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RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN
INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS
RED INTERNACIONAL DE ORGANISMOS DE CUENCA
REDE INTERNACIONAL DE ORGANISMOS DE BACIA
Международная сеть водохозяйственных организаций
الشبكة الدولية لهيئات الأحواض



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Jean-François DONZIER
Secrétaire Technique Permanent
Réseau International Organismes de Bassin

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

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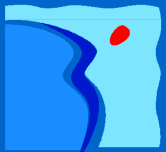
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International Network of Basin Organizations

European Group of Basin Organizations EUROPE-INBO

12th International Conference
“EUROPE-INBO 2014”

ON THE IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE
13-15 November 2014 – Bucharest, Romania.



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**UN TRES GRAND MERCI
A NOS AMIS ROUMAINS
POUR LEUR MERVEILLEUX
ACCUEIL !!**

**THANKS
TO OUR ROMANIAN GUESTS
FOR THEIR MARVELOUS
WELCOME!!**



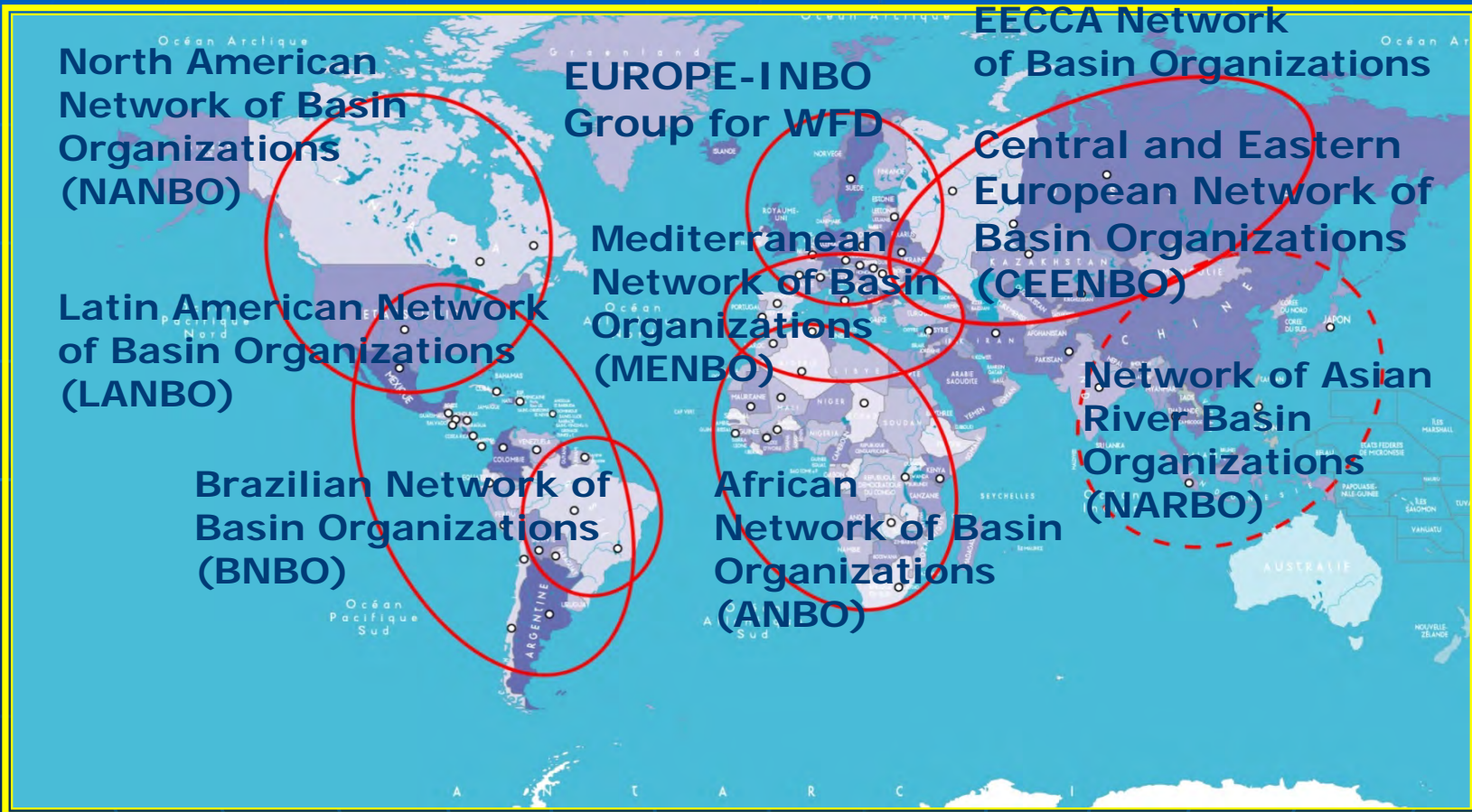
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Created in 1994 to facilitate operational exchanges between BO



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INBO's REGIONAL NETWORKS



192 FULL MEMBERS or PERMANENT OBSERVERS
in 81 COUNTRIES

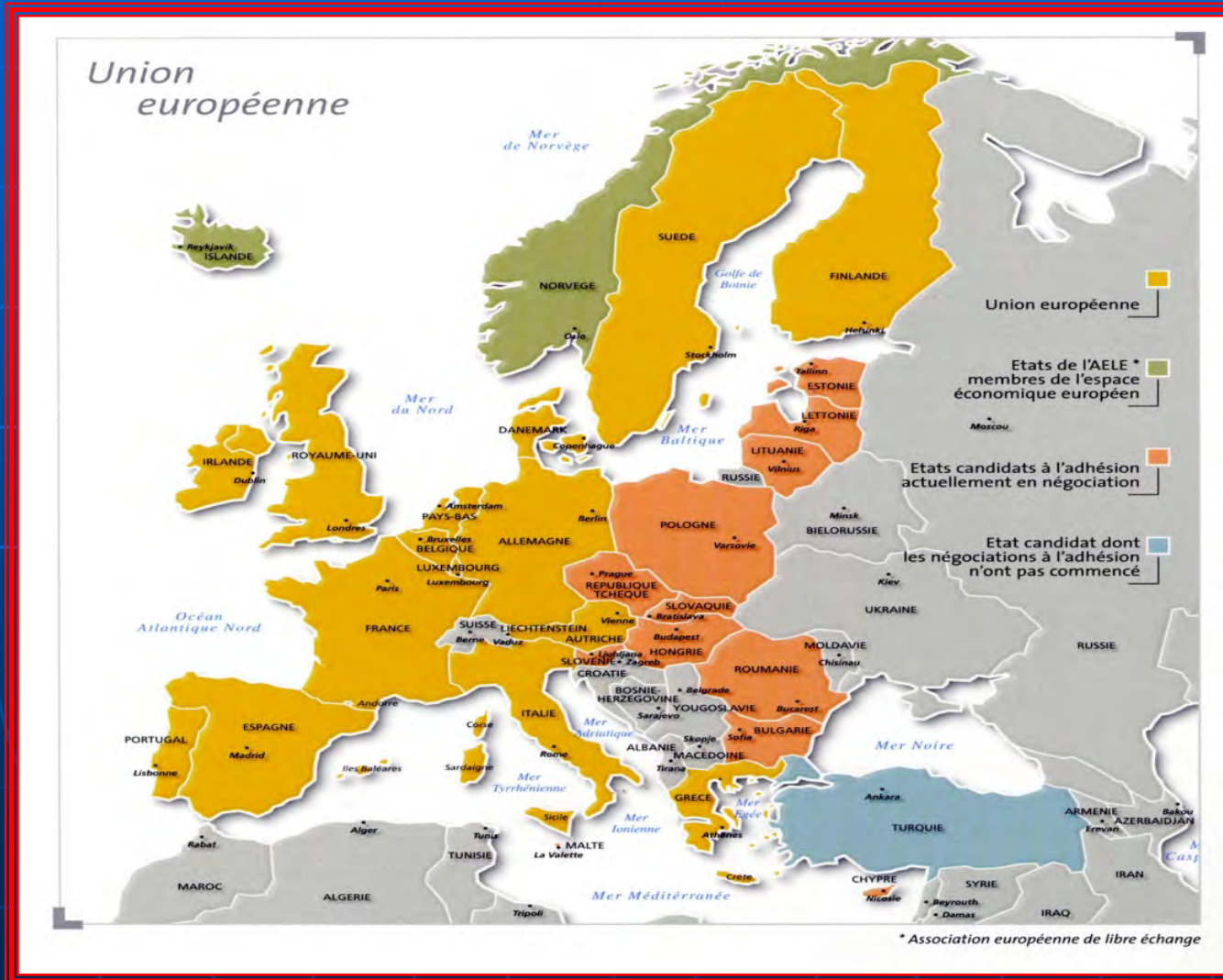


In Europe, for the first time in the World, 28 EU countries + 2 adopted The same basin oriented approach!



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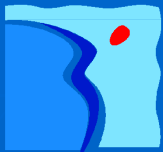
Implementation of
the European Water Framework Directive
in the 28 countries

of the enlarged European Union,

as well as in the candidate countries for accession,
is a major milestone for promoting the principles
of good governance advocated by INBO.

Directive 2000/60/EC of 23 October 2000

establishing a framework for the Community action in the field of water policy.



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In the European Union, for the first time in the World,
28 EU countries + 2 adopted
The same basin oriented approach!

■ **Directives:**

- **Water Framework Directive**
- **Groundwater Directive**
- **Directive on Environmental Quality Standards (EQS)**
- **Urban Waste Water Directive**
- **Nitrates Directive**
- **Floods Directive**

■ **+ quantitative and adaptive water management issues:**

- **Communication on Water Scarcity and Drought**
- **Policy paper accompanying the White Paper on Adapting to Climate change on Water, Coasts and Marine Issues.**



the « EUROPE INBO » Group



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Due to the significance of the stakes and the task to be carried out, many Basin Organizations, (INBO members or observers), have expressed the idea of regular meetings among them:

- ❖ for exchanging on difficulties encountered, results or very operational and concrete experiences accumulated in the field
- ❖ for strengthening the common strategy for an operational implementation of the Water Framework Directive (WFD).

*INTERNATIONAL SEMINAR
VALENCIA (SPAIN) 11 / 12 NOVEMBER 2003*



MINISTERIO
DE MEDIO AMBIENTE

SECRETARÍA
DE ESTADO
DE AGUAS Y COSTAS

CONFEDERACIÓN
HIDROGRÁFICA
DEL JÚCAR



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VATTENMYNDIGHETERNA
The Swedish River Basin District Authorities



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Stockholm 2009





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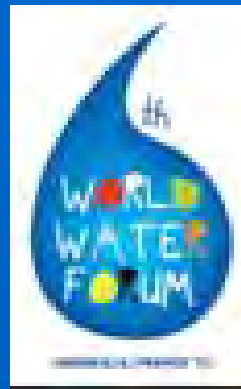


EURO RIOB - Megève
Septembre 2010





4 – Euro-Mediterranean countries Porto, 27-30 September 2011



EURO-RIOC –2011



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" EUROPE INBO 2012", A ISTANBUL

17 - 19 OCTOBER 2012



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CEENBO
 Central and Eastern European Network of Basin Organisations


**Сеть водохозяйственных организаций стран
Восточной Европы, Кавказа и Центральной Азии**





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"EUROPE-INBO 2013"



13-16 November 2013 - Plovdiv, Bulgaria.



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13 November 2013 - Plovdiv, Bulgaria.

12th International Conference "Europe-INBO 2014"

Bucharest - Romania - 12 - 15 November 2014

Implementation of the European Water Framework Directive

- **Wednesday 12 November**
- 08:30 Liaison bureau Meeting CEENBO / Liaison bureau Meeting MENBO.
 - 09:30 Workshop: Regional Europe Process 7th WWF.
 - 12:00 Lunch at the hotel.
 - 13:00 Workshop: River Restoration and NWRM.
 - 17:30 Liaison bureau Meeting INBO.
 - 20:00 Cocktail.
- **Thursday 13 November**
- 09:30 Official opening ceremony.
 - 10:00 Message from DG Environment - EC.
 - 10:45 Presentation of the Romanian water policy and institutions.
 - 11:45 Objectives and actions of "Europe-INBO" Group of European Basin Organizations.
 - 13:00 Lunch at the hotel.
 - 14:30 **Roundtable 1: Preparation of WFD 2nd Management Plans (2016 - 2021):**
Integration of water quantity issues; Adaptation to climate change; Better integration with other EU Directives (Flood and Marine Strategy) and with other sectoral policies.
 - 16:45 **Roundtable 2: Natural Water Retention Measures / River restoration:**
Presentation of workshop results; study and guidance developed within CIS.
 - 19:30 Dinner offered by ANAR.
- **Friday 14 November**
- 09:00 **Roundtable 3: Implementation and funding of Measures:**
Access to funds and particularly to EU Structural Funds; Principle of cost recovery; Economic analysis for cost-effective combination of measures; ...
 - 10:30 **Roundtable 4: Water governance in transboundary basins:**
WFD International Districts; Role and means of International Commissions; Bi and Multilateral Agreements and Conventions, ...; Implementation of WFD principles in EU Neighboring Countries.
 - 12:30 Lunch at the hotel.
 - 13:30 Visit to Palace of Parliament.
 - 15:00 Preparation for 7th World Water Forum, 2015 Daegu.
 - 16:00 General synthesis, conclusions. Bucharest Declaration
Transfer of Europe INBO Presidency from Bulgaria to Romania.
 - 20:00 Dinner offered by MMSC.
- **Saturday 15 November**
- 09:00 Field visit.
 - 14:00 Departure of participants.

To participate,
Please register!

www.inbo-news.org





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La conférence porte sur les grands thèmes d'actualité de la mise en œuvre de la Directive – Cadre (DCE) dans les districts hydrographiques nationaux et transfrontaliers.

The meeting will focus on the major current topics on the implementation of the Framework Directive (WFD) in the National and Transboundary River Basin Districts.

*12th International Conference
“EUROPE-INBO 2014”*

ON THE IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE

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Presentation of workshop results; Guidance documents developed within the CIS...

Roundtable 3: Implementation and funding of Programmes of Measures:

Mobilization of funds and especially access to EU Structural Funds; Principle of cost recovery; Economic analysis for cost-effective combination of measures...

Roundtable 4: Water governance in Transboundary Basins:

WFD International Districts; Role and means of International Commissions; Bi and Multilateral Agreements and Conventions, Implementation of WFD principles and tools in EU Neighboring Countries.



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**1st Drafting
of the Bucharest Europe-INBO Declaration:**

**1er brouillon
de la déclaration Euro-RIOB de Bucarest:**



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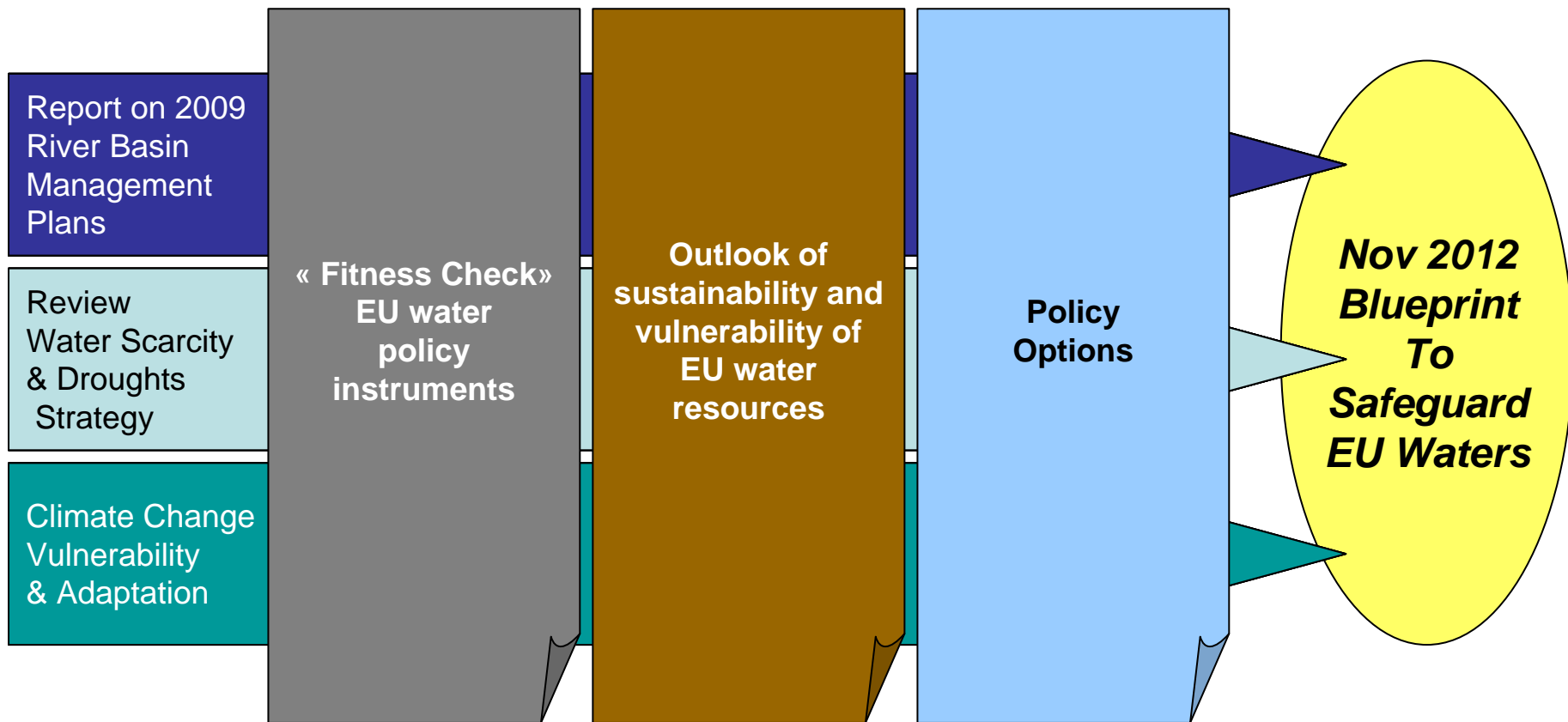
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- Approval of the choice of Grece for hosting "EUROPE – INBO" in 2015,
- Candidatures to host "EUROPE – INBO" in 2016 and 2017:
 - France – Lourdes in 2016,
 - Ireland – Dublin in 2017.



Synthesis of policy recommendations building on on-going assessments

Impact Assessment





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Improve Implementation



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- Address problems identified in:
 - Fitness Check
 - Assessment River Basin Management Plans
 - Review Water Scarcity and Droughts Policy,
 - the White Paper on Adapting to Climate change on Water, Coasts and Marine Issues



Assessment of RBMPs identified...

- **Hydromorphological alteration and diffuse pollution**
are the most significant issues
leading to massive failure in WB status.
- **Measures implemented until now have been insufficient.**
- **The main causes** of negative impacts on water status
are interlinked with climate change, land use,
economic activities, agriculture, tourism, urban development
and demographic growth.....



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Improve Implementation more than create new regulations



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- ***Improving the implementation of current EU water policy;***
- ***Fostering the integration of water and other policies;***
- ***Seeking the completion of the current policy framework.***



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Une des principales questions à aborder aujourd'hui:
Quand et par quels moyens va-t-on pouvoir atteindre
le bon état écologique des eaux
et des écosystèmes aquatiques dans l'Union Européenne ?

One of the key issues is now:
When and with that means will it be possible
to reach in the EU the « Good Statute » of our fresh waters
and aquatic ecosystems?

Quels sont les enjeux principaux?
What are the main challenges?



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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.

Pressures & Measures

Pressures

Water pollution from wastewater and diffuse sources

Water storage, and abstraction

Barriers (dams, weirs etc.)

Bank reinforcements channelisation and straightening

Measures

Good agricultural practices;

Reduced emissions to water bodies by better wastewater treatment;

Improving hydromorphology changed land-use, removing migratory obstacles and transverse structures

Ensuring good environmental flows

Improved State; Achieved objectives

Good chemical quality

Good ecological status

Healthy river habitats





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the European Water Framework Directive ...To reach this objectives



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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.
- 2010–2015/2016–2021/2022–2027

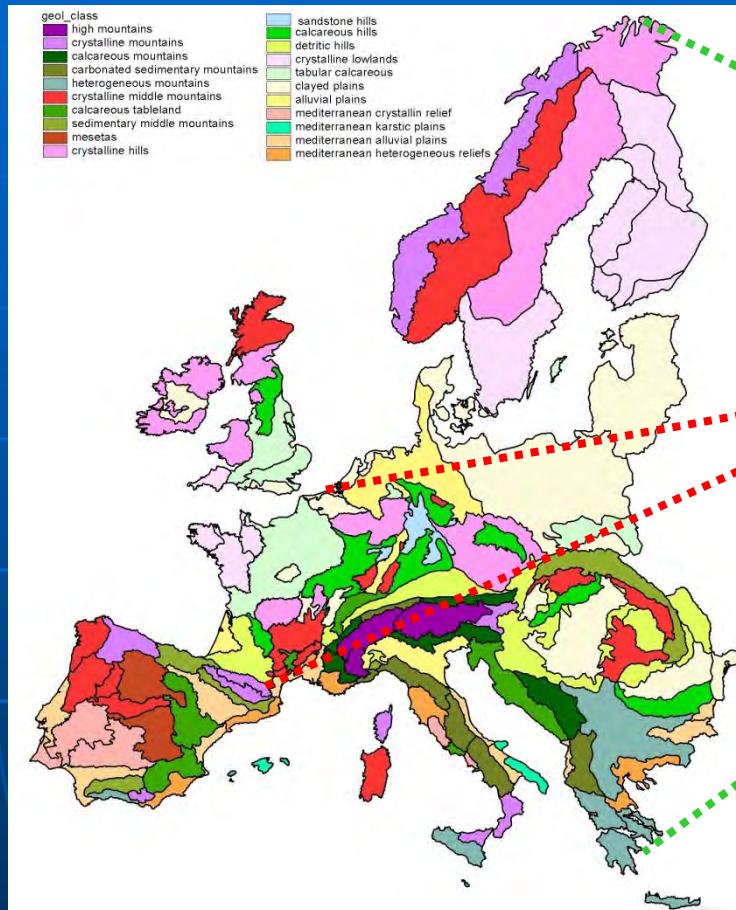


Integrated information and monitoring systems



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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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All the river basins in Europe are concerned:



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In Europe a majority of basins being transboundary ones!



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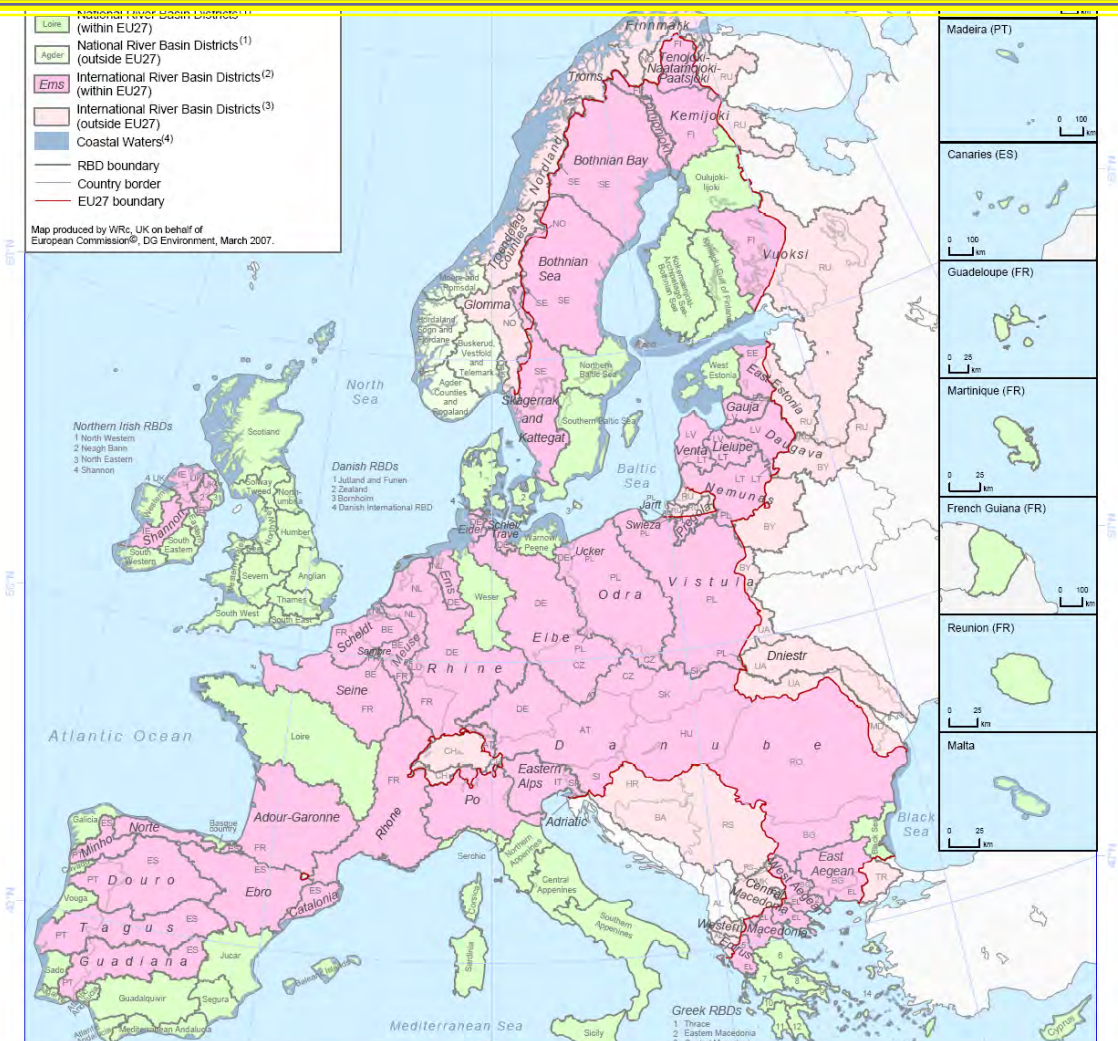


110 RIVER BASIN DISTRICTS HAVE BEEN ESTABLISHED 40 ARE INTERNATIONAL RIVER BASIN DISTRICTS



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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**



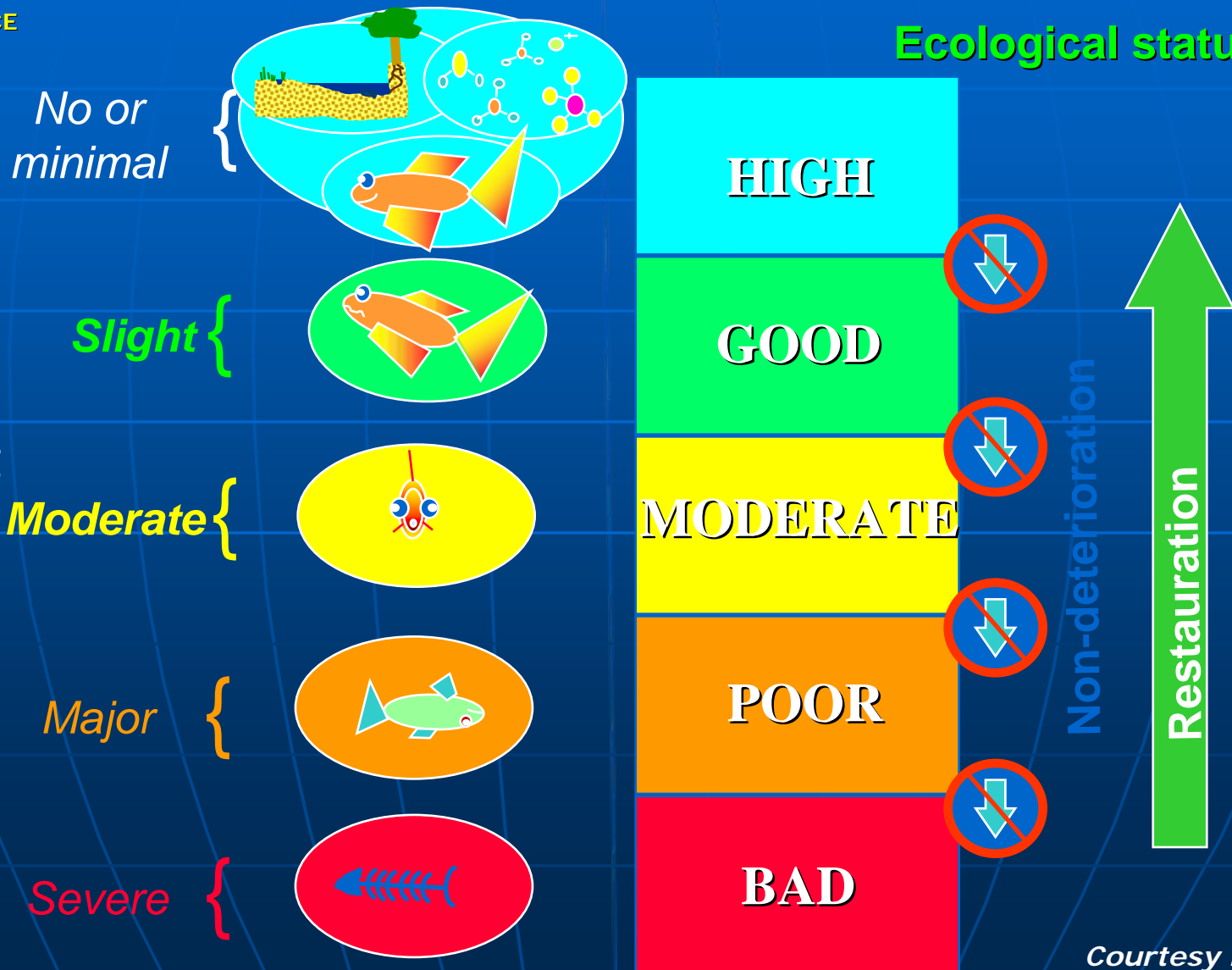
A SIGNIFICANT PERCENTAGE OF WATER BODIES WOULD NOT REACH GOOD STATUS IN 2015.



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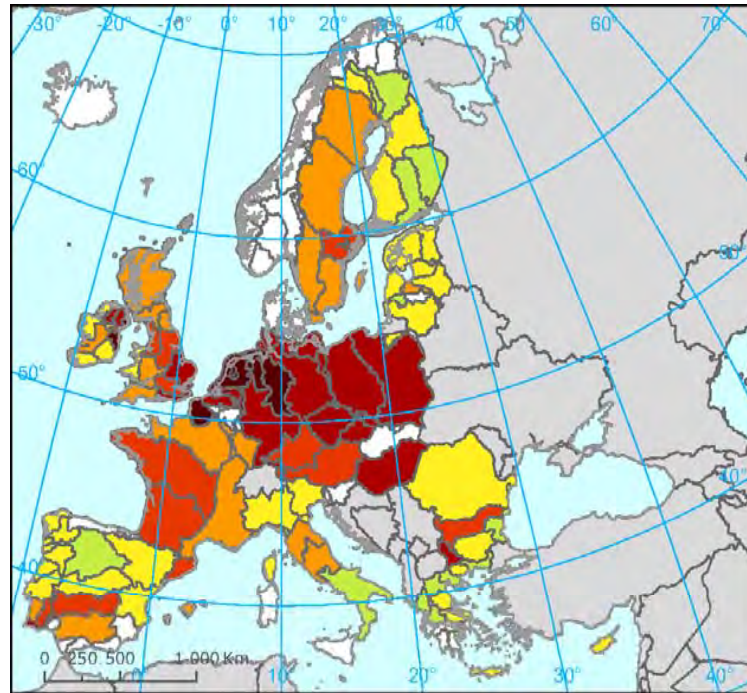
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Ecological status

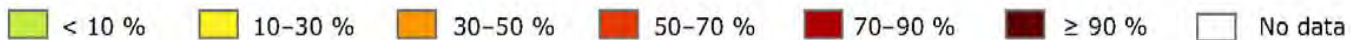


Courtesy Peter Pollard

Percentage of water bodies affected by hydromorphological pressures



Percent of classified water bodies affected by hydromorphological pressures





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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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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, or 2027
WITHOUT NEW AMBITIOUS MEASURES
WITHIN THE COMMON AGRICULTURE POLICY!**



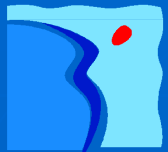
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HOW CAN WE APPLY THE « RENEWABLE ENERGY » DIRECTIVE AND THE “WFD” AT THE SAME TIME?





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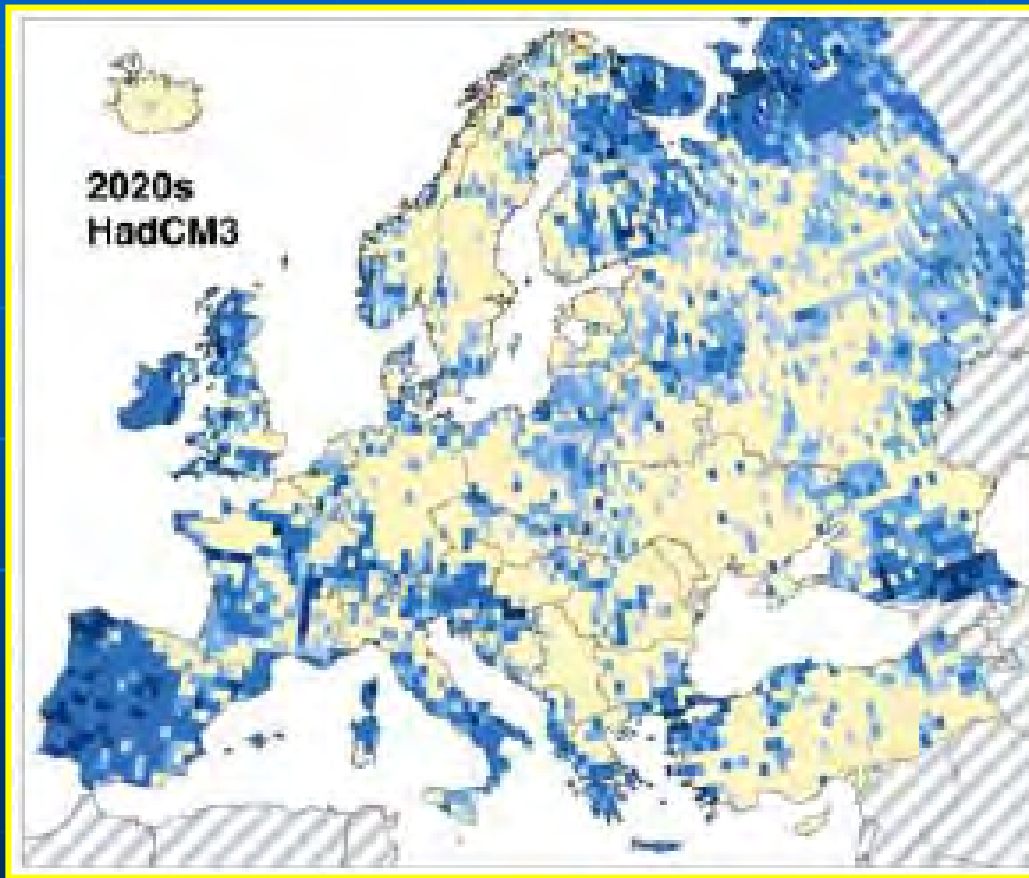
As everything is linked in each Water Body,
for a real implémentation of the WFD,

it's important to take into account:



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- 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...



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

Europe: Changing flood frequency



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FLOOD CONTROL: PROTECTION, FORECAST, PREVENTION.



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**PROTECTION AGAINST FLOODS
MUST PASS THROUGH A COORDINATED APPROACH,
COMBINING, ON THE SCALE OF BASINS AND SUB-BASINS:**

Protecting people and properties,

Reducing vulnerabilities,

- *Restoring the free flow of rivers,*

- *Preserving - rehabilitating the natural flooding areas,*

Foreseeing hazardous events,

- *Identification of hazardous areas,*

- *Prohibition of buildings in the exposed areas,*

Warning and educating.



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THE EUROPEAN UNION'S FLOODS DIRECTIVE PLANS A NEW APPROACH PASSING THROUGH:

- **A PRELIMINARY FLOOD RISK ASSESSMENT**
- THE SELECTION OF AREAS WITH SIGNIFICANT POTENTIAL FLOOD RISK,
- **HAZARD AND RISK MAPPING OF THESE AREAS,**
- APPROVAL OF FLOOD RISK MANAGEMENT PLANS ,
- **AND OF THEIR PROGRAMMES OF MEASURES BY DECEMBER 2015.**

IN THE TRANSBOUNDARY BASINS IN PARTICULAR,
COOPERATION BETWEEN RIPARIAN STATES SHOULD BE PROMOTED
FOR JOINTLY LOOKING FOR COORDINATED SOLUTIONS
AND FOR SHARING INFORMATION AND RESPONSIBILITIES..



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WITH REGARD TO DROUGHTS:

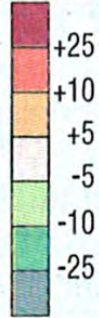


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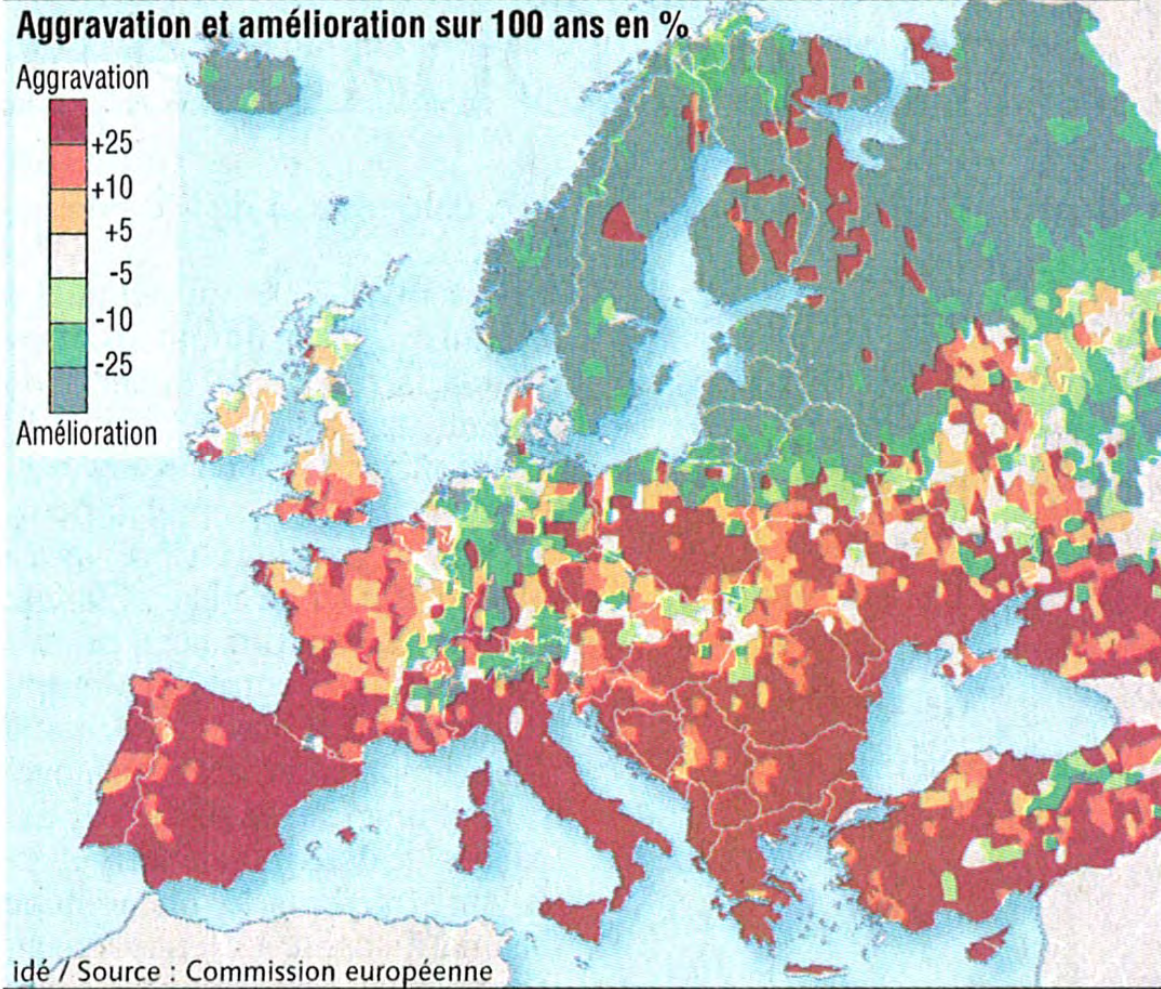
L'évolution des sécheresses en Europe (de 1970 à 2070)

Aggravation et amélioration sur 100 ans en %

Aggravation



Amélioration



idé / Source : Commission européenne



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WITH REGARD TO DROUGHTS:



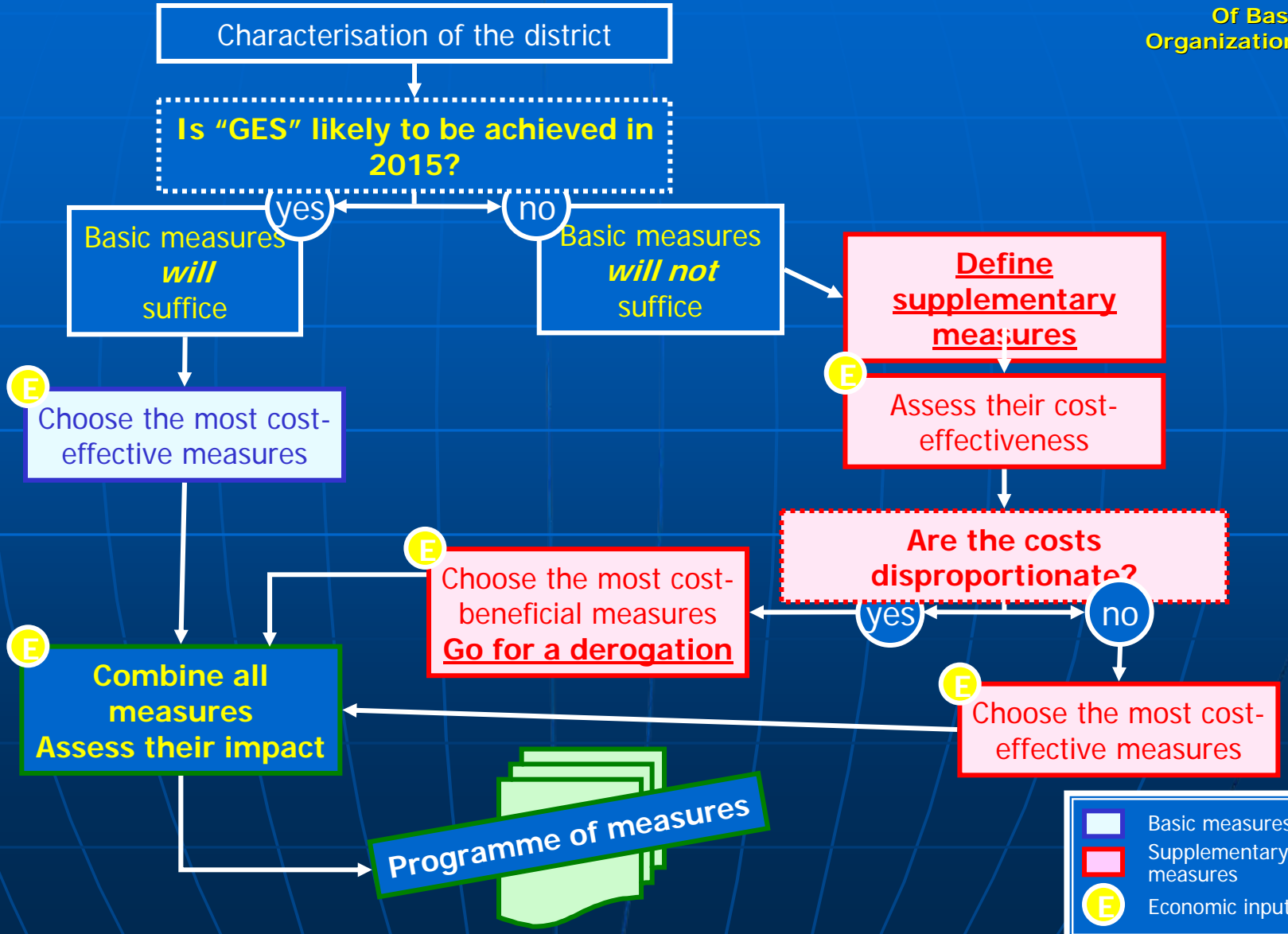
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- WATER SAVING,
- AVOIDING WASTAGES,
- LEAK DETECTION,
- RECYCLING,
- THE REUSE OF TREATED WASTE WATER,
- GROUNDWATER RECHARGE,
- THE DESALINATION OF SEA WATER,
- RESEARCH ON LOW-CONSUMPTION USES...

... MUST BECOME PRIORITIES.



FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES





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

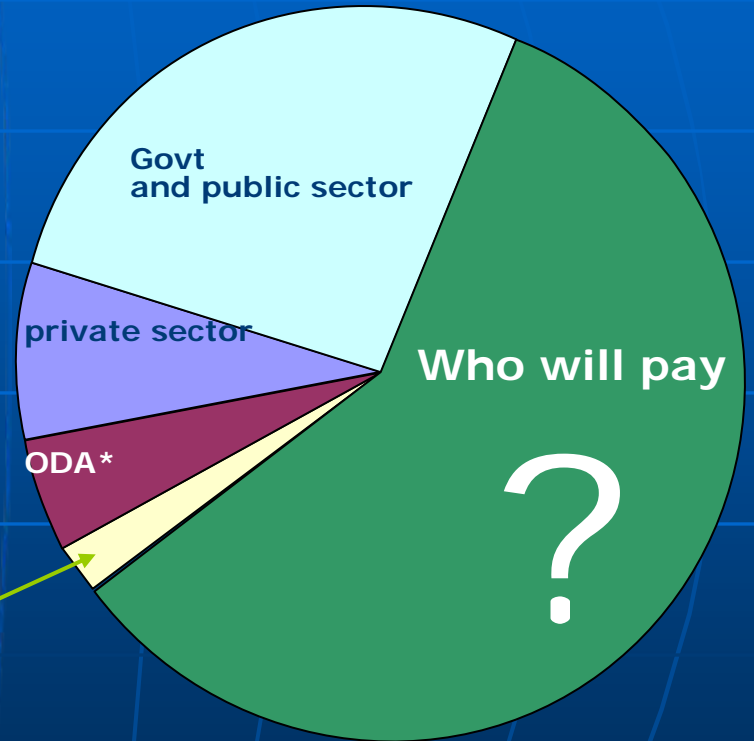
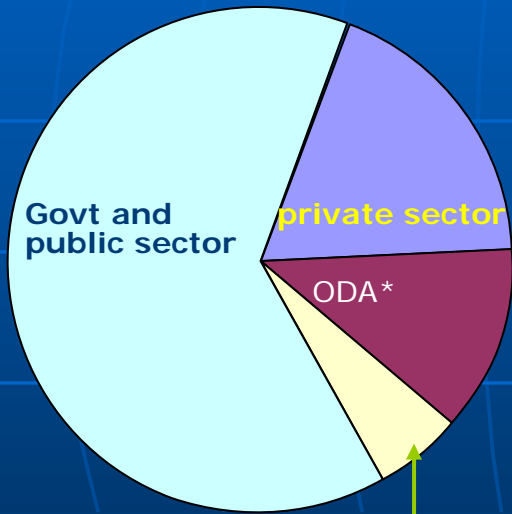


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Who will pay ?

FOR THE NEXT 18 YEARS

NOW



International firms

* Official Development Assistance



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



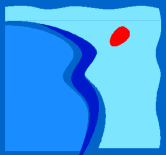
Strategic Coordination Group CIS priorities :



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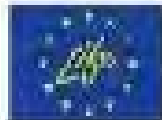
- Climate Change
- Droughts and Floods
- Intercalibration exercise
- WFD and agriculture
- Hydromorphology (hydropower and navigation)
- New Pilot River Basin exercise
- Reporting and WISE
- Priority substances / Chemical monitoring
- Cost effectiveness





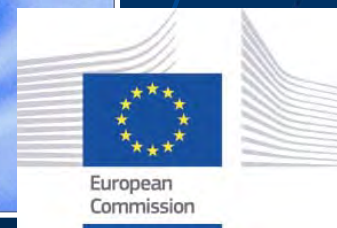
iwrm-net

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NWRM

Natural Water Retention Measures



Web-based knowledge
Community of practice
NWRM practical guide



Office
International
de l'Eau



NWRM

**Pilot Project - Atmospheric Precipitation -
Protection and efficient use of Fresh Water:
Integration of Natural Water Retention
Measures in River basin management**
Service contract n°07.0330/2013/659147/SER/ENV.C1

The NWRM project Key elements

OIEau, Coordination team





Natural Water Retention Measures

NWMM as one of the responses can:

- *reduce impact of diffuse pollution,*
- *regulate the flow regime in natural pattern*
- *reduce vulnerability to Climate Change,*
- *restoring the deteriorated morphological element on the riparian area and the floodplain,*
- *improve water status (surface and groundwater) (incl. DW, BW),*
- *be a Better Environmental Option for Flood risk management supporting Natural Flood Risk Management.*

Main outputs / outcomes

Catalogue of measures:

- 53 measures (4 sectors)
- continuously adjusted by our experts (polder, mulching)

Workshops:

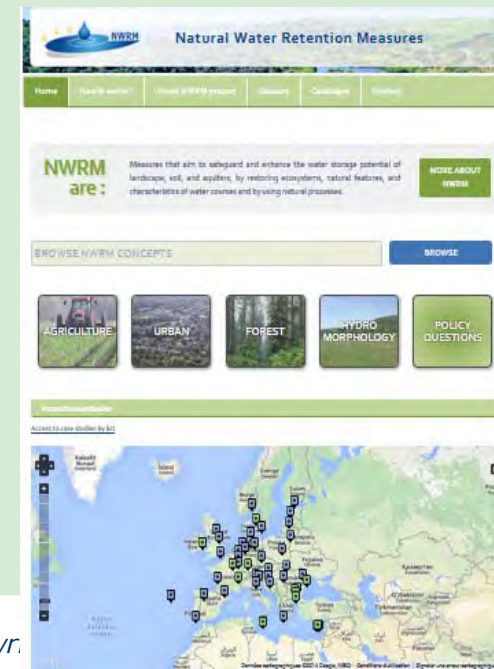
- first series in January 2014 → awareness raising
- second series in June and September 2014 → exchanges and findings

Catalogue of Case Studies:

- 40 in-depth case studies
- light case studies (objective: 80!)

A website

- easy to navigate
- as knowledge platform





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



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Public Participation & Stakeholder Involvement

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

**IT WOULD BE A PITY
JUST TO ORGANIZE A "ONE SHOT" CONSULTATION
WITHOUT ANY FOLLOWING
ALL ALONG THE REAL IMPEMENTATION PHASE OF THE "WFD"...**

Governments decide, but local actors implement!!!!



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Conflicts

requirements collected
from each point of view



Designing a program
through **dialogue**

Reaching **agreement**
with an ambitious program



“THE PEER REVIEW MECHANISM”

For mobilizing the practitioners of RBDs and their competent authorities which will voluntarily submit RBMPs to the review performed by experts from other similar authorities of other EU Countries





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Most important issues



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- Improvements in **implementation** of EU water policy are required,
- Need for tackling the problems of **water scarcity and droughts**,
- **Ecosystem services** to be systematically addressed within water policy,
- More **coherence** needed with the **CAP, regional, renewable energy and transport policies**,
- Improved **risk assessment methods** in coherence with Chemical, pesticides, pharmaceuticals policies,
- Improved analysis of the **costs and benefits** of water protection measures,
- **Better stakeholders involvement** in the implementation phase.....



THANK YOU FOR YOUR ATTENTION!
MERCI DE VOTRE ATTENTION!

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International Network of Basin Organizations
Red Internacional de Organismos de Cuenca
Международная сеть водохозяйственных организаций,
uluslararası havza organizasyonları ağı
الشبكة الدولية لهيئات الأحواض