





topic 3.1: "Basin Management and Transboundary Cooperation".









International Network
Of Basin Organizations

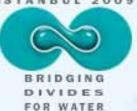
What are the success and failures stories of hydro solidarity and IWRM at basin level?



How can transboundary water resources be managed more sustainably by all the riparian countries What are the tools to be used for better basin management and transboundary cooperation over surface and ground

5th WORLD WATER. CONCERNED?

ISTANBUL 2009



Water?
W/WF5 - Topic 3.1

4 guestions were selected:









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











Implementation of the UN Convention

<u>for the international water courses management</u> <u>in Europe – HELSINKY 1992</u>

is also a major milestone for promoting the principles of good governance







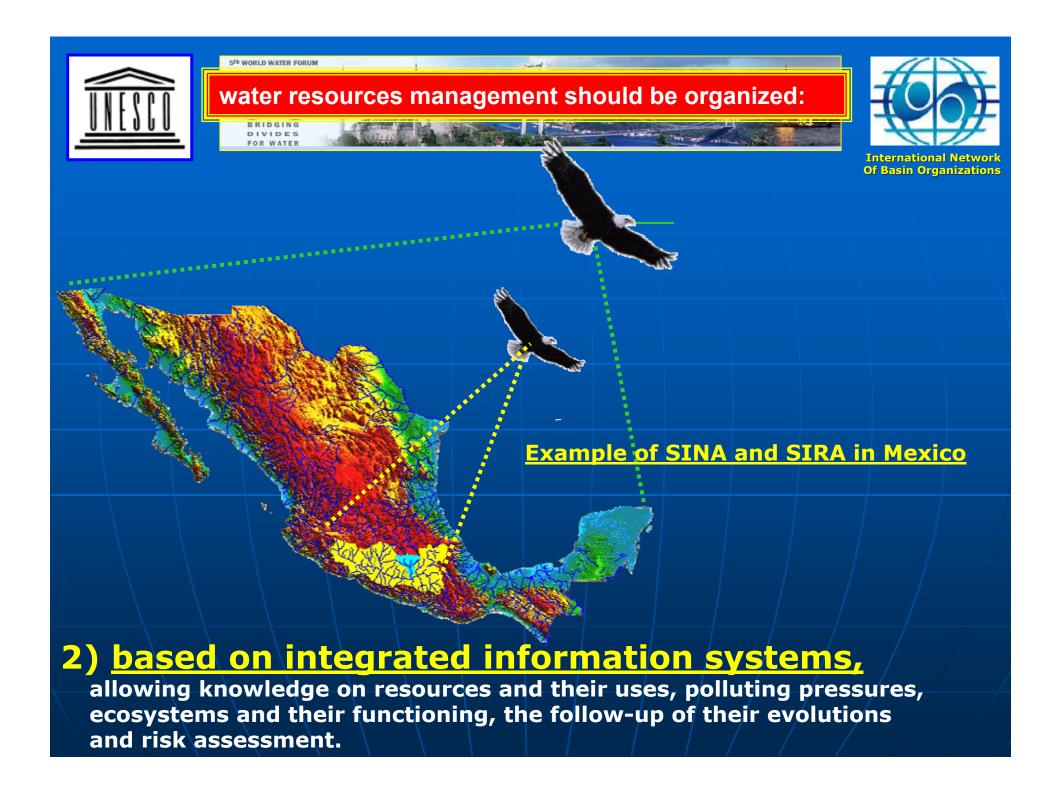


water resources management should be organized:

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



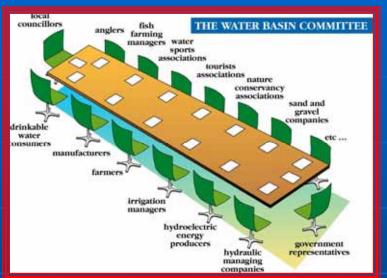
River basins are natural units, where water runs, on the ground and in sub-soil











3) 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,

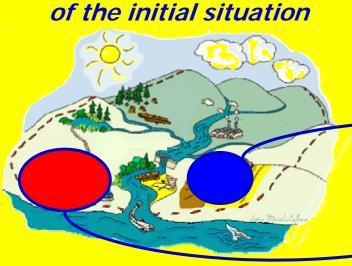


water resources management should be organized:



FOR WATER 2004

Description

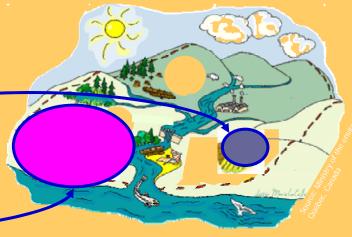


Focus on economic aspects:

- estimate the economic "weight" of water uses and services
- assess the level of recovery of costs of water services

20.0

Baseline scenario: projection for 2015

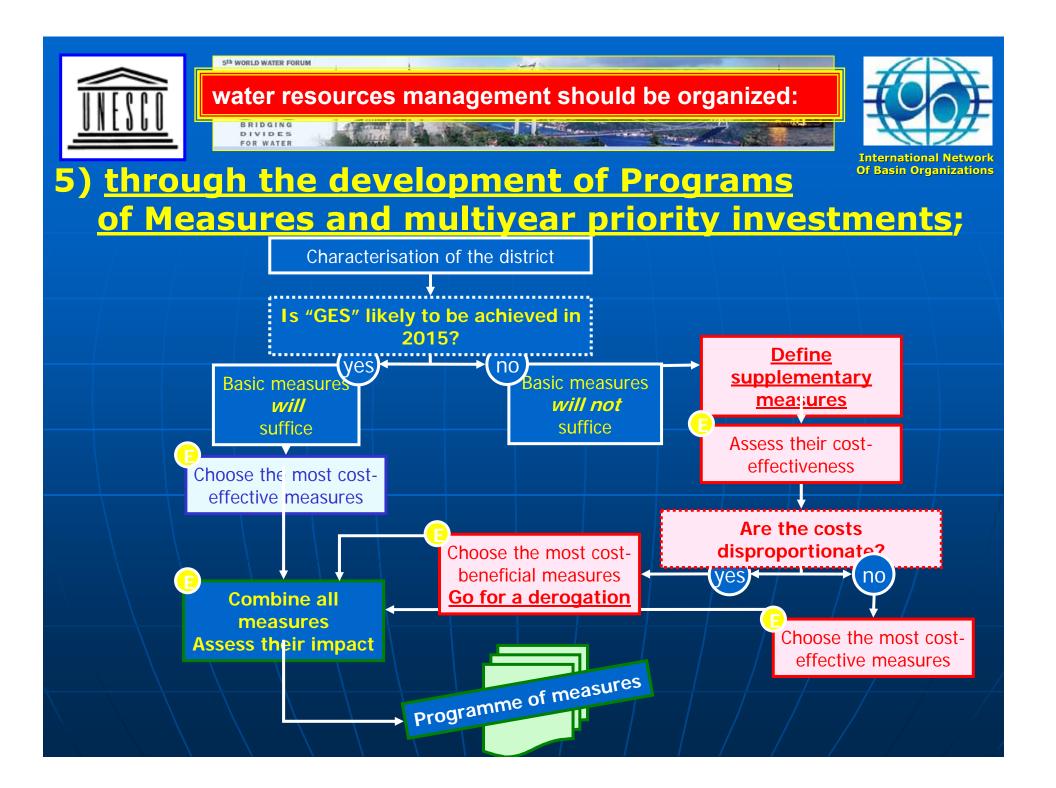


Baseline scenario:

- 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;









6) with the mobilization of specific financial resources,

VARIOUS COMPLEMENTARY SYSTEMS FOR COST RECOVERY

- 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.



DEFINING ROLES AND RESPONSIBILITIES OF EACH:





• 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,











Conflicts

requirements collected from each point of view



Designing a program through dialogue

Reaching **agreement** with an ambitious program





5th WORLD WATER FORUM

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



FOR WATER

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

Heavily modified water bodies (HMWB): human activity carried out makes it impossible to reach the goal without disproportionate costs (change activity...)

⇒ no link with pollution

sea

District =

river basins + associated groundwaters and coastal waters







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



ASSSESSING WATER QUALITY:

In Europe,



50,000 "WATER BODIES" have been identified:

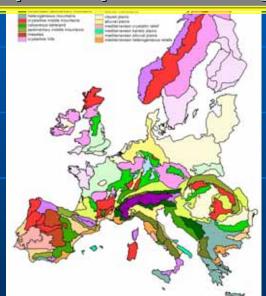
• River WB = 27 455

• Lake WB = 10 060

• Groundwater WB = 7719

• HMWB/AWB = 5783

European Hydro – eco-regions



> IN FRANCE :

• River WB = 3 522

• Lake WB = 471

• Groundwater WB = 539

• HMWB/AWB = 912

• Good Status = 984

• At Risk = 941

THE DEFINITION
OF COMMON FRAMES
OF REFERENCES.







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





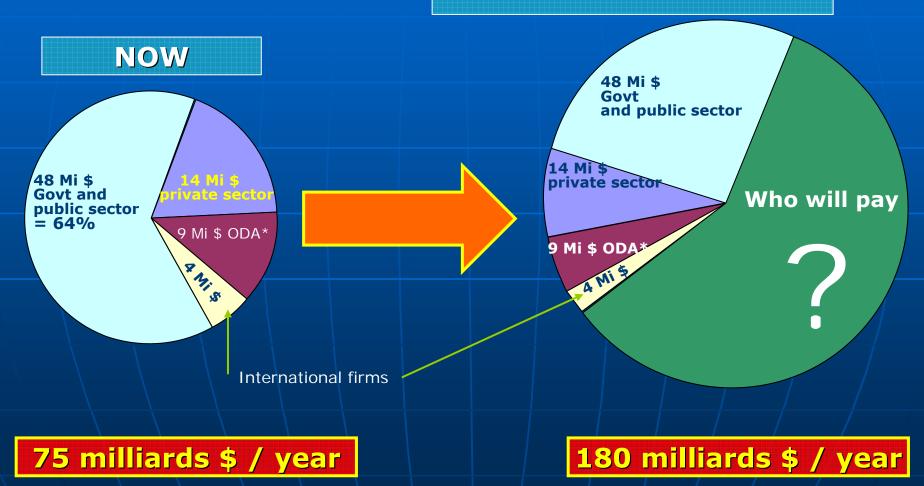
IF WE ARE NOT ABLE TO MOBILIZE ENOUGH MONEY, WE SHALL NOT HAVE THE FRESH WATER WE NEED!



International Network
Of Basin Organizations

Who will pay?

FOR THE NEXT 25 YEARS



* 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







International Network Of Basin Organizations

Abstraction taxes

THE « POLLUTER - USER - PAYS » PRINCIPLE

Pollution taxes

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

10 %

90 %

Studies & Research

Operation

Measurement networks

Aid = 5-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!







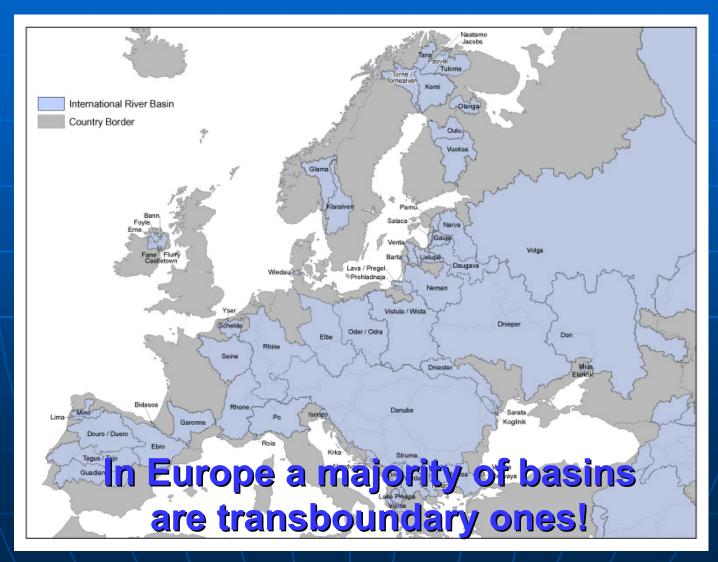
TWO HUNDRED AND SEVENTY SIX RIVERS OR LAKES AND HUNDREDS OF AQUIFERS ARE TRANSBOUNDARY ONES

Transboundary basins per continent.			Pourcentage du territoire
Afrique	×	<u>59</u>	<u>62</u> %
Asie		57	39 %
Europe		69	54 %
Amerique du Nord	-	<mark>작</mark> ()	35 %
Amerique du Sud	X	38	<u>50 %</u>
TOTAL	-	276	45 %









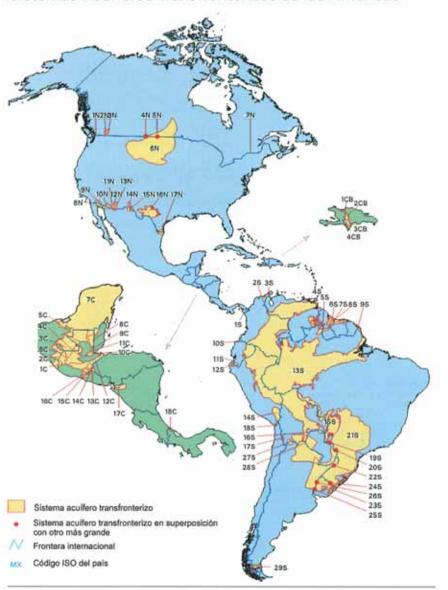




Sistemas Acuíferos Transfronterizos de las Américas













- •The 1992 Convention on the Protection and Use of Transboundary Watercourses and International Lakes (<u>Helsinki Water Convention</u>), originally limited to Europe beyond the UNECE region, has been the basis for adoption of many bilateral and multilateral agreements, most notably the 1994 Convention on the Cooperation for the Protection and Sustainable Use of the Danube River.
- •At the global level, **the 1997 Convention** on the Non-navigational Uses of International Watercourses enables inter-state cooperation on international watercourses has not been ratified yet, but its core principles are already part of many international customary agreements.
- •The United Nations International Law Commission has prepared a set of **articles related to the use of shared aquifers** which was adopted during the last session of the UN General Assembly.
- The European Water Framework Directive is still implemented by the 27 EU Members States and some neighbor Countries and fixes as a common objective before 2015 the good ecological statute of water and ecosystems in all the concerned basins including all the transboundary ones.







As regards large transboundary rivers, lakes or aquifers cooperation agreements should be signed by riparian countries and management plans designed at the level of the whole basin, especially in

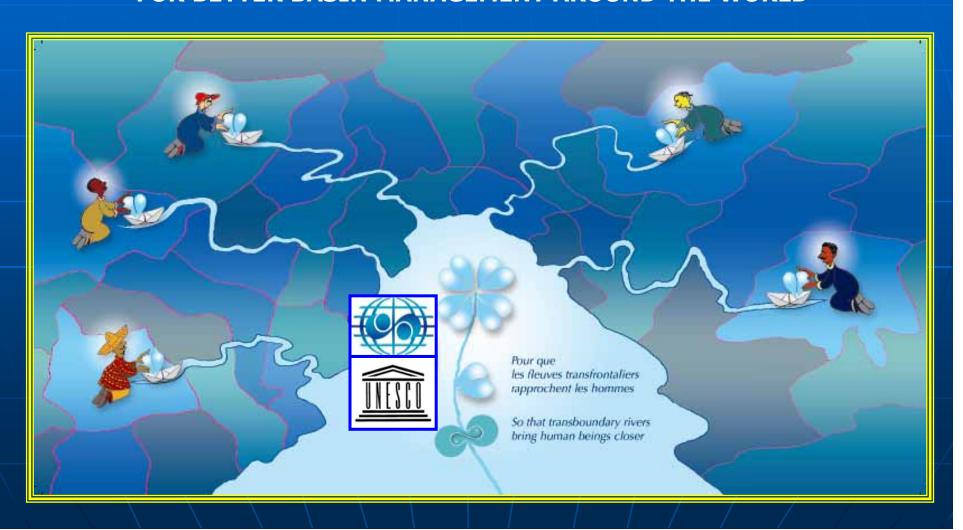
<u>International or transboundary Commissions,</u> <u>Authorities or Organizations.</u>







NOW WE MAY GO AHEAD FOR BETTER BASIN MANAGEMENT AROUND THE WORLD



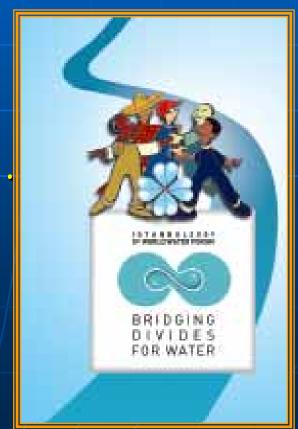






Basin Management and Transboundary cooperation

- The key of success is a strong political support...
- Yes, we can!
- Just do it!!!!!



MERCI DE VOTRE ATTENTION! THANK YOU FOR YOUR ATTENTION!

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

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Vízgyűjtő Szervezetek Nemzetközi Hálózata

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