



流域组织国际网

**Международная сеть водохозяйственных организаций,
Réseau International des Organismes de Bassin**

**International Network of Basin Organizations
Red Internacional de Organismos de Cuenca**





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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

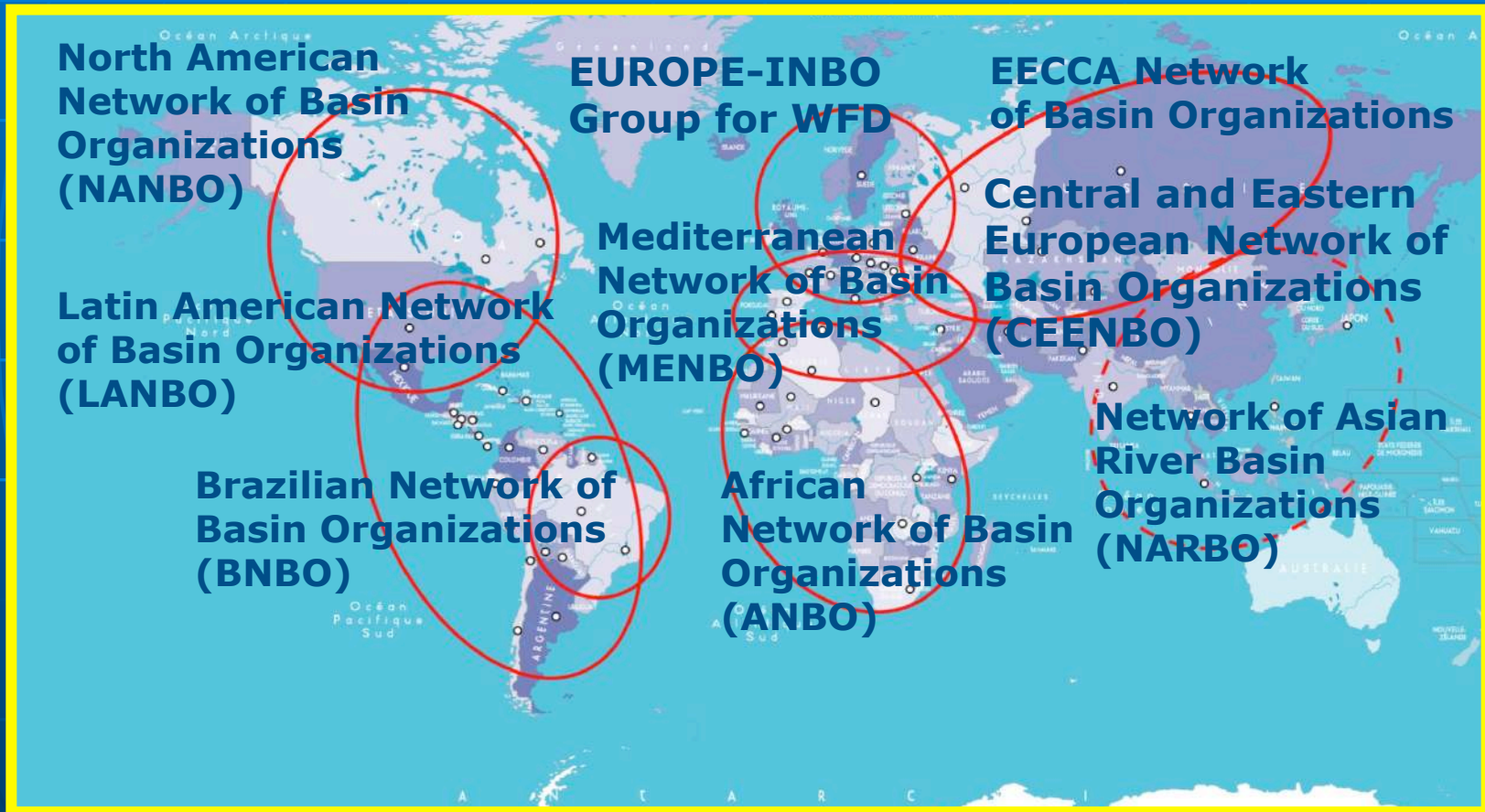


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INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS

Created in 1994 to facilitate
operational exchanges between BO

INBO's REGIONAL NETWORKS



188 FULL MEMBERS or PERMANENT OBSERVERS
in 68 COUNTRIES



WELCOME IN FRANCE!



**International Network of Basin Organizations
International Office for Water**



DISTRIBUTION OF RESPONSIBILITIES (1)

SET

the legal and normative framework
(within the EEC Directives in particular).

APPROVE

SDAGEs and SAGEs when proposed by
the River Basin Committee or
by Local Water Commissions,
the five-year Action Programmes
of Water Agencies.

**GOVERNMENTAL
ADMINISTRATIONS**

AUTHORIZE

Withdrawals and discharges
(Water Law enforcement)
and monitor their application.

CONTROL

The quality of supplied potable water,
the legality and regularity
of Municipal Councils' deliberations
(regarding procurements).

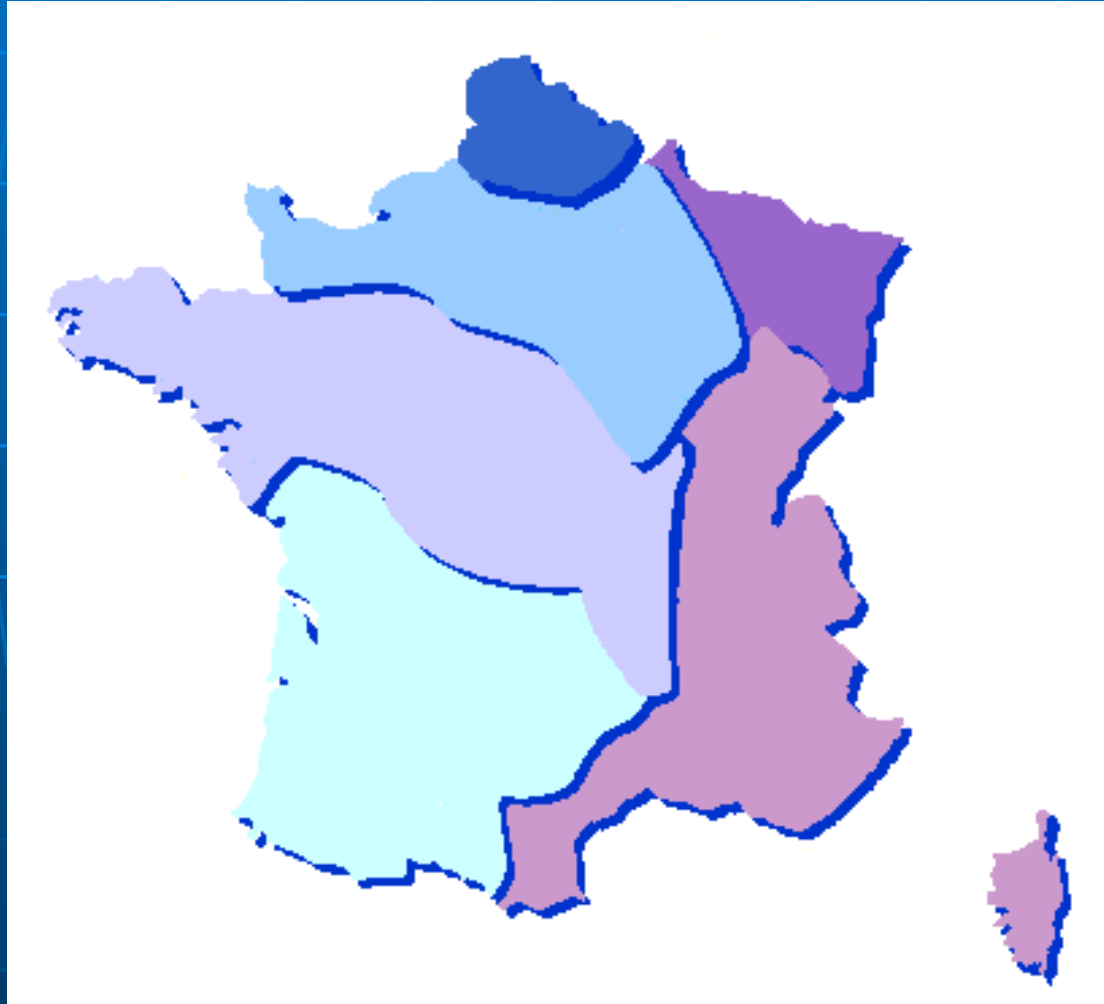


6 WATER AGENCIES



**International
Office
For Water
PARIS-FRANCE**

**International
Network
of Basin
Organizations**





DISTRIBUTION OF RESPONSIBILITIES (2)

PREPARE

the Masterplan for Water Management and Development (SDAGE).

DEFINE

5-year Action Programmes of Water Agencies.

BASIN ORGANIZATIONS

**WATER AGENCIES
RIVER BASIN COMMITTEES**

PROPOSE

bases for withdrawal charges in the basin.

SET

the amount of financial support for investment and the good operation of installations.



- ➡ **36.763 French communities**
- ➡ **15.244 public services for potable water supply**
- ➡ **11.922 public services for sanitation**

A SOLE INDEPENDANT COMMUNITY

POTABLE WATER

Water intake
Boreholes
Dams

Treatment
Pumping
Storage

Potable
water
supply

SANITATION

Wastewater
stormwater
collection

Wastewater
treatment

Discharge

SEVERAL COMMUNITIES TOGETHER

- * **Intercommunity « syndicates »**
 - **with one purpose :**
 - **potable water**
 - **sanitation**
 - **multipurpose**
- * **Urban and rural « districts »**
- * **« Communities of communities »**



DISTRIBUTION OF RESPONSIBILITIES (3)



MUNICIPALITIES OR GROUPS OF THEM :
(within the framework of regulations and standards in force)

ORGANIZE

- the public services for potable water supply and sewerage.

CONTRACT

- the funds necessary for investments (subsidies or bank loans).

OPERATE

should the case arise,
as public authorities.

OWN

all the installations.

DECIDE

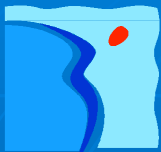
- on investments to be made,
- on the management method (direct or delegated) to be used,
- on water price (drinking water and sanitation).

CHOOSE

- the enterprise to which delegate services after invitations to tender and control their services.

DEFINE

- the areas to be covered by collective sanitation and special specifications on their territories.



**Permanent
Technical
Secretariat
PARIS**

STATE

**AUTHORIZATION
FOR ABSTRACTIONS
AND DISCHARGES**

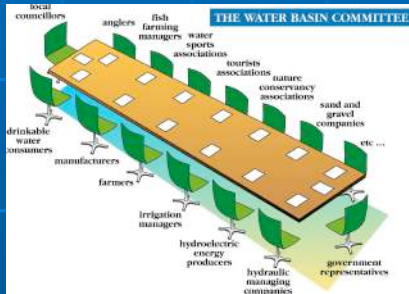
DIALOGUE

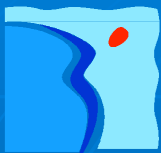
**FUNDING
AND
PROGRAMMING**

**BUILDING
AND OPERATION
OF INFRASTRUCTURES**

m **Water Agencies**
m **River Basin Committees**

m **State administrations**
m **Municipalities**
m **Industrialists**
m **Farmers**
m **Developers**





DIALOGUE



- Regions
- Departments
- Municipalities
- Regional Development Companies
- Industrialists
- Farmers
- Fish farmers
- Fishermen
- Quarry Operators
- Carriers
- Protectors of nature
- Associations of consumers, etc ...

Dialogue is institutionalized at 3 levels

1

At national level

National Water Committee

Orientation of national policy, laws, regulations

2

At the level of the six river basins

River Basin Committee

- SDAGE
- Priorities for the 5-year programmes of the Water Agencies
- Water charges

3

At the level of tributaries and aquifers

Local Water Commission

- SAGE
- Setting up local water communities

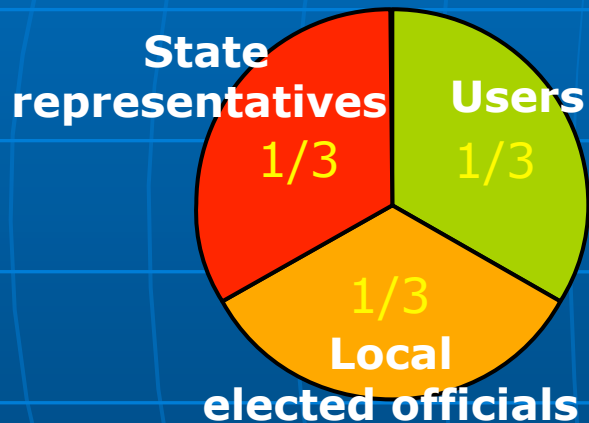


RIVER BASIN ORGANIZATIONS



"THE WATER PARLIAMENT"

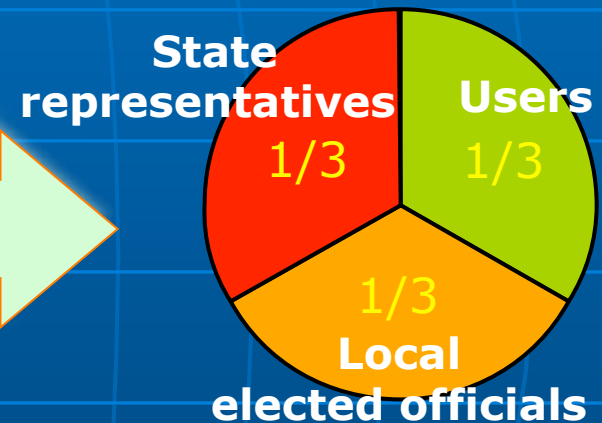
The River Basin Committee
(100 members)



Elects the Chairman

EXECUTION

The Board of Directors
of the Water Agency (26 members)
carries out the decisions
of the Basin Committee



**The Chairman is chosen
by the Government**

ELECTION

**Participating in the Board of Directors
with only a consultative voice:**

- 1 staff representative
- the Agency Director
- 1 financial inspector
- 1 accountant



COMPOSITION OF RIVER BASIN COMMITTEES



<i>Representatives of River Basin Districts</i>	Adour Garonne	Artois Picardy	Loire Brittany	Rhine Meuse	Rhone Mediterranean Corsica	Seine Normandy
Regions	6	3	8	3	6	7
Departments	18	17	28	14	28	25
Municipalities	6	5	6	5	6	6
Users and specialists	30	25	42	22	40	38
Socio-professionals	6	2	8	3	6	7
State Administrations	18	14	22	14	21	20
TOTAL of members	84	66	114	61	107	103



**International
Office
For Water
PARIS-FRANCE**



**International
Network
of Basin
Organizations**

23 October 2000



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



**International
Office
For Water
PARIS-FRANCE**



**International
Network
of Basin
Organizations**

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



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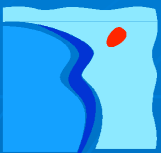


All the river basins in Europe are concerned:



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PARIS-FRANCE**

**International
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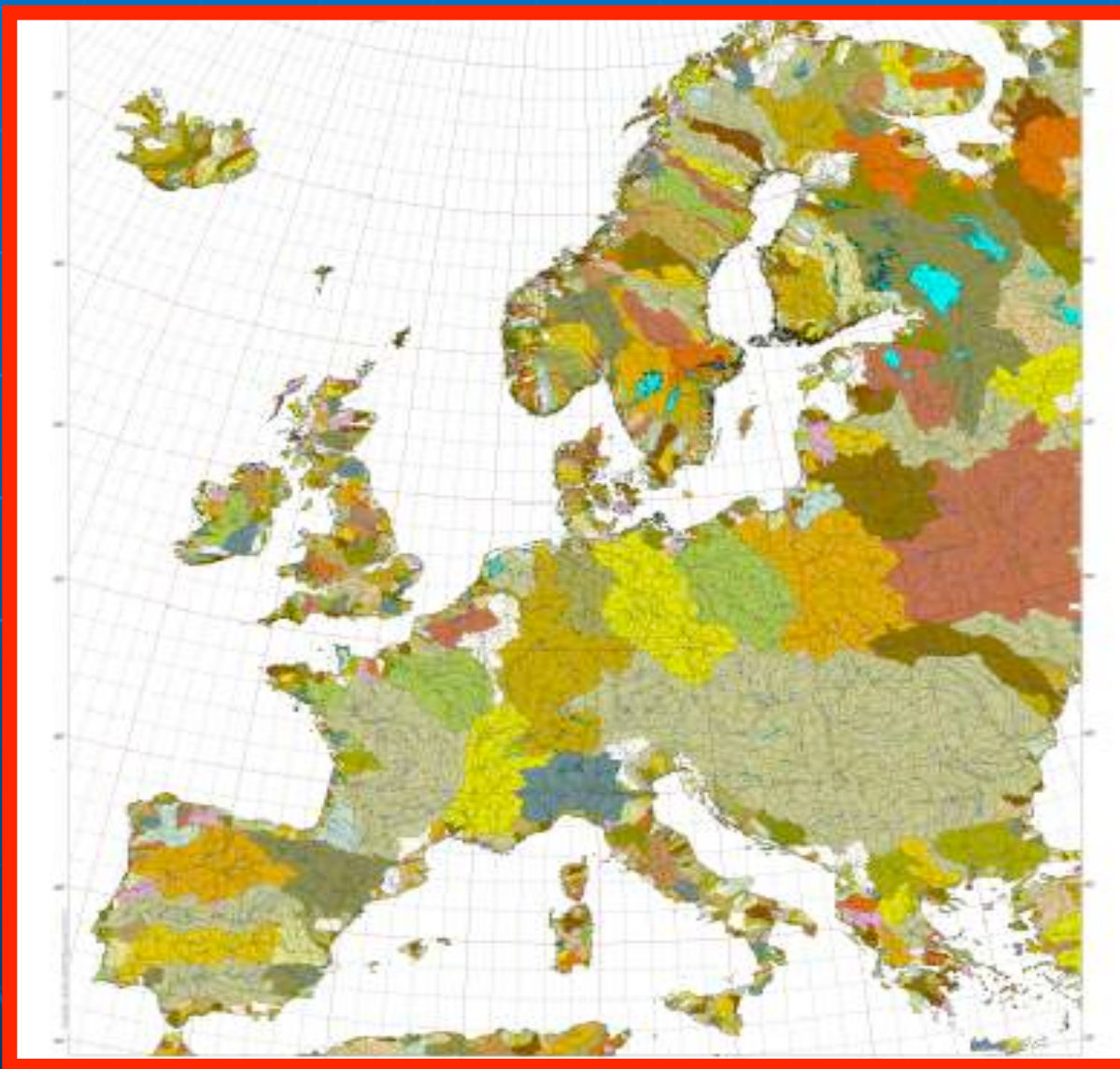


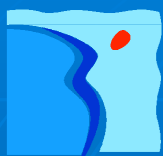
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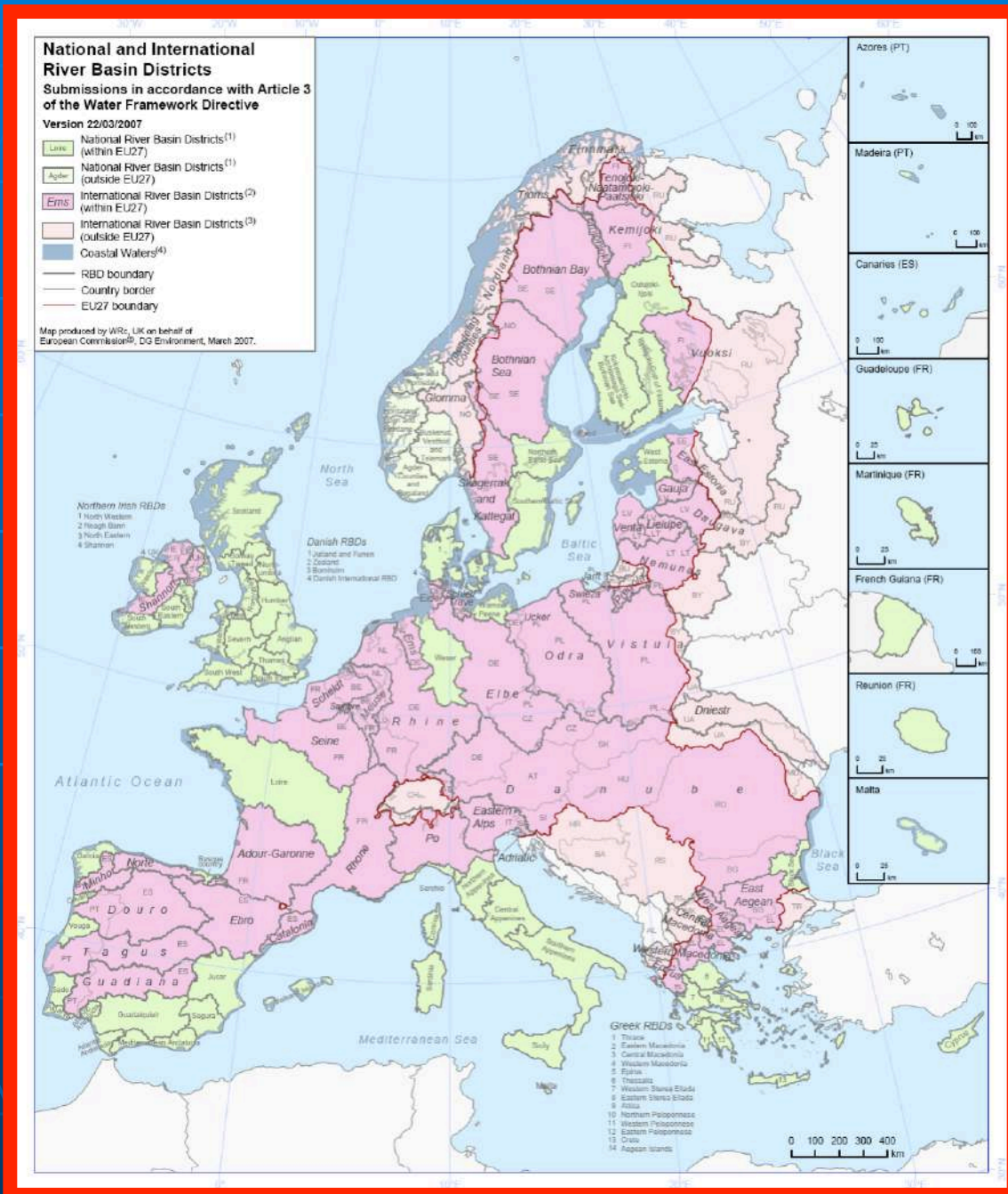
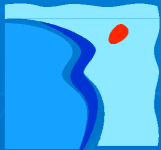
**International
Network
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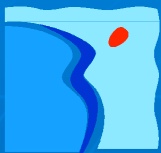




In Europe a majority of basins being transboundary ones!







国际水资源
办公室
法国巴黎

IN FRANCE :

12 HYDRO DISTRICS

Les Districts Hydrographiques français





The European Water Framework Directive



International
Office
For Water
PARIS-FRANCE

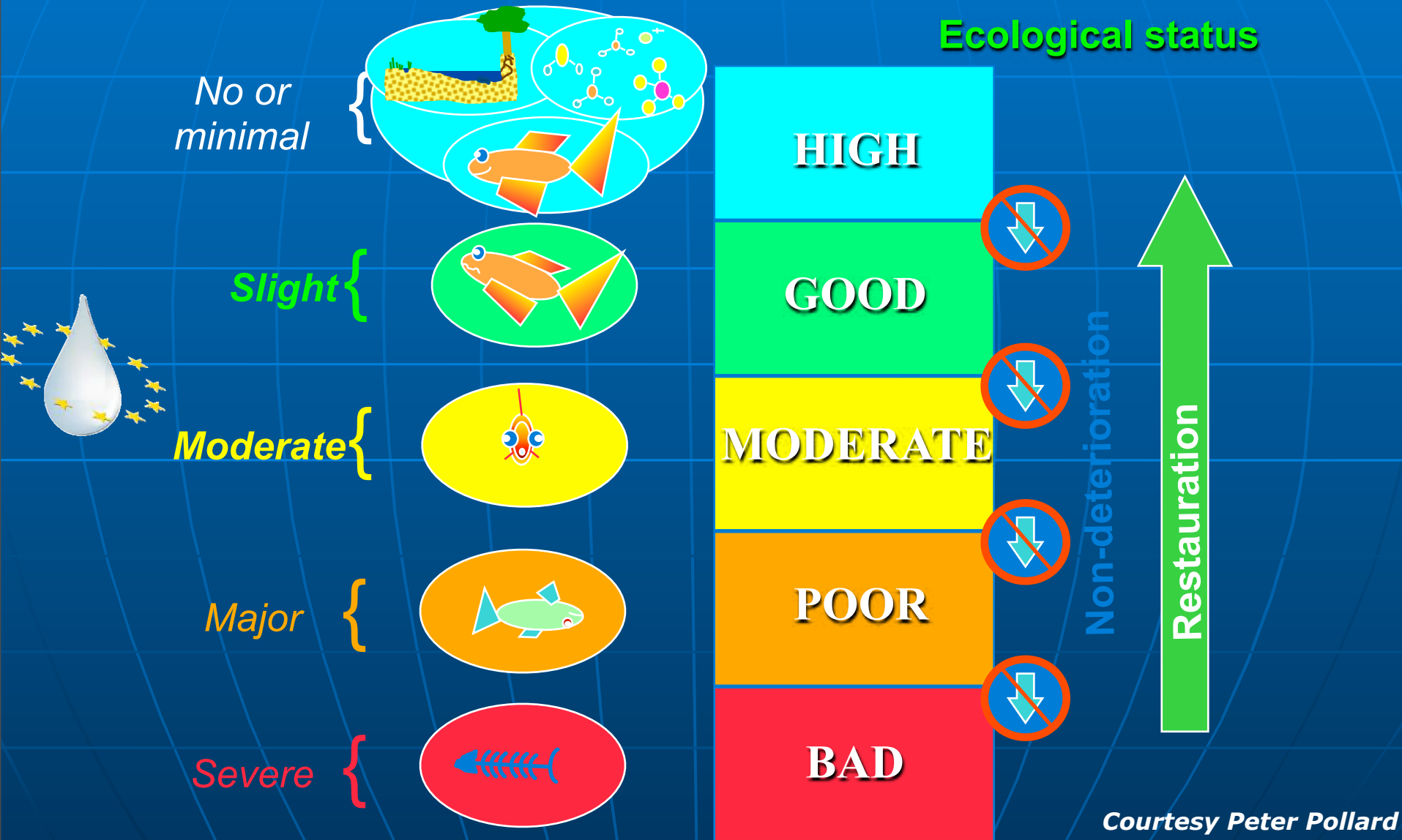
International
Network
of Basin
Organizations

VERY AMBITIOUS CHALLENGES:

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



Ecological objectives





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



ASSESSING WATER QUALITY:





ASSESSING WATER QUALITY:



***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",**
- **THE DEFINITION OF COMMON FRAMES OF REFERENCES.**

ASSESSING WATER QUALITY:



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of Basin
Organizations

In Europe,

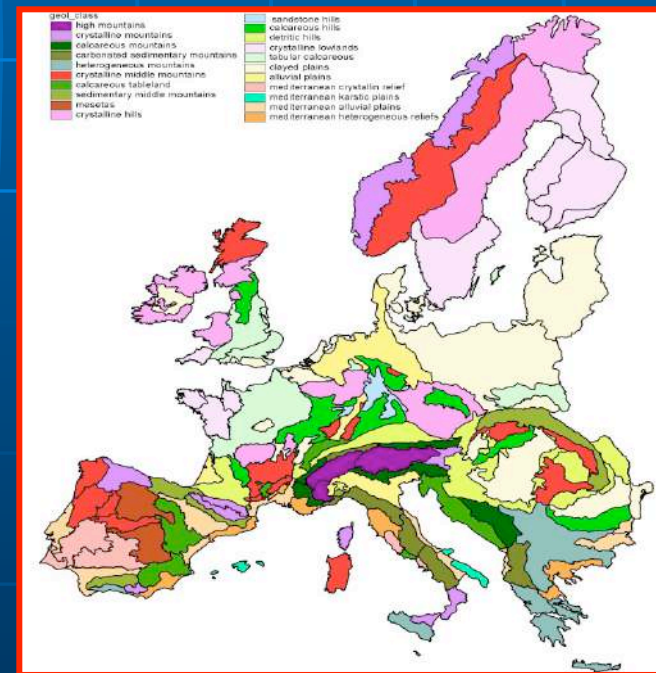
50,000 "WATER BODIES" have been identified:

- 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

Hydro – ecoregions





the European Water Framework Directive

**International
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of Basin
Organizations**



the European Water Framework Directive

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Organizations

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



THE CHARACTERISATION OF THE DISTRICT



2004

2015

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

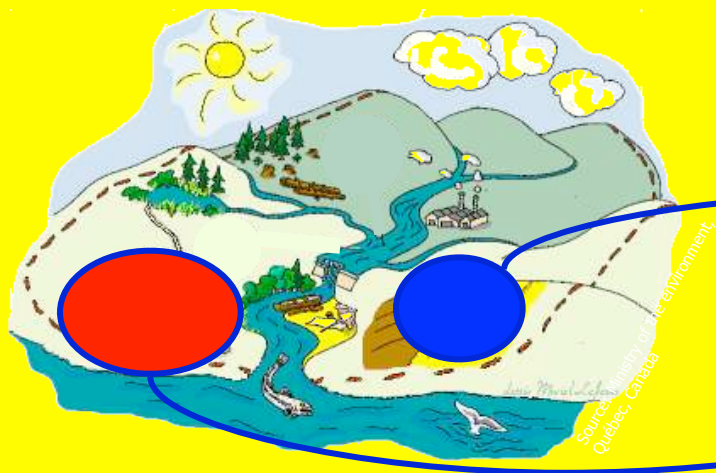


THE CHARACTERISATION OF THE DISTRICT



2004

Description of the initial situation

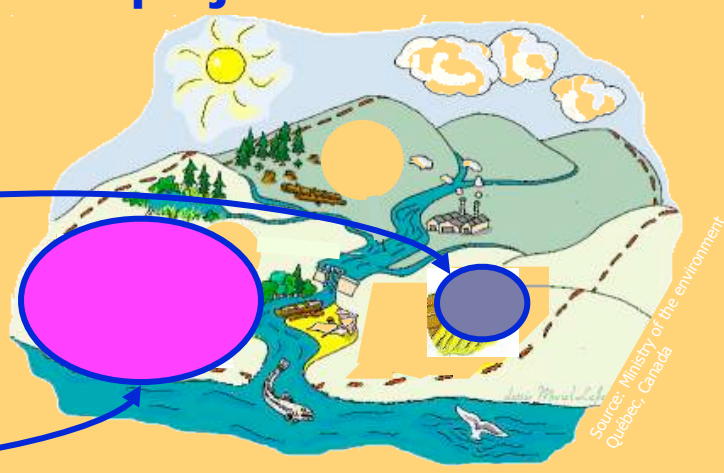


Focus on economic aspects:

- 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

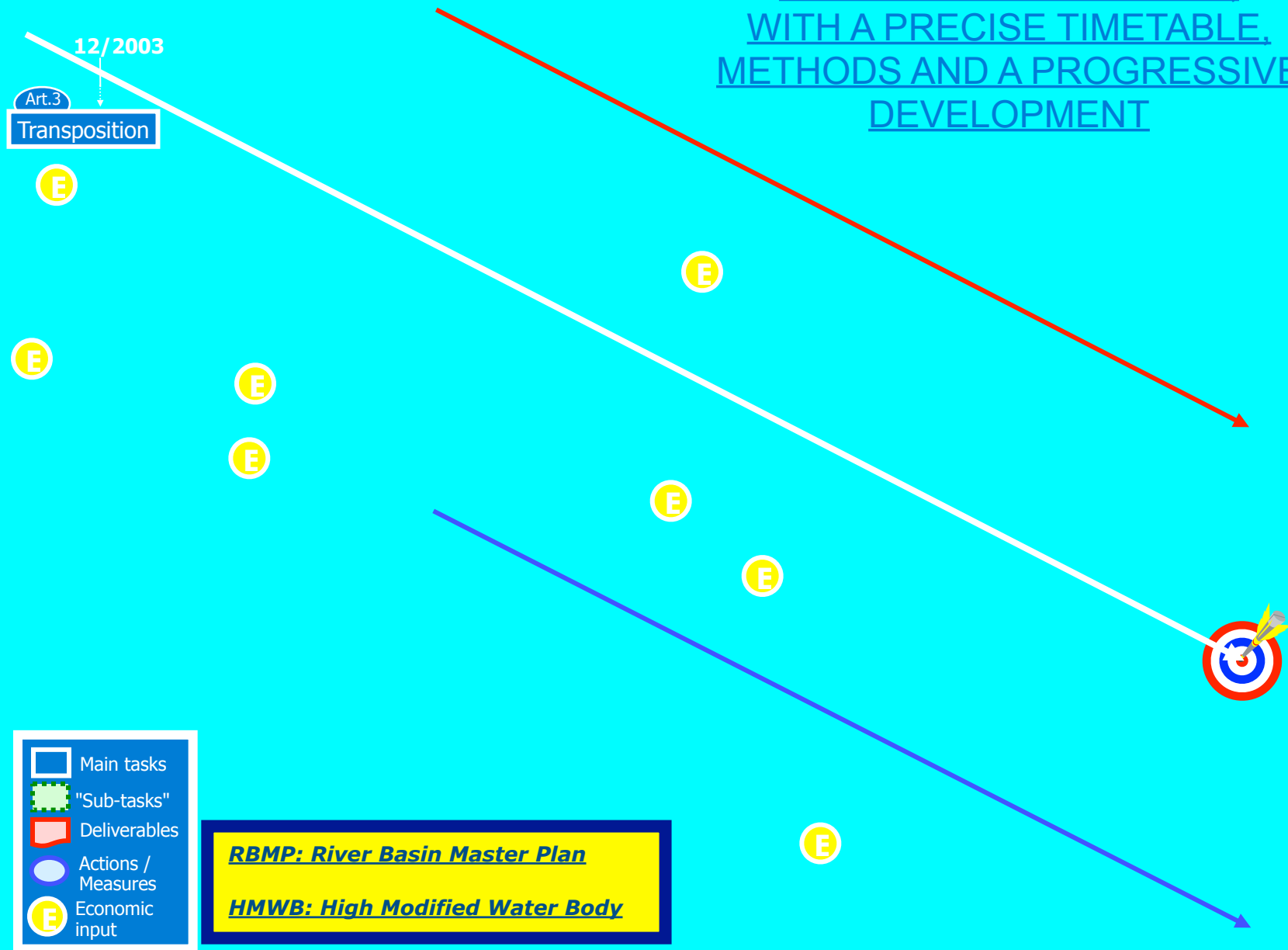


Baseline scenario:

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



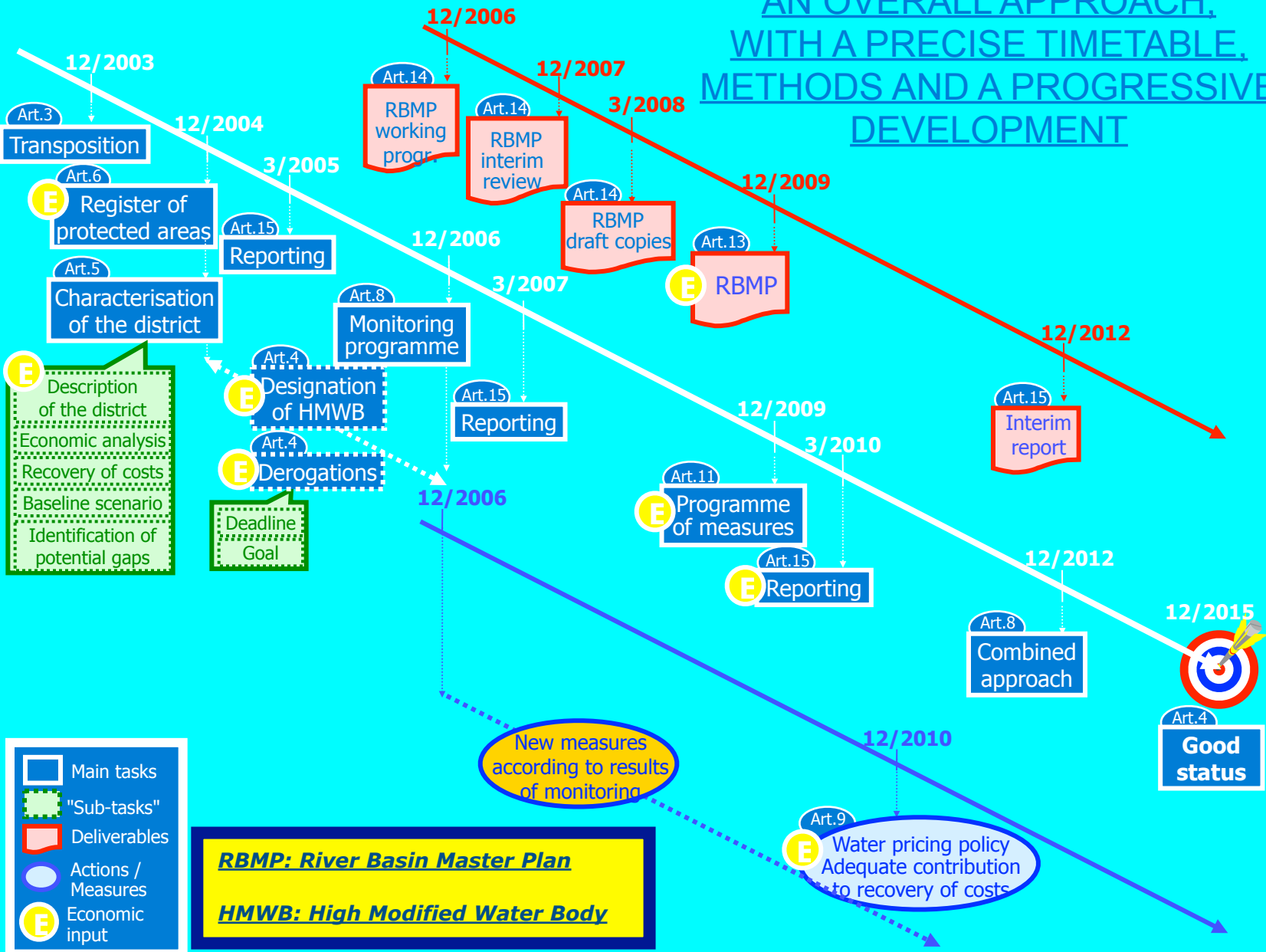
The WFD:
AN OVERALL APPROACH,
WITH A PRECISE TIMETABLE,
METHODS AND A PROGRESSIVE
DEVELOPMENT





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of Basin
Organizations



The WFD:

AN OVERALL APPROACH,
WITH A PRECISE TIMETABLE,
METHODS AND A PROGRESSIVE
DEVELOPMENT

RBMP: River Basin Master Plan

HMWB: High Modified Water Body

- Main tasks
- "Sub-tasks"
- Deliverables
- Actions / Measures
- Economic input

New measures
according to results
of monitoring

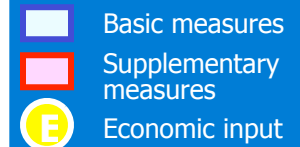
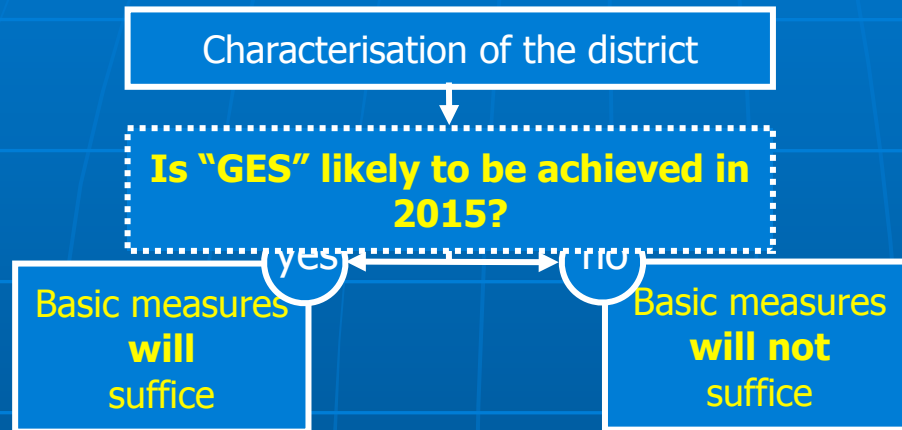
Water pricing policy
Adequate contribution
to recovery of costs



FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES



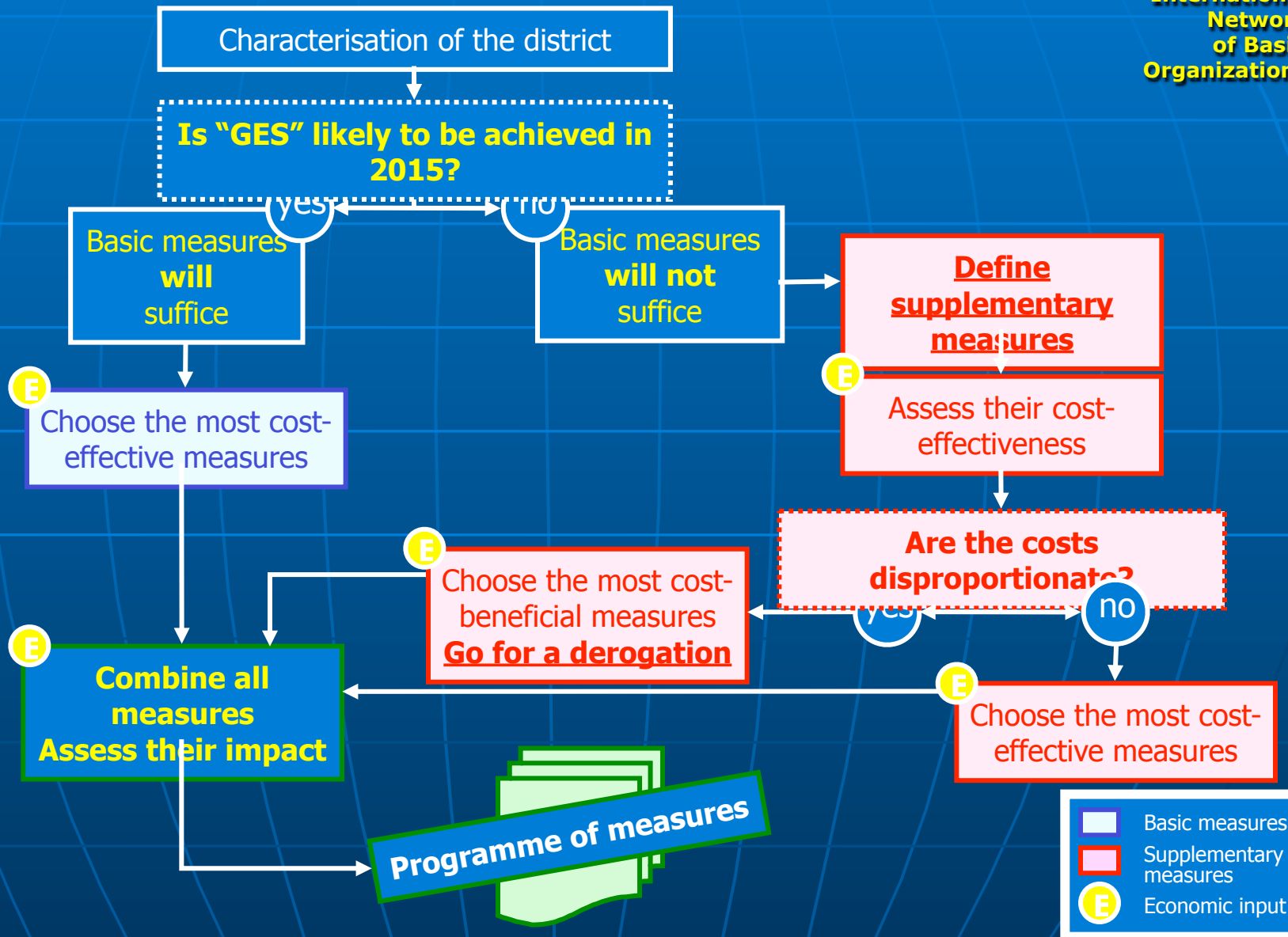
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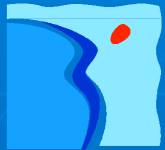


FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES



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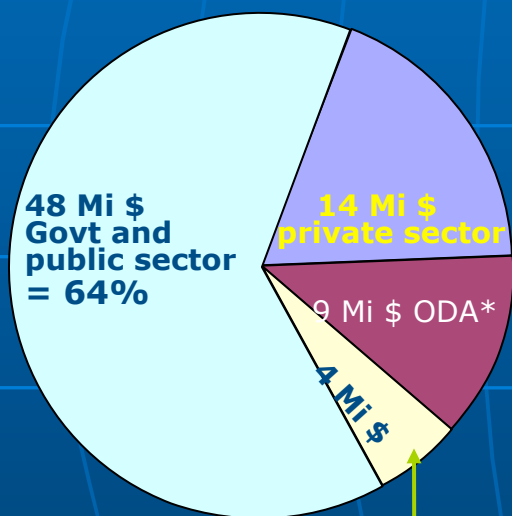
**IF WE ARE NOT ABLE TO MOBILIZE ENOUGH MONEY,
WE SHALL NOT HAVE THE FRESH WATER WE NEED!**



Who will pay ?

FOR THE NEXT 25 YEARS

NOW



International firms

48 Mi \$
Govt
and public sector

14 Mi \$
private sector

9 Mi \$ ODA*

Who will pay

?

75 milliards \$ / year

* Official Development Assistance



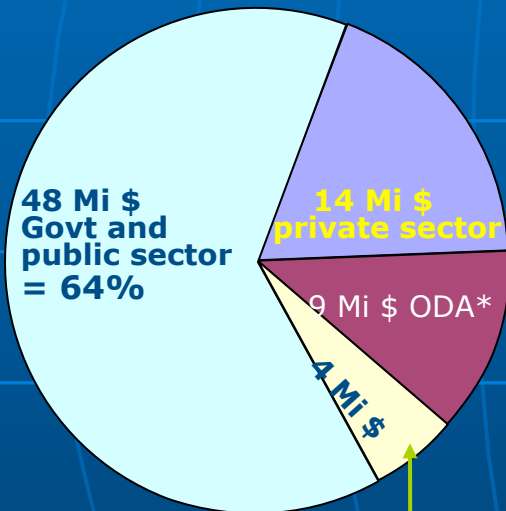
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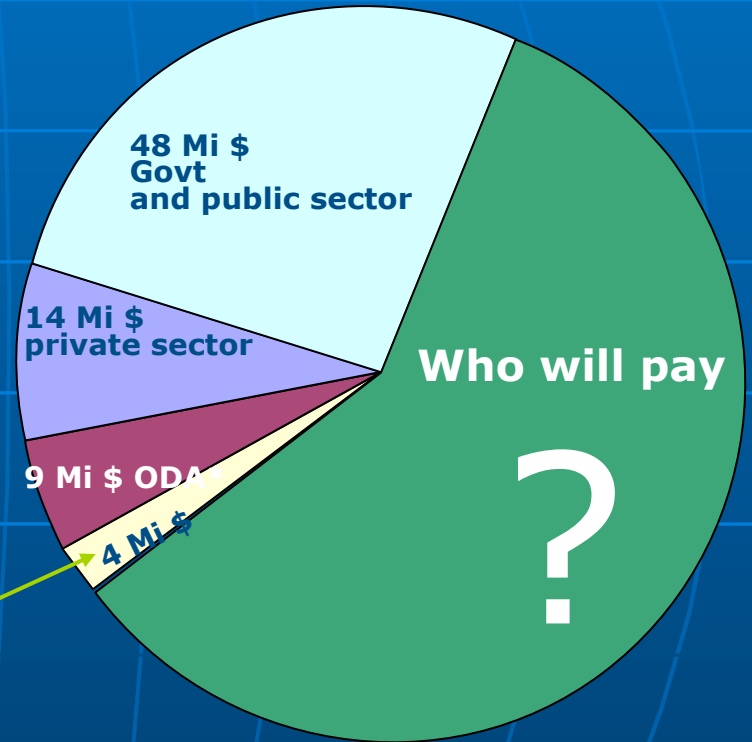
Who will pay ?

FOR THE NEXT 25 YEARS

NOW



International firms



75 milliards \$ / year

180 milliards \$ / year

* Official Development Assistance



TRANSPARENCY OF COSTS AND POLLUTER-PAYS PRINCIPLE:



International
Network
of Basin
Organizations

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



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International
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Sum = full cost



the mobilization of specific financial resources,

VARIOUS COMPLEMENTARY SYSTEMS FOR COST RECOVERY: THE 3x"T"

TAXES:

*** Paid to the GENERAL STATE BUDGET:**

-  **General taxes or penal fines**
-  **New ecological tax.**

*** Water-related CHARGES:**

-  **National water charges – transiting through
"Special Accounts of the Treasury"**
-  **Basin water charges – levied by the Water Agency**

TARIFFS OF COMMUNITY SERVICES:

-  **Price of raw water – levied by big developers**
-  **Price of drinking water – levied by the municipalities
or water suppliers**

TRANSFERTS: International aid or from other economical sectors.



"POLLUTER-USER-PAYS" PRINCIPLE



**Withdrawal
charges**

**Pollution
charges**

**Water Agency budget
voted by the Board of Directors
according to the River Basin Committee's decision**

10 % ↓

Studies & Research

Agency Operation

Monitoring networks

↓ 90 %

Aids = 5-year Programme

Large developers

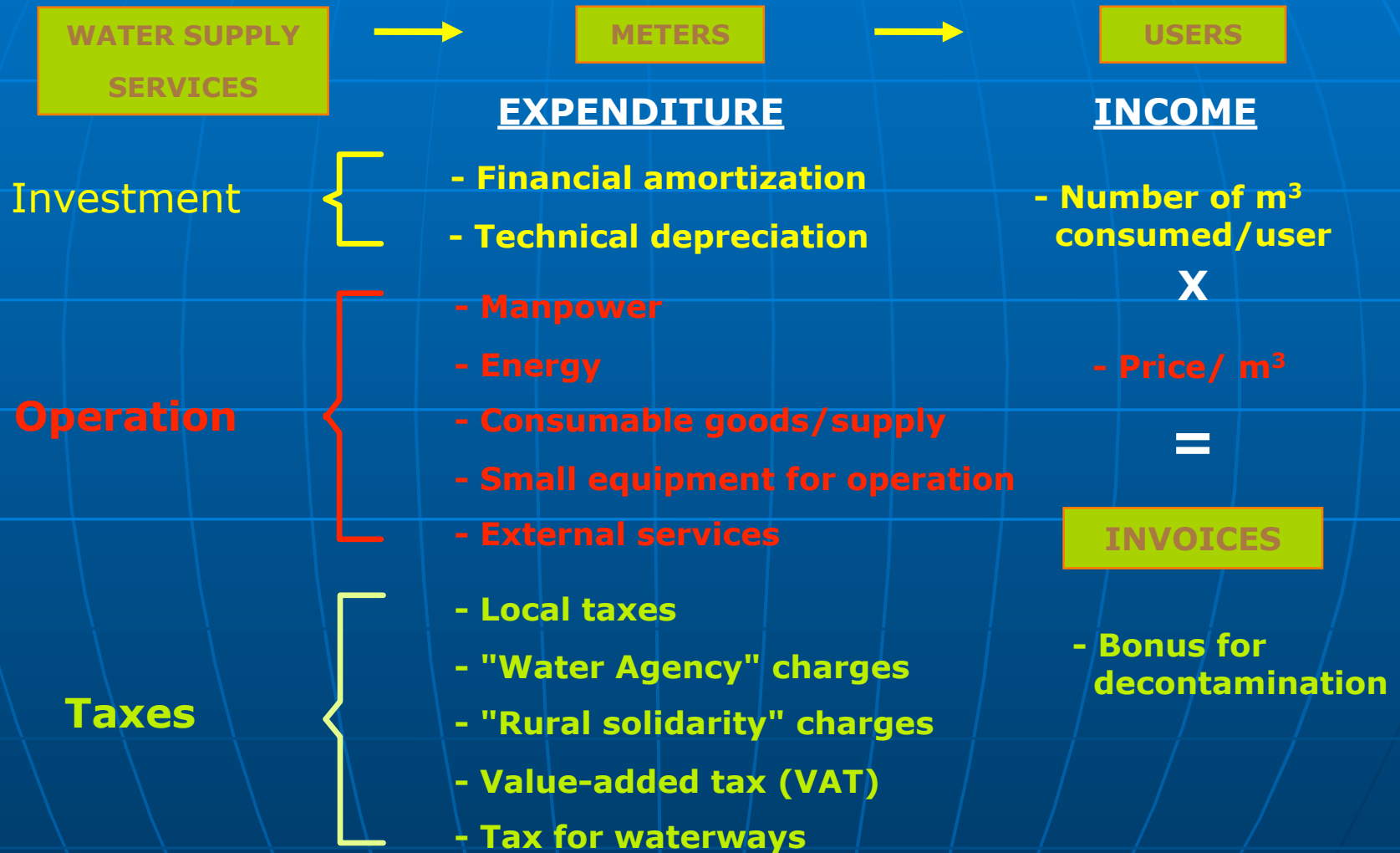
Local communities

Farmers

Industrialists



"WATER MUST PAY FOR WATER"



$$\text{TOTAL EXPENDITURE} = \Sigma \text{ CONSUMPTION} \times \text{PRICE}$$



WATER PRICE IN FRANCE



WATER

SEWERAGE

WATER AGENCY

TAXES

International
Office
For Water
PARIS-FRANCE

WATER
CONSUMPTION
+
MAINTENANCE
OF PIPES AND
METERS

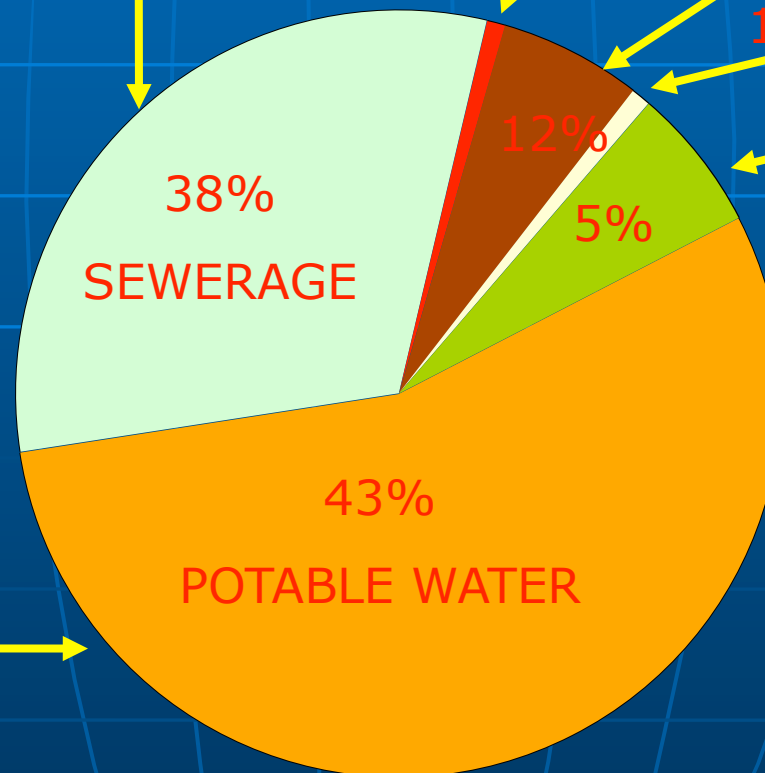
WASTEWATER
COLLECTION
AND TREATMENT

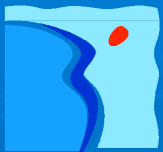
WITHDRAWAL
CHARGES

POLLUTION
CHARGES

NATIONAL FUND
FOR
WATER SUPPLY
DEVELOPMENT

VAT





**CONNECTED
DOMESTIC OR
INDUSTRIAL USERS**

**WATER
INVOICES**

- cost of services
- charges to be paid to the Water Agency

**POTABLE WATER
SUPPLY**

**WASTEWATER
COLLECTION AND
TREATMENT**

**MUNICIPAL SERVICES FOR
POTABLE WATER SUPPLY
AND SEWERAGE**

**POLLUTION
CHARGES**

**RIVER BASIN
COMMITTEE**

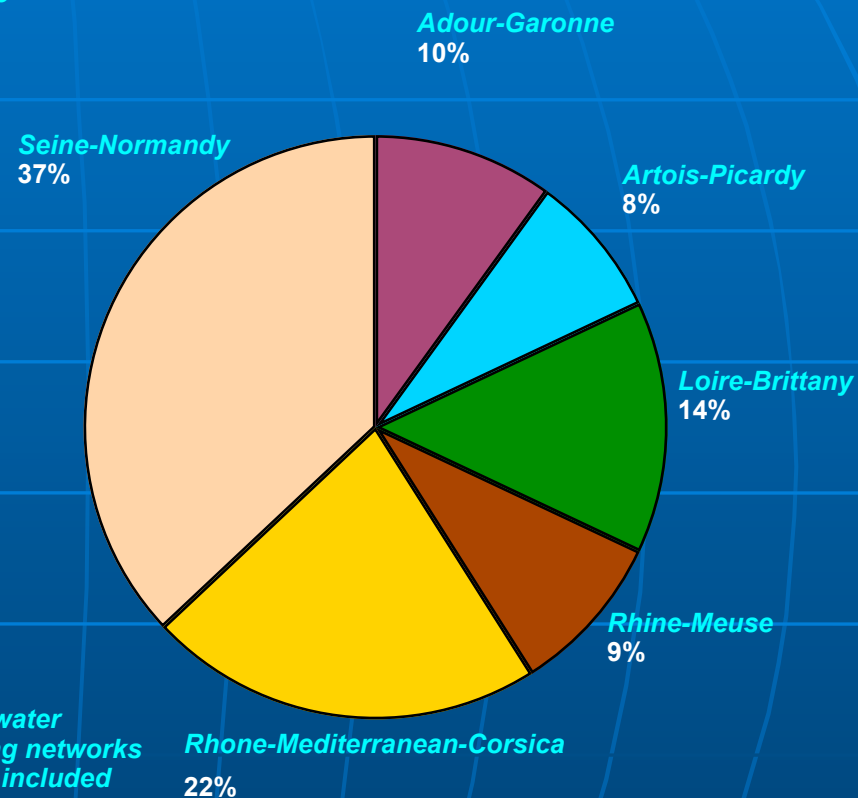
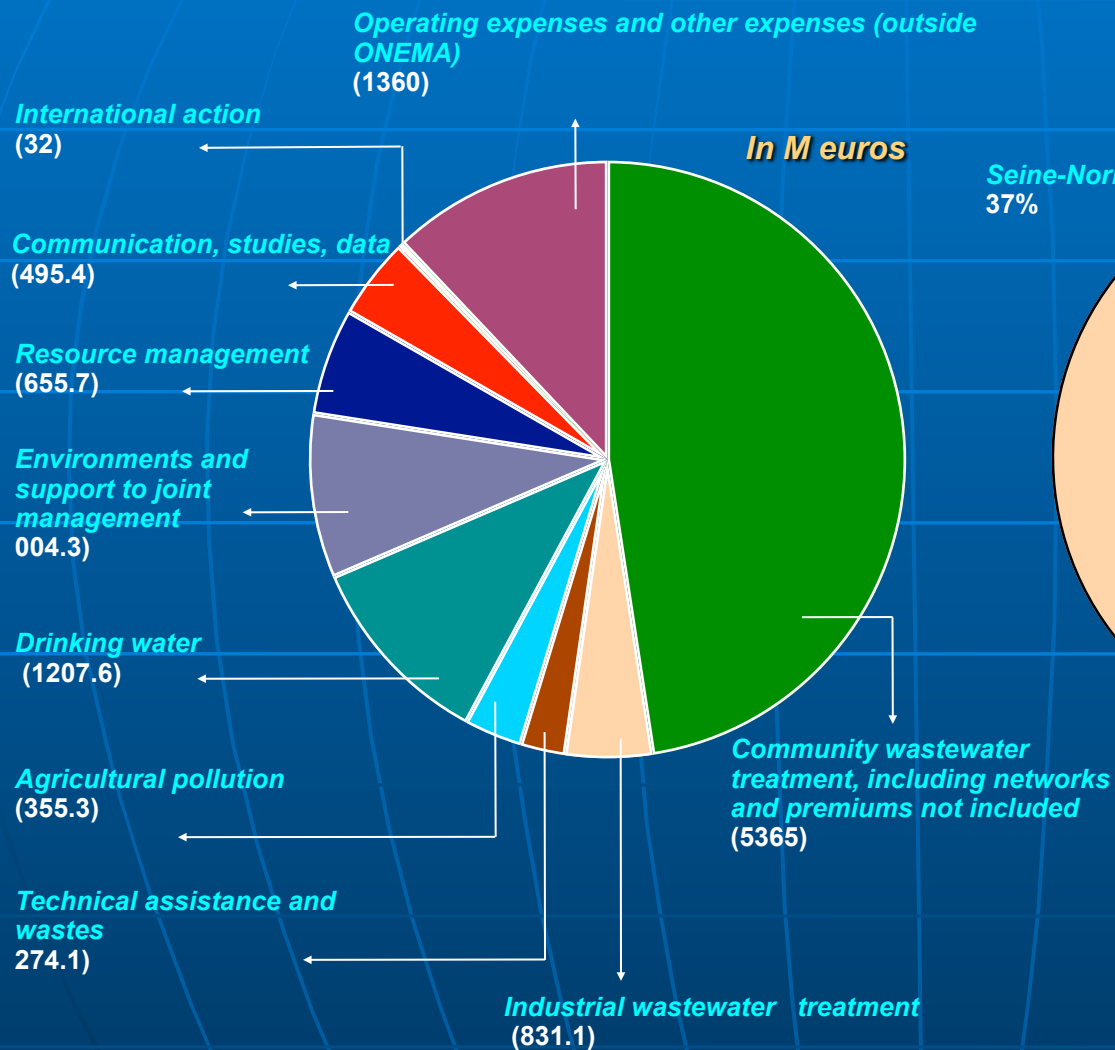
**BONUS FOR
GOOD OPERATION**

**WITHDRAWAL
CHARGES**

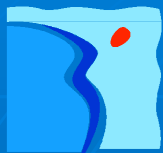
**WATER
AGENCIES**

**SUBSIDIES FOR
EQUIPMENT OR
SOFT LOANS**

11.6 billion euros for water and aquatic environments



IN FRANCE



Un prix moyen de 3,72 euros par mètre cube pour une consommation annuelle de référence de 120 mètres cube et pour plus de 15 millions d'habitants du bassin





**International
Office
For Water
PARIS-FRANCE**

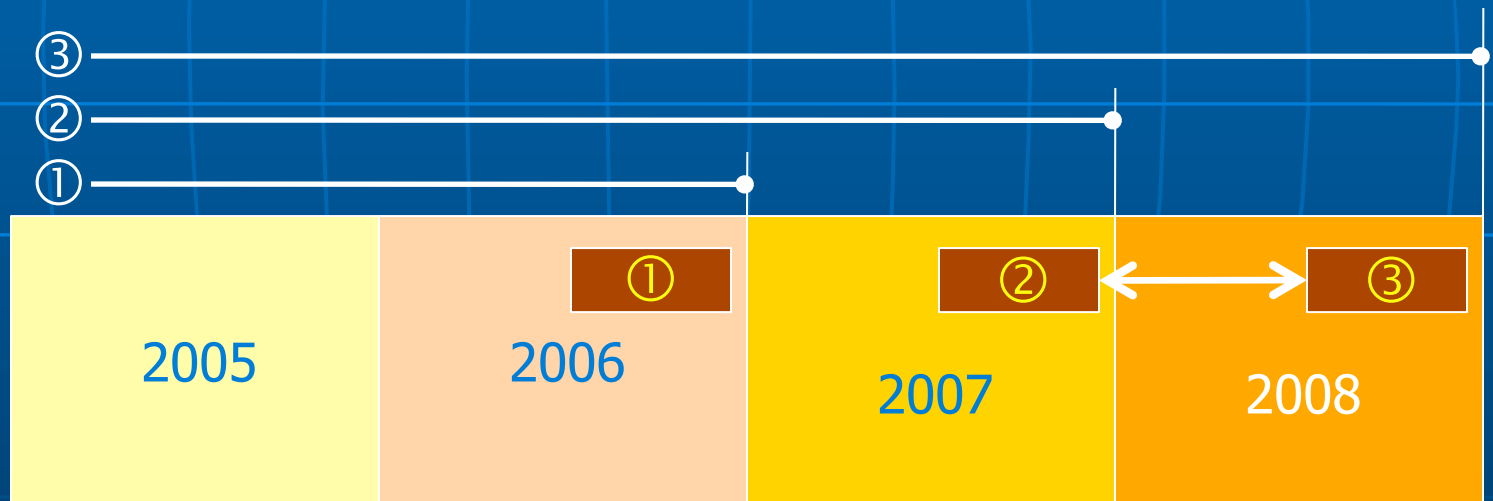


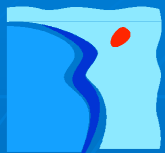
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Office
For Water
PARIS-FRANCE

Obligations of the directive

Member States have to consult the public on :

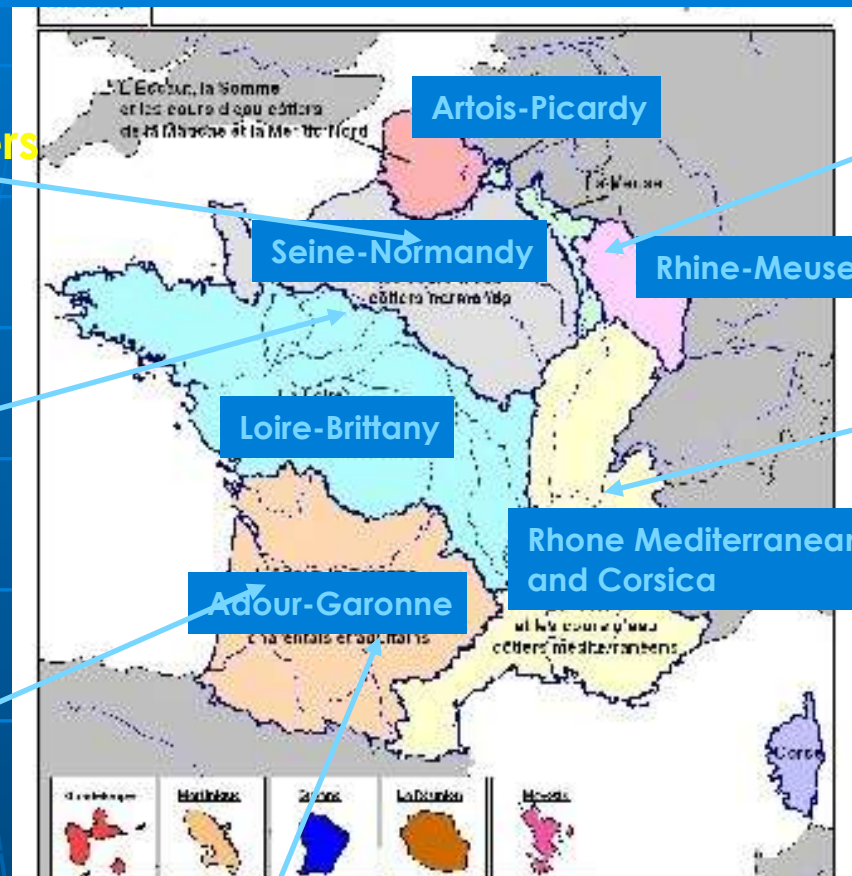
- ① the timetable and work programme,
- ② an overview of the significant water management issues identified in the river basin
- ③ draft copies of the river basin management plan





Main actions implemented

⇒ In various basins



Support of relay partners
for facilitating actions

Organization
of 25 public
debates in towns,
realization of
explanatory films

Support of relay
partners

Questionnaires
sent to all
households

Insertion of the
questionnaire in
the magazines of
local authorities
Support of relay
partners
Organization of a
citizen conference

Organization of exchange circles with
initiate and non-initiate people
Postings in railway and bus stations
Support of relay partners



- **RHINE – MEUSE
RIVER BASINS AND DISTRICTS**



Promotion campaign in the media:
« MERCI, d'avance! »

- **Postal delivery of the
questionnaires in the mailboxes
(1 800 000 copies)**

BLOUP, BLOUP!! & CLAQ, CLAQ!!

2 friendly mascots

to get the public support

(so that it takes parts in the consultation)



● RHINE – MEUSE RIVER BASINS AND DISTRICTS

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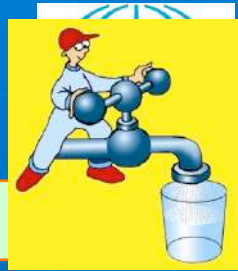
to get the public support

(so that it takes parts in the consultation)





WATER PROFESSIONS - II -



The best staff structure in the water sector is estimated at

- 500 to 700 staff members

- * for 1,000,000 inhabitants covered by a water supply service
- * for 1,000,000 inhabitants connected to a sewerage network

- 5 to 8 staff members

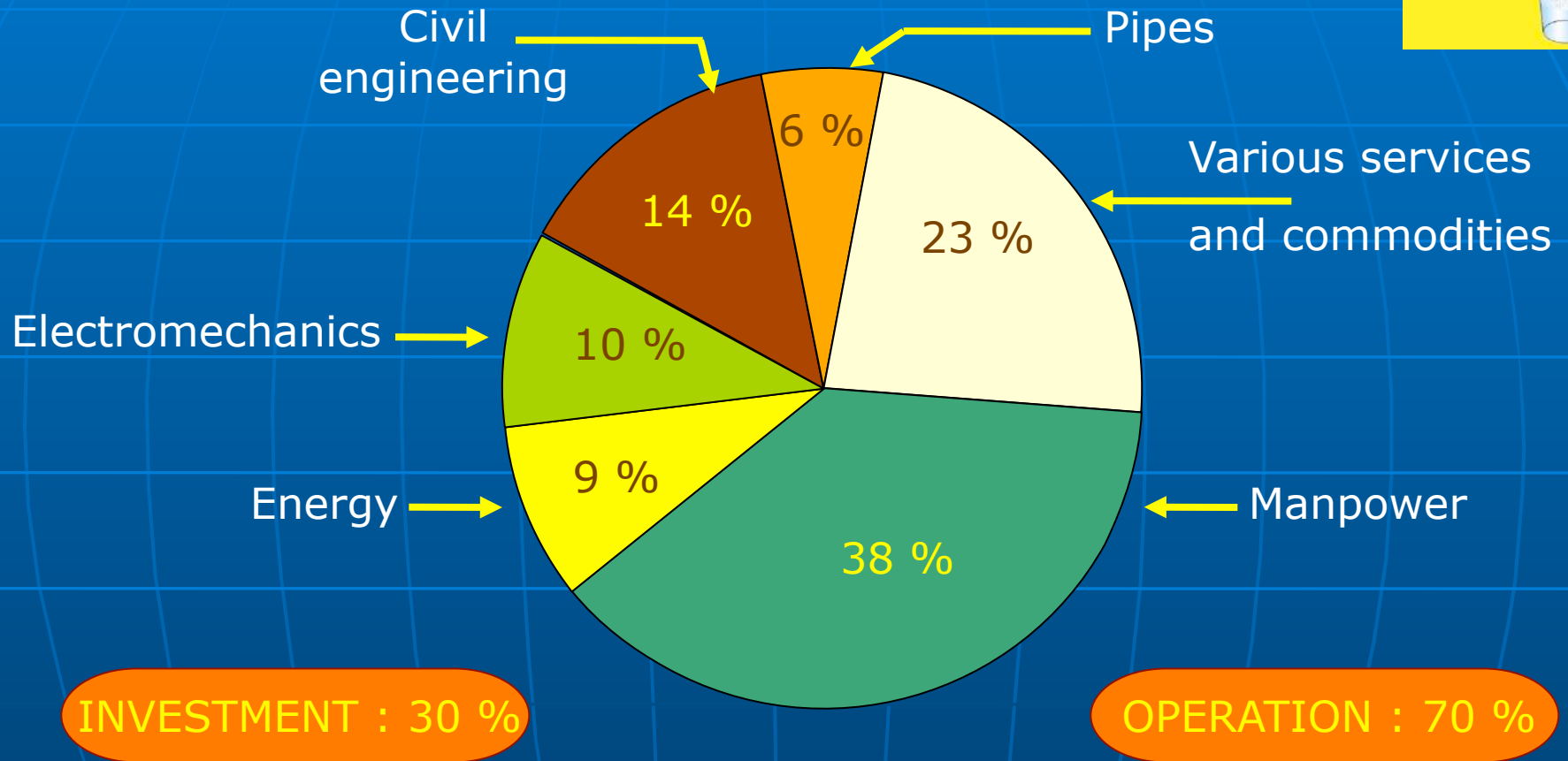
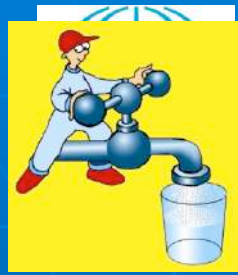
- * per 1.000.000 m³ used in the other sectors
(hydropower, industry, irrigation...)

- 80 % of workers and technicians

- 15 % of middle managers-foremen
- 5 % of engineers and senior executives



WATER PROFESSIONS - III -



Personnel costs represent :

- 38 % of the total water cost
- 55 % of operating costs



TECHNICAL SOLUTIONS DO EXIST,
BUT :
THE PROBLEMS ARE ABOVE ALL
INSTITUTIONAL ONES:



water resources management should be organized:



- 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;**



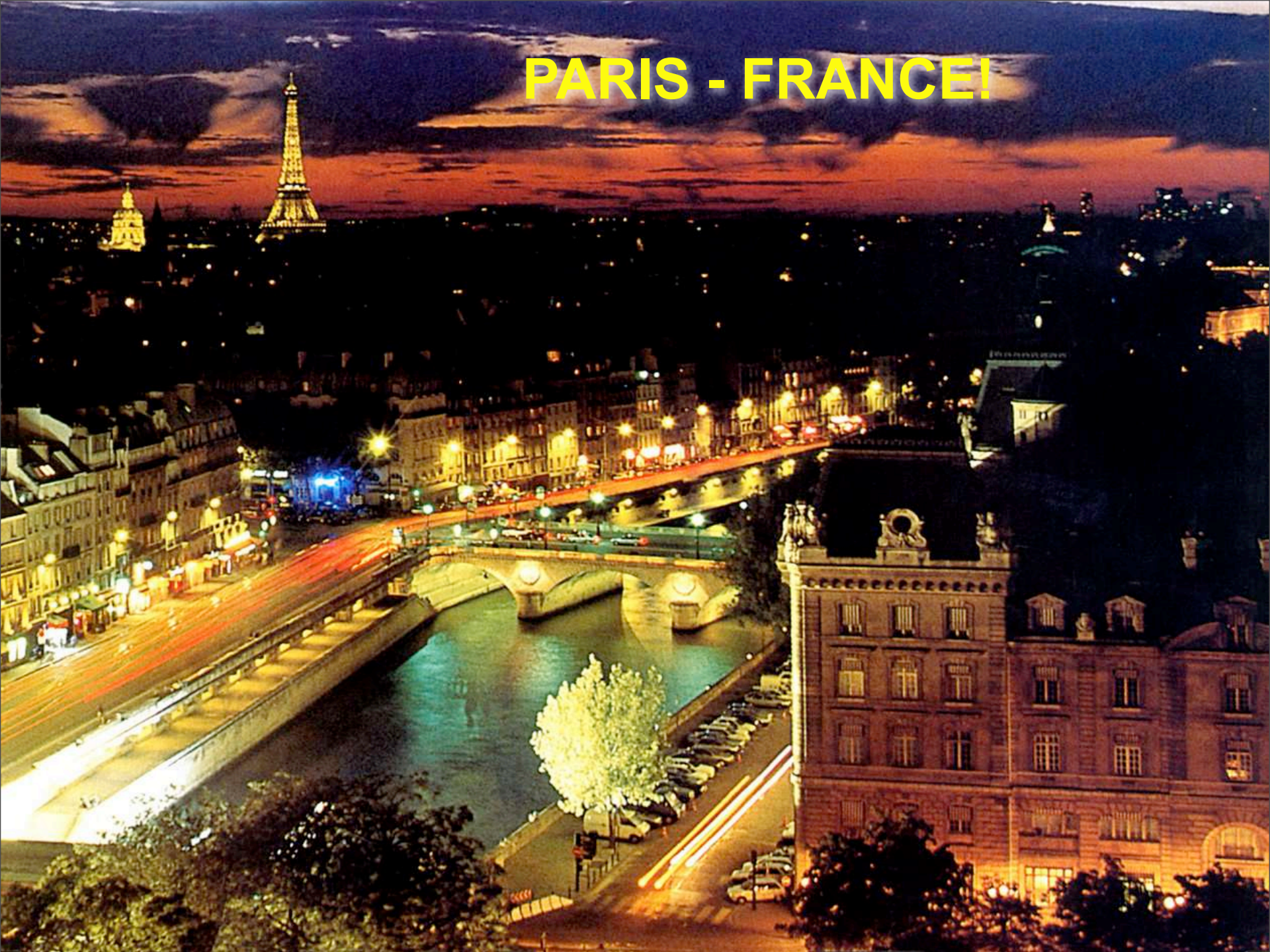


water resources management should be organized:



- 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.**

PARIS - FRANCE!



mardi 22 mai 2012

MERCI DE VOTRE ATTENTION!
THANK YOU FOR YOUR ATTENTION!

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

