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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

流域组织国际网



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Fhine Gall
Fingal County
Council**



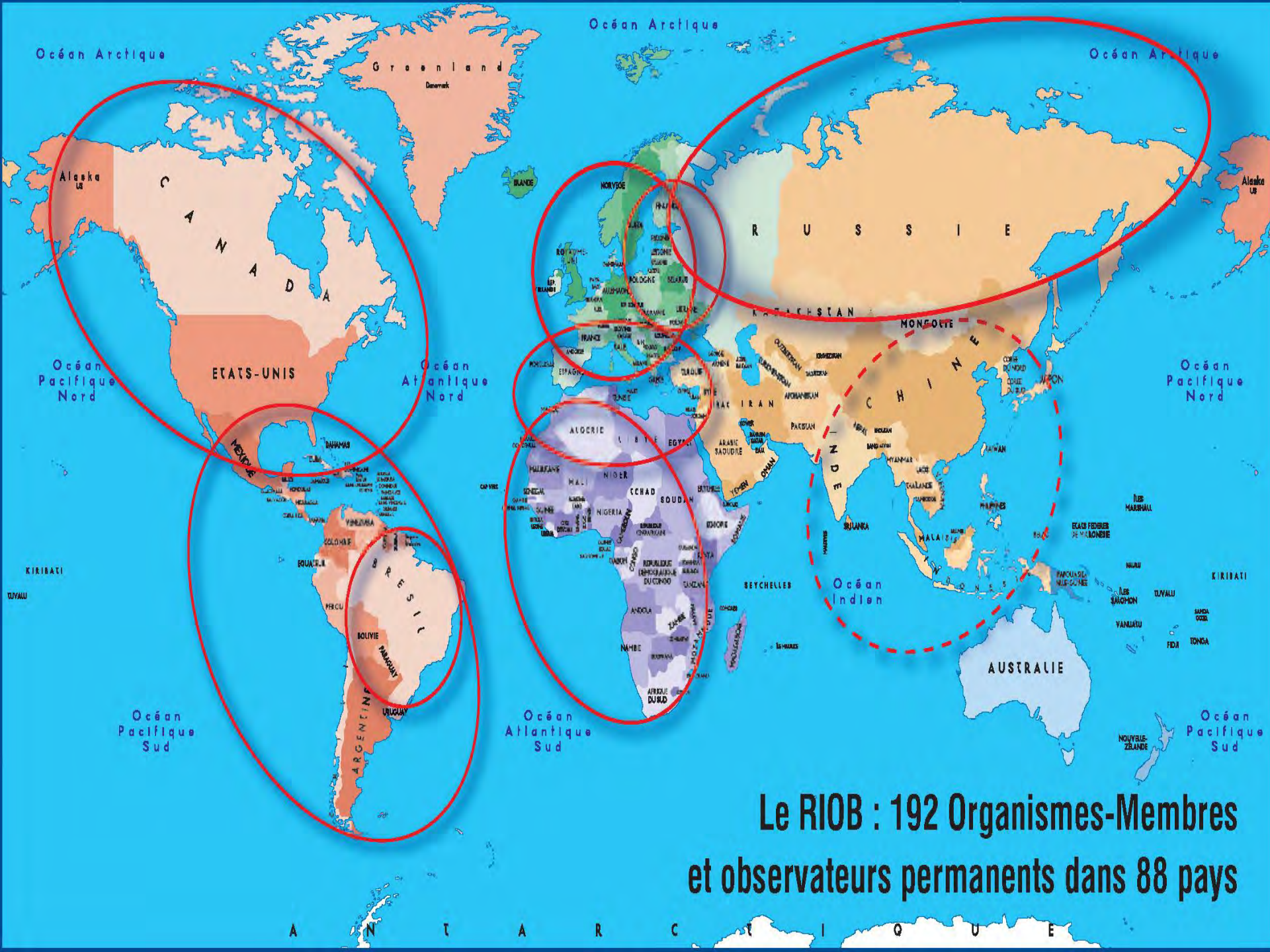
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Jean-François DONZIER
Secrétaire General

RÉSEAU INTERNATIONAL ORGANISMES DE BASSIN

Mr. Jean - François DONZIER
General Secretary

INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS



**Le RIOB : 192 Organismes-Membres
et observateurs permanents dans 88 pays**



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



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



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

15th International Conference “EUROPE-INBO 2017”

**ON THE IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE
MALAHIDE – IRELAND – 20 - 23 September 2017.**



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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.

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15th International Conference "Europe-INBO 2017"

Dublin - Ireland - 20 - 23 September 2017

Implementation of the European Water Directives

- 
- 
- 
- 



- **Wednesday 20 September**

13:00 Workshop on Data Management.

17:30 INBO World Liaison Bureau.

19:30 Welcoming Reception.
 - **Thursday 21 September**

09:00 Official opening ceremony.

10:00 Message of the DG Environment - European Commission.

10:30 Presentation of the Irish Water Governance.

11:30 Objectives and actions of INBO and "Europe-INBO" Group of European Basin Organizations.

12:00 Lunch - Side-event "Protection of drinking water catchments: fight against diffuse pollution".

13:30 Roundtable 1: WFD: Towards the 2019 Review.

15:30 Roundtable 2: Adaptation to climate change in basins.

19:00 Official Gala Dinner.
 - **Friday 22 September**

09:00 Roundtable 3: Stakeholder and public participation in River Basin Management.

11:00 Roundtable 4: Emerging Environmental Issues.

13:00 Lunch - Side-event "Methods of hydromorphological assessment : Which scales and which contribution in planning?"

14:30 International and Regional Initiatives.

Reporting of workshop and roundtables.

16:15 Approval of the Dublin Declaration and Official Closing Ceremony.

18:00 Closing Party.
 - **Saturday 23 September**

- Study visit.

To participate,
Please register!

www.inbo-news.org



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1st Drafting of the MALAHIDE Europe-INBO Declaration:

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

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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.



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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The Swedish River Basin District Authorities



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**Stockholm
2009**





EURO RIOB - Megève **Septembre 2010**



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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



CEENBO
Central and Eastern European Network of Basin Organisations



Сеть водохозяйственных организаций стран
Восточной Европы, Кавказа и Центральной Азии



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European Group of Basin Organizations EUROPE-INBO



"EUROPE-INBO 2013"



13-16 November 2013 - Plovdiv, Bulgaria.



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12th International Conference "EUROPE-INBO 2014"



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





21-24 October 2015
Thessaloniki , Greece



La 13ème Conférence "EURO-RIOB 2015"
POUR L'APPLICATION DES DIRECTIVES EUROPEENNES SUR L'EAU

13th International Conference "EUROPE-INBO 2015"
FOR THE IMPLEMENTATION OF THE EUROPEAN WATER DIRECTIVES





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**14th International Conference
"EUROPE-INBO 2016"
ON THE IMPLEMENTATION OF THE WATER FRAMEWORK DIRECTIVE
Lourdes, France 19 – 22 October 2016.**



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**Confirmation of the choice
to host the next "EUROPE – INBO" conference:**

- **Spain – Sevilla in 2018.**
- **???? in 2019**



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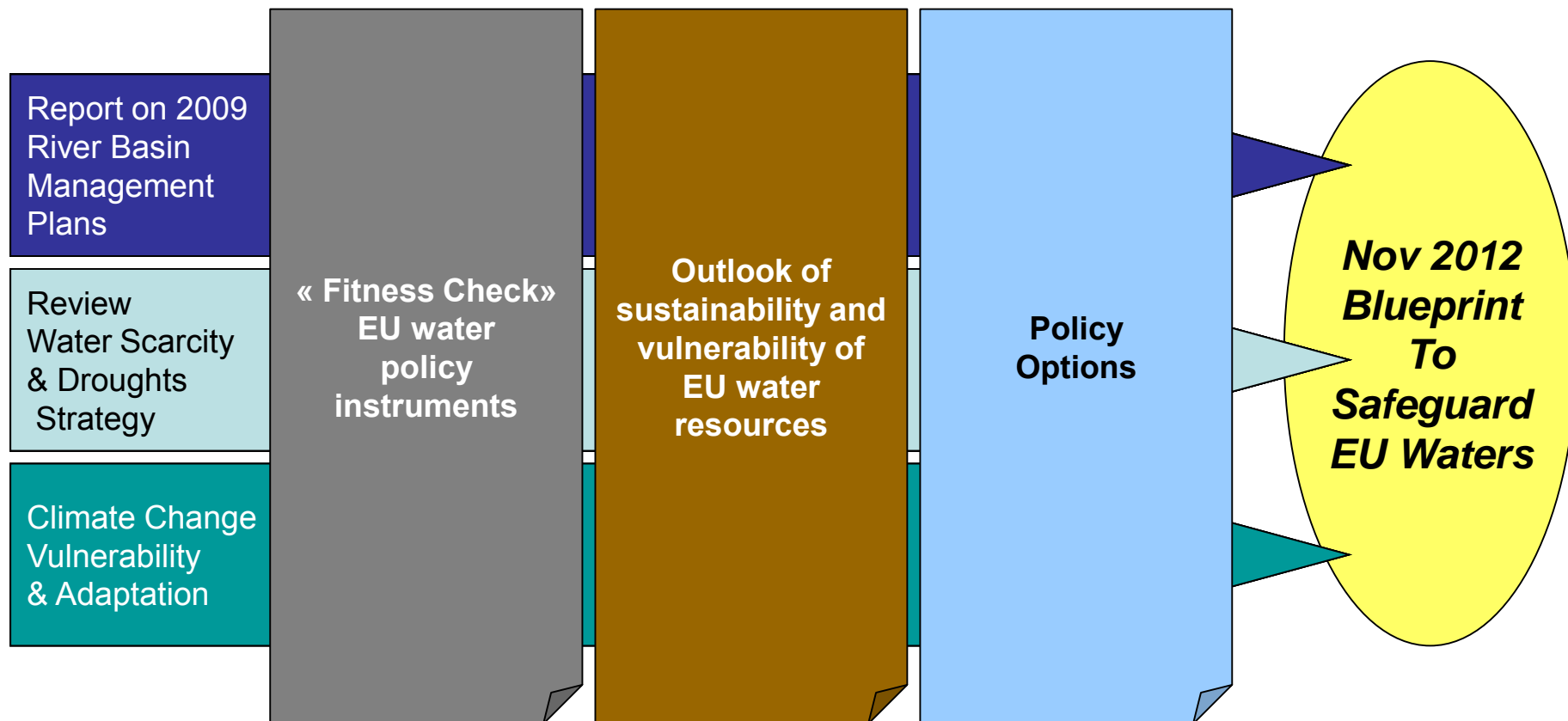
In the European Union, for the first time in the World,
28 EU countries + 2 adopted
The same basin oriented approach!

- **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.**



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.....

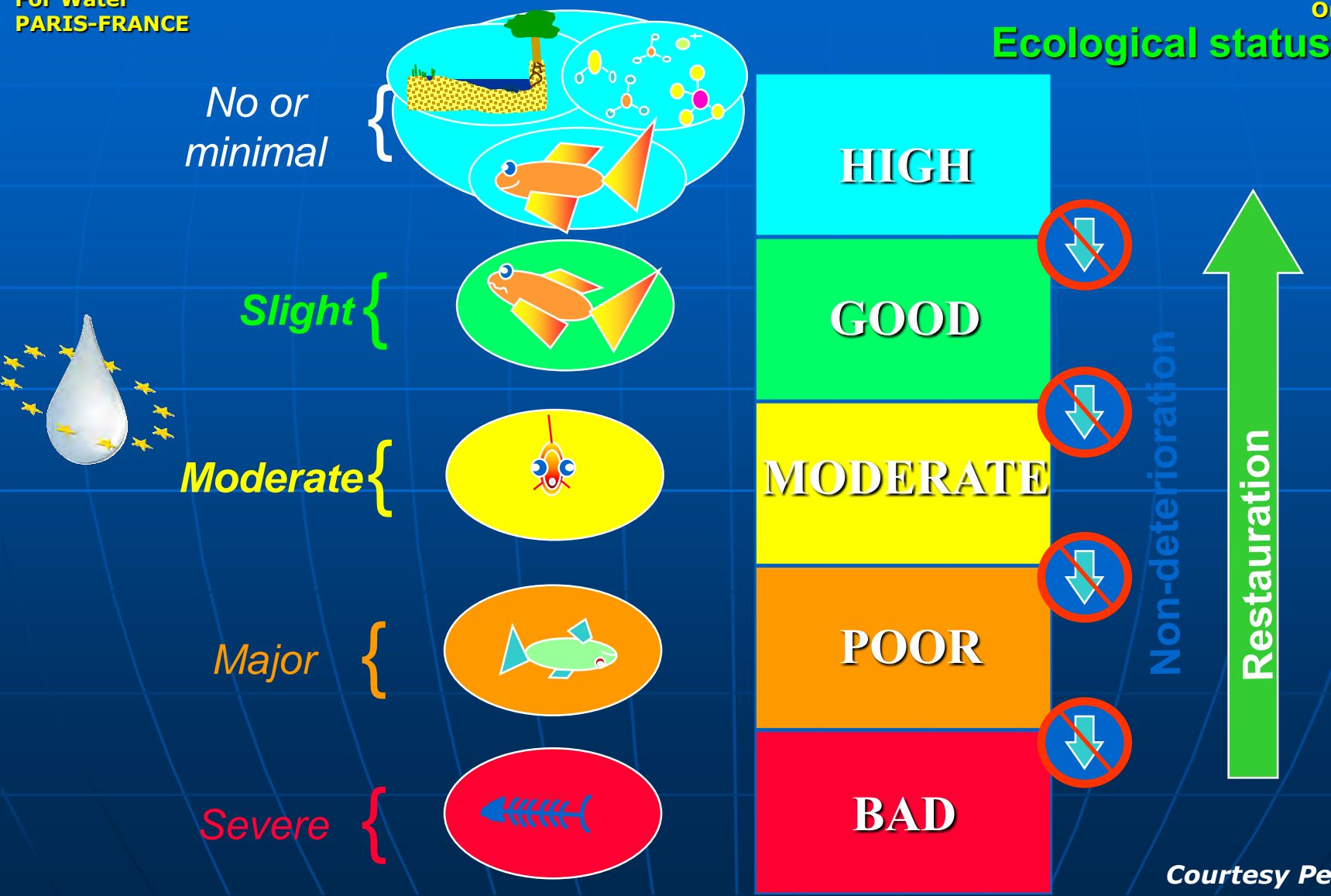


A SIGNIFICANT PERCENTAGE OF WATER BODIES DID NOT REACH "GOOD STATUS" IN 2015.



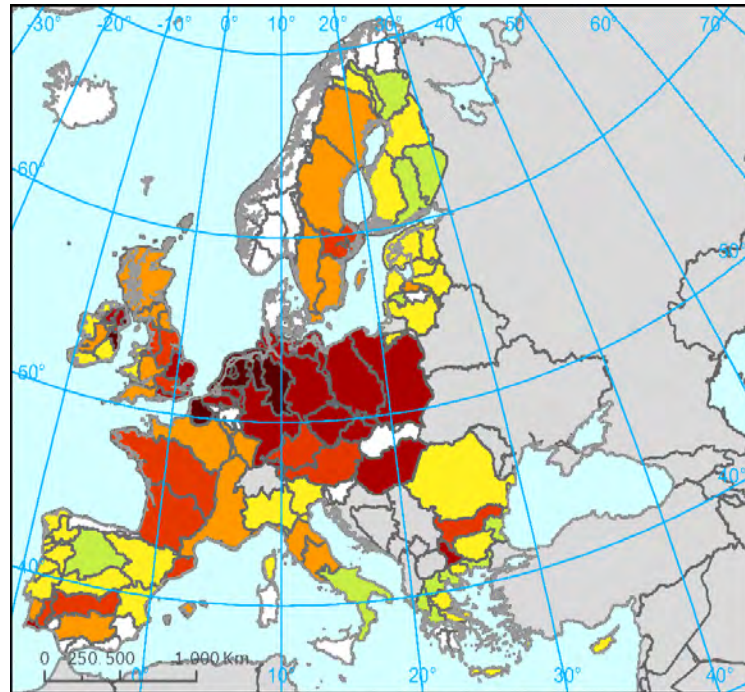
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Courtesy Peter Pollard

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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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?
What are the difficulties and a realistic agenda?



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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;*
- *But also preparing the WFD REVIEW for 2019*

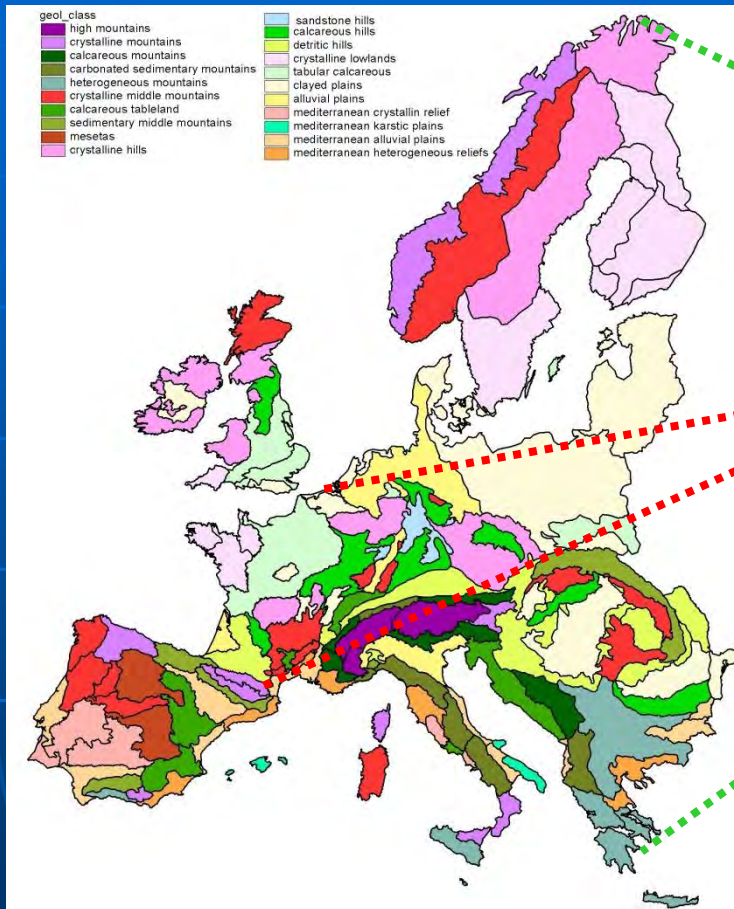


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Strengthening Water Information Systems In each Member- States



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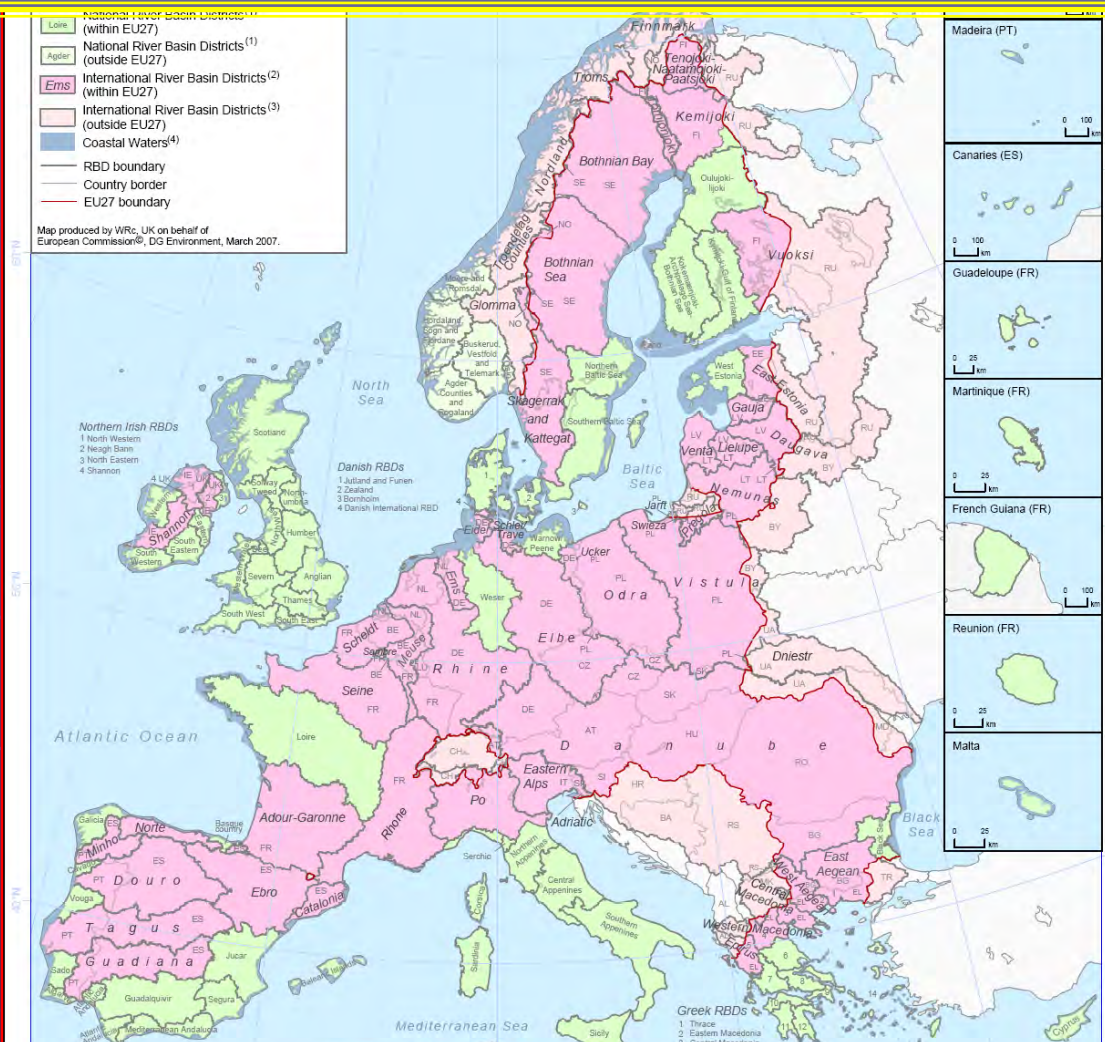
- Integrated information and monitoring systems which are reliable, representative, harmonized and easily accessible, and specific research should be organized in each basin,

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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**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,
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?





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...



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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:

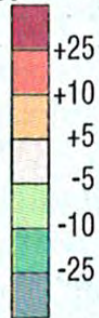


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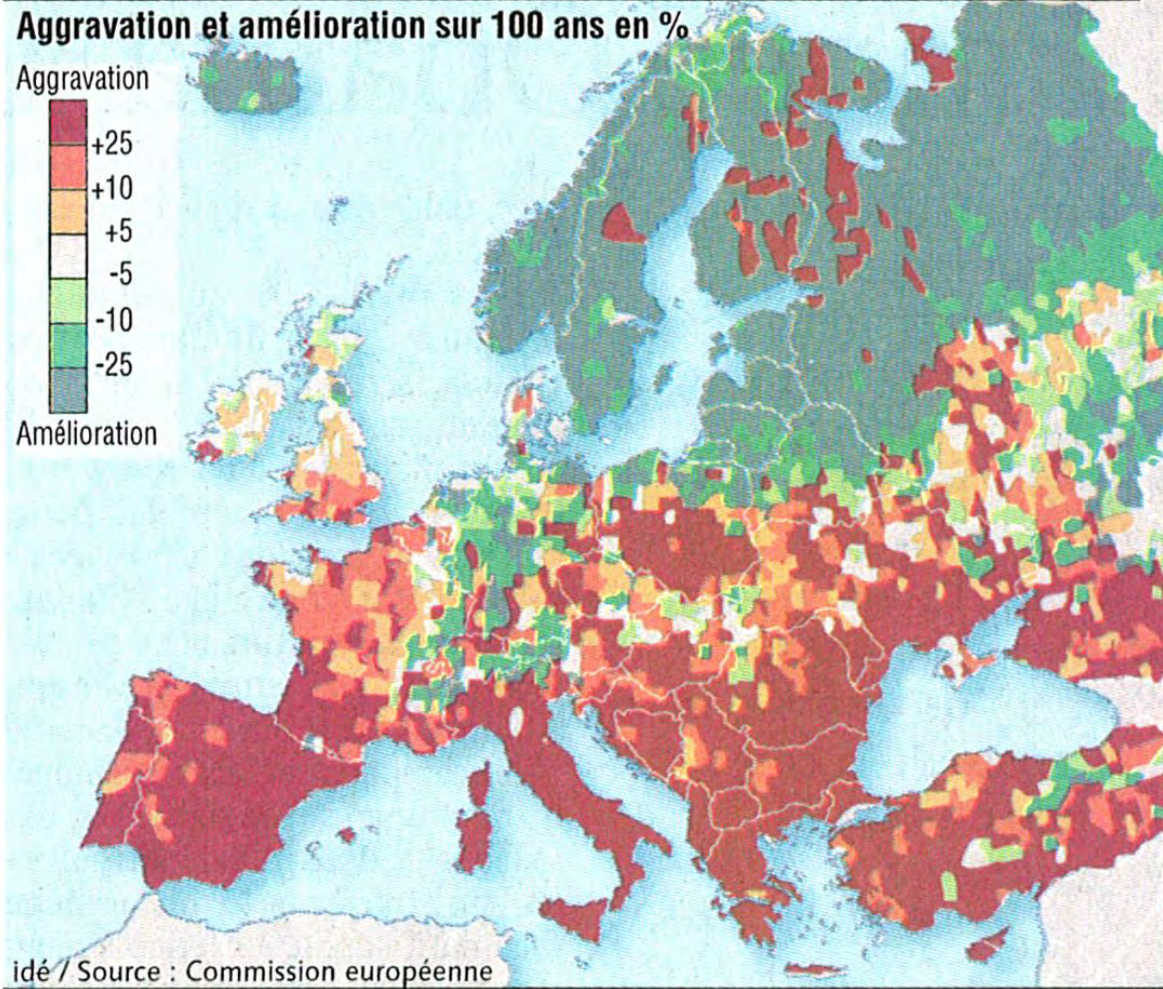
L'évolution des sécheresses en Europe (de 1970 à 2070)

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,**
- **NATURAL WATER RETENTION MEASURES...**

... MUST BECOME PRIORITIES.



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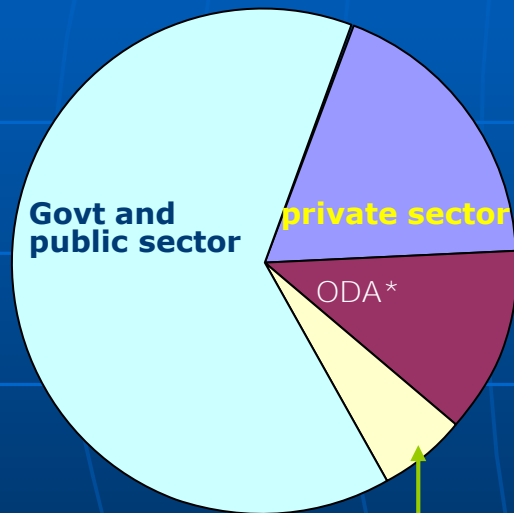
**IF WE ARE NOT ABLE TO MOBILIZE ENOUGH MONEY,
WE SHALL NOT HAVE THE FRESH WATER WE NEED!**



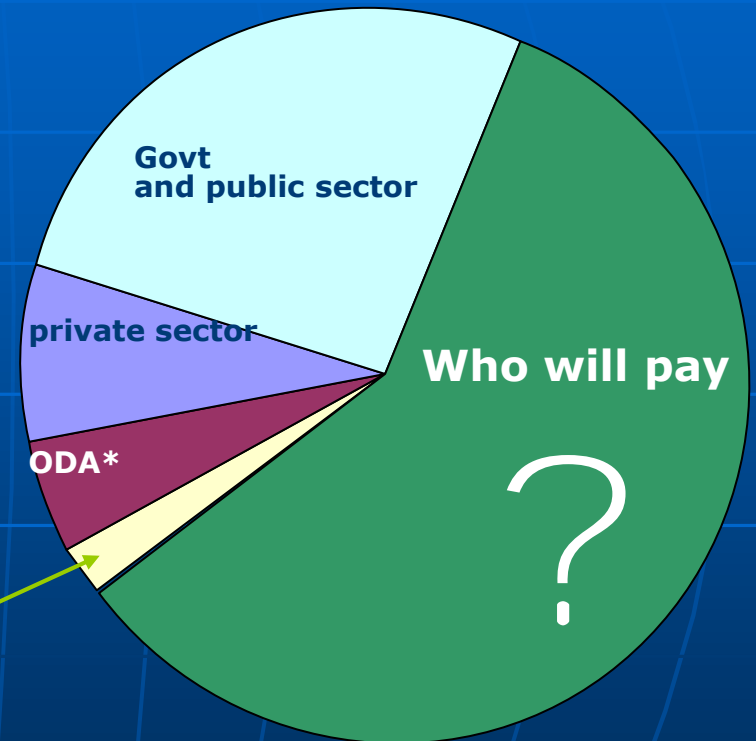
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FOR THE NEXT 16 YEARS

NOW



International firms



* Official Development Assistance



Permanent
Technical
Secretariat
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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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United Nations

Framework Convention on Climate Change



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MARRAKECH
COP22|2016|CMP12
UN CLIMATE CHANGE CONFERENCE

14-25 November 2016

2 December 2015
at COP21



WATER AND ADAPTATION TO
THE EFFECTS OF CLIMATE CHANGE

WE

MUST
CAN
WILL



Lima-Paris Action Agenda



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

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 fresh water into the Global Climate Action Agenda, especially for initiating or strengthening necessary adaptation actions in the basins of rivers, lakes, aquifers, large wetlands as well as coastal areas.

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

and social development and the

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.



MARRAKECH
COP22|2016|CMP12
UN CLIMATE CHANGE CONFERENCE

vCOP22

Paris Pact



www.inbo-news.org
www.cop22.ma





Paris Pact on water and adaptation to climate change in basins



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RECOMMENDED ACTIONS:

1) Reinforce capacity development and knowledge,

Establish risk warning and water information systems in a context of uncertainty.

2) Adapt basin management planning to climate change,

Better controlling water demand and developing a more efficient and sustainable use of water resources (including groundwater) - Enhance the services of water-related ecosystems

3) Reinforce governance,

Create new basin organizations and reinforce existing ones

Support mechanisms for the involvement of the stakeholders in basin management,

4) Ensure adequate financing.

Establish investment program and sustainable financing mechanisms

We do not have to reinvent the wheel to act quickly!

Did you sign it?



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**MARRAKECH
COP22|2016|CMP12
UN CLIMATE CHANGE CONFERENCE**



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COP22 – 07 – 18 NOVEMBRE 2016: MARRAKECH – MAROC





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- **The Alliance of the 357 signatories of the Paris Pact on water and adaptation to climate change in the basins of rivers, lakes and aquifers, facilitated by INBO in partnership with UNECE,**
- **The Business Alliance for Water And Climate Change - BAFWAC, launched by the Carbon Disclosure Project - CDP, the CEO Water Mandate, the World Business Council for Sustainable Development and SUEZ, which has now 44 member organizations, including 30 leading companies,**
- **The Alliance of Megacities for Water and Climate, facilitated by UNESCO, ICLEI, SIAAP and Arceau-IDF, gathering 16 Megacities for a total population of 300 million inhabitants,**
- **The Alliance of dessalinisation**



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The four "Alliances" of Basins, Megacities, Desalination and Business are getting mobilized to support the implementation of the Paris Agreement



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OUTCOME DOCUMENT OF THE ACTION EVENT ON WATER

In short term (2017- COP23):



- Confirm the water action day on the Global Climate Action Agenda of the COP.
- Create, within the general framework of the Global Climate Action Agenda, a formally recognized multi-stakeholder dialogue space for the water international community to maintain the momentum of water between COPs and to prepare the Water Action Day.
- Support countries, especially in Africa, in how to include ambitious, credible, and robust water programs in their NDCs for both climate mitigation and adaptation, and to promote the relationship of water in the NDCs and NAPs with the SDG;
- Create a water and energy hub for exchange and capacity building to assist developing countries, African countries in particular;
- Launch two pilot projects related to National Water Information Systems;
- Establish multi-parties dialogues in the pilot hydrographic basins, in order to identify water related challenges and opportunities for collaboration between local actors and also propose adaptation projects in the water sector.

To ensure the follow-up of these dynamic, the Moroccan Ministry of Water will work on the launch of all these short term actions with the coordination of the COP23 Water Action representatives and all international organizations involved in the water sector.



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MEETING OF THE GREAT RIVERS OF THE WORLD: TAKING ACTION FOR WATER AND CLIMATE ROMA, ITALY, 23-25 OCTOBER 2017





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COP23 – 06 – 17 NOVEMBRE 2017: BONN – ALLEMAGNE





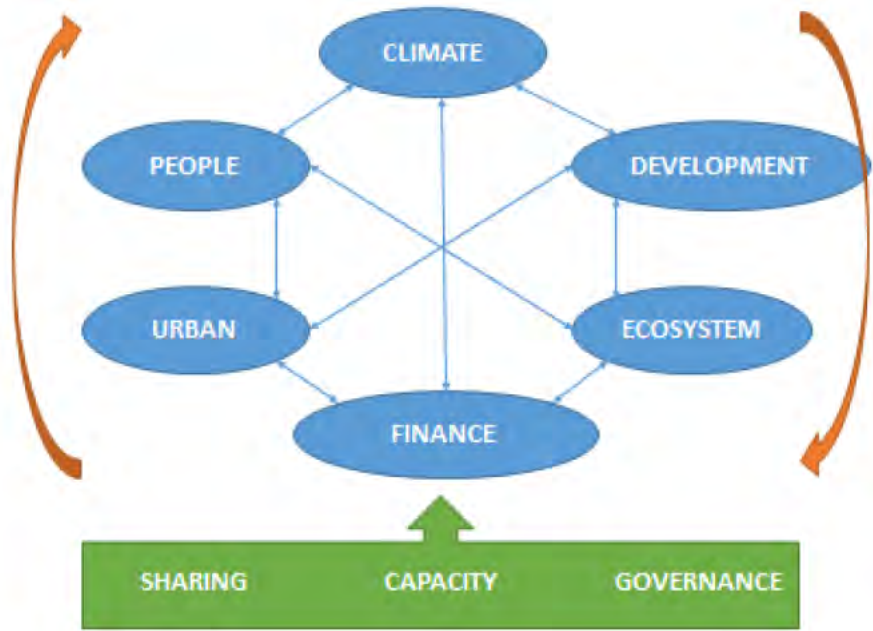
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Revised Thematic Framework Proposal to ISC

The Thematic Structure – at a glance





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DES PROJETS INTERESSANTS INTERESTING PROJECTS



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Les Projets du RIOB:

Conduits par le RIOB ou associant fortement le RIOB et ses partenaires

INBO Projects:

Involving INBO or strongly associating INBO and its Partners



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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**



Phase 1 : 2017

With the
support of



Detection/analysis of projects



Incubation of selected projects
Developping links with donors
Interfacing project holders/donors



**COP23
Roundtable
with donors**





Current portfolio of projects

With the
support of



National Water Information System
Development Plan

Fes city wastewater treatment plant
improvement plan for urban and industrial
wastewater

Project preparation of Diama dam basin's
monitoring system for natural resources and
adaptation measures

Sava river Basin Climate adaptation plan

Capacity Building for the Rehabilitation of the
Zarqa River Project

BAFWAC : Web-Based Peer Learning and
Collective Action Platform



“Paris Pact” flagship projects



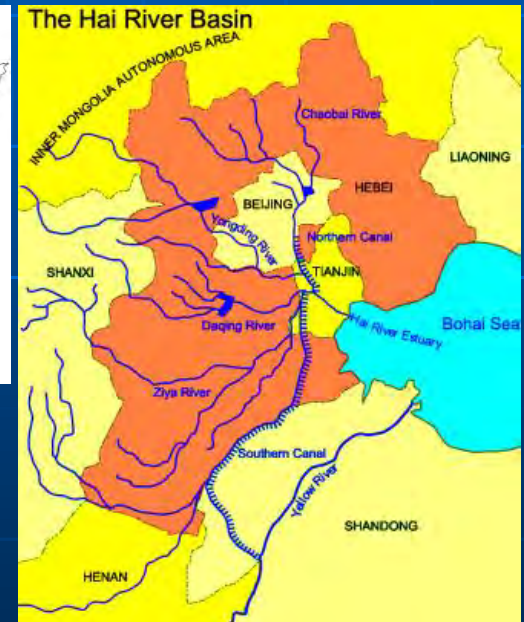
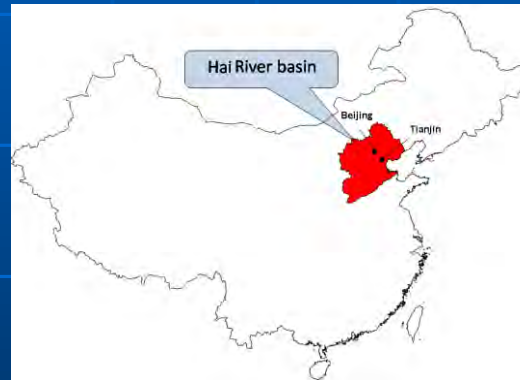
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CHINA – HAI RIVER BASIN Integrated Water resources management And adaptation to climate change.



The 3 - 1000 km long water S/N transfers diverting flows of the Yangtze river to provide water to the water stressed cities of Beijing and Tianjin in the Hai river basin.



Context:

- **M**egacities (Beijing+Tianjin: 34 million people)
- **H**ighly affected by water stress, frequent floods and droughts, and high pollution

“Paris Pact” flagship projects



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MEXICO – MEXICO DF AND VALLEY Integrated water resources management and adaptation to climate change.

District Federal and 60 neighbor Municipalities



Context:

- **M**egacity (Mexico: 23 million people – 2nd W largest city),
- **A**ltitude 2250m,
- **S**carcity: 160 m³/habitant/an,
- Low level of aquifers, driving of soils,
- Eutrophisation of the réservoirs,
- Urban flooding
- Low level of waste water treatment





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“Paris Pact” flagship projects



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EcoCuencas –LATIN AMERICA Financial mechanism for basin adaptation (Peru, Ecuador, Brazil and Colombia)



The transboundary Catamayo-Chira river basin, shared between Ecuador and Peru.

Location of the pilot basins.



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ASCONIT
CONSULTANTS

eco
logic

REDE BRASIL
DE ORGANISMOS DE BACIAS HIDROGRÁFICAS

EcoCuencas

Autoridad Nacional del Agua

Secretaría Nacional
del Agua

Agência das Bacias PCJ

Cuenca Verde

IRAGER
INSTITUTO REGIONAL DE APOYO A LA
GESTIÓN DEL CUELO ACUÍFERO

CONFEDERACIÓN
HIDROGRÁFICA
DEL JÚCAR

CONFEDERACIÓN
HIDROGRÁFICA
DEL JÚCAR

Office
eau

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OCDE



Défis de l'information sur la dynamique climatique



International
Network
Of Basin
Organizations

International
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For Water
PARIS



- Diminution sensible des stations d'observation et de collecte des données hydrométéorologiques au sol,
- Difficulté de validation des scénarios des projections globales de changement climatique.



iwrm-net



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PARIS-FRANCE**





Natural Water Retention Measures

**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

**Web-based knowledge
Community of practice
NWRM practical guide**



“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





30 EU TWINNING FOR 1999

30 Jumelages sur l'eau depuis 1999



BELARUS



MOLDOVA



UKRAINE



ARMENIA



AZERBAIJAN



GEORGIA

EU MEMBER STATES CONSORTIUM:



AUSTRIA



FRANCE



CROATIA

INTERNATIONAL ORGANISATIONS:



UNECE



OECD

BETTER POLICIES FOR BETTER LIVES



UNECE



OECD

BETTER POLICIES FOR BETTER LIVES

umweltbundesamt^U
ENVIRONMENT AGENCY AUSTRIA



International
Office
for Water



HRVATSKE VODE



Office
International
de l'Eau
PARIS

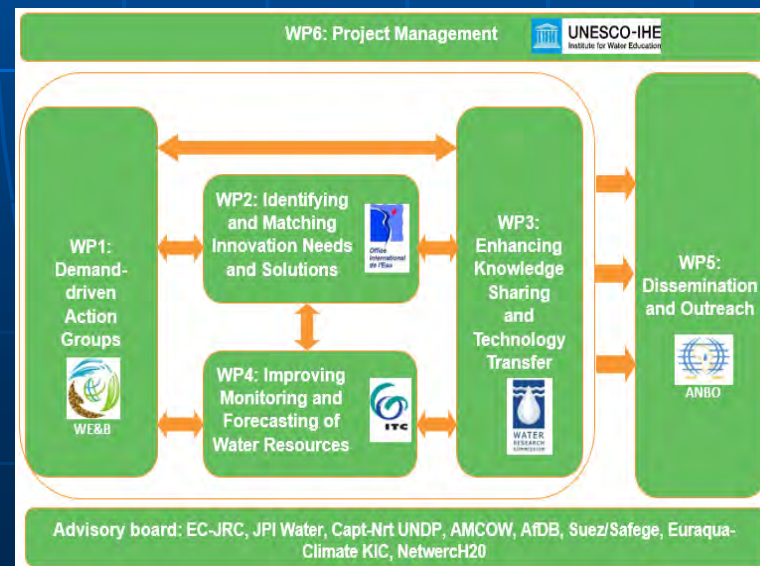


Réseau
International
des Organismes
de Bassin

Afri-Alliance (Afri-EU Innovation Alliance for water and Climate)

EU H2020 project , 2016-2021 - 16 partners

Objectif: permettre aux acteurs africains et européens du monde de l'eau de travailler ensemble sur les thèmes de l'innovation, de l'interface science politique pour développer les capacités de l'Afrique à répondre aux enjeux liés au changement climatique.





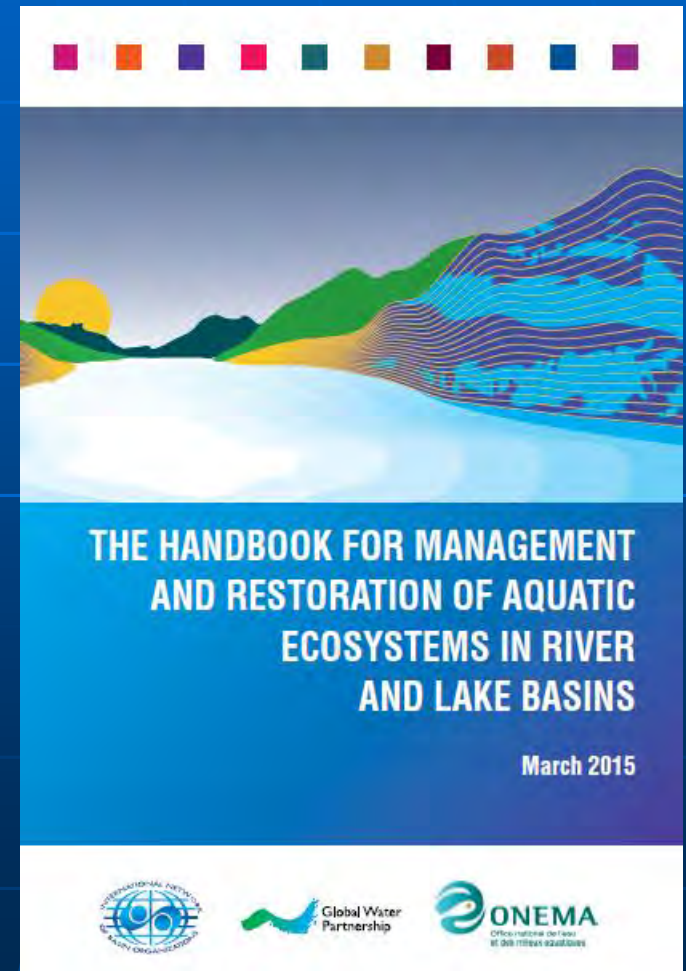
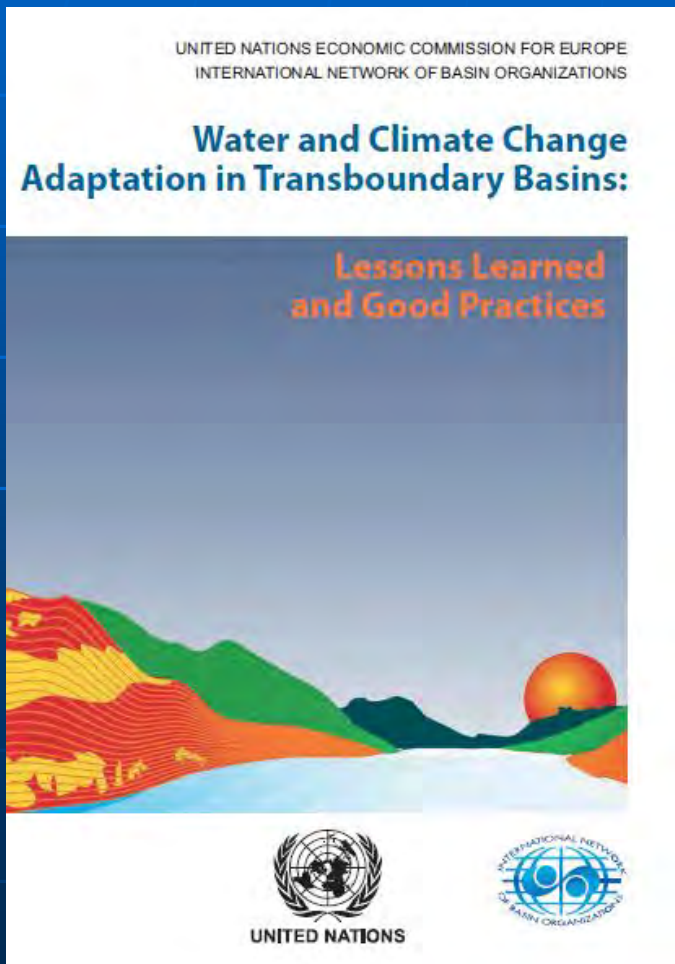
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... et deux Nouveaux "Manuels" en 2015,
traduits en anglais et en français.

Two new publications in 2015



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With our partners - Avec nos partenaires



Global Water
Partnership



International
Network
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Organizations

**Nous avons en préparation / We are preparing
pour / for 2017 et 2018 :**

- **Un Cinquième et un Sixième «Manuels»**
- **5th and 6th new Handbooks:**
 - ❖ **« Les Systèmes d'Information sur l'eau »**
 - ❖ **« Water Information Systems »**, et
 - ❖ **« la Participation des secteurs économiques et de la société civile: Rôle des Comités de bassin ».**
 - ❖ **« Stakeholders participation »....**



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International
de l'Eau
PARIS



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« INBO NEWSLETTER »
No 26 / 2017 - 2018
PLEASE REPLY BEFORE 10/31/2017



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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 لميئات الـ حواض



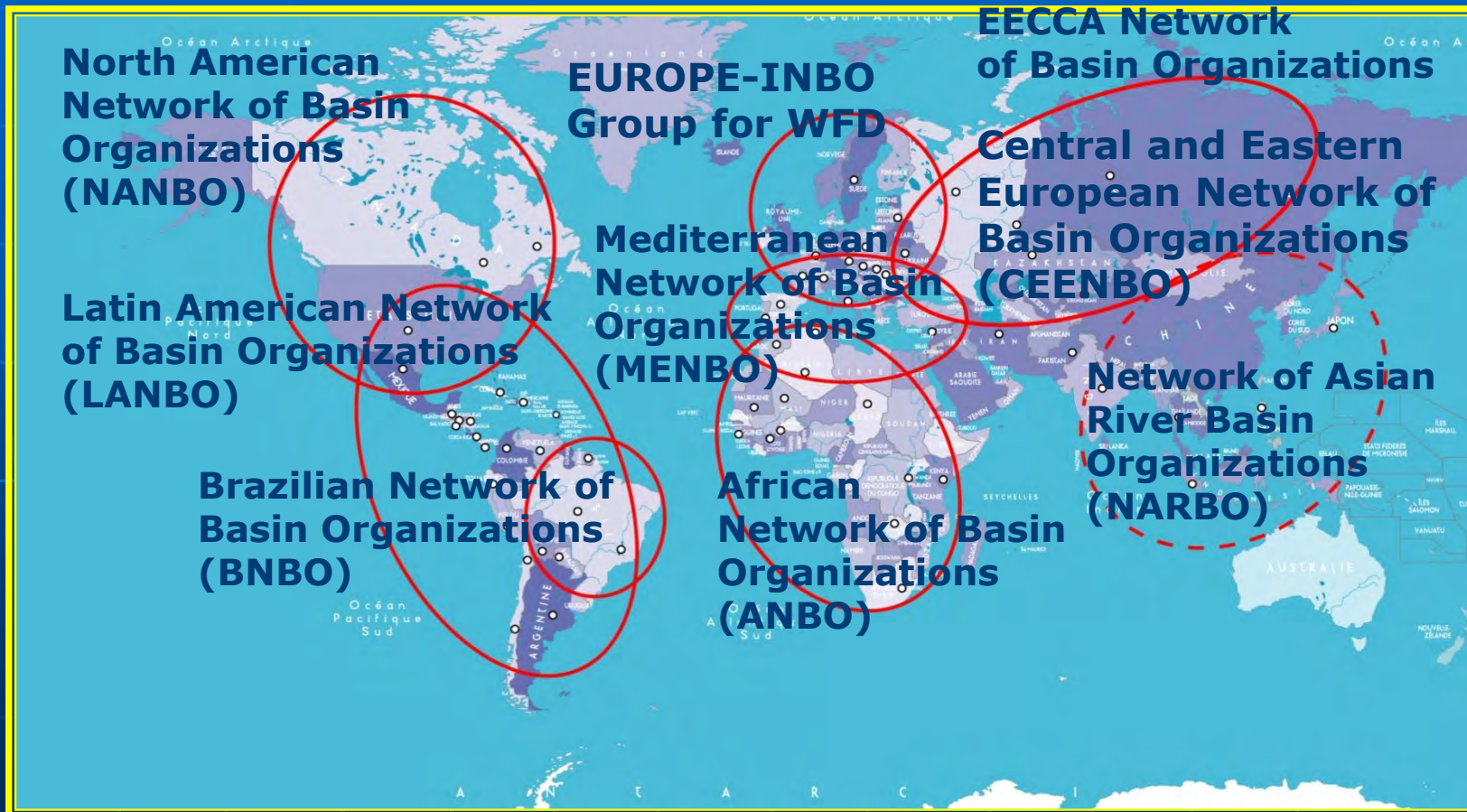
INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS

**Created in 1994 to facilitate
operational exchanges between BO**



**International
Network
Of Basin
Organizations**

INBO's REGIONAL NETWORKS



**192 FULL MEMBERS or PERMANENT OBSERVERS
in 88 COUNTRIES**