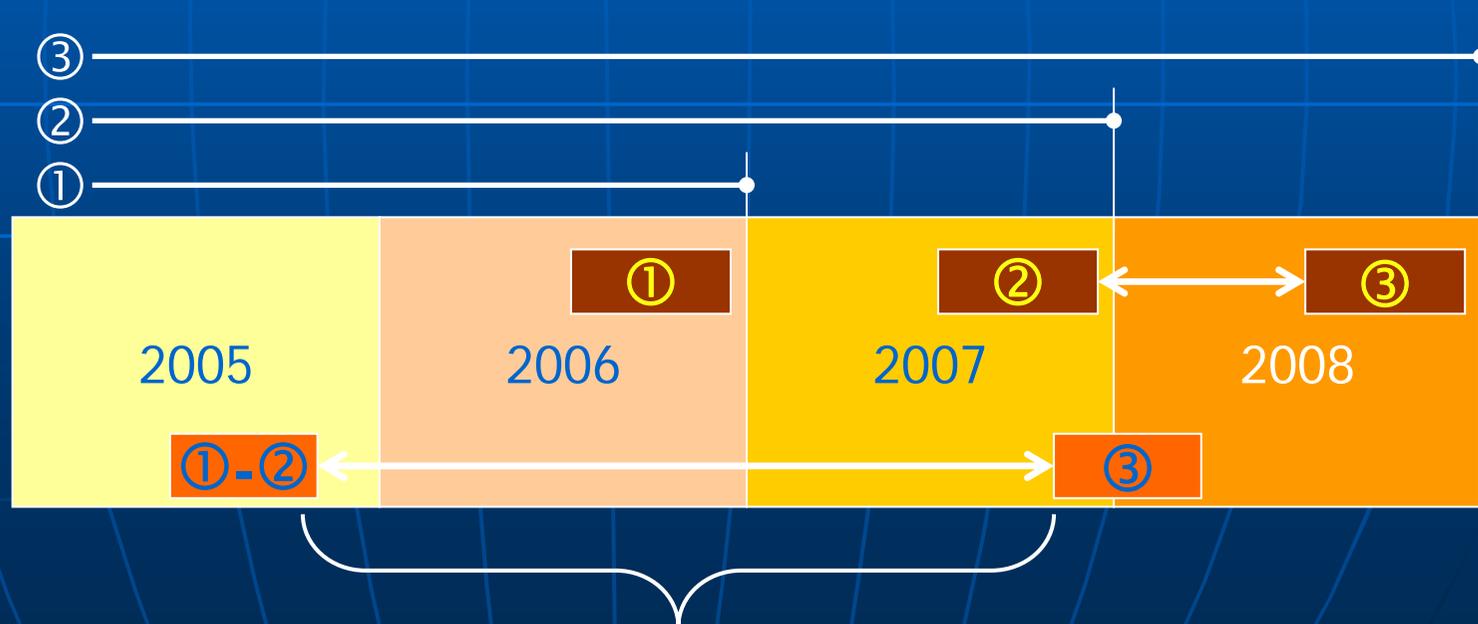
Reaching **agreement**  
with an ambitious program



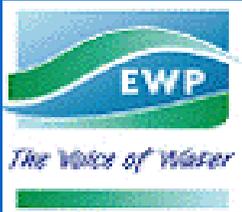
# Obligations of the directive

**Member States have to consult the public on :**

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



**In France a operational national timetable**



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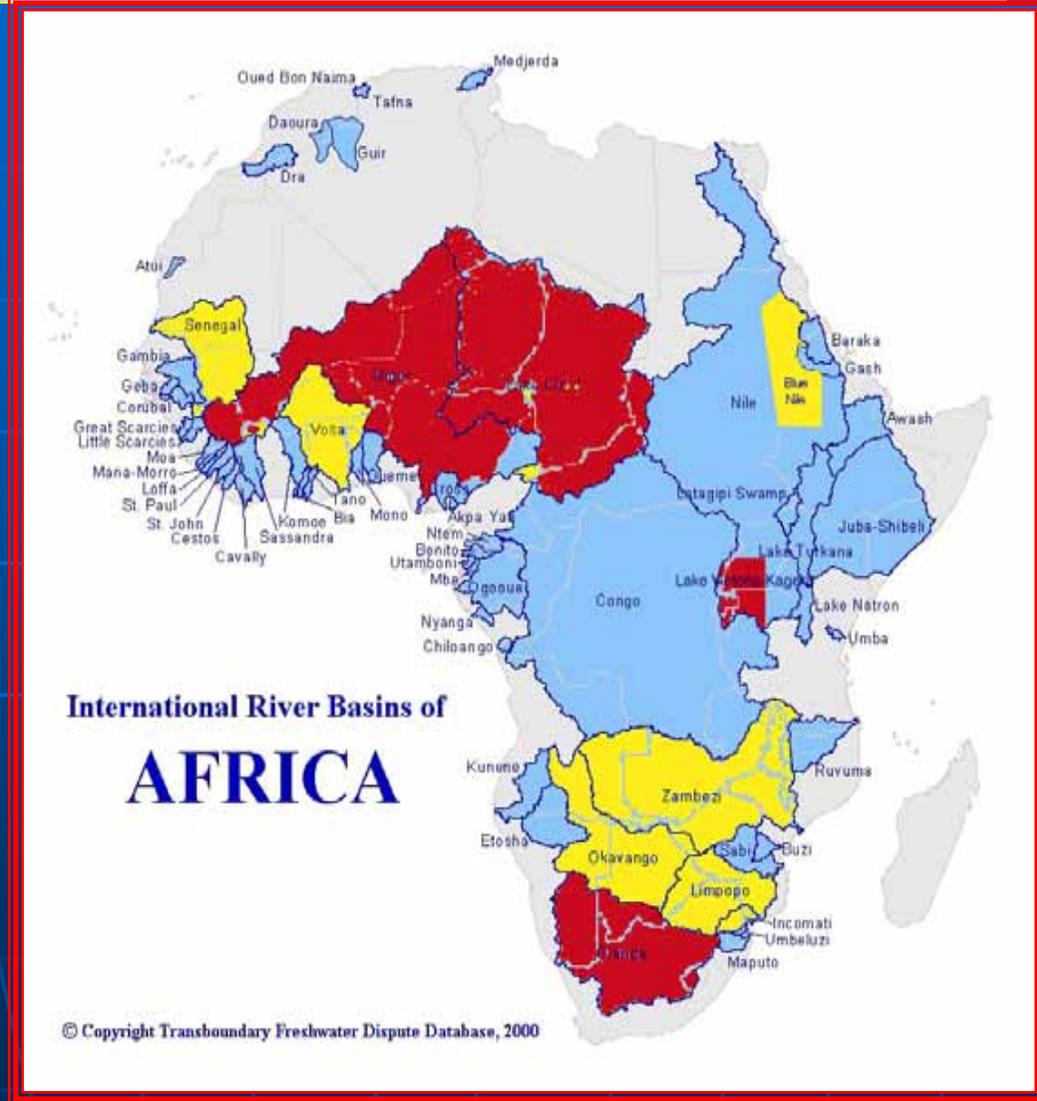
# **EUWI**

**5 selected  
pilot basins:**

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

**Animated by:**

**the French Ministry for Foreign Affairs &**





# AWIS : the African Water Information System



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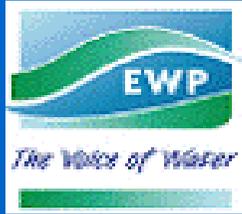


*Collection*

*Dissemination  
to stakeholders*

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

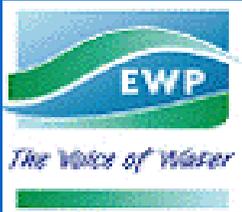
Continent-wide needs:  
no time, no money for reinventing the wheel!



The "Twin Basins project",  
Was supported by the European Union:

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

At the moment 40 twinning have been signed.



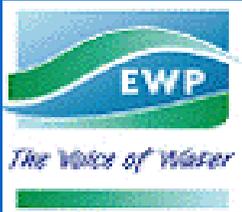
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**EMWIS**



**MERCI DE VOTRE ATTENTION!  
THANK YOU FOR YOUR ATTENTION!**

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[riob2@wanadoo.fr](mailto:riob2@wanadoo.fr)

**流域组织国际网**

**Vízgyűjtő Szervezetek Nemzetközi Hálózata**

**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**