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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
لشبكة دولية لآل حواض



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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

INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS



International Office For Water PARIS-FRANCE



International Network Of Basin Organizations

Groupe des Autorités de Bassins Européens

13ème Conférence Internationale

"EURO-RIOB 2015"

POUR L'APPLICATION DES DIRECTIVES EUROPEENNES SUR L'EAU

21-24 Octobre 2015 - Thessalonique





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International Network of Basin Organizations European Group of Basin Organizations “EUROPE-INBO”

13th International Conference “EUROPE-INBO 2015”

ON THE IMPLEMENTATION OF THE EUROPEAN WATER DIRECTIVES

21-24 October 2015 - Thessaloniki





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



PARIS2015
COP21-CMP11





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



PARIS2015
COP21-CMP11





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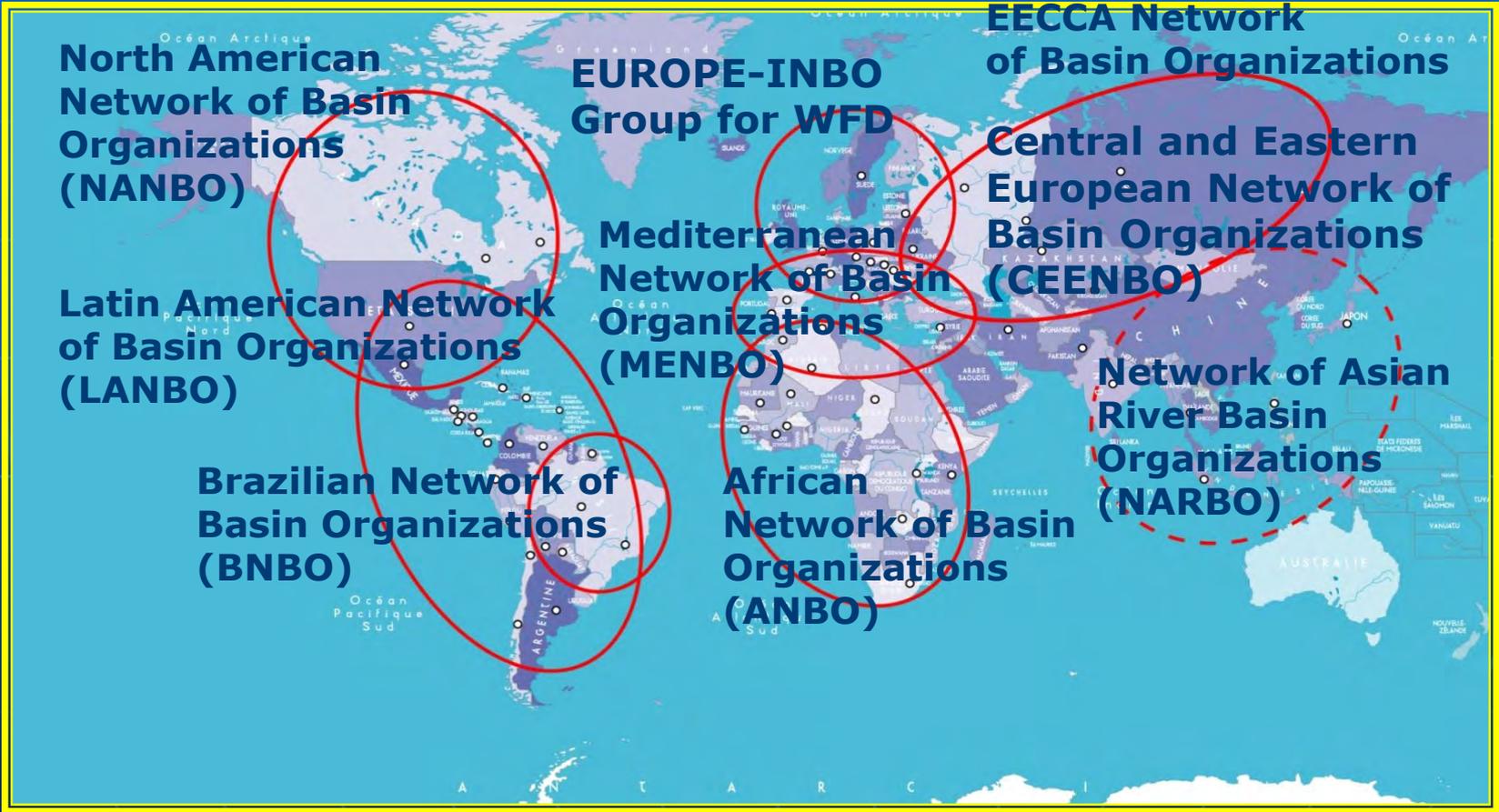
Created in 1994 to facilitate operational exchanges between BO



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Permanent
Technical
Secretariat
PARIS-FRANCE

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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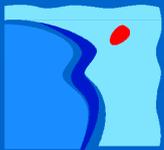
**Implementation of
the European Water Framework Directive
in the 28 countries**

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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EURO-RIOS
EUROPE-INBO

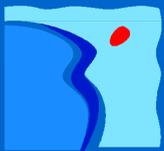


CEENBO
Central and Eastern European Network of Basin Organisations



Сеть водохозяйственных организаций стран
Восточной Европы, Кавказа и Центральной Азии





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International Office For Water PARIS-FRANCE

European Group of Basin Organizations EUROPE-INBO



"EUROPE-INBO 2013"



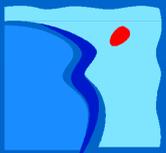
13-16 November 2013 - Plovdiv, Bulgaria.



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13 November 2013 - Plovdiv, Bulgaria.



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12th International Conference "EUROPE-INBO 2014"



**13-15 November 2014
Bucharest, Romania**



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La conférence porte sur les grands thèmes d'actualité de la mise en œuvre des Directives européennes 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.

**13th International Conference
"EUROPE-INBO 2015"
ON THE IMPLEMENTATION OF THE
EUROPEAN WATER DIRECTIVES
21-24 October 2015 - Thessaloniki**

13th International Conference "Europe-INBO 2015" Thessaloniki - Greece - 21 - 24 October 2015

Implementation of the European Water Directives

➤ Tuesday 20 October

➤ Wednesday 21 October

➤ Thursday 22 October



➤ Friday 23 October



➤ Saturday 24 October

- Arrival of the first participants.
- 08:30 Side Event: EcoCuencas.
- 09:30 Aristotle University of Thessaloniki Event.
- 12:00 Lunch break.
- 13:00 Workshop: diffuse pollution sources.
- 17:30 INBO World Liaison Bureau.
- 20:00 Welcoming cocktail.
- 09:15 Official opening ceremony of the Conference.
- 10:00 Message of the DG ENV - European Commission.
- 10:45 Presentation of the Greek water policy.
- 11:45 Objectives and actions of "Europe-INBO" group.
- 12:30 Lunch - Offered by the Greek organisers.
- 13:00 Side Event: Local processes for water resources management - strengths and weaknesses.
- 14:30 Roundtable 1: Measures of adaptation to the effects of climate change - Preparation of the 2nd Management Plans
- 16:30 Roundtable 2: Transboundary water management.
- 20:00 Official Gala Dinner - Science Center and Technology Museum.
- 09:00 Roundtable 3: The financing of water policy and economic analysis.
- 11:00 Roundtable 4: Local processes for the application of the Directives and the participation of local stakeholders.
- 12:30 Lunch - Offered by the Greek organisers.
- 14:00 International and Regional Initiatives - Peer Review Mechanism - COP21 and Paris Pact - Contributions from International Organisations.
- 16:00 Official closing ceremony - Declaration of Thessaloniki - Official transfer of Europe-INBO presidency.
- 20:00 Dinner - Offered by the Greek organisers.
- 08:00 Visit in the Thessaloniki region.
- 14:00 Return at the Hotel and departure of the first participants.

To participate,
Please register!

www.inbo-news.org



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Roundtable 1: Measures of adaptation to the effects of climate change - "Water" component of the COP21 in Paris in 2015 - Preparation of WFD 2nd Management Plans (2016-2021),

Roundtable 2: Water governance in Transboundary Basins,

Roundtable 3: The financing of water policy and economic analysis,

Roundtable 4: Local processes for the application of the Directives (tributaries, aquifers, bays....) and the participation of local stakeholders, Public involvement...



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1st Drafting of the Thessaloniki Europe-INBO Declaration:

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



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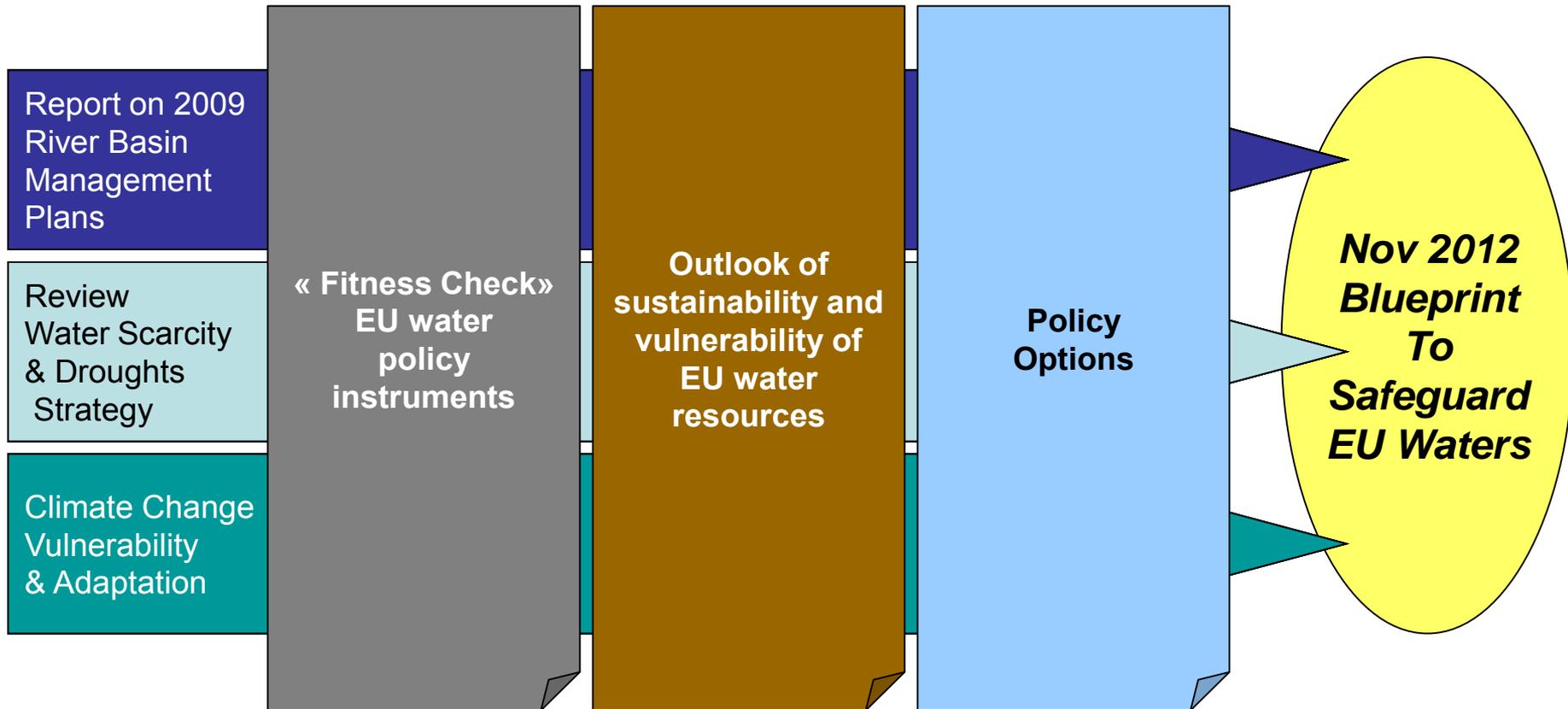
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- **Approval of the choice to host "EUROPE – INBO" in 2016 and 2017:**
 - **France – Lourdes in 2016,**
 - **Ireland – Dublin in 2017.**



Synthesis of policy recommendations building on on-going assessments

Impact Assessment





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.



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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.....

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

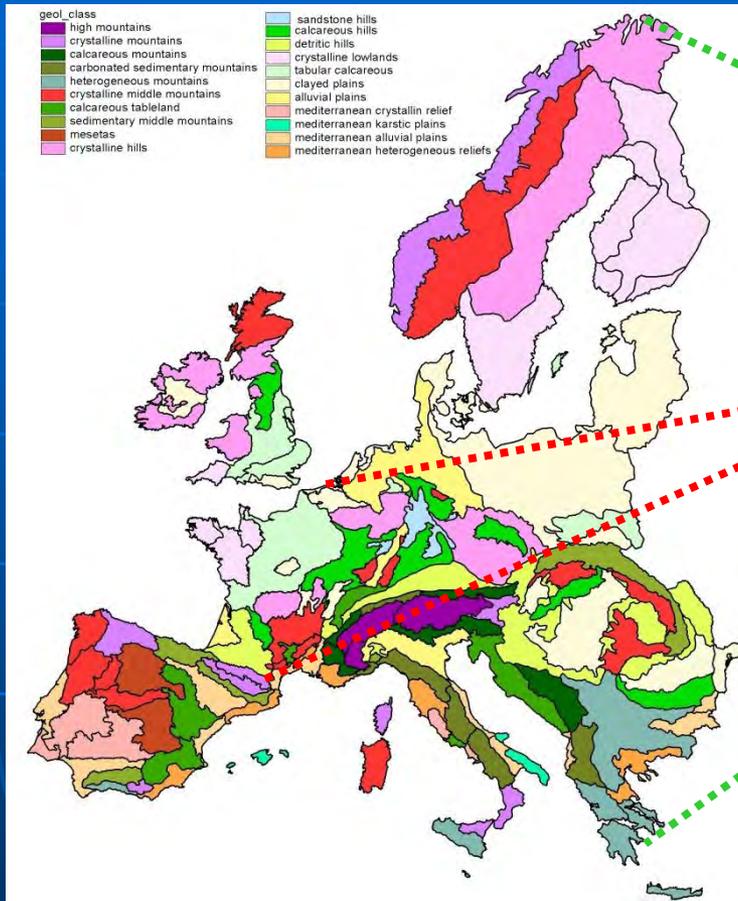


Integrated information and monitoring systems



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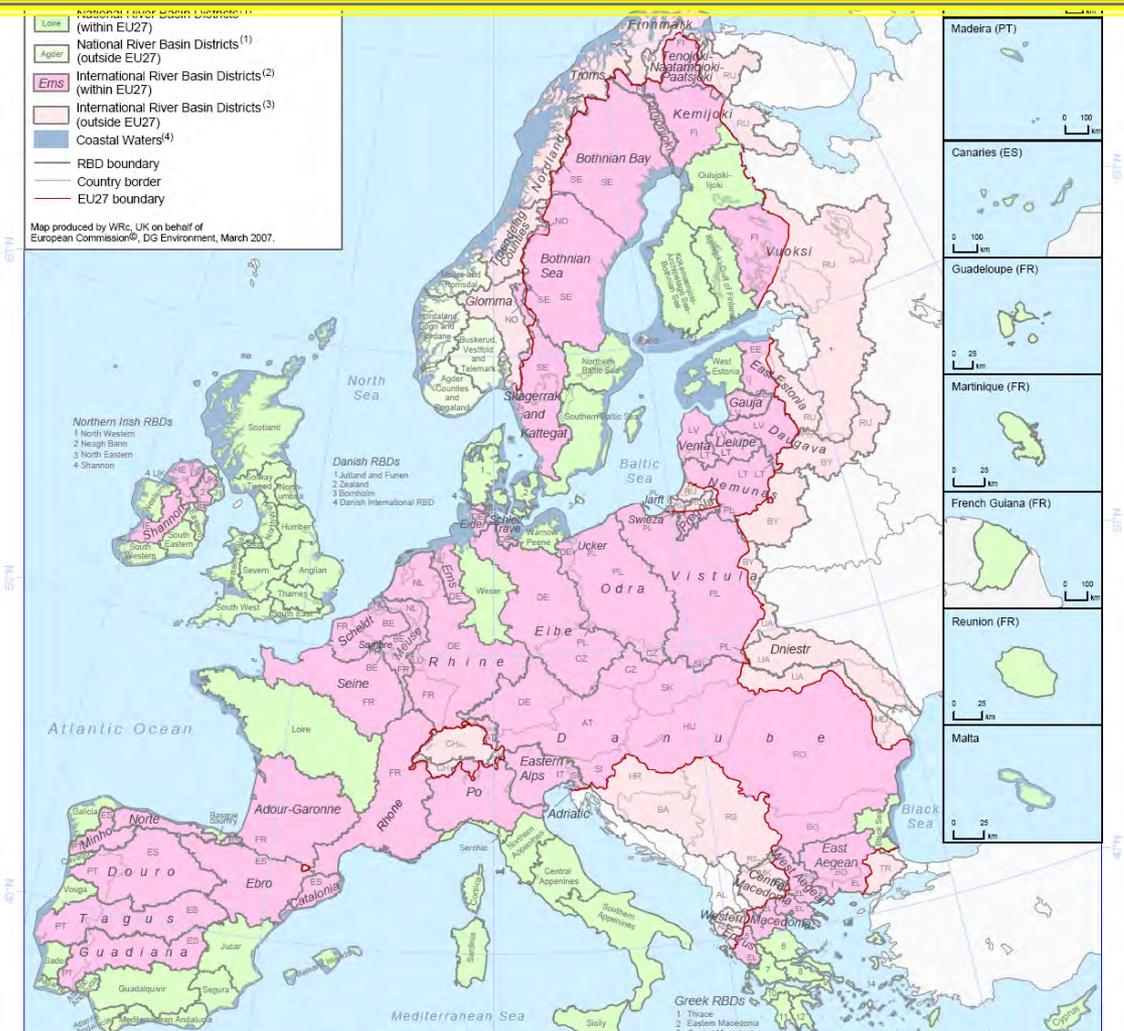
- Integrated information and monitoring systems which are reliable, representative, harmonized and easily accessible, and specific research should be organized in each basin,

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**

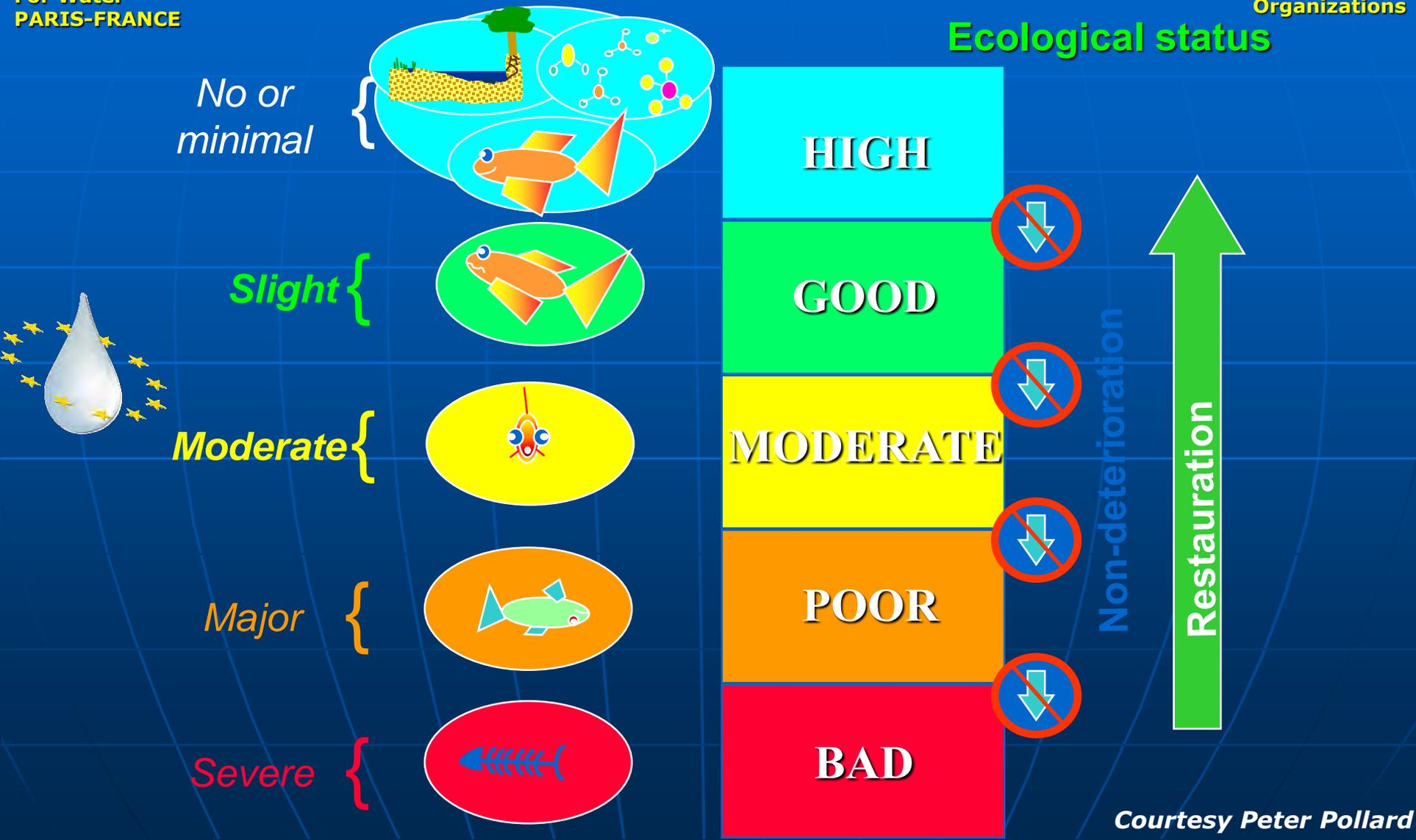


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A SIGNIFICANT PERCENTAGE OF WATER BODIES WOULD NOT REACH GOOD STATUS IN 2015.

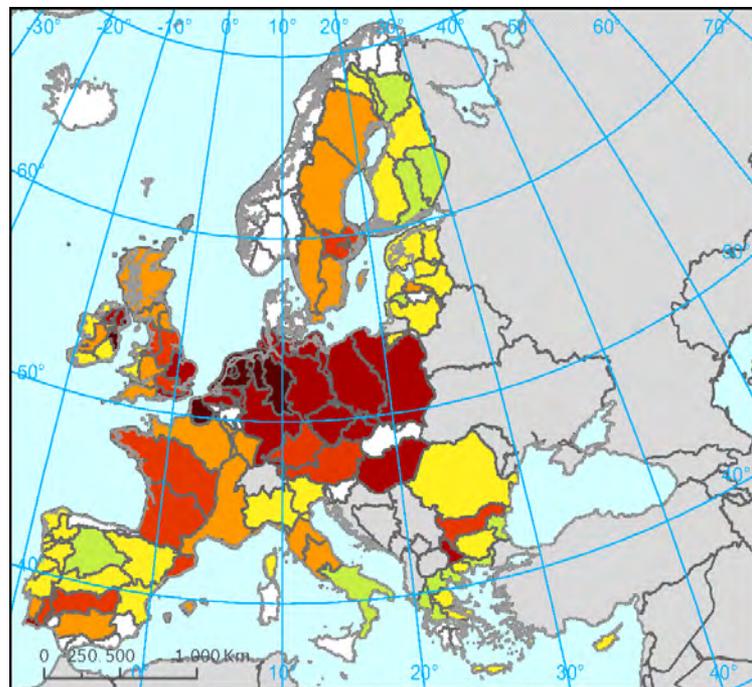


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Courtesy Peter Pollard

Percentage of water bodies affected by hydromorphological pressures



Percent of classified water bodies affected by hydromorphological pressures

 < 10 %  10-30 %  30-50 %  50-70 %  70-90 %  ≥ 90 %  No data





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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!**



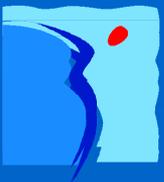
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HOW CAN WE APPLY THE « RENEWABLE ENERGY » DIRECTIVE AND THE “WFD” AT THE SAME TIME?





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UNE OBLIGATION DE RESULTAT OBLIGATION OF RESULTS



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Directive
énergies renouvelables,

Réseau transeuropéen de
navigation fluviale

Directive milieu marin,

adaptation
au changement climatique

Directive inondations

prévention
des sécheresses,

*BON
ETAT*

Directive - Cadre,

Réforme de la PAC,

Mettre en cohérence le « millefeuilles » des textes communautaires !
Improve coherency between various European policies ☺ ☺



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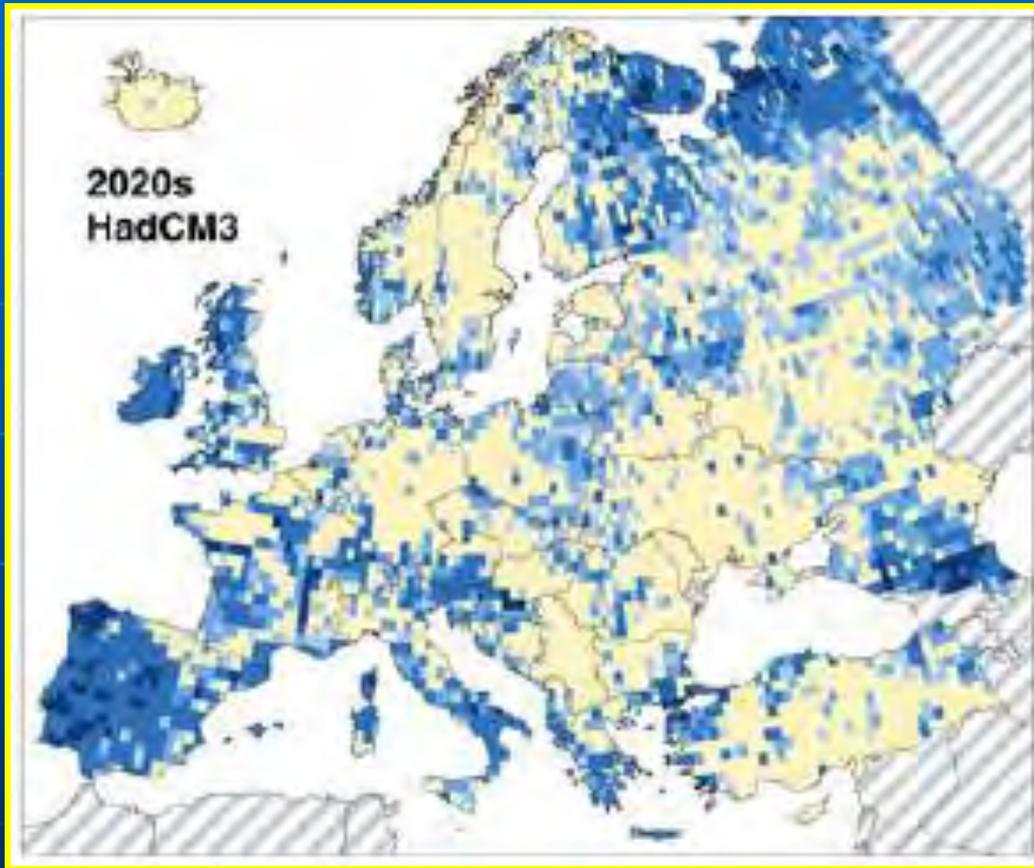
As everything is linked in each Water Body,
for a real implémentation of the WFD,



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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...



- 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:

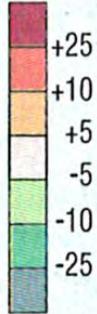


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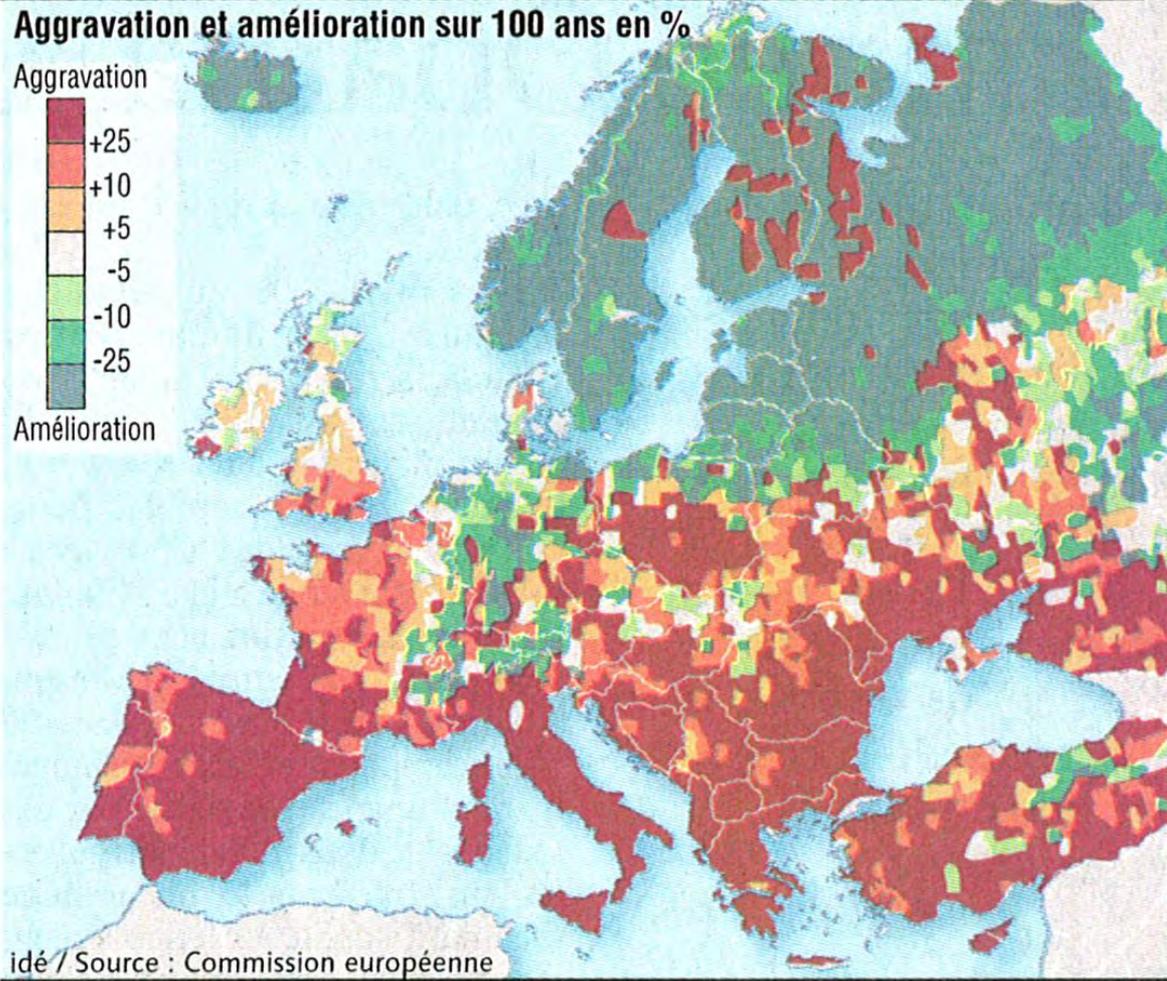
L'évolution des sécheresses en Europe (de 1970 à 2070)

Aggravation et amélioration sur 100 ans en %

Aggravation



Amélioration



idé / Source : Commission européenne



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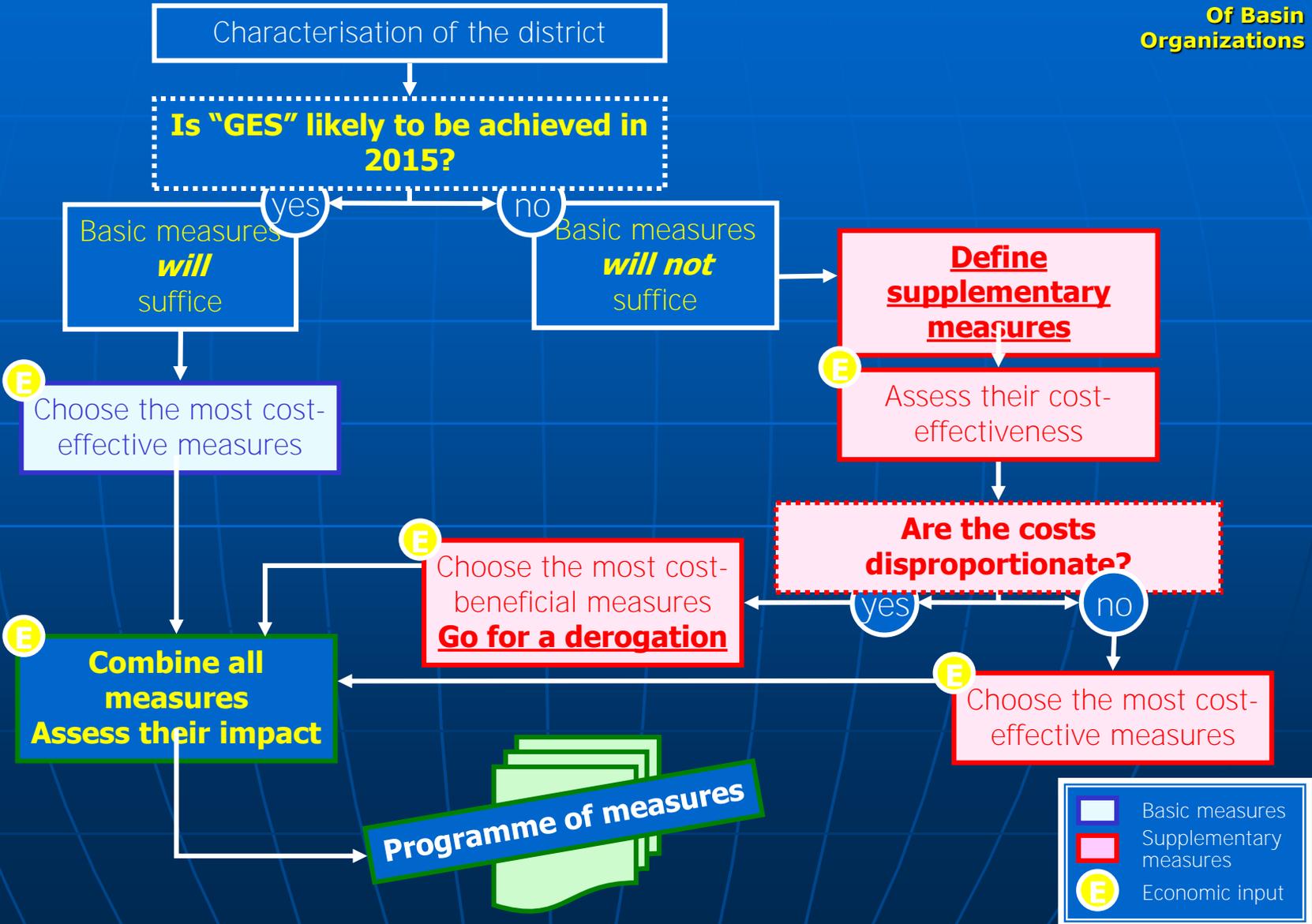
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- **WATER SAVING,**
- **AVOIDING WASTAGES,**
- **LEAK DETECTION,**
- **RECYCLING,**
- **THE REUSE OF TREATED WASTE WATER,**
- **GROUNDWATER RECHARGE,**
- **THE DESALINATION OF SEA WATER,**
- **RESEARCH ON LOW-CONSUMPTION USES,**
- **NATURAL WATER RETENTION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

... MUST BECOME PRIORITIES.



FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES



	Basic measures
	Supplementary measures
	Economic input



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

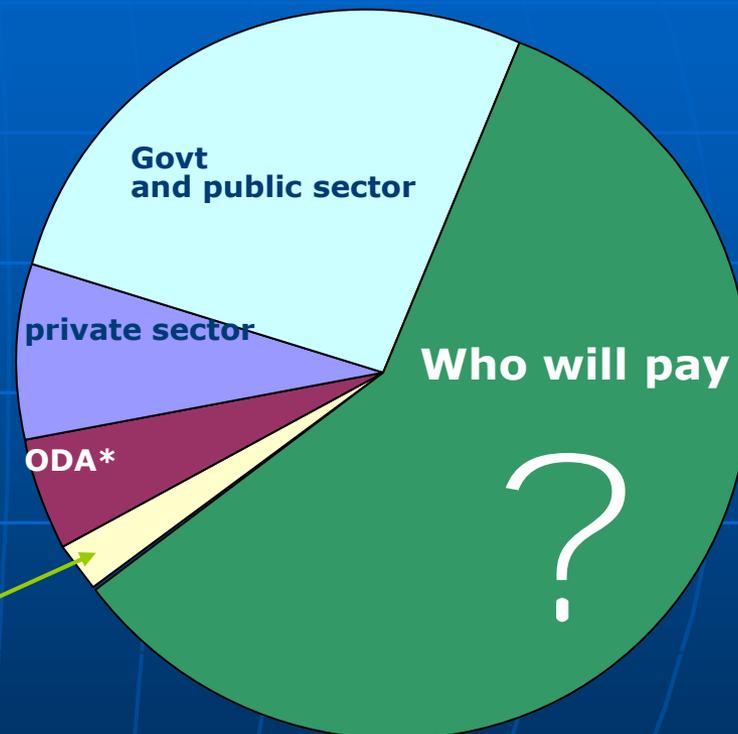
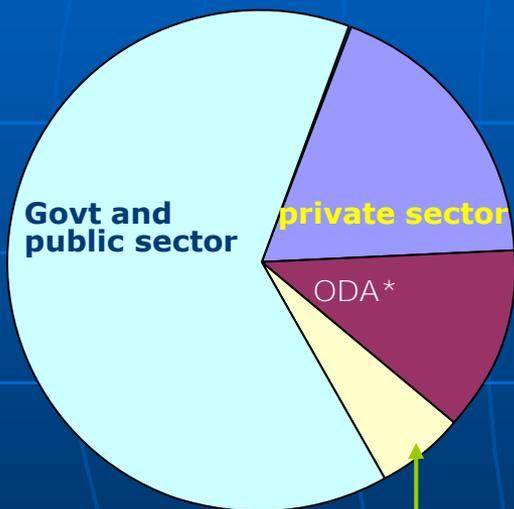


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FOR THE NEXT 16 YEARS

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 -



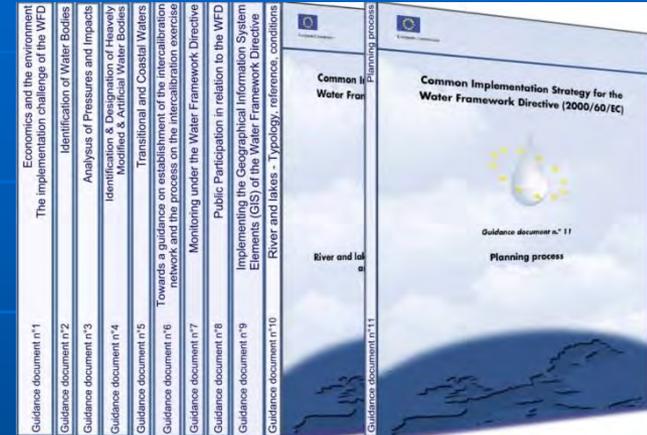
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Strategic Coordination Group CIS priorities :



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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



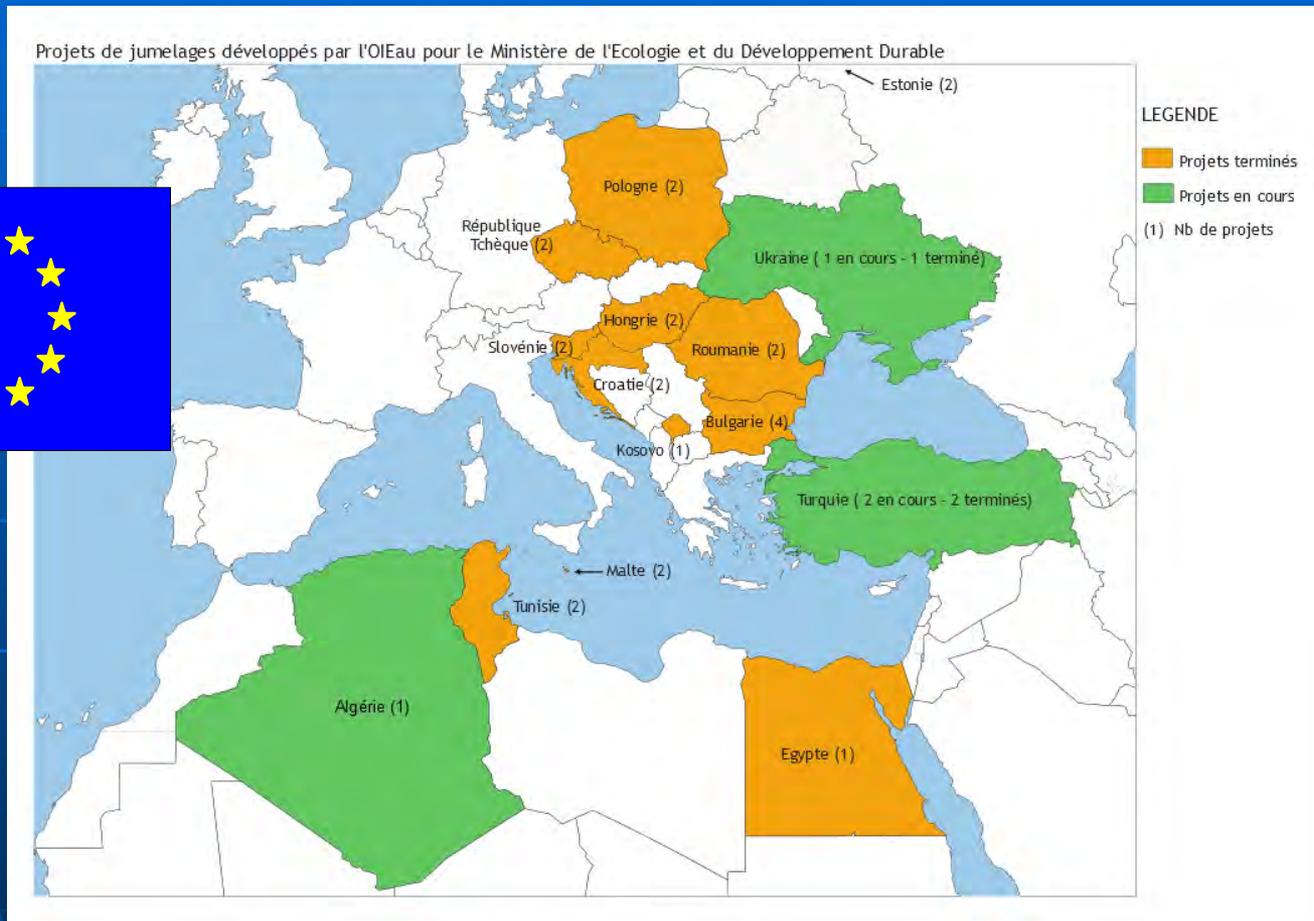


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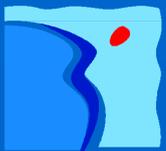
European Twinnings with the new MS and neighbour Countries



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- Depuis 1999, 30 projets de jumelage dans le secteur de l'eau, dont 15 sur la DCE, le dernier en cours au Maroc....



iwrm-net



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SPI-Water





Natural Water Retention Measures



Web-based knowledge
Community of practice
NWRM practical guide



**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

NWMMR 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:

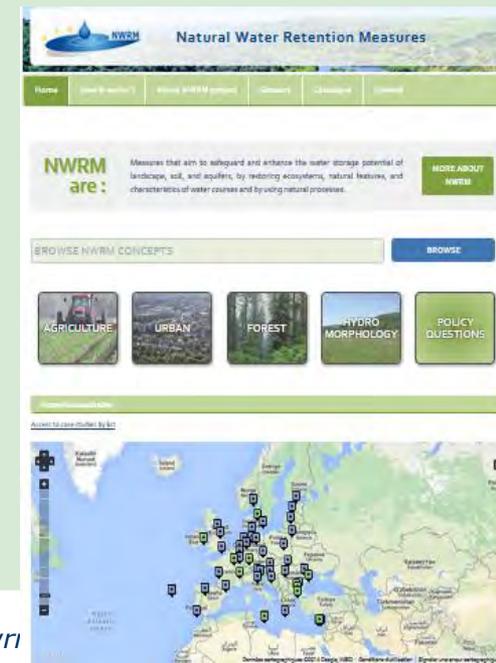
- first series in January 2014 → awareness raising
- second series in June and September 2014 → exchanges and findings

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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**the UN Convention
for the international water courses management
in Europe - HELSINKY 1992**

**Network of Pilot Basin Organizations
to test measures for adapting to climate change**





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**International
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Promoting cooperation on the ground and exchange of experience



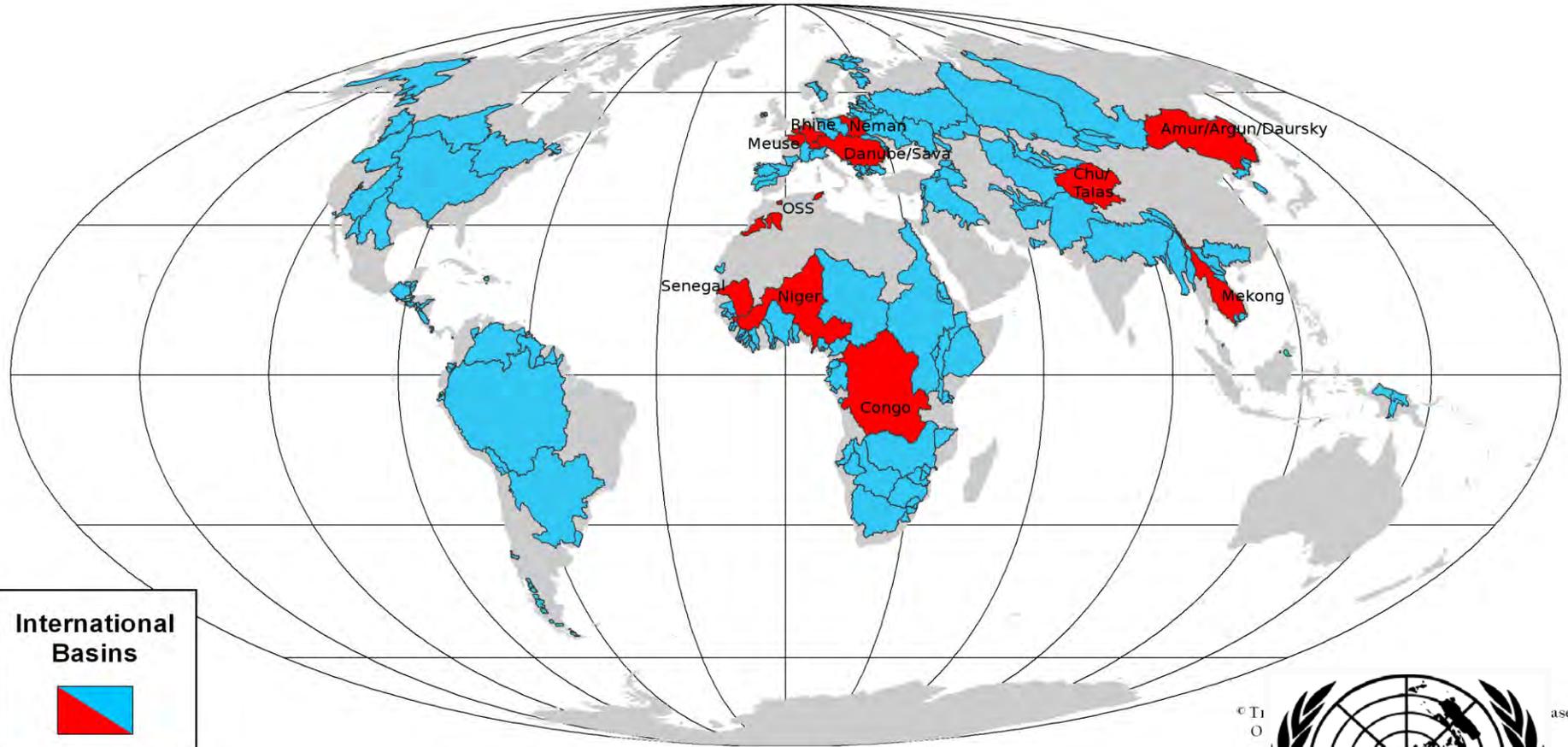
- Global network of basins working on water and climate in cooperation with **INBO** :
 - Basins with different priorities (water scarcity, floods)
 - Currently 14 basins
- Platform for exchanging experiences:
 - Regular workshops and meetings of the Task Force and basin meetings
 - Internet platform
- Cooperation with UNFCCC, EU and others



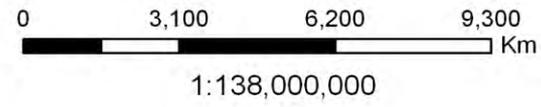
Basins in the global network of basins working on climate change with INBO

International River Basins

on climate change with **INBO**



International Basins





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2014 Meeting of the OECD Water Governance Initiative

OECD Headquarters –Paris -France



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Last OECD WGI meeting 2015 in Edinburg – Scotland

Adoption of the 12 OECD Water Governance Principles



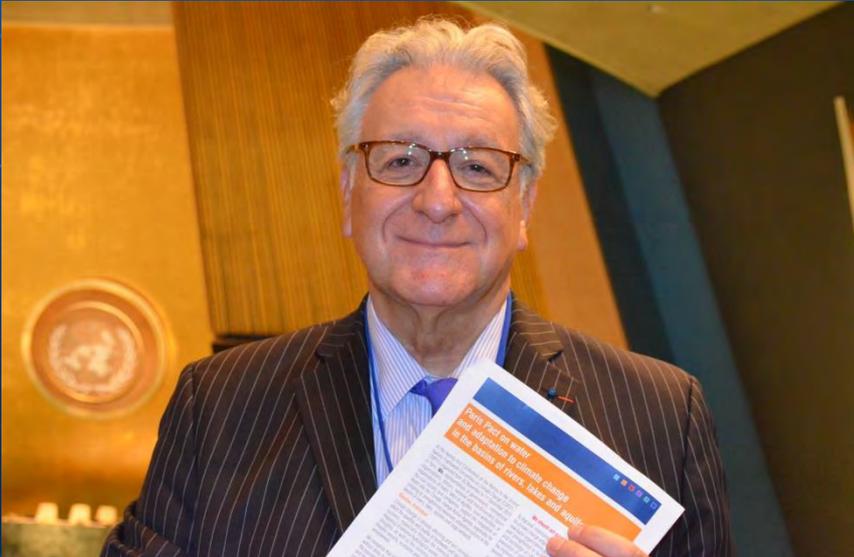
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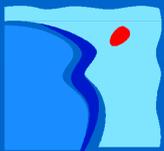
INBO OFFICIALLY ACCREDITED



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UNITED NATIONS GENERAL ASSEMBLY SEPT 2015 ON NEW SUSTAINABLE DEVELOPMENT OBJECTIVES





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**WATER and adaptation
to the effects of climate change:
- Agenda of solutions -
COP21 - Paris
2 December 2015**

**Come and sign the Pact
on water and adaptation
to climate change
in the basins
of rivers, lakes and
aquifers !**

cop21-Paris-pact.inbo-news.org



**Paris Pact on water
and adaptation to climate change
in the basins of rivers, lakes and aquifers**

At the twenty-first Conference of the Parties to the United Nations Framework Convention on Climate Change (COP21 / CMP11) organized from 30 November to 11 December 2015 in Paris, **We**, representatives of governments, international organizations, donors, national and transboundary basin organizations of rivers, lakes or aquifers, local authorities, of the civil society and companies, support the integration of Water into the Climate change Action Agenda, especially for initiating or strengthening necessary adaptation actions in the basins of rivers, lakes, aquifers and large wetlands.

GENERAL STATEMENT

Climate change is already affecting and will increasingly affect the quantity and quality of freshwater and aquatic ecosystems, especially through the intensity and greater frequency of extreme hydrological events, such as floods and droughts, as well as the increase in ocean level, which threaten security, economic and social development and the environment.

We recognize that adaptation actions should be undertaken without delay to minimize the impacts of climate change on the populations' health and safety, on economic development and the environment, considering the importance of the protection of water-related ecosystems.

The basins are natural areas where water flows on the surface and in the subsoil: they are the relevant territories for organizing water resources management.

In order to ensure more effectiveness, these actions to adapt to climate change should thus be implemented at the level of river, lake and aquifer basins, through a joint, participative, integrated and sustainable water resources management.

We should act quickly before it is too late!

To that end, mobilizing new and increasing funding dedicated to climate change adaptation in basins is essential. Therefore, new basin organizations and existing ones should be financed and strengthened to facilitate the cooperation, coordination and exchange of information, dialogue, consultation and prevention of conflicts between stakeholders and to enhance the implementation of adaptation measures and the sharing of benefits on the basin scale.

We encourage donors to support prior assessments and actions for adaptation to climate change in basins,

Local authorities and communities, economic sectors and the civil society should be better associated and involved in basin management, including in the definition and implementation of adaptation measures.

Cooperation and exchange should increase between the institutions involved, especially among the basin organizations at the global and regional levels in order to facilitate the transfer of experience and know-how on best practices in basin management and adaptation to climate change.



PARIS2015
CONFÉRENCE DES NATIONS UNIES
SUR LES CHANGEMENTS CLIMATIQUES
COP21 / CMP11

v14

Paris Pact



www.inbo-news.org
www.cop21.gouv.fr/en





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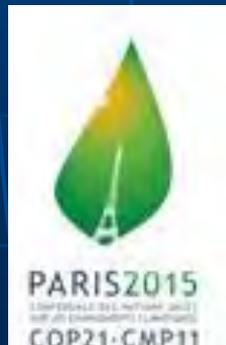
Paris Pact on water and adaptation to climate change in basins



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RECOMMENDED ACTIONS:

- 1) Reinforce capacity development and knowledge,
- 2) Adapt basin management planning to climate change,
- 3) Reinforce governance,
- 4) Ensure adequate financing.





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International Network of Basin Organizations European Group of Basin Organizations “EUROPE-INBO”

13th International Conference “EUROPE-INBO 2015”

ON THE IMPLEMENTATION OF THE EUROPEAN WATER DIRECTIVES 21-24 October 2015 - Thessaloniki





THANK YOU FOR YOUR ATTENTION!
MERCI DE VOTRE ATTENTION!

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

الشبكة الدولية لبيئات الـ حوض