



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

الشبكة الدولية لهيئات الأحواض



FRESH WATER IS A TIME BOMB!!!





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WATER OVER THE WORLD, A worrying situation:

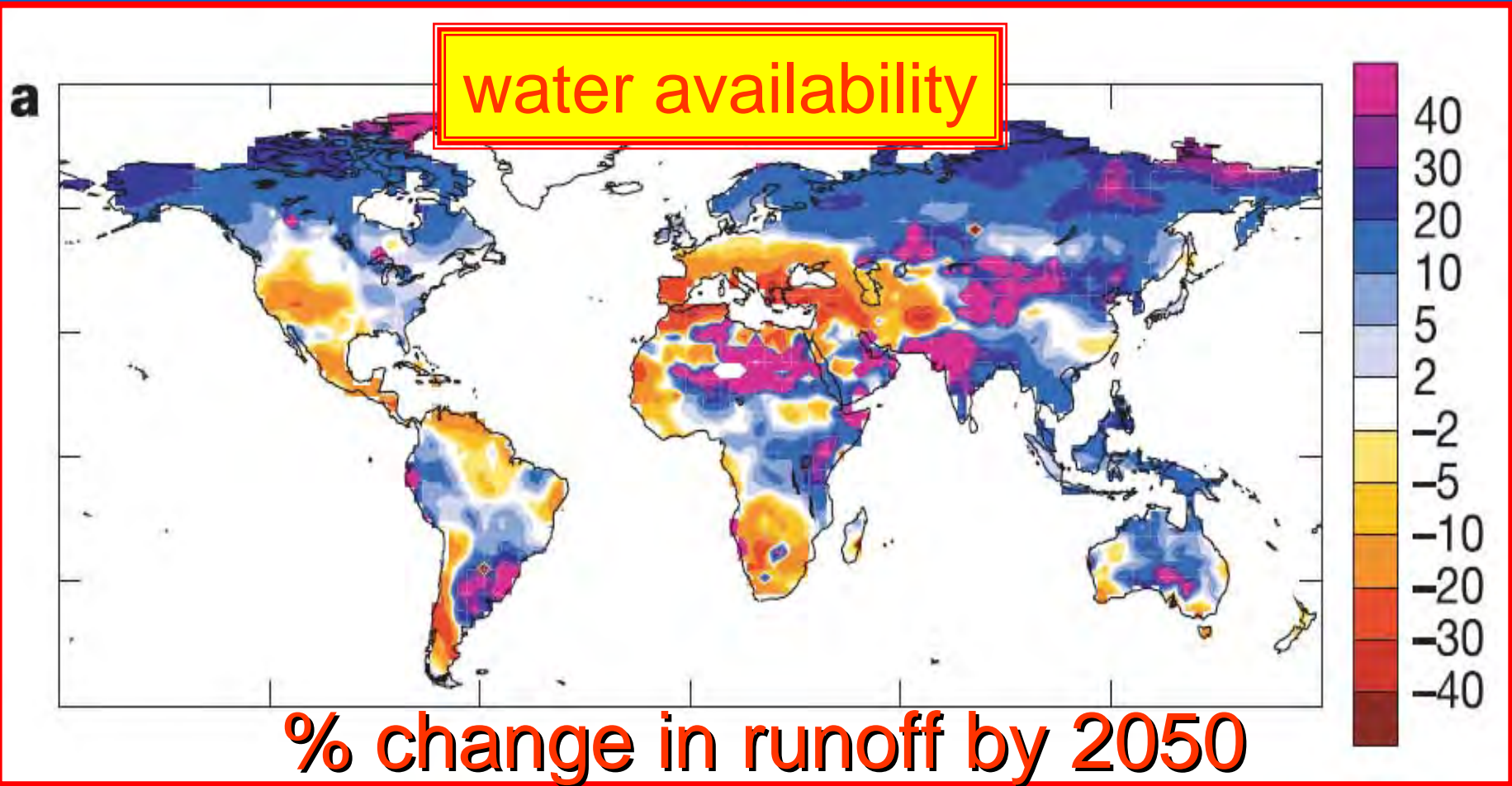
- Natural hazards are poorly controlled,
- Wastage is inadmissible,
- Water pollution is significantly increasing,
- The situation of the poorest people is intolerable,
- Ecosystems are destroyed...

**Wastage and pollution of inland freshwater
might limit development
in most countries of the world!**



Global warming cannot now be avoided.

Fresh water resources will be directly affected in the coming years!



- Many of the major “food-bowls” of the world are projected to become significantly drier
- Globally there will be more precipitation
- Higher temperatures will tend to reduce run off
- A few important areas drier (Mediterranean, southern South America, northern Brazil, west and south Africa)



_Climate change consequences



The climate change is likely to increase the frequency of extreme events, such as floods and droughts:



Adaptation of water management to climate change is needed



The demographic, economic and ecological consequences of the climate change are likely to be very significant.

**It is thus essential to adapt
water resources management policies,
by taking into account the new elements of this change.**

**It is especially necessary to quickly evaluate
the hydrological consequences of this change,
according to various scenarios,
to increase the thinking about and prospective,
by developing adapted research programs.**

Water resources and global changes



Conflicts!!



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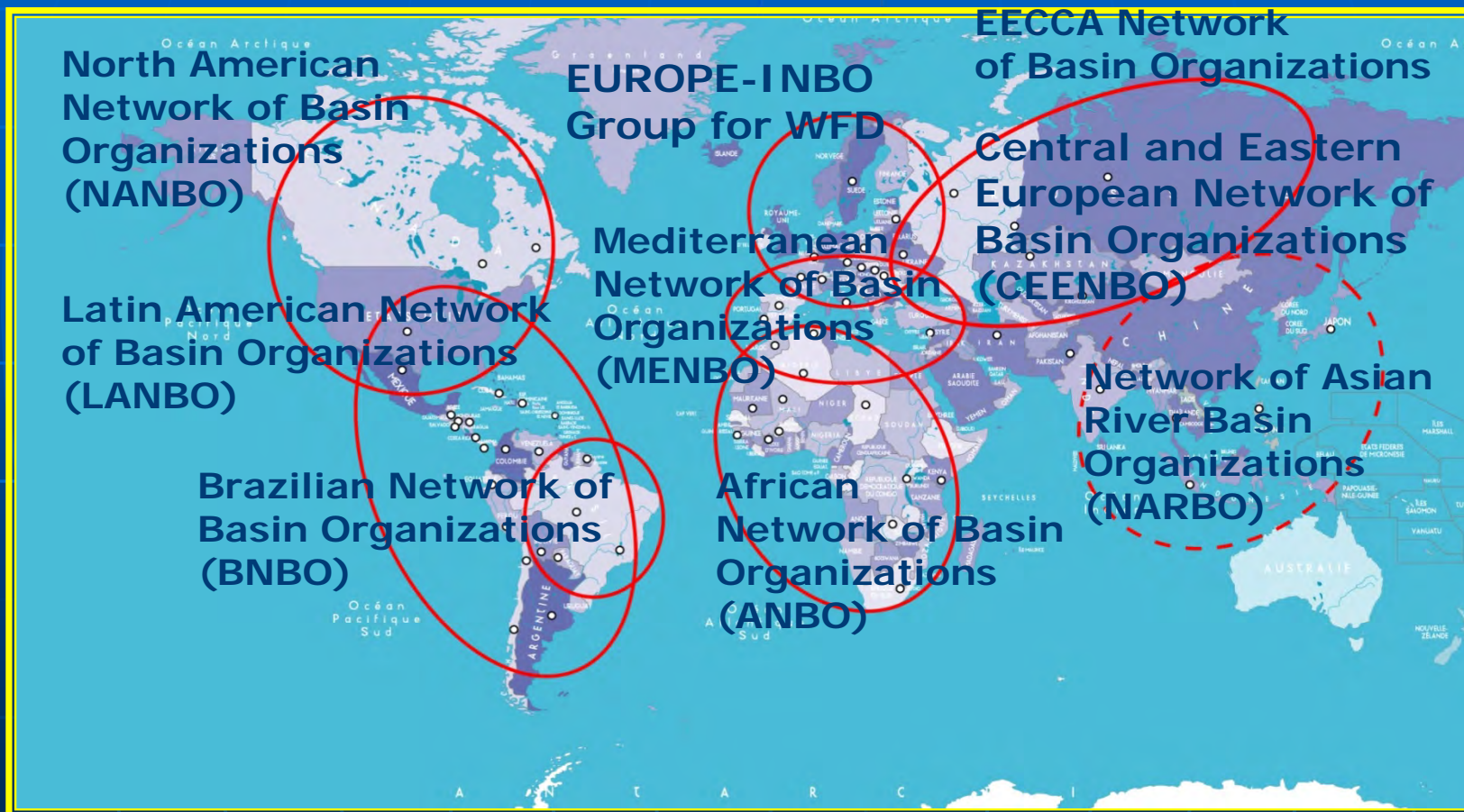
INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS

Created in 1994 to facilitate
operational exchanges between BO



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INBO's REGIONAL NETWORKS



188 FULL MEMBERS or PERMANENT OBSERVERS
in 81 COUNTRIES



RIVER BASIN MANAGEMENT EXPERIENCED A QUICK DEVELOPMENT IN MANY COUNTRIES



INTEGRATED WATER RESOURCE MANAGEMENT

- OVERALL MEETING
OF RATIONAL AND LEGITIMATE DEMANDS
 - Agriculture
 - Domestic uses
 - Industry
 - Fish farming
 - Electricity
 - Transports
 - Leisure
 - Fishing
- WASTEWATER TREATMENT AND RECYCLING,
- CONSERVATION OF ECOSYSTEMS:
rivers, lakes, wetlands, aquifers, costal areas,
- RISK PREVENTION :
 - Erosion
 - Drought
 - Floods



Indeed, **basins are the natural territories,**
in which water runs,
on the soil or in the sub-soil,
whatever are the national or administrative boundaries
or limits crossed.



An overall approach should be organized
on the relevant scale
of basin areas of rivers, lakes and aquifers,



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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.



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) with the participation in decision-making of the concerned Governmental Administrations, local Authorities, the representatives of different categories of users and associations for environmental protection or of public interest.**



water resources management should be organized:



- 4) based on management plans or master plans that define the medium and long-term objectives to be achieved;**
- 5) through the development of Programs of Measures and multiyear priority investments;**
- 6) with the mobilization of specific financial resources, based on the « polluter-pays » principle and « user-pays » systems;**



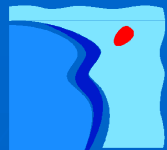
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DEFINING ROLES AND RESPONSIBILITIES OF EACH:



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- **A clear legal framework** must specify, in each country, the rights and obligations, the possible levels of decentralization, the institutional responsibilities of the different stakeholders, the processes and means needed for good water governance,



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water resources management should be organized:



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1) on the scale of local, national, transboundary basins of rivers, lakes and aquifers



**« UPSTREAM-DOWNSTREAM » COMMON CAUSE
ON THE SCALE OF BASINS AND SUB-BASINS**

What do we consider as a *Basin* ?

The concept includes all water resources

SURFACE and



Groundwater

A map of Asia showing international river basins. The map is titled "International River Basins of ASIA" in blue text. The landmasses are light gray, and the river basins are outlined in blue. Numerous basins are labeled with names in black text. In the northwest, basins include Nahr El Kabir, An Nahr Al Kabir, Wadi Al Izziyah, Jordan, Tigris and Euphrates, Kofei-E Namakse, Rudkhaneh-ye, and Dastf. In the north, basins include Coruh, Terek, Goral, Ob, Yenisey, and Amur. In the northeast, basins include Lake Ubsa-Nur, Har Us Nur, Yalu, and Han. In the west, basins include Samur, Kura-Araks, Kizilirmak, Aral Sea, and Tarim. In the south, basins include Helmand, Indus, Ganges-Brahmaputra-Meghna, Salween, Irrawaddy, Kallang, Kamabui, Fenny, Mekong, Song Van Co Dong, Bangau, Pandanau, and Sembakung. In the southeast, basins include Tami, Sepa, and Tjeroka. A small icon of a magnifying glass is located in the lower-left corner of the map area.



RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN
INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS
RED INTERNACIONAL DE ORGANISMOS DE CUENCA



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TWO HUNDRED AND SEVENTY SIX RIVERS OR LAKES AND HUNDREDS OF AQUIFERS ARE TRANSBOUNDARY ONES

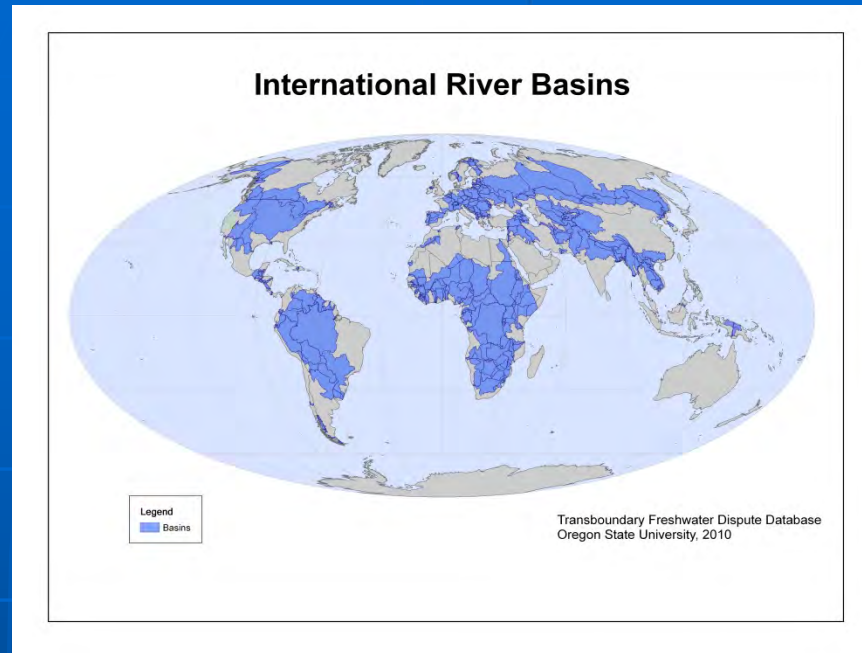


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Transboundary basins per continent.

		2002	Percentage Of territory
<i>Africa</i>		59	62 %
<i>Asia</i>		57	39 %
<i>Europe</i>		69	54 %
<i>America North</i>		40	35 %
<i>America South</i>		38	60 %
<i>TOTAL</i>		276	45 %



today, there are still too few agreements, conventions or treaties, dealing with:

- **pollution control,**
 - **aquifers management,**
- and, a fortiori,
- **the integrated management of shared river and aquifers basins.**



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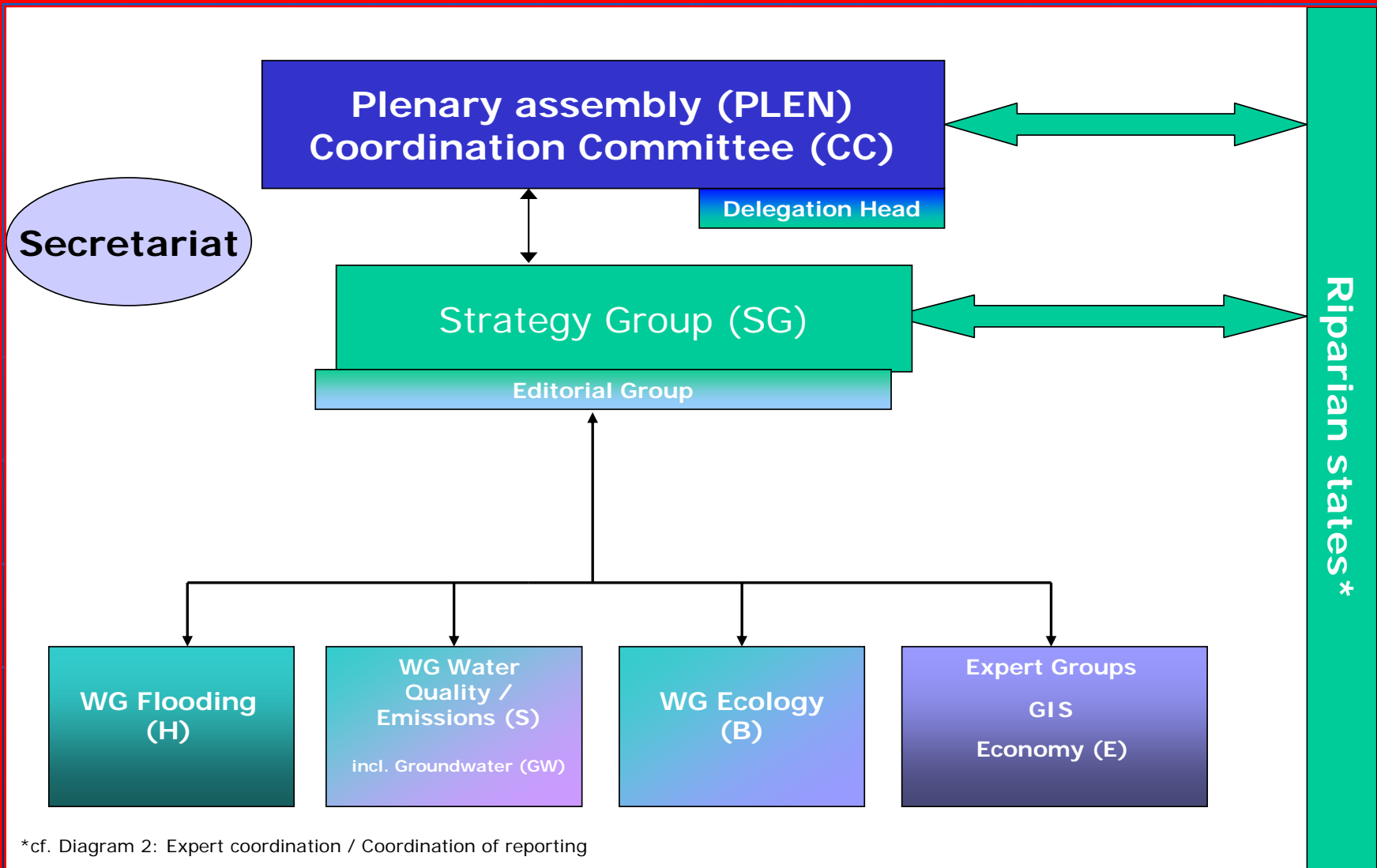


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Implementation of the UN Convention for the international water courses management in Europe – HELSINKY 1992

Building the data administration and sharing capacities
of the national and local Authorities involved in 2 pilot basins,
by using methodologies that can be replicated
in other transboundary basins of the region.





*cf. Diagram 2: Expert coordination / Coordination of reporting

RHINE

« the World Pact for better basin management »



International Network of Basin Organizations

World Pact for better basin management

Gathered in Marseilles on the occasion of the 6th World Water Forum on 16 March 2012, **WBO**, representatives of river, lake or aquifer basin organizations, from different parts of the world, subscribe to the present **"World Pact for better basin management"** in view of the development of integrated and joint water resources management at national, regional and transboundary level to meet the challenges facing our planet.

Indeed, we must achieve the Millennium Development Goals and ensure "green growth" and face the global changes associated with the rapid world population growth, migration, increasing urbanization, climate change, etc.

Our efforts should indeed allow fighting against natural disasters, reliably meeting the drinking water needs of urban and rural populations to improve hygiene and health and prevent epidemics, securing food sufficiency, developing industry, energy production, waterways transport, tourism and recreational activities, preventing and controlling pollution of all kinds to preserve aquatic ecosystems, support fish production and more generally preserve the biodiversity of water-related environments.

All these stakes cannot be tackled on a sectoral or local basis, or separately from each other. The search for solutions must instead involve all stakeholders in an integrated and joint approach, organized in cooperation with the river basin units and for the sustainable use of water resources.

PART 1: PREAMBLE

Through our commitment to this Pact, we recognize that:

- It is becoming imperative to introduce and/or permanently strengthen new forms of governance of water resources, such as those already recommended at Dublin (1991), Rio (1992), Paris (1998), The Hague (2000), Johannesburg (2002), Kyoto (2003), Mexico (2006) and Istanbul (2009) in particular;
- River, lake and aquifer basins are the relevant territory for the organization of joint management of water resources, aquatic ecosystems, and all water-related activities;
- The different ecosystems found in river basins are very important both for biodiversity and environmental services, including for the regulation of the hydrological cycles and risk prevention, as well as for the treatment of pollution;
- The basins of transboundary rivers, lakes and aquifers are to be paid special attention and be jointly managed by the riparian countries;



Pact

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«Глобальный Пакт о повышении эффективности управления на уровне бассейнов»

Мобильность. В марте 2012 года в Мarseille на 6-м Всемирном Форуме Воды, куда собрались представители более 100 стран, подписали «Глобальный Пакт о повышении эффективности управления на уровне бассейнов».

Наши усилия должны быть направлены на достижение следующих целей: повышение эффективности управления водными ресурсами, защита водных экосистем, обеспечение устойчивости водных ресурсов, предотвращение и контроль загрязнения, развитие водного транспорта, развитие водной энергетики, развитие водного туризма и рекреации, развитие водной промышленности и строительства, развитие водной инфраструктуры, развитие водной культуры и образования.

Мы признаем, что управление водными ресурсами является сложной задачей, требующей совместных усилий всех заинтересованных сторон. Мы признаем, что управление водными ресурсами является сложной задачей, требующей совместных усилий всех заинтересованных сторон.

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الشبكة الدولية لهيئات الأحواض

«إننا نؤمن بالضرورة على ضرورة إدارة المياه بطريقة متكاملة، مع الأخذ بعين الاعتبار جميع الجوانب البيئية، الاجتماعية، الاقتصادية، والثقافية، وذلك من أجل تحقيق التنمية المستدامة.»

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الميثاق العالمي لتأسيس إدارة الأحواض

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为更好管理流域的全球公约

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WITH REGARD TO FLOODS:



India



Reuters August 11, 2006
"Indian floods:
kill 350,
leave 4m homeless
in 5 Indian states"

« UPSTREAM-DOWNSTREAM » COMMON CAUSE ON THE SCALE OF BASINS AND SUB-BASINS

Sub-basin/Sector/
Water type

element of district to deal
with particular aspects

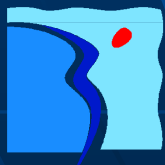
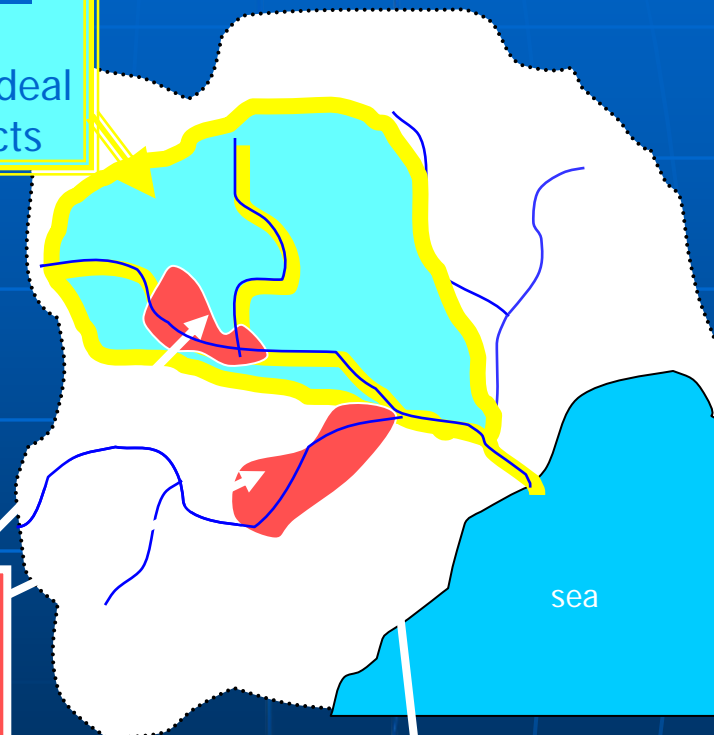
THE DIFFERENT HYDROLOGICAL SCALES:

Water bodies

scale of evaluation
of the achievement
of good status

District =

river basins + associated
groundwaters and coastal waters





FLOOD CONTROL: PROTECTION, FORECAST, PREVENTION.



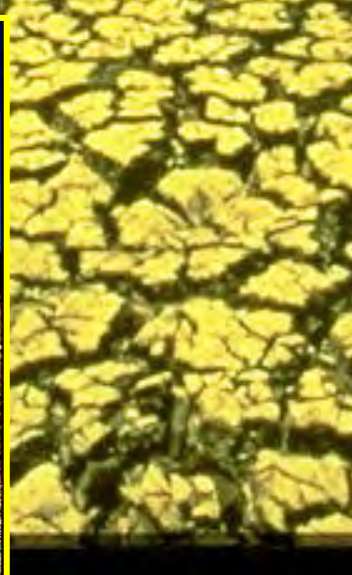
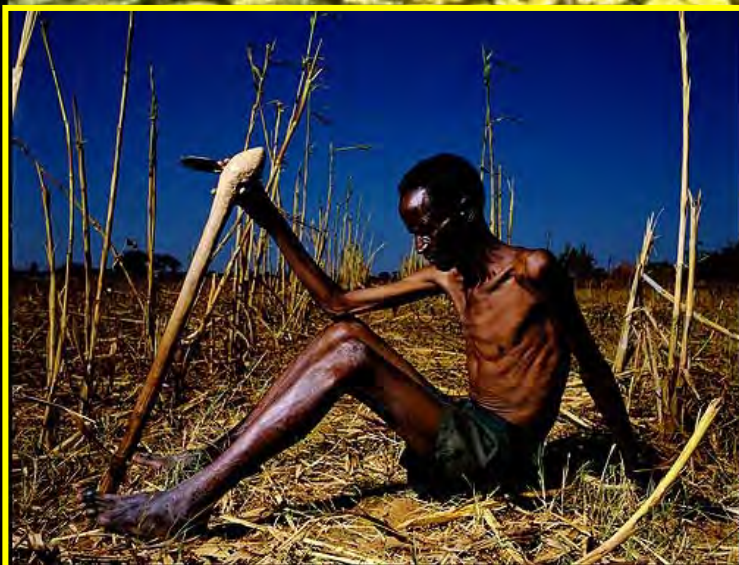
PROTECTION AGAINST FLOODS
MUST PASS THROUGH A COORDINATED APPROACH,
COMBINING, ON THE SCALE OF BASINS AND SUB-BASINS:

- 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.

Persistent droughts

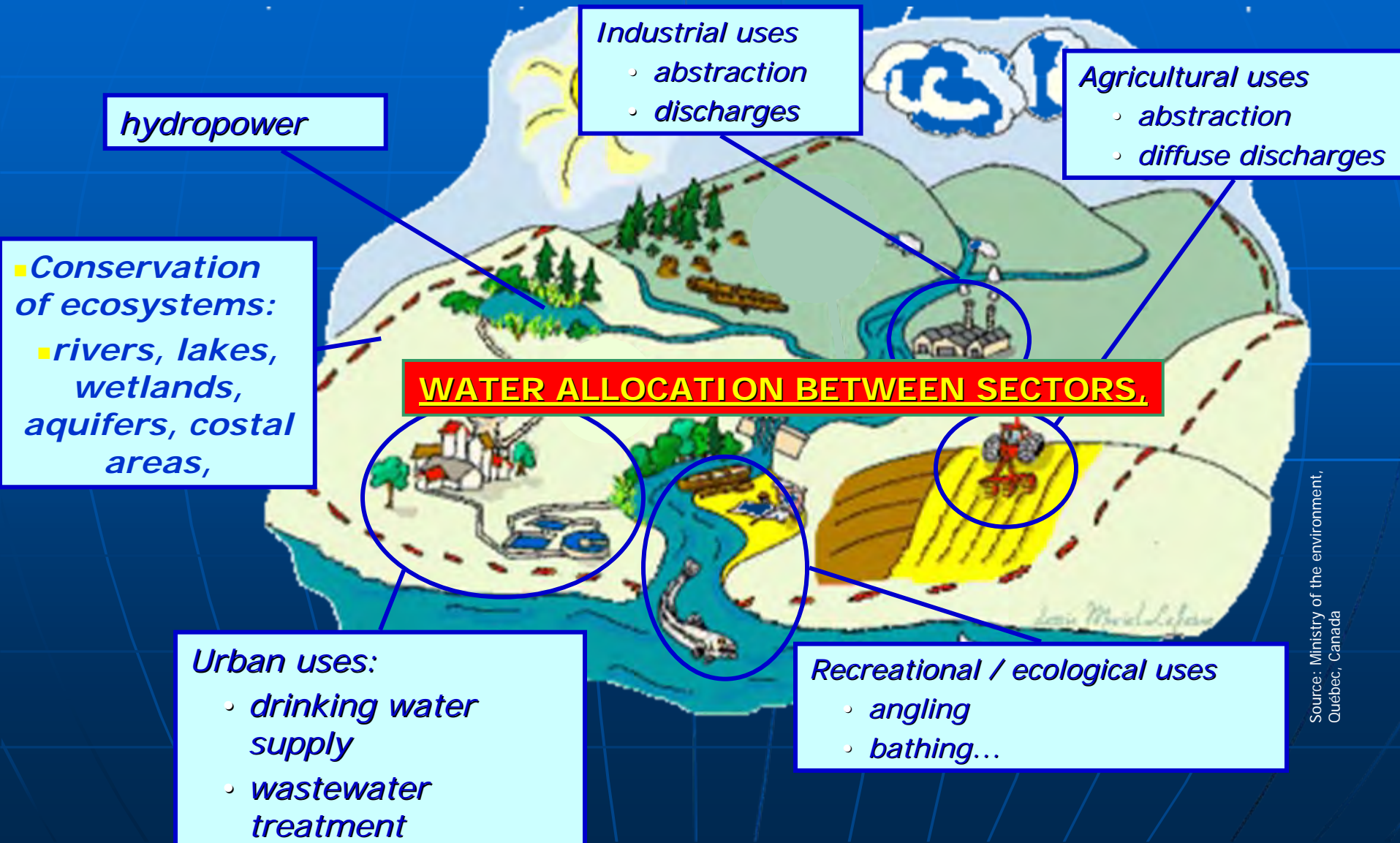
Reuters, Feb. 20, 2006

“Approximately 11 million people are threatened by starvation in Djibouti, Ethiopia, Kenya, Somalia and Tanzania... Rain is unlikely before April”



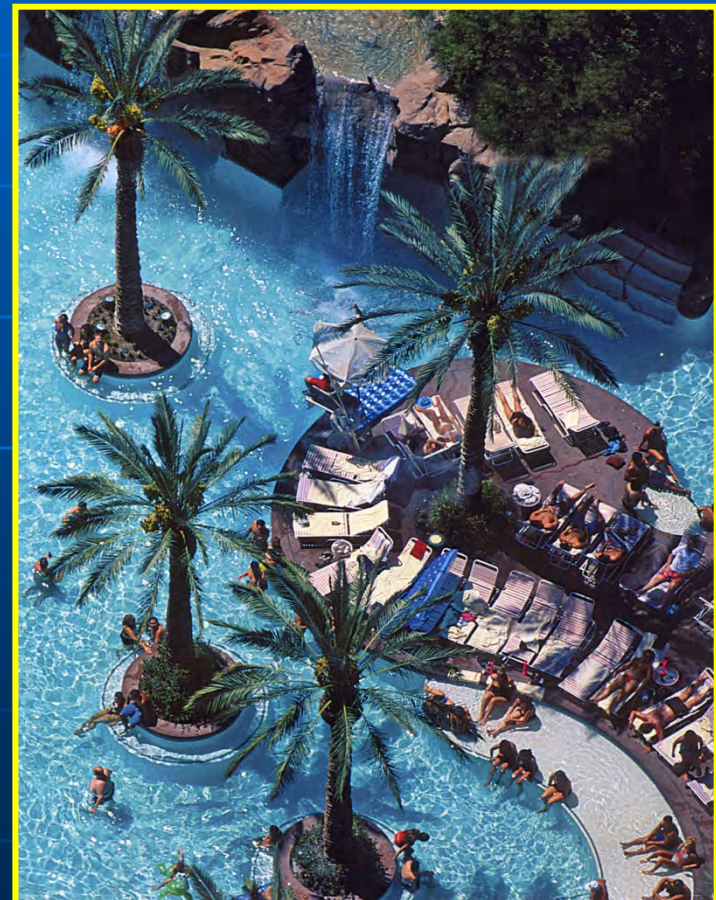
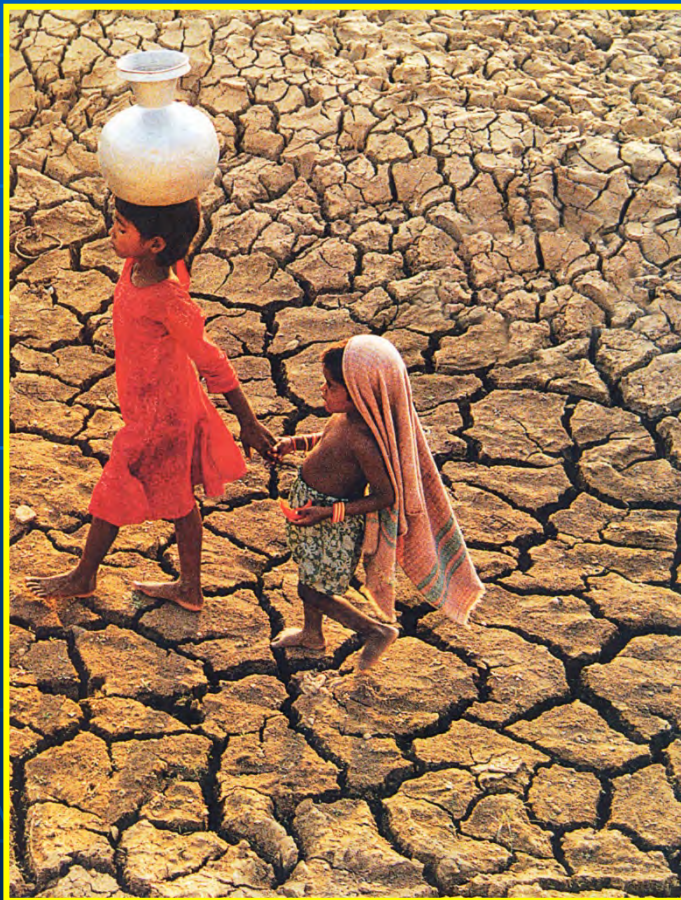


CLIMATE CHANGE CONCERNS ALL MAJOR WATER USES





IS WATER EQUITABLY AND SOUNDLY SHARED BETWEEN THE VARIOUS USES, ENSURING A BETTER OPTIMIZATION OF WATER AND AVOIDING WASTAGES?





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





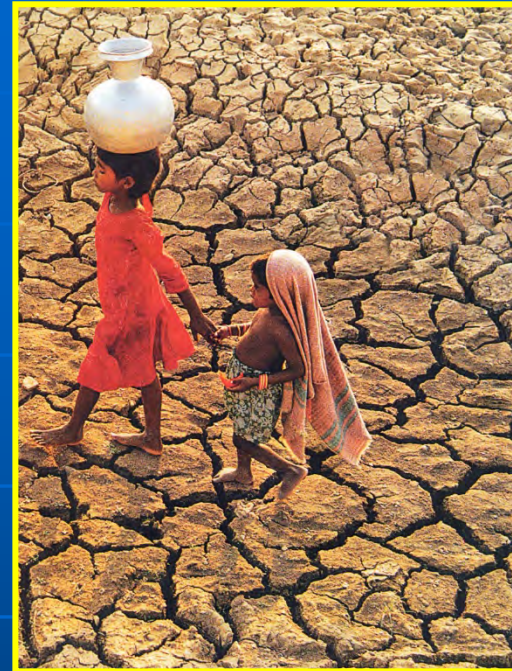
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WITH REGARD TO DROUGHTS:



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AVOIDING WASTAGES!

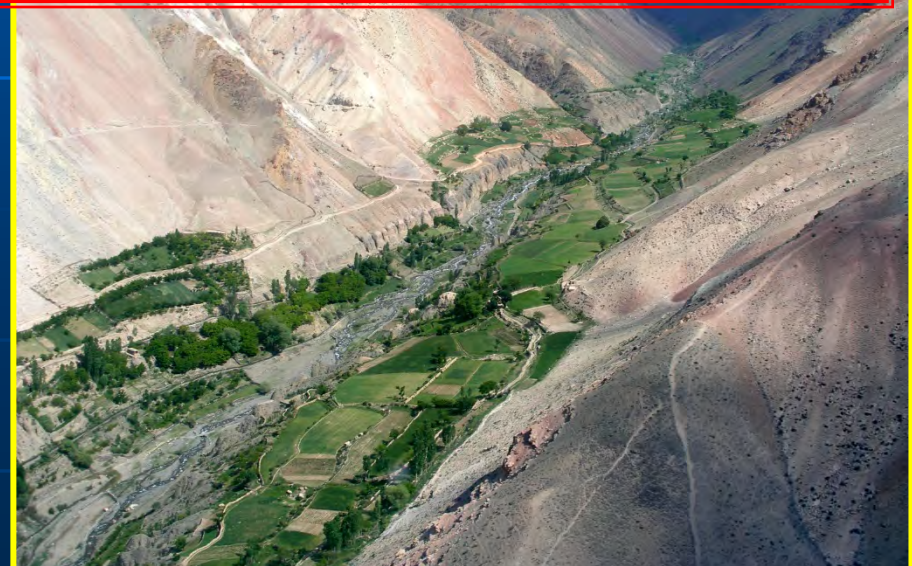


- WATER SAVING,
- LEAK DETECTION,
- RECYCLING,
- THE REUSE OF TREATED WASTE WATER,
- GROUNDWATER RECHARGE,
- THE DESALINATION OF SEA WATER,
- RESEARCH ON LOW-CONSUMPTION USES...

... MUST BECOME PRIORITIES.



A NEW APPROACH TO WATER USES IN AGRICULTURE SHOULD BE LOOKED FOR.





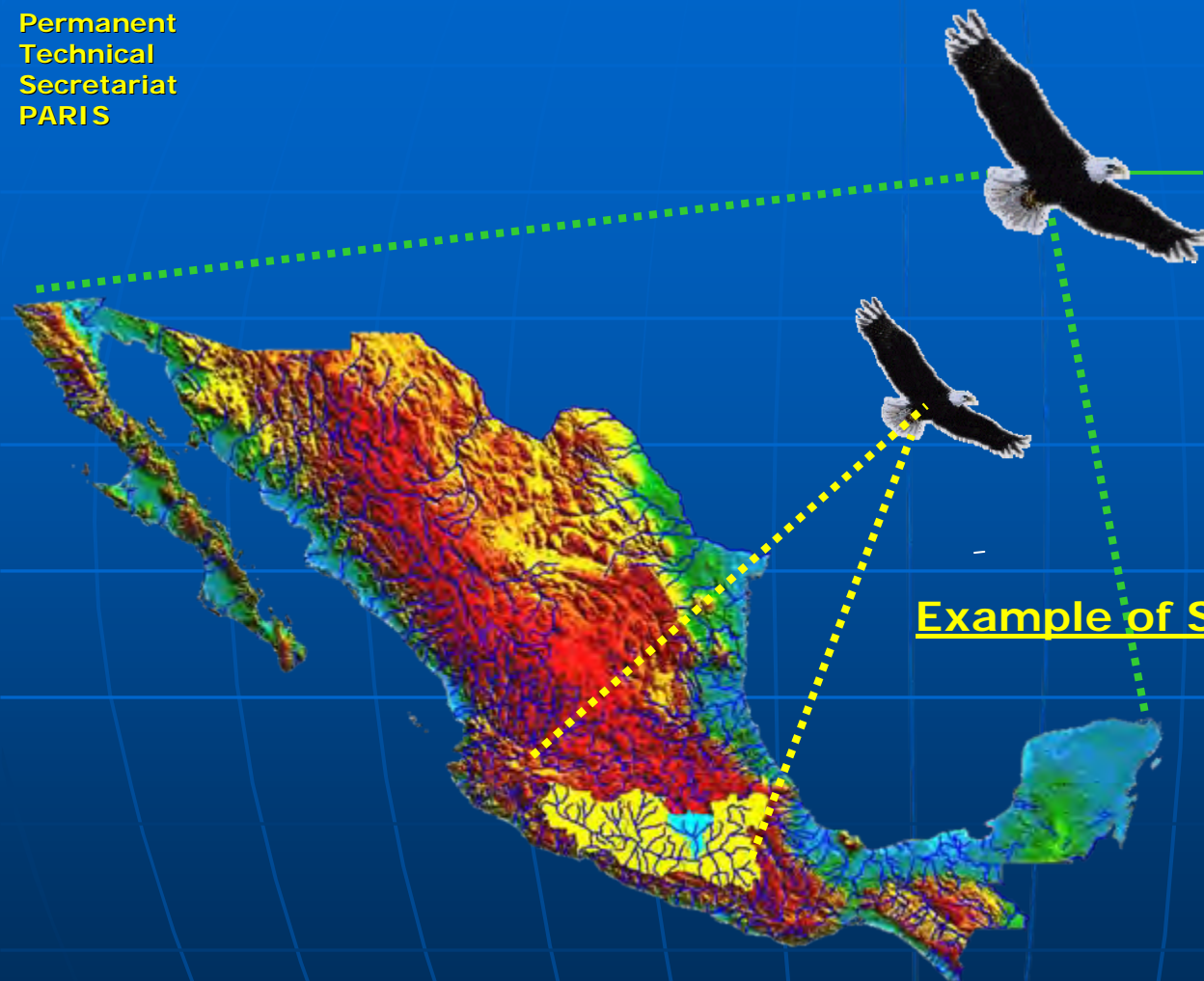
water resources management should be organized:



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Example of SINA and SIRA in Mexico



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.



If we cannot measure, we cannot manage!!



DIALOGUE



INFORMATION



Resources

- Surface water (Rivers –Lakes)
- Groundwater
- Wetlands



Uses



Seasonal variations



Geographic locations



Economical informations

- Quantity
- Quality
- Ecology

- Requirements
- Abstractions
- Discharges
 - Flowrates
 - Pollution

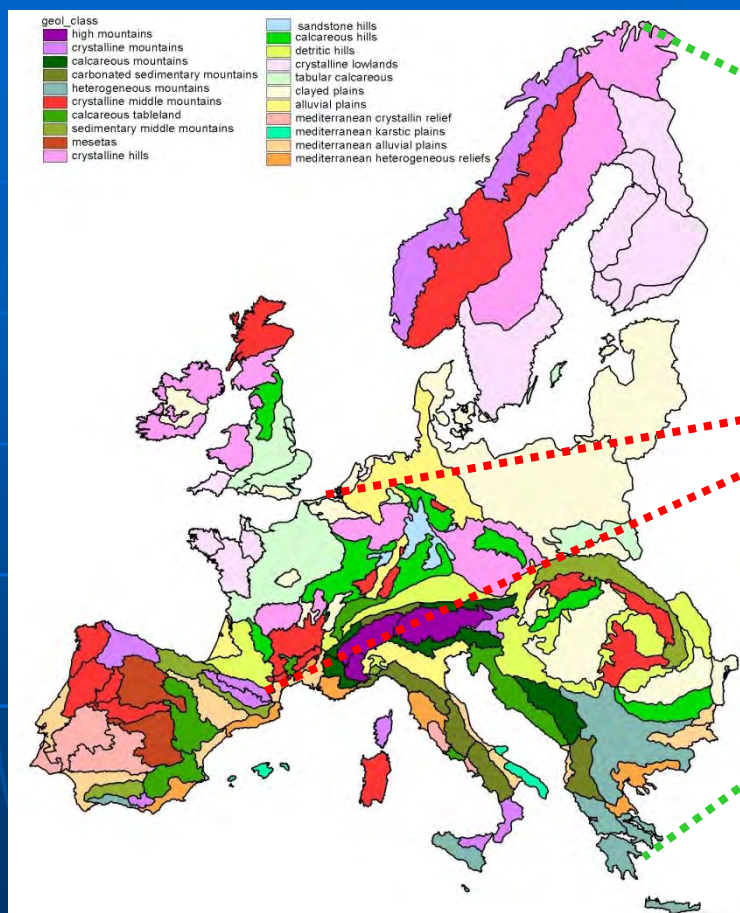
- Frequencies

- G.I.S

- Cost, budget...



Integrated information and monitoring systems



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

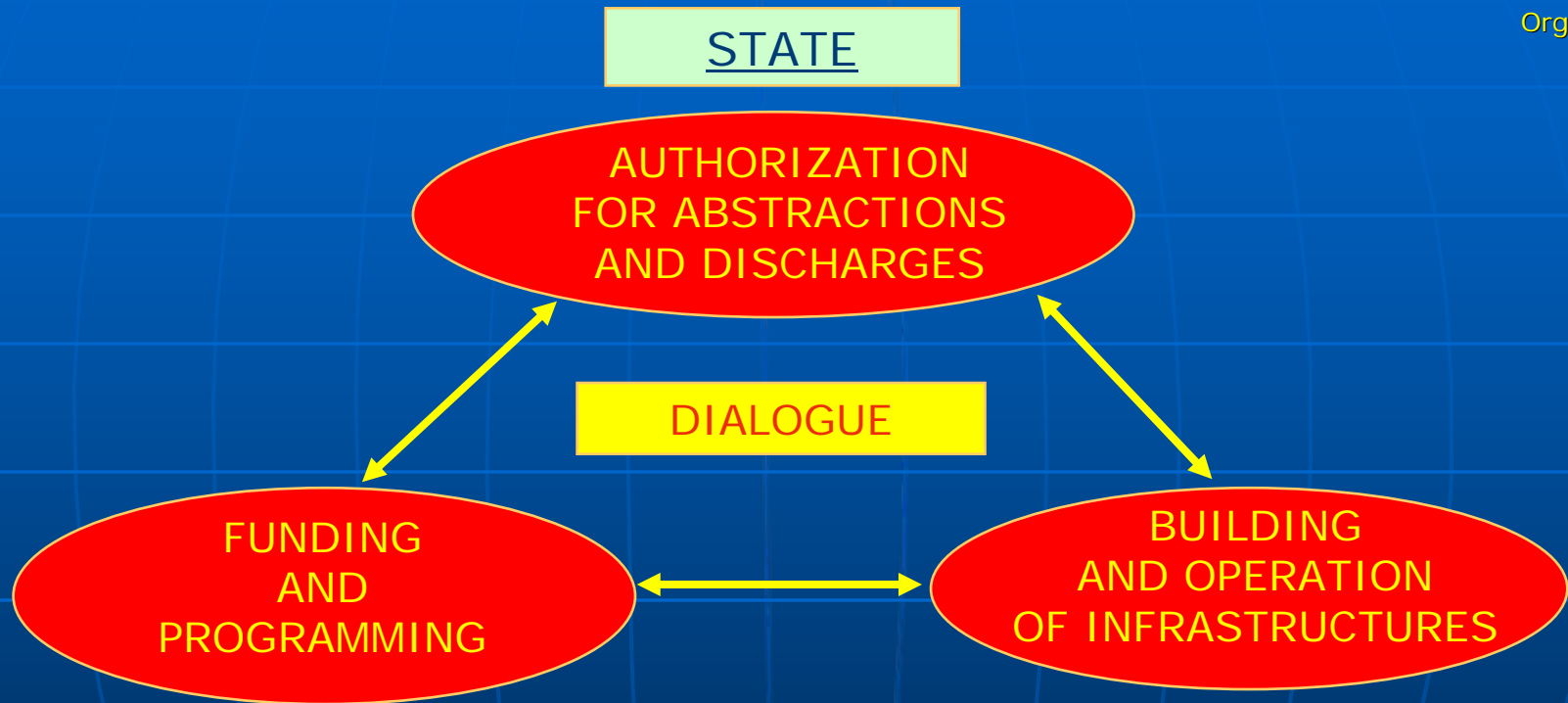


MORE AND MORE STAKEHOLDERS ARE INVOLVED IN WATER MANAGEMENT



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- Water Agencies
- River Basin Committees

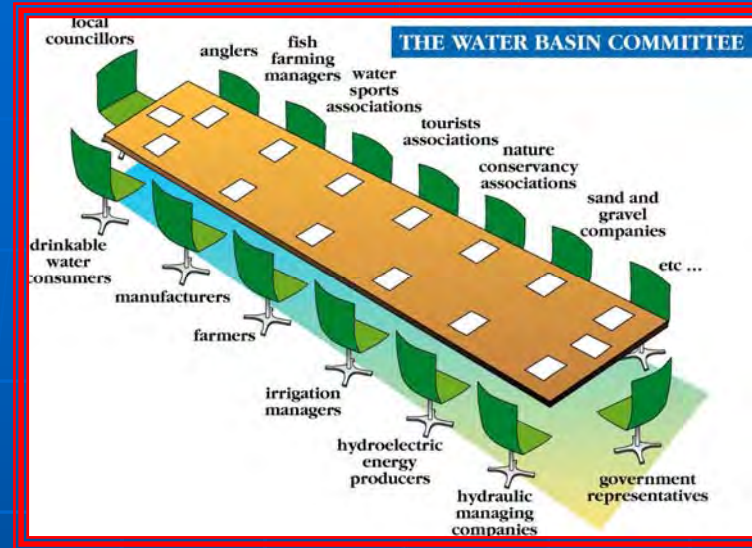
- State administrations
- Municipalities
- Industrialists
- Farmers
- Developers



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2) 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, especially, in Basin Councils or Committees.

- Information, awareness and education of populations or users and of their representatives are essential,

TO SOLVE POSSIBLE CONFLICTS ON WATER USE:
"DIALOGUE IS THE BEGINNING OF WISDOM".



Conflicts

requirements collected
from each point of view



Designing a program
through **dialogue**



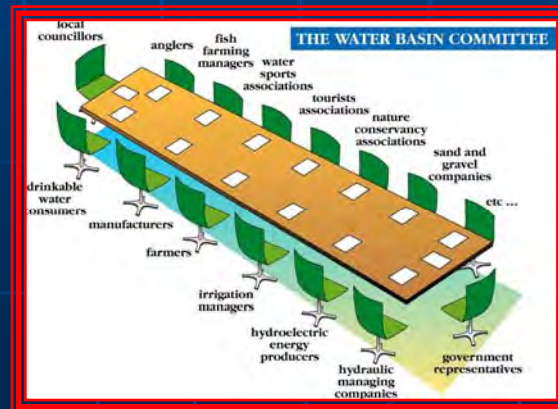
Reaching **agreement**
with an ambitious program



- **INBO RECOMMENDS THAT THIS PARTICIPATION BE ORGANIZED IN BASIN COMMITTEES OR COUNCILS.**

IN PARTICULAR, THEY SHOULD BE ASSOCIATED TO:

- THE DEFINITION OF LONG-TERM OBJECTIVES,
- **THE PREPARATION OF MANAGEMENT PLANS OR MASTER PLANS,**
- THE SELECTION OF DEVELOPMENT AND EQUIPMENT PRIORITIES,
- **THE JOINT IMPLEMENTATION OF PROGRAMMES OF MEASURES AND MULTIYEAR PRIORITY INVESTMENT PROGRAMMES,**
- THE ESTABLISHMENT OF FINANCING PRINCIPLES AND THE CALCULATION OF WATER TAXES THAT CONCERN THEM.





A blue textured passport cover with gold lettering and a logo. The text "PASSEPORT BLEU" is at the top, and "BASSIN DES GRANDS LACS SAINT-LAURENT - GOLFE" is at the bottom. The logo in the center is a gold circular emblem featuring a stylized fish or aquatic creature. The passport is placed on a light-colored surface next to a document with some visible text like "PB" and "BA".

PASSEPORT BLEU

**BASSIN DES GRANDS LACS
- ST LAURENT - GOLFE**

NOM
JOST

Prénoms
RAYMOND

Date de naissance
14 05 1943

Sexe
M

Date d'expiration
21 05 2012

Lieu de naissance
SIE - RIB

Signature du titulaire
[Signature]

Photo
[Portrait photo of Raymond Jost]

Autres données utiles
ILL, BASSIN DU RHIN

Taux
1,83

Visas
PR << STE << RIB << << JOST << RAYMOND << << << <<

BASSIN DE RÉSIDENCE

Plouffe Saint-Laurent, bassin
Grands Lacs - Saint Laurent
- Golfe, ville de Montréal,
Amérique du Nord

DROITS ET RESPONSABILITÉS

Tout bassinois et bassinole porteur de ce passeport bleu a des droits et des devoirs envers son bassin et son milieu de vie.

Afin de pouvoir jouir de cette ressource en qualité et en quantité suffisante pour répondre à des besoins éternels de base, pour produire et participer au développement social et économique, le bassin(sic) doit la protéger, la préserver, l'économiser et la partager dans le respect des traditions, des usages et des traités qui régissent la gestion intégrée du bassin et du territoire.

VISAS

FLEUVE DANUBE VISA

BASSIN DU FLEUVE CONGO VISA

BASSIN GRANDS LACS SAINT-LAURENT VISA

FLEUVE MEKONG VISA





water resources management should be organized:



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2000

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

2025

Baseline scenario: projection for 2025



Baseline scenario:

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

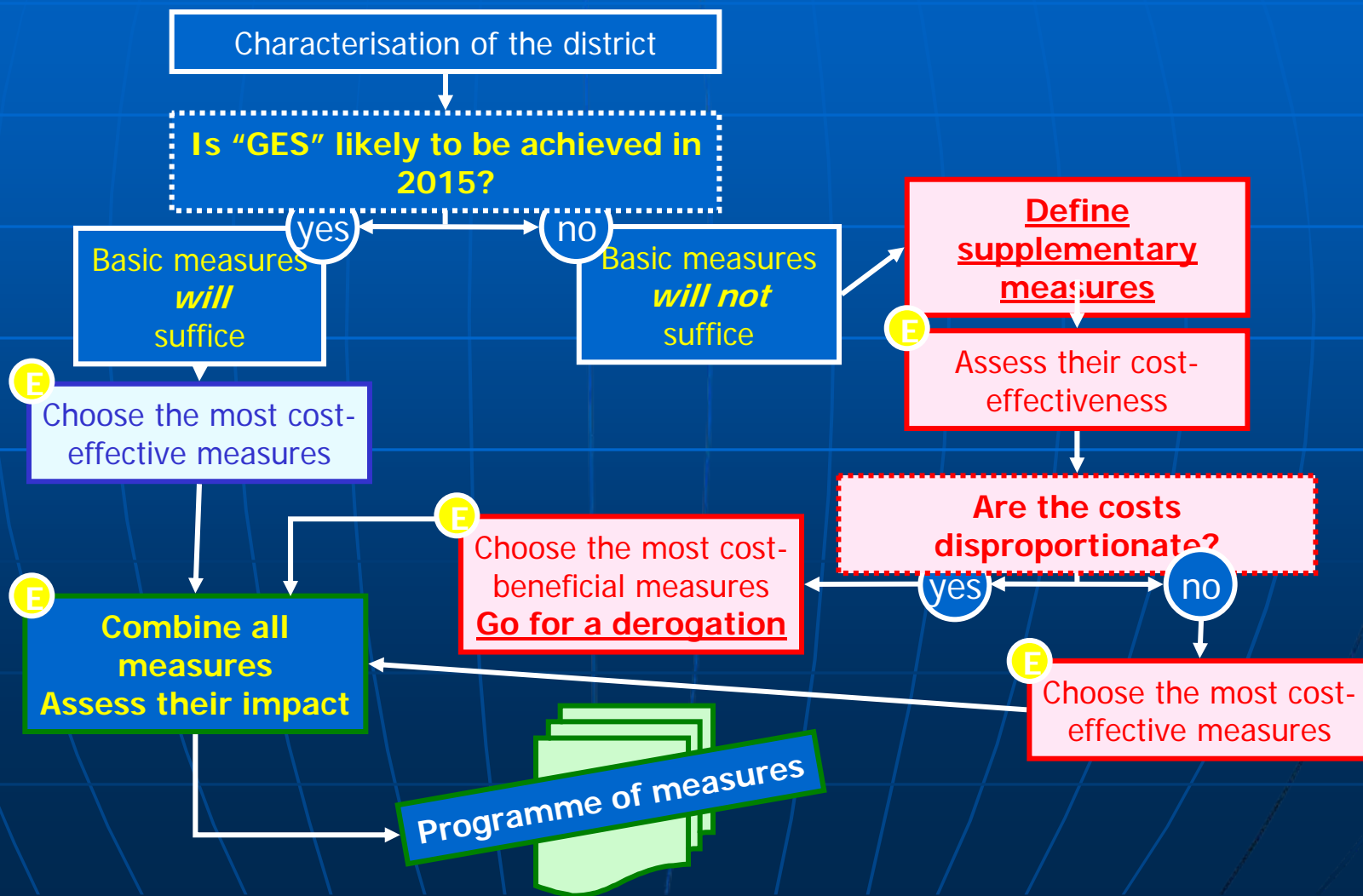
4) based on management plans or master plans
that define the medium and long-term objectives to be achieved;



water resources management should be organized:



5) through the development of Programs of Measures and multiyear priority investments;



6) with the mobilization of specific financial resources,

THE « POLLUTER - USER – PAYS » PRINCIPLE

Abstraction
taxes

Pollution
taxes

The Water Agency's Budget
adopted by the Board of Directors
with approval of the Basin Committee

10 %

Studies & Research

Operation

Measurement networks

90 %

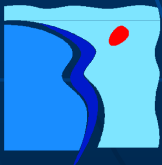
Aid = 6-year Program

Big developers

Local authorities

Farmers

Industrialists





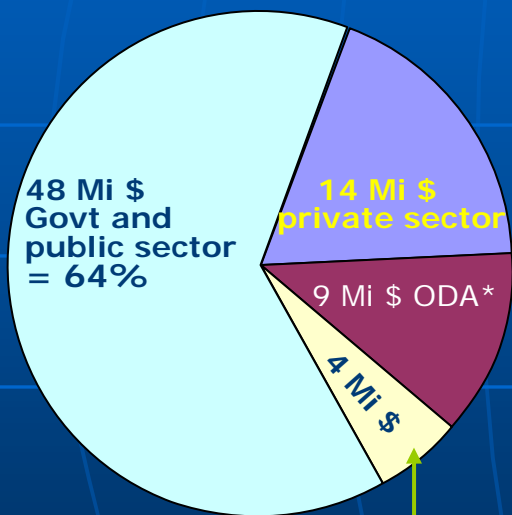
**IF WE ARE NOT ABLE TO MOBILIZE ENOUGH MONEY,
WE SHALL NOT HAVE THE FRESH WATER WE NEED!**



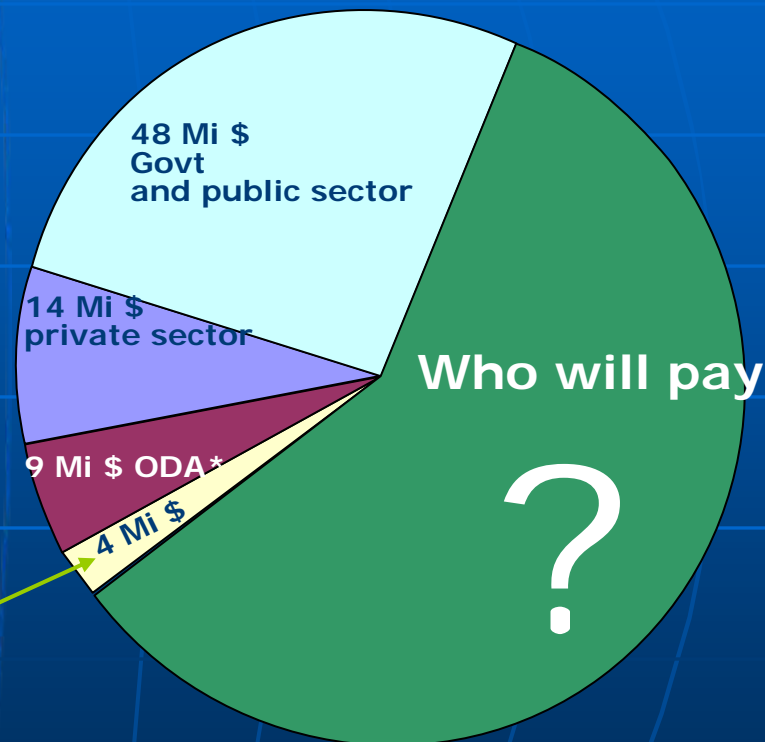
Who will pay ?

FOR THE NEXT 25 YEARS

NOW



International firms



75 milliards \$ / year

180 milliards \$ / year

* Official Development Assistance



FINANCING WATER POLICY:



The international official aid only represents 10% of the investments made worldwide.



Public budgets cannot bear alone all the investment and operating costs.



The users must contribute according to the "polluter-pays" principle and the "users-pay" systems.

= WATER MUST PAY FOR WATER



FINANCING WATER POLICY :



EQUALIZATION OF FINANCIAL EFFORTS:

- Territorial equalization:
in the same geographic area or basin
- Sectoral equalization:
between public services – drinking water – electricity – sanitation – solid wastes ...
- Equalization between users:
rich, poor, big consumers / polluters,
small consumers / polluters
- Equalization between functions:
between upstream and downstream areas,
between commercial services and administrative functions



water resources management should be organized:



6) with the mobilization of specific financial resources,

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

ADMINISTRATIVE TAXES: paid to the general 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

THE PRICING 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.



IN CONCLUSION:
BUSINESS AS USUAL CANNOT CONTINUE!

- integrated and sound water resources management is more than ever a priority when this scarce resource is already a limiting factor for sustainable development in many countries in the world.

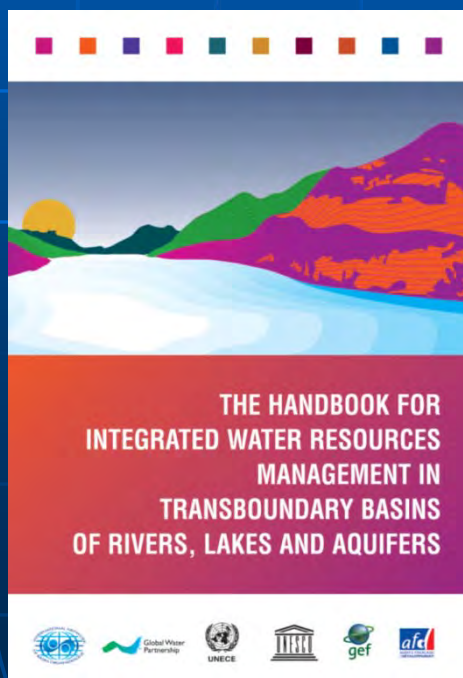
**MOBILIZATION IS ESSENTIAL
FOR HUMANITY TO WIN
THE WATER BATTLE
AND PREPARE THE FUTURE!**



Global Water
Partnership



**The International Network of Basin Organizations (INBO),
The Global Water Partnership (GWP),
The French Development Agency (AFD),
The GEF, UNESCO and UNECE,**





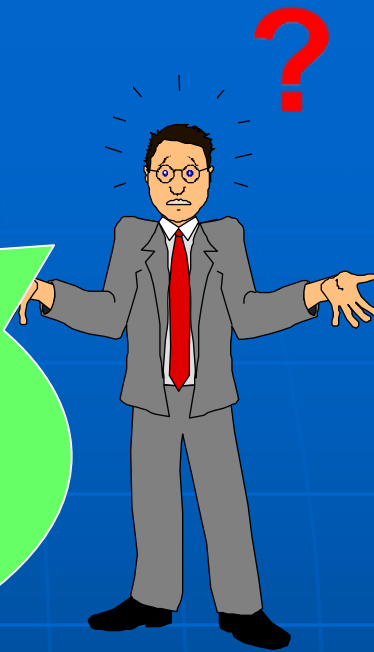
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Investing in IWRM, it pays back!





**TODAY, IT IS USELESS TO
"REINVENT THE WHEEL"**

!

**AS ALL EFFECTIVE TOOLS ARE AVAILABLE TO MOVE FORWARD FAST,
IF THERE IS A POLITICAL WILL TO DECIDE TO DO SO!**

**LET'S GET MOBILIZED !
YES WE CAN.....**

A high-speed photograph of four hands, two from the top and two from the bottom, holding a circular splash of water. The water is captured in mid-air, forming a ring around the text. The hands are of different skin tones, and the water is clear and dynamic.

TOGETHER WE MAKE WATER A GLOBAL PRIORITY

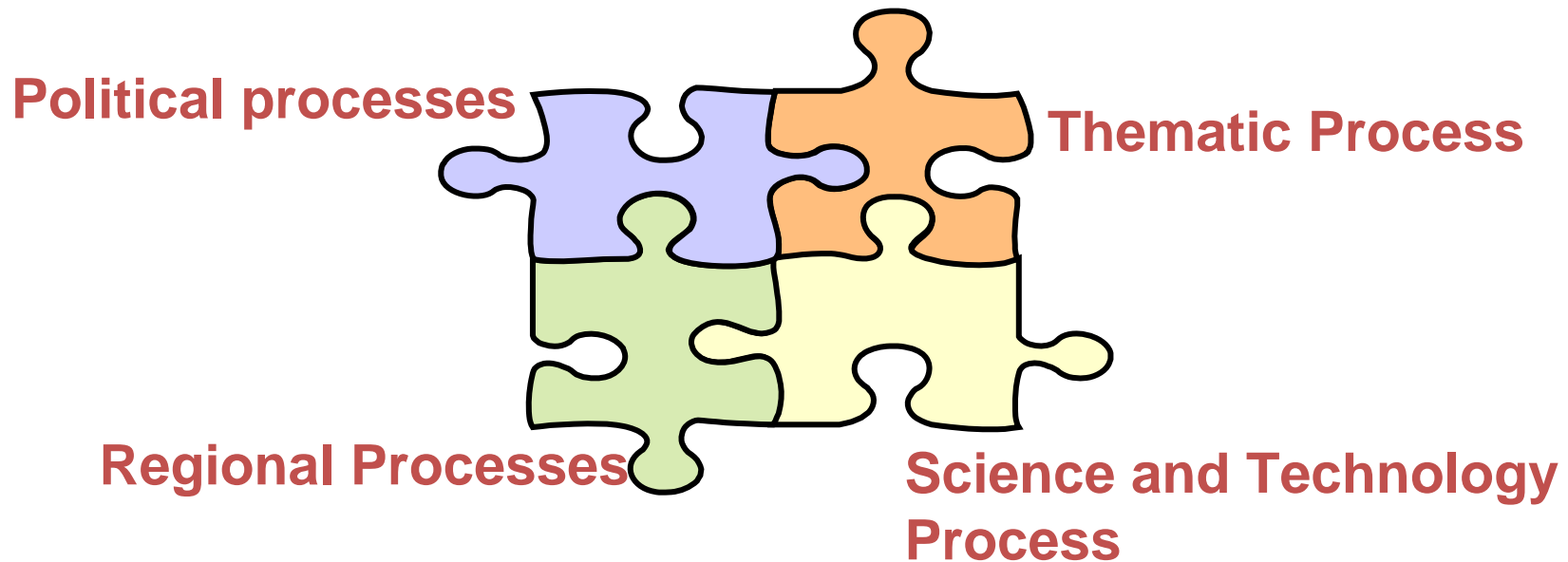


**THE 7th DAEGU/GYEONGBUK[®]
WORLD WATER FORUM**

**DAEGU & GYEONGBUK, KOREA
12-17 APRIL 2015**



PROCESSES TOWARDS WORLD WATER FORUM 2015



Other components:

Citizen and Youth Forum, EXPO and Fair, Water Prizes, Side Events

The Thematic Framework Development for WWF 2015

Action Goals	Topics	Selected European topics
1. A water-safe world for all	1.1 Enough water for all 1.2 Integrated sanitation services for all 1.3 Adapting to Change: Managing risk and uncertainty for resilience 1.4 Infrastructure for sustainable water services	To be decided
2. Water for Development and Prosperity	2.1 Water for Food 2.2 Water for Energy 2.3 Water and Cities 2.4 Green Growth, water stewardship and industry	
3. Water for Harmony between Humans and Nature	3.1 Smart implementation of IWRM 3.2 Managing and restoring ecosystems for water services and bio-diversity 3.3 Ensuring water quality from ridge to reef	

The Thematic Framework Development cont'd

Action Tools	Topics	European mechanisms
4. Implementation mechanisms	4.1 Effective governance, enhanced political decisions, stakeholder participation and technical information 4.2 Cooperation for reducing conflict and improving transboundary water management 4.3 Water cultures, justice and equity 4.4 Economics and Financing for better choices and more and wiser investments 4.5 Enhancing education and capacity building	To be decided

THANK YOU FOR YOUR ATTENTION!



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Réseau International des Organismes de Bassin
International Network of Basin Organizations
Red Internacional de Organismos de Cuenca



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INBO initiatives are open
to your participation :
your inputs are welcome !

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***For developing and strengthening
basin organizations over the world***