





KEY NOTE of <u>Mr. Jean - François DONZIER</u> General Manager INTERNATIONAL OFFICE FOR WATER

Permanent Technical Secretary

INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS







- 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 before 2025 !



_Climate change consequences







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



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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,



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





Transboundary basins per continent.

X	2002	Percentage Of territory
Africa	59	<u>62</u> %
Asia	57	<u>39 %</u>
Europe	69	<mark>54 %</mark>
America North	<mark>- 나</mark> ()	35 %
America South	38	<mark>50 %</mark>
TOTAL	275	<u> </u>



RIVER BASIN MANAGEMENT EXPERIENCED A QUICK DEVELOPMENT IN MANY COUNTRIES



NTEGRATED WATER RESOURCE MANAGEMENT

OVERALL MEETING OF RATIONAL AND LEGITIMATE DEMANDS:

	Agriculture	Electricity
	Domestic uses	Transports
	Industry	Leisure-Turism
	Fish farming	Fishing
-	WASTEWATER TREATMENT	AND RECYCLING,
	CONSERVATION OF ECOSY	STEMS:
	rivers, lakes, wetlands, aqu	uifers, costal areas,
	RISK PREVENTION :	
	Erosion	
	Drought	
	Floods	







MOBILIZING NEW RESOURCES SHOULD BE PLANNED IN MANY REGIONS WHEN THEY ARE SOCIALLY ACCEPTABLE, ECOLOGICALLY FRIEND AND ECONOMICALLY REASONABLE.







INTEGRATED WATER RESOURCE **MANAGEMENT:**

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DEFINING ROLES AND RESPONSIBILITIES OF EACH: There is never a sole and unique manager!

Multilateral organizations

International commissions

Central or federal government

Local authorities

- states (Federation)
- municipalities
 - villages

Large public regional planners



community Water users :

- individuals
- **Civil Society :** enterprises
 - researchers
 - NGOs



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water resources management should be organized:



Conflicts requirements collected from each point of view

Designing a program through dialogue

> Reaching agreement with an ambitious program

....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.



water resources management should be organized:



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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



Baseline scenario: projection for 2015



Baseline scenario:

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

... based on Basin Management Plans

that define the medium and long-term objectives to be achieved;



THE COSTS TO BE FINANCED



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Costs	Definition	Example
Direct costs	Financial expenses	Amortization,
		capital and interests, renewals
	Operating expenses	Wages, electricity,
		Rents, equipment
		maintenance, analyses
Environmental	Costs of damage	Pollution of an aquifer,
çosts	caused to the	destruction of wetlands
	environment by a	
	specific activity	
« Resource » cost	alue of the alternative	Cost of the electricity
	disregarded when	which could have been
	choosing a particular	produced if water had
	activity	been available and not
	(= opportunity costs)	pumped for irrigation
= total co		



FINANCING WATER POLICY:



The international official aid (Mainly Loans) 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



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water resources management should be organized:

VARIOUS COMPLEMENTARY SYSTEMS FOR COST RECOVERY THE 3"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.





FINANCING WATER POLICY :



Organizations

EQUALIZATION OF FINANCIAL EFFORTS:

Territorial equalization: in the same geographic area or basin

<u>Sectoral equalization</u>: 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

3	AN INDUSTR IN ORI	RIAL AND COMMERCIAL MANA	
International Office For Water PARIS-FRAN	WATER SUPPLY	WATER MUST PAY FOR WATE	R" Of Basin Organizations
	SERVICES	EXPENDITURE	INCOME
In	vestment	 Financial amortization Technical depreciation 	- Number of m ³ consumed/user
		- Manpower - Energy	- Price/ m ³
	peration	- Consumable goods/supply - Small equipment for operatio	n
	Taxes	- External services - Local taxes - "Water Agency" charges	- Bonus for decontamination
		- Value-added tax (VAT) - Tax for waterways	

TOTAL EXPENDITURE = Σ CONSUMPTION X PRICE

How to use, share and preserve water resources?

→ Integrated Water Resources Management



of the resources and benefits



Prevent conflicts between uses and nations

Taking into account Climate Change Adaptation



AFD group: +1,5 Bn€ of financing since 2004 for hydropower or multi- purpose installations

- ...With a focus on:
- Rehabilitation (still lagging behind, enormous needs)
- Small and medium hydro projects
- Large multi-purpose regional projects but only with high level safeguards, <u>in co-financing</u> with other MFIs
- ...With a specific involvment:
- in transboundaries basin organizations : Senegal (OMWS), Mekong River Committee, Niger (ABN), etc.
- in HSAP (Hydro Sustainability Assessment Protocol) Mainly through public finance,

but Proparco is also quite active across all continents

-> given the high risk-profile of multi-purposes dams, financing has been relatively classic so far. But public resource is getting scarce...





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The conditions for private sector involvement:

- Clear and transparent attribution mechanism
 with long-term PPA contracts
- An efficient allocation of risks, in particular:
 - Geological risk
 - Risk on hydrology
 - Risk on resources management (allocation between users)
- Recognized financial capacity of the off-taker (often, a public national company with liabilities...) or equivalent guarantee mechanisms
- Access to finance, for investment with a highly capitalistic profile.

OAFD

<u>The role of IFIs to allow private investment :</u>

- **Co-financing**: Sharing the investment should give more comfort to the private sector
- Strong institutional support: supervising the project should give more comfort to the private sector
- Ensuring proper basin-level management of the resources
- Ensuring proper E&S management with equitable benefit sharing mechanism which at the end reduce the risk of having works stopped because of social non-acceptance.
- Providing partial guarantees for the off-take over 20 years
- Providing credit enhancement for bonds issurance by the private sector



Prioritizing large dams projects in the West African region



Many large dam projects are currently in the pipeline in West Africa. However, some of them have been waiting for a very long time, in some cases more than 50 years.

In order to clarify the situation on the status of these projects, <u>ECOWAS</u> <u>Water Unit</u> launched in 2009 the "Dialogue on large water infrastructures in West Africa" for identifying the projects that could have the most significant positive impact on regional integration.

establishment of criteria for identifying the most promising structures
 application of the criteria and proposal of a list of priority works





Prioritizing large dams projects in the West African region



Five axes of criteria were defined with the perspective of regional integration:

- 1) projects should have trans-boundary importance,
- 2) the structure should be managed by several states,
- 3) the dams should contribute to regional food security,
- 4) a capacity to distribute hydro-power to a number of countries should exist
- 5) Minimal environmental and social changes on a trans-boundary scale.



Out of 39 projects studied, 8 dams were selected at the end of the process.

All dams will produce hydropower (a total of about 1000 MW), while half of the structures are multi-purpose dams, also intended for irrigation of about 75 000 ha.





TODAY, IT IS USELESS TO "<u>REINVENT THE WHEEL</u>"



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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.....

MERCI DE VOTRE ATTENTION! THANK YOU FOR YOUR ATTENTION!

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→ Climate change adaptation needs :



