



# الشبكة الدولية لهيئات الأحواض



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

流域组织国际网



**INTERNATIONAL SEMINAR ON RIVER BASIN MANAGEMENT  
AND COOPERATION IN THE MEDITERRANEAN REGION  
AND  
GENERAL ASSEMBLY  
OF THE MEDITERRANEAN NETWORK OF BASIN ORGANISATIONS  
BEIRUT (LEBANON) – 07-09 OCTOBER 2009**





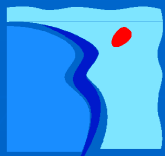
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**PROGRESS REPORT**  
**of**  
**Mr. Jean - François DONZIER**  
**General Manager**  
**International Office for Water**  
**Permanent Technical Secretary**  
**INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS**



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**La Directive-Cadre européenne sur l'Eau  
Partager les expériences et relever les futurs défis  
Conférence des Autorités de Bassin Européennes  
pendant la Présidence Suédoise de l'UE  
20 – 21 Août 2009**



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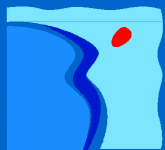
# → A CHALLENGE:



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In Europe, for the first time in the world,  
29 countries adopted  
The same basin oriented approach!



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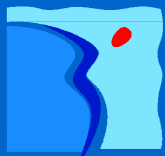


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**23 October 2000**



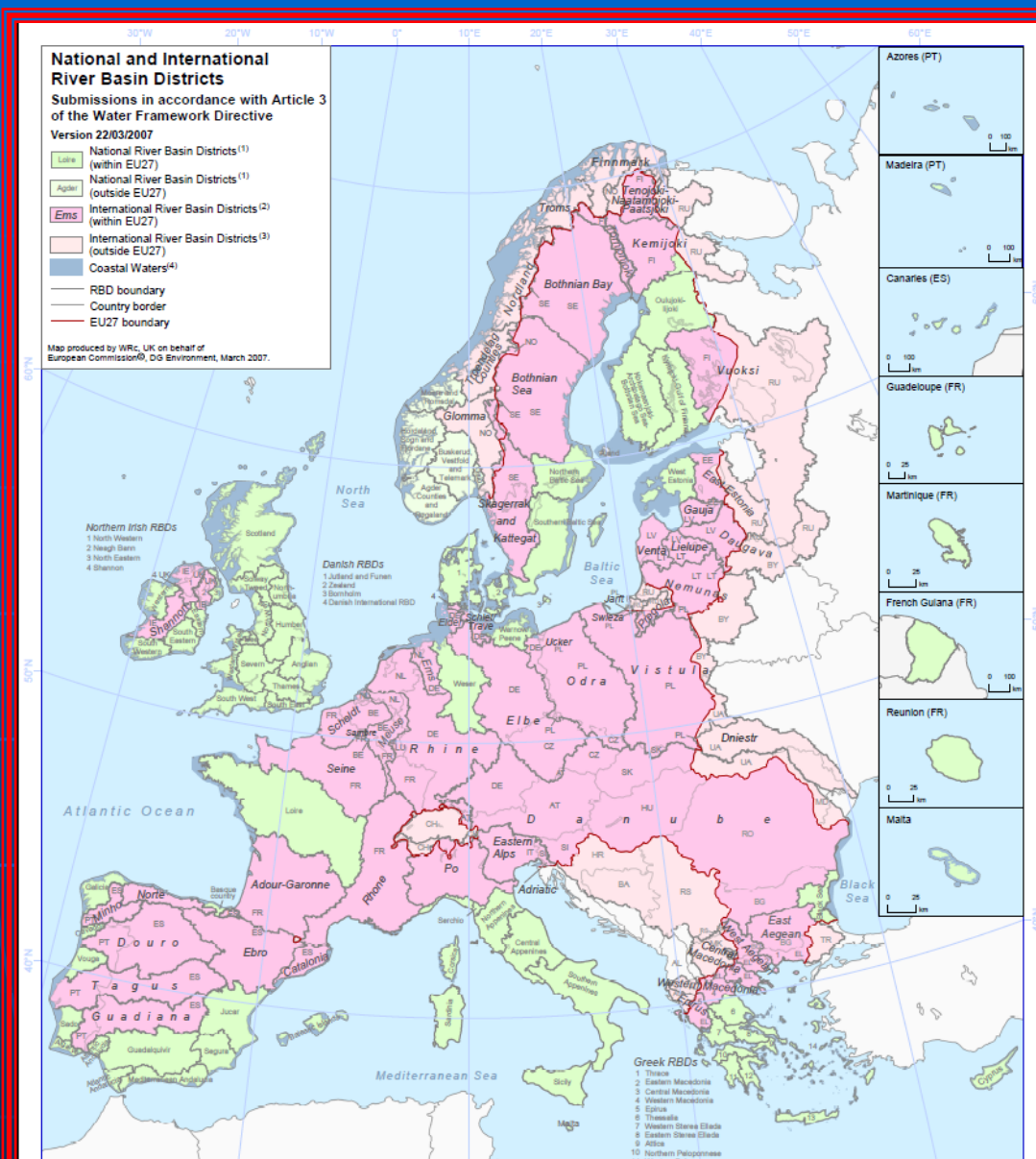
**The European Framework Directive:**  
**the future of water resource management**  
**In the European Union.**



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**110 RIVER BASIN DISTRICTS HAVE BEEN ESTABLISHED  
40 ARE INTERNATIONAL RIVER BASIN DISTRICTS**

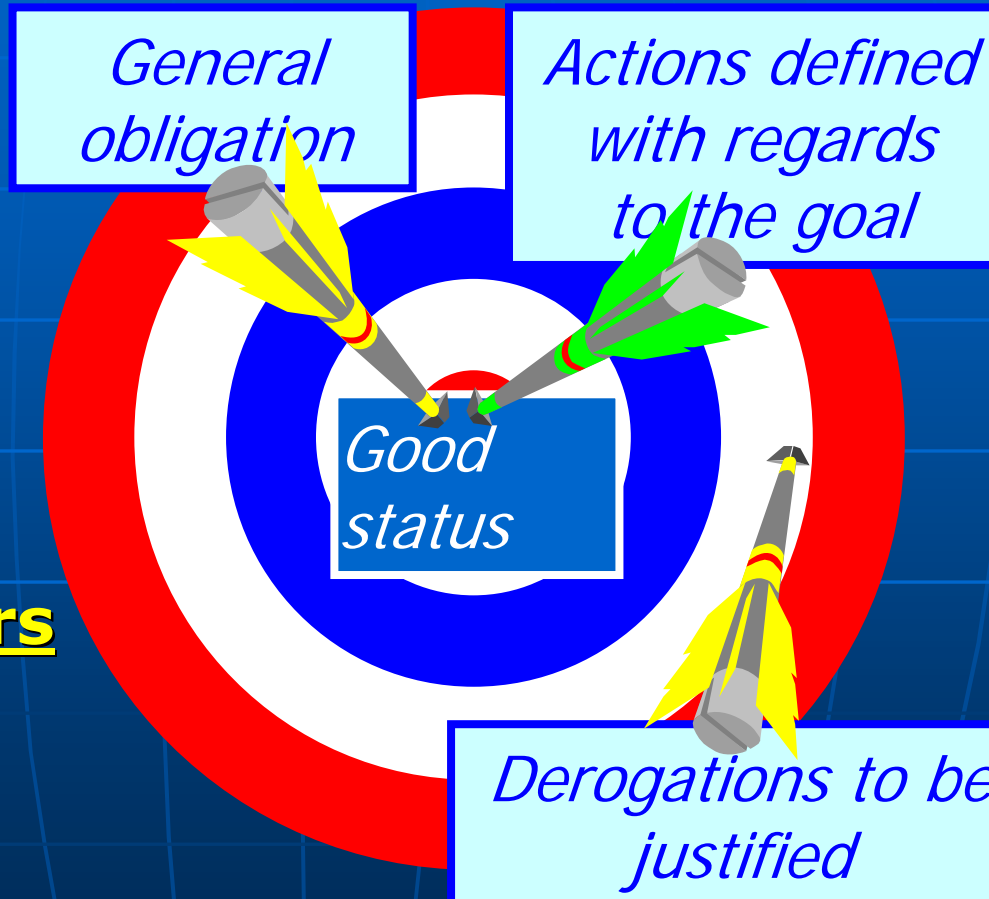


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# The WFD introduces an obligation of results:



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

**THIS WILL BE AN INCREDIBLE CHALLENGE  
FOR ALL THE EUROPEAN BASIN ORGANIZATIONS...**





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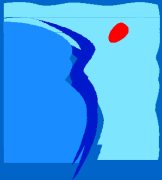
As everything is linked in each Water Body,  
for a real implémentation of the WFD,



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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, agriculture, the prevention and protection against floods and droughts...



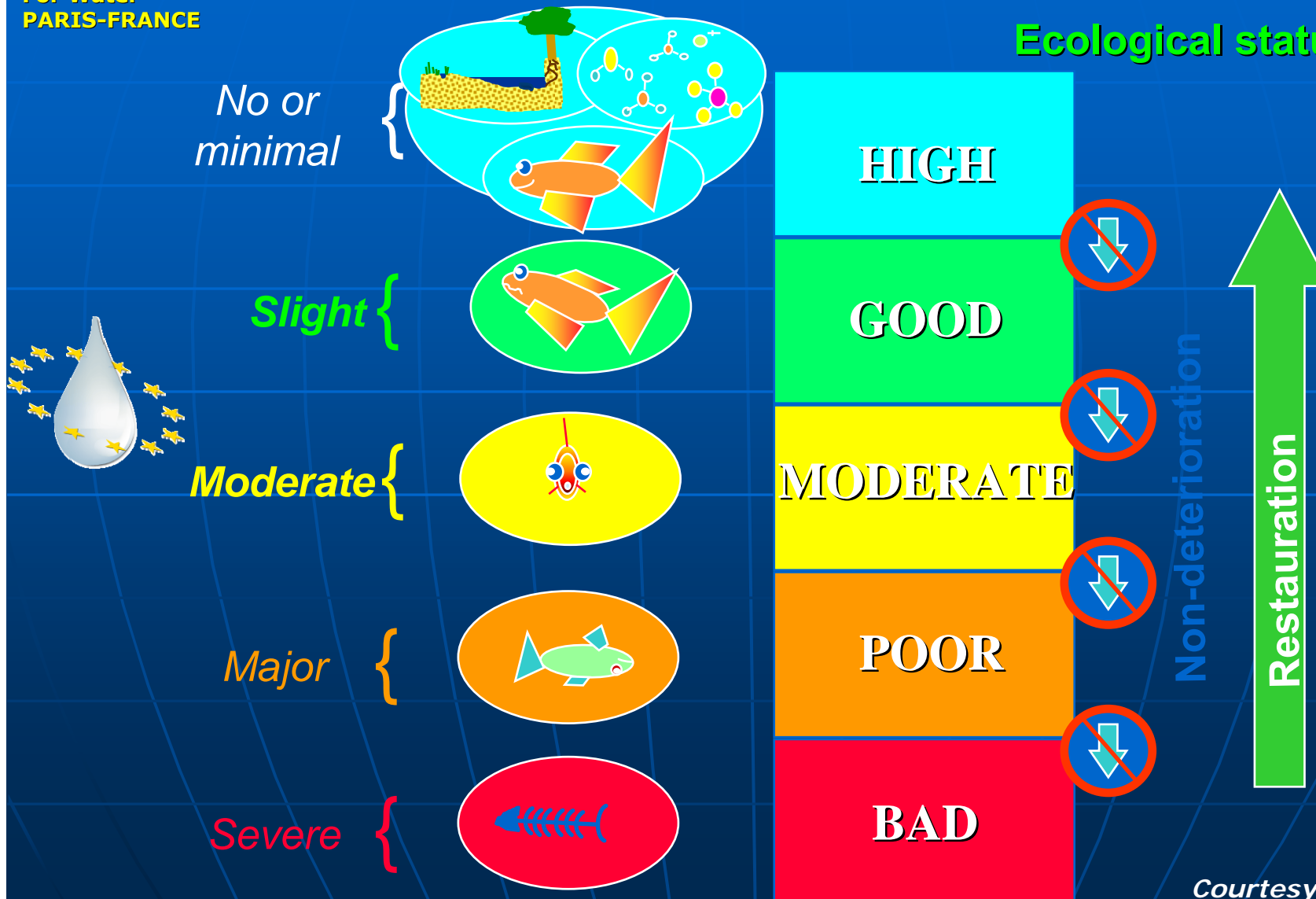
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# A SIGNIFICANT PERCENTAGE OF WATER BODIES WOULD NOT REACH GOOD STATUS IN 2015.

## Ecological status



Courtesy Peter Pollard



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**WE MAY CALL FOR A TRUE MOBILIZATION CONCERNING AGRICULTURE:**



**IT WILL BE VERY DIFFICULT TO OBTAIN POSITIVE RESULTS  
ON THE QUALITY OF WATER AND ECOSYSTEMS IN 2015, AND EVEN IN 2021,  
WITHOUT A TRUE REFORM OF THE COMMON AGRICULTURE POLICY!**

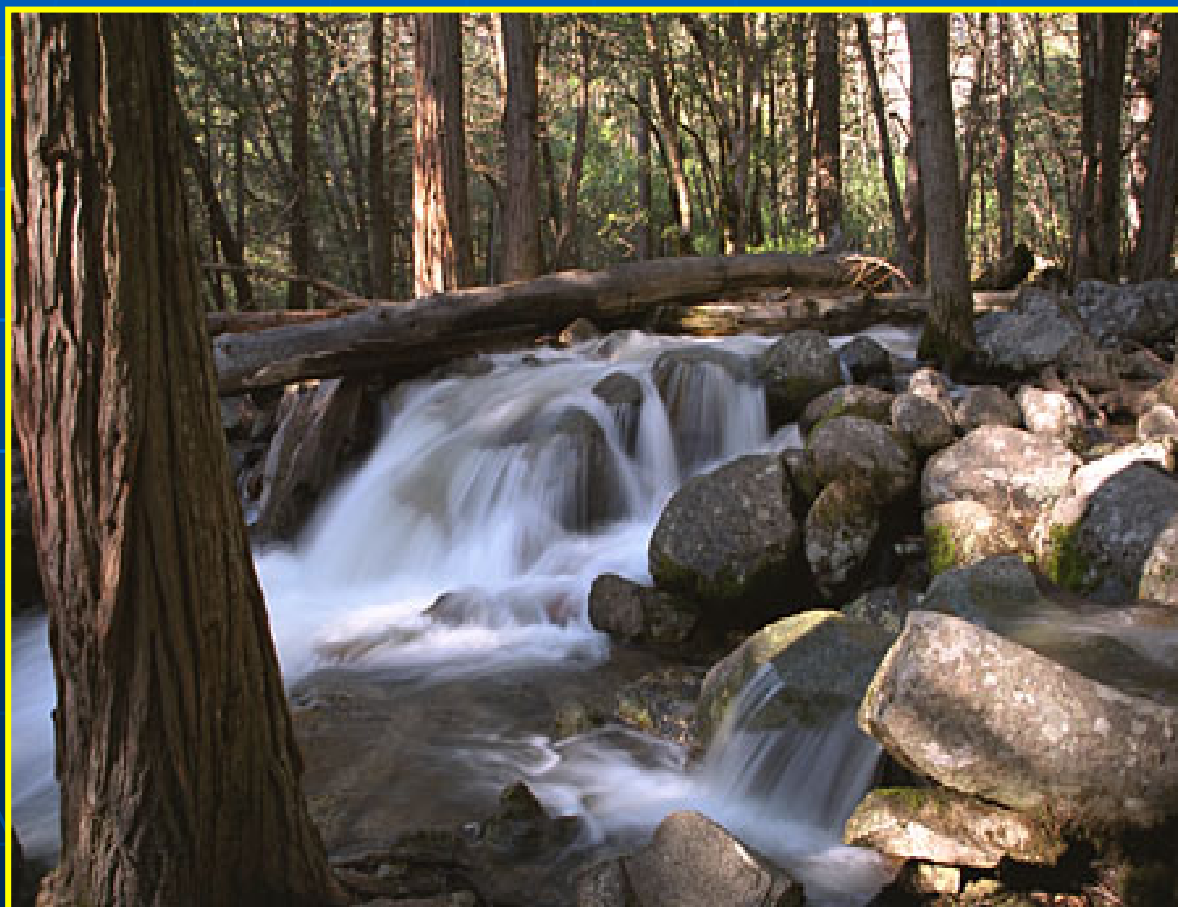


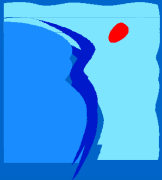
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**AS THE RESTORATION OF AQUATIC ENVIRONMENTS  
IS OF PRIME IMPORTANCE  
FOR ACHIEVING GOOD STATUS,  
THE MEANS DEVOTED TO WETLANDS  
AND HYDROMORPHOLOGY MUST BE INCREASED.**



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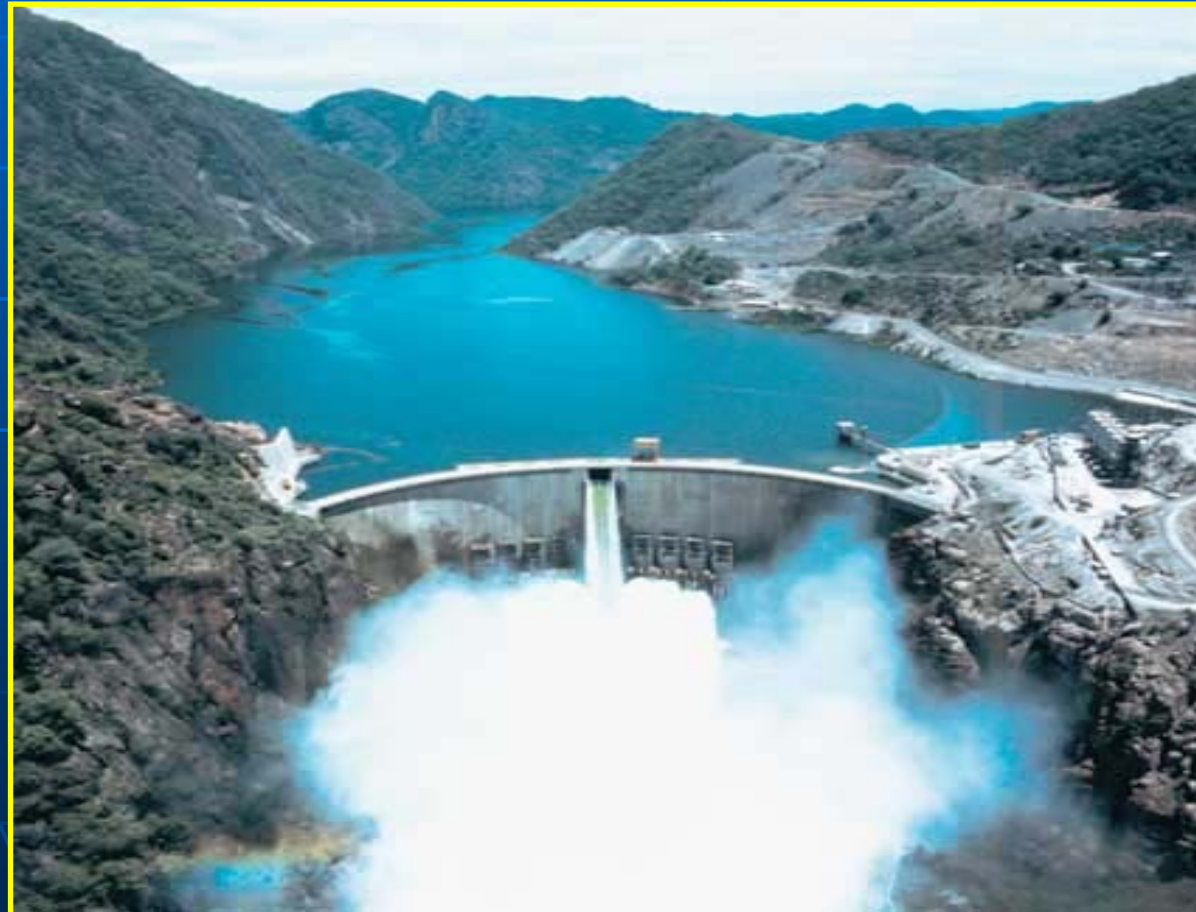


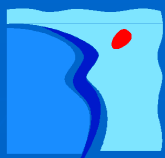
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## **HOW CAN WE APPLY THE « RENEWABLE ENERGY » DIRECTIVE AND THE “WFD” AT THE SAME TIME?**





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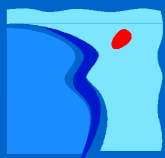
# In Europe a majority of basins are transboundary ones!



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**HUGE WORK IS STILL NEEDED:  
MANAGEMENT PLANS OF INTERNATIONAL RIVER BASIN DISTRICTS  
STILL TOO OFTEN LOOK LIKE A PATCHWORK OF NATIONAL ELEMENTS**



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**EVERYWHERE, ONE OF THE PRIORITIES IS TRANSPARENCY  
AND PUBLICLY OWNED WATER MANAGEMENT.**

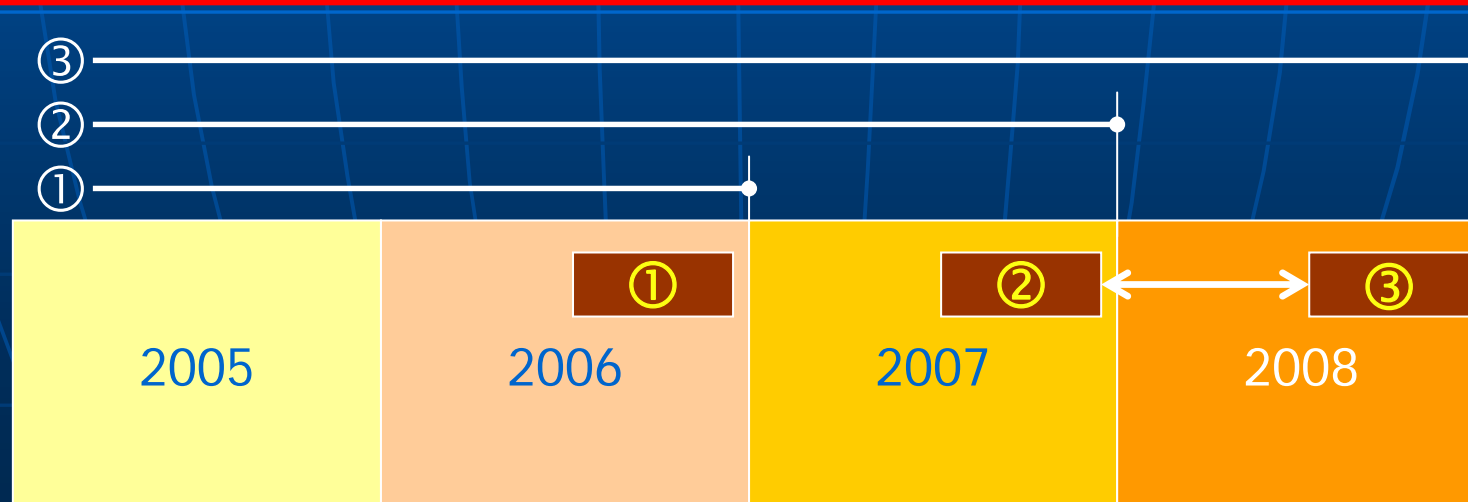


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## Obligations of the directive

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

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







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## Conflicts

requirements collected  
from each point of view



Designing a program  
through **dialogue**



Reaching **agreement**  
with an ambitious program



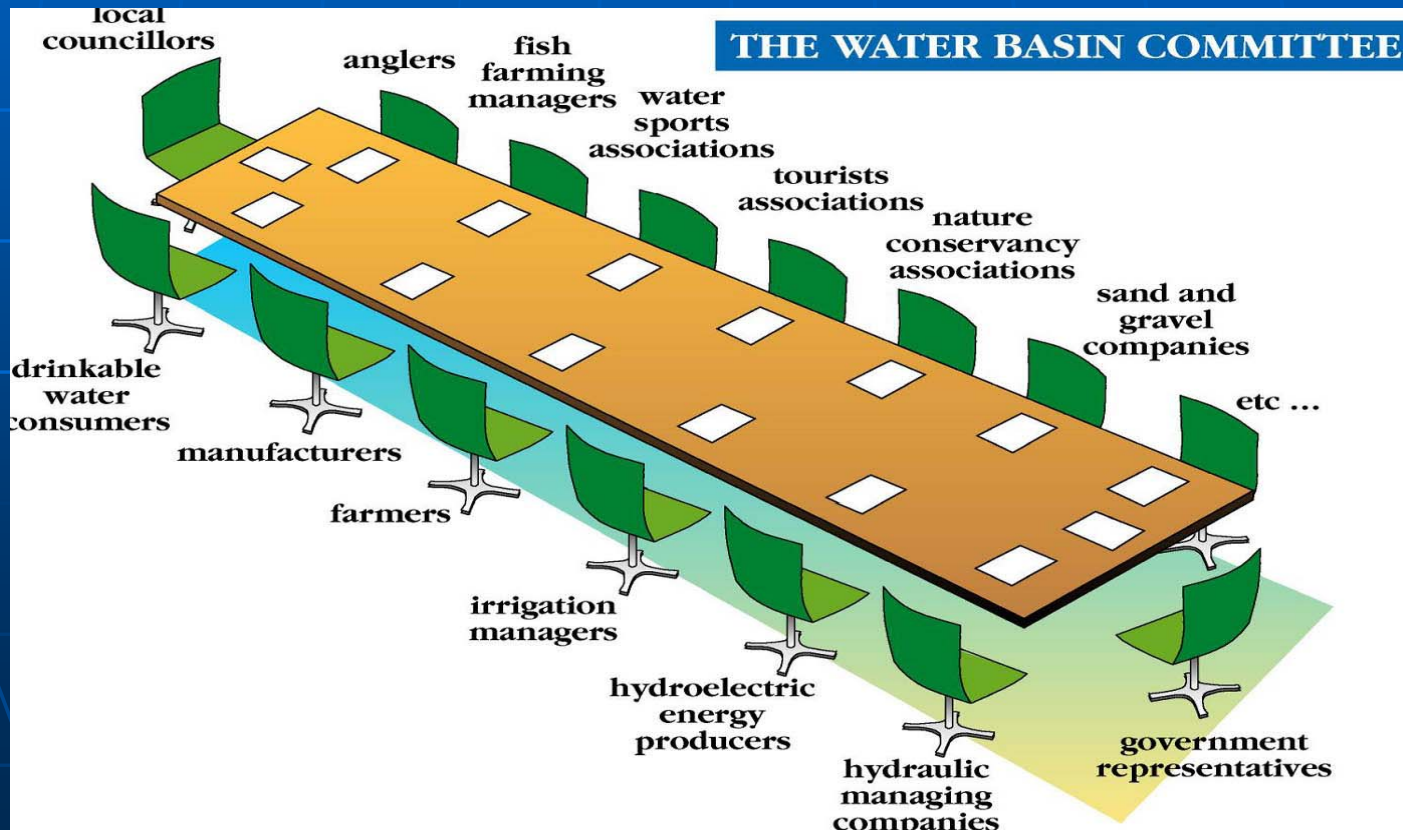


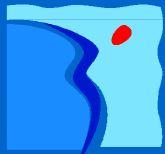
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**THE METHODS WILL HAVE TO BE LONG-TERM ONES  
AND ANTICIPATE THE IMPROVEMENT  
OF OTHER FUTURE CONSULTATIONS:  
IT WOULD BE A PITY  
JUST TO ORGANIZE A "ONE SHOT" CONSULTATION  
WITHOUT ANY FOLLOWING  
ALL ALONG THE REAL IMPEMENTATION PHASE OF THE "WFD"!**





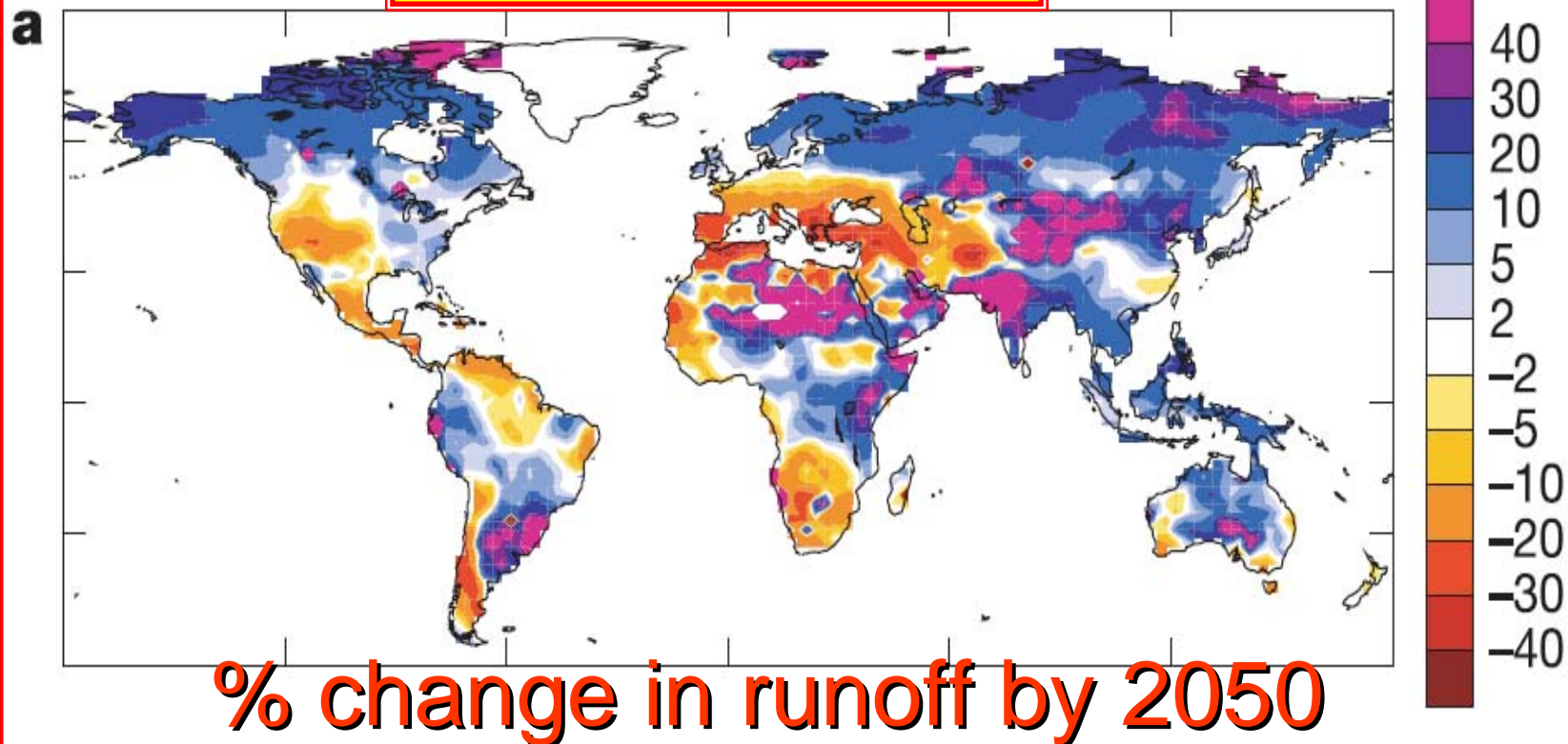
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**Global warming cannot now be avoided.**  
Fresh water resources  
will be directly affected in the coming years!



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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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**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.**

**RIVER BASIN IS THE APPROPRIATE SCALE TO IMPLEMENT ACTION PLANS  
TO PREVENT DROUGHT AND FLOOD FUTUR SITUATIONS.**

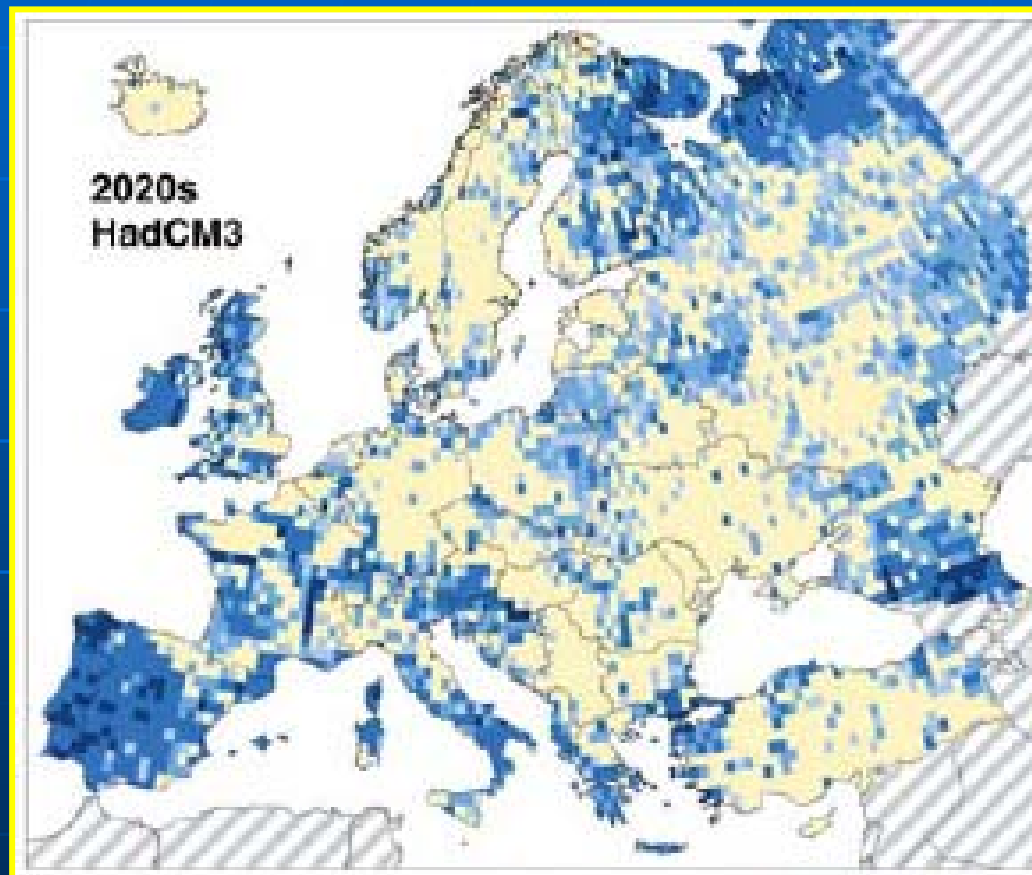




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- Over much of Europe ,  
“ one in a hundred year floods”  
will occur  
every couple  
of decades

**Europe: Changing flood frequency**



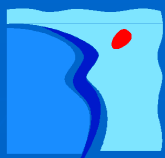
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# **FLOOD CONTROL: FORECAST, PREVENTION, PROTECTION**

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



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## WITH REGARD TO DROUGHTS:

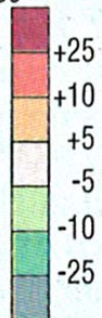


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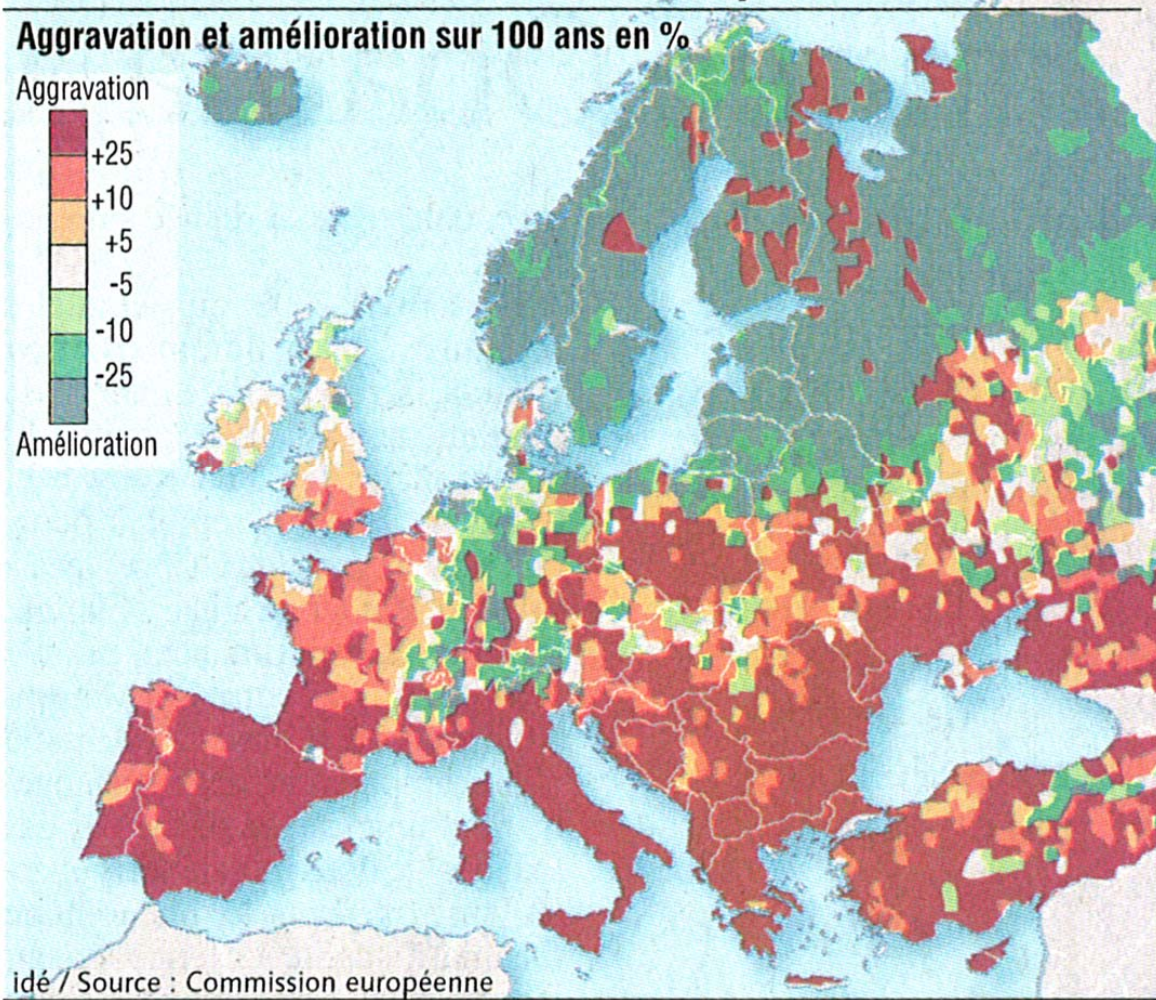
### L'évolution des sécheresses en Europe (de 1970 à 2070)

Aggravation et amélioration sur 100 ans en %

Aggravation



Amélioration



idé / Source : Commission européenne



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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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**MOBILIZING NEW RESOURCES  
SHOULD BE PLANNED  
WHEN THEY ARE ECOLOGICALLY ACCEPTABLE  
AND ECONOMICALLY REASONABLE.**





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se2009.eu

Could we urge the E.U. Presidency  
to include water issues in the negotiations on Climate Change  
for the next Copenhagen UN conference?



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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>

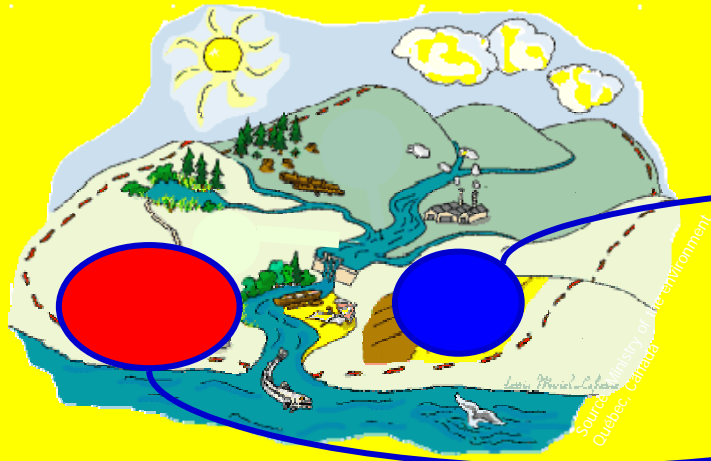
Sum = full cost



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2004

### Description of the initial situation

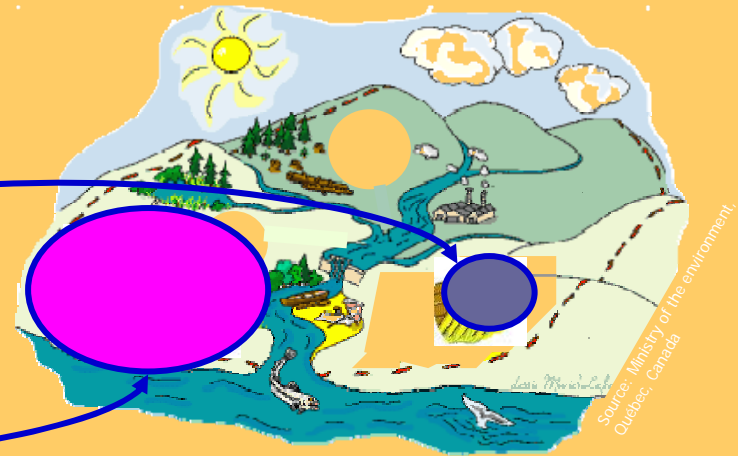


Focus on economic aspects:

- 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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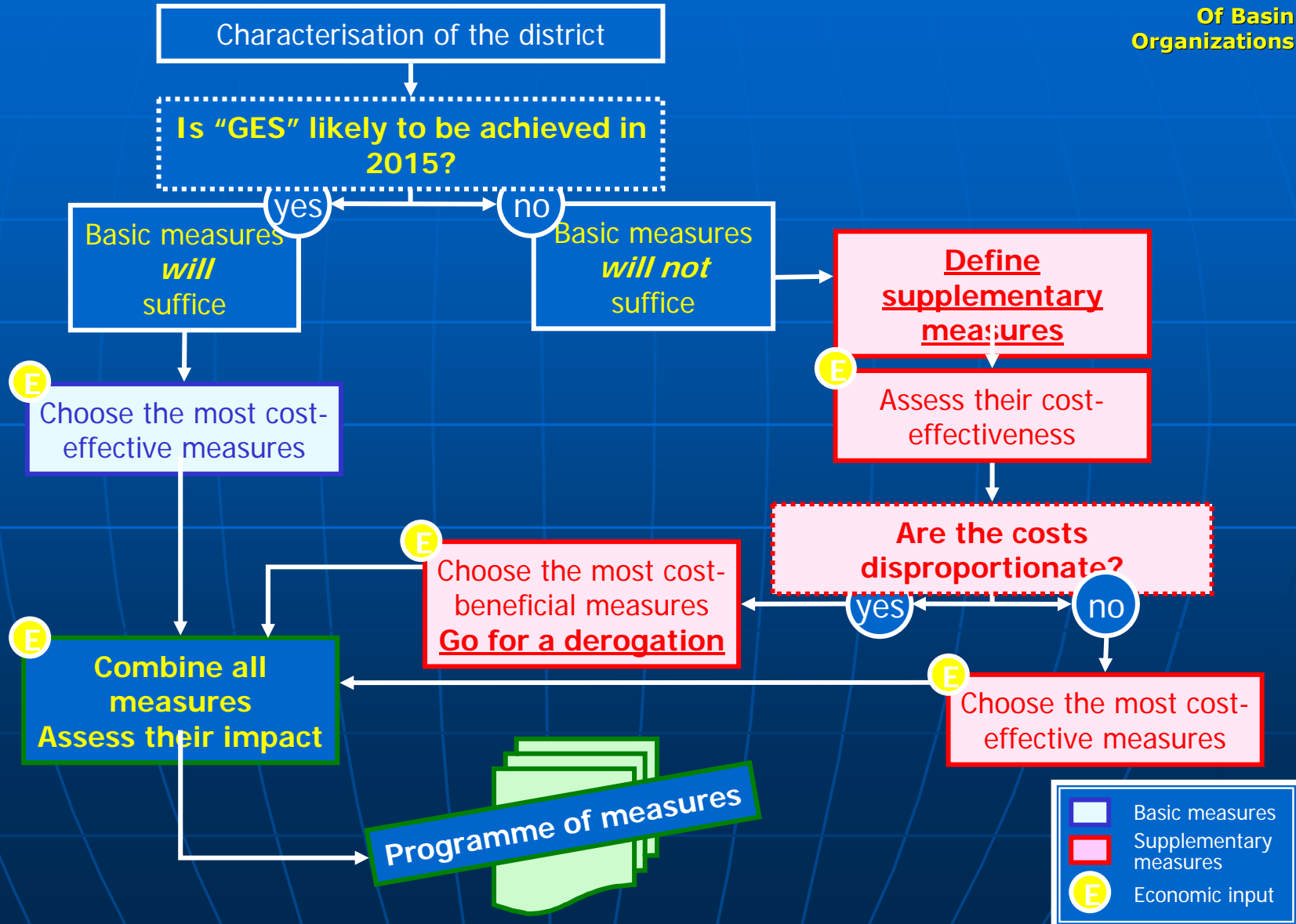


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# FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES



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**IF WE ARE NOT ABLE TO MOBILIZE ENOUGH MONEY,  
WE SHALL NOT HAVE THE FRESH WATER WE NEED!**

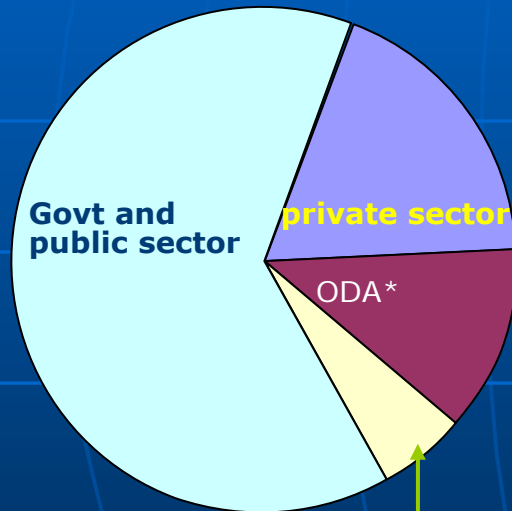


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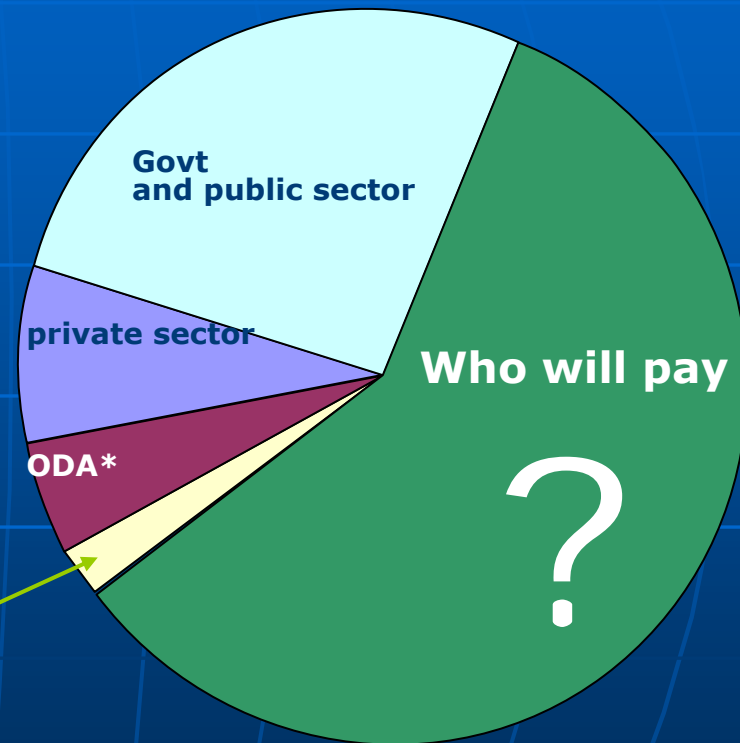
**Who will pay ?**

**FOR THE NEXT 18 YEARS**

**NOW**



International firms



\* Official Development Assistance



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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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## **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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# NOW WE MAY GO AHEAD FOR BETTER BASIN MANAGEMENT IN EUROPE AND IN THE WORLD!



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

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[www.riob.org](http://www.riob.org)

**mail:** [inbo@wanadoo.fr](mailto:inbo@wanadoo.fr)

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

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