





Special Session

"Data and tools for water management and decision-making"

Wednesday 21st March, 14h30-16h00

Moderator

Mr. Jean - François DONZIER

General Secretary

**THE GLOBAL ALLIANCES FOR WATER AND CLIMATE
INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS**



8th WORLD WATER FORUM | BRASÍLIA-BRASIL, MARCH 18-23, 2018

www.worldwaterforum8.org | secretariat@worldwaterforum8.org

keynote speaker: Mr. Robert Argent,

General Manager Water,
World Water Data Initiative (WWDI),
Australian Bureau of Meteorology,

Panelists:

- Dr. Alcocer Yamanaka, Subdirector General Técnico, National Water Agency of Mexico (CONAGUA), World Presidency of INBO
- Mr. Paul Haener, Water Information System specialist, International Office for Water,
- Mr. Youssef Filali-Meknassi, Programme Specialist, Division of Water Sciences, UNESCO-IHP
- Ms. Sonja Koepfel, Environmental Officer, United Nations Economic Commission for Europe (UNECE)
- Ms. Noosha Tayebi, Water Resources Management Analyst, World Bank
- Mr. Eric Mino, Manager, Euro Mediterranean Information System (EMWIS)
- Mr. Callum Clench, Executive Director, International Water Resources Association (IWRA),



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If we cannot measure, we cannot manage!!



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DIALOGUE



INFORMATION



Resources

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



Uses

- Quantity
- Quality
- Ecology
- Requirements
- Abstractions
- Discharges
 - Flowrates
 - Pollution



Seasonal variations

- Frequencies



Geographic locations

- G.I.S



Economical informations

- Cost, budget...



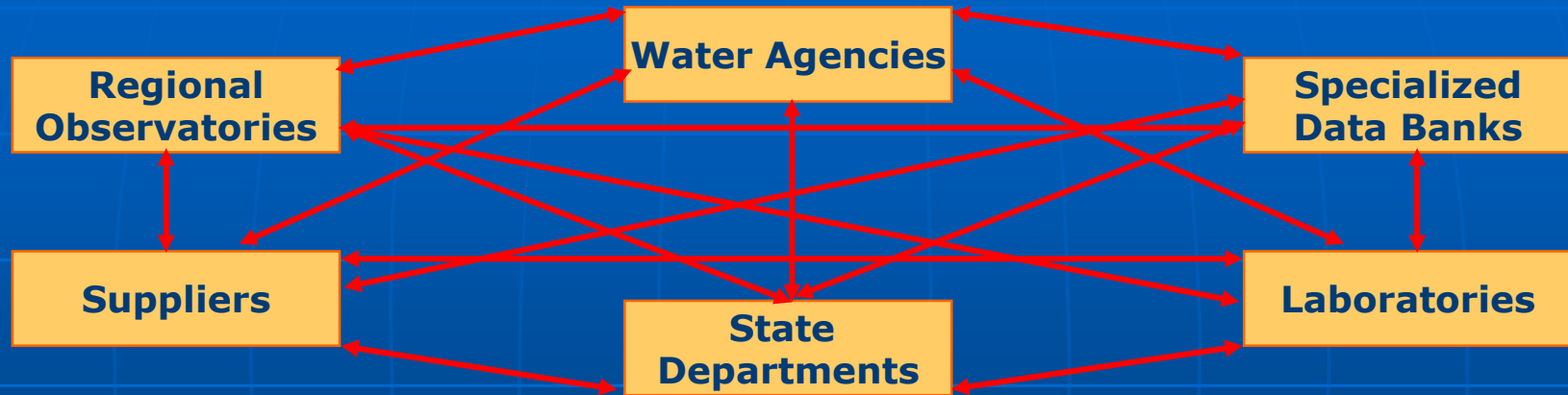
WATER INFORMATION SYSTEMS



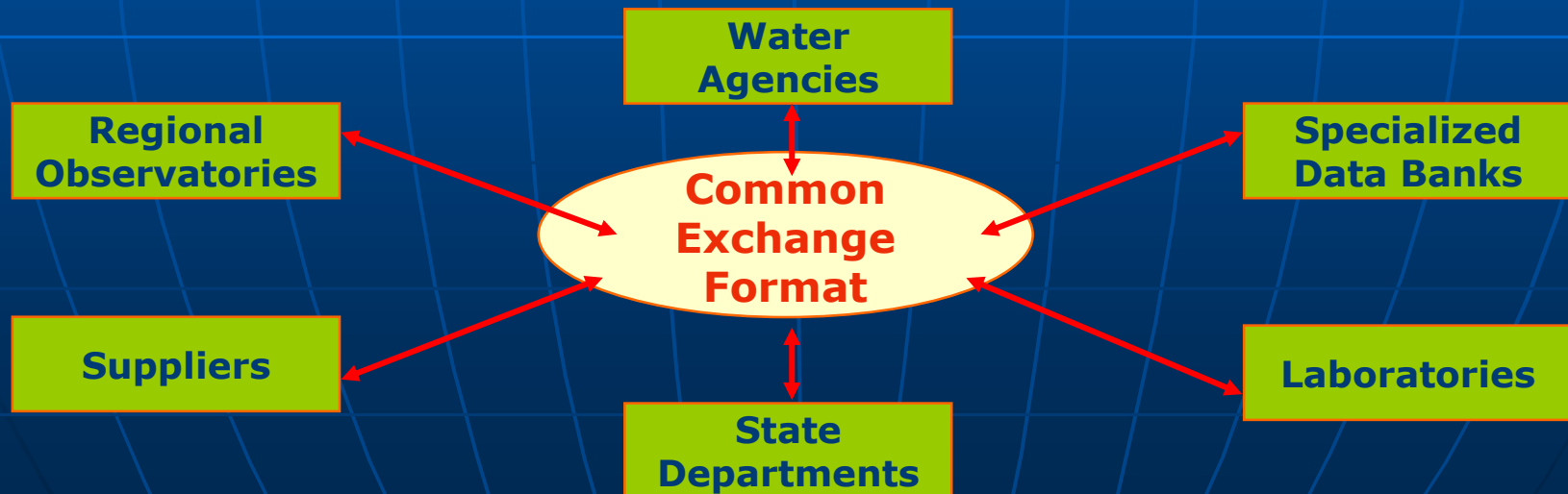
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As many exchange formats as users



A sole exchange format whatever the number of users



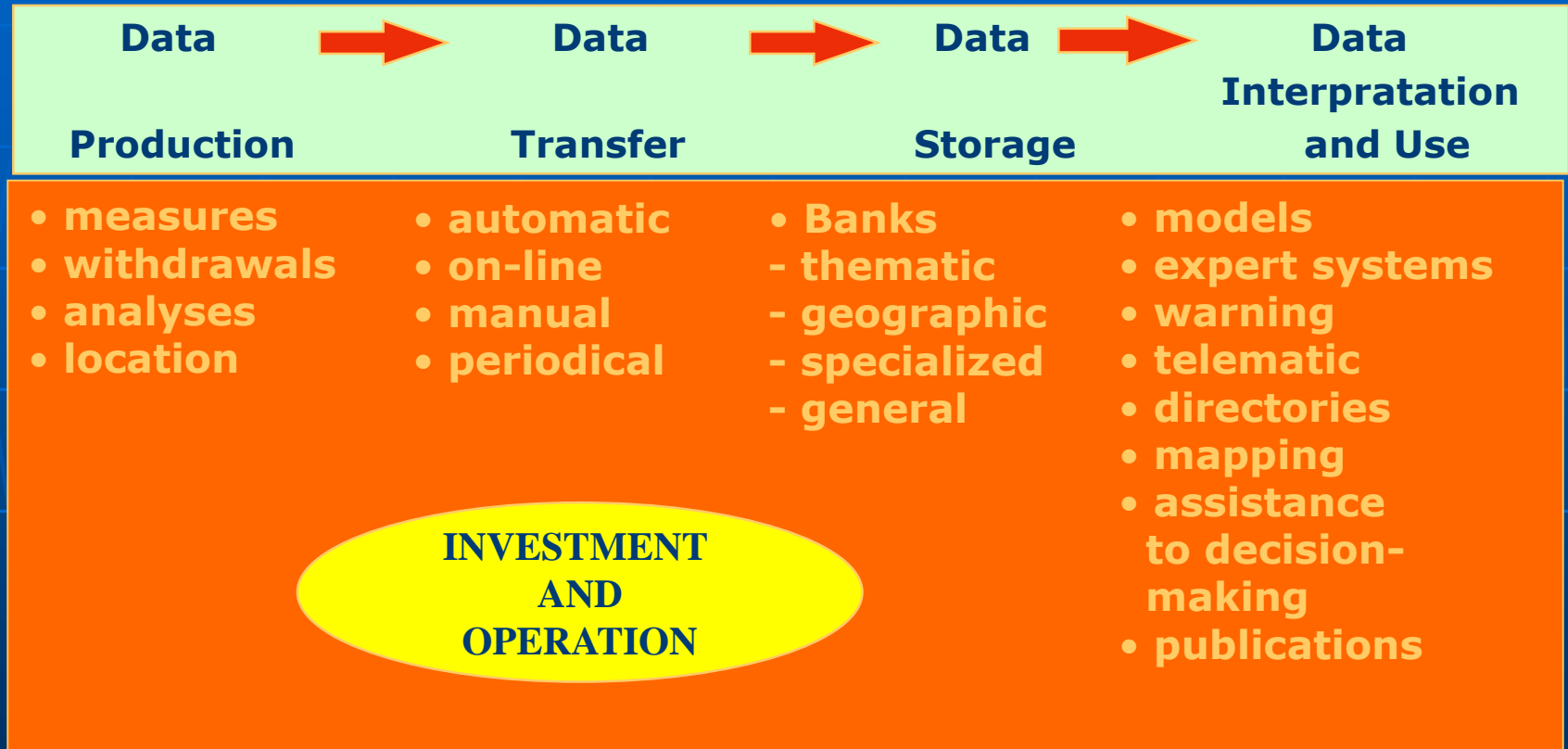


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INFORMATION SYSTEMS ARE COMPLEX



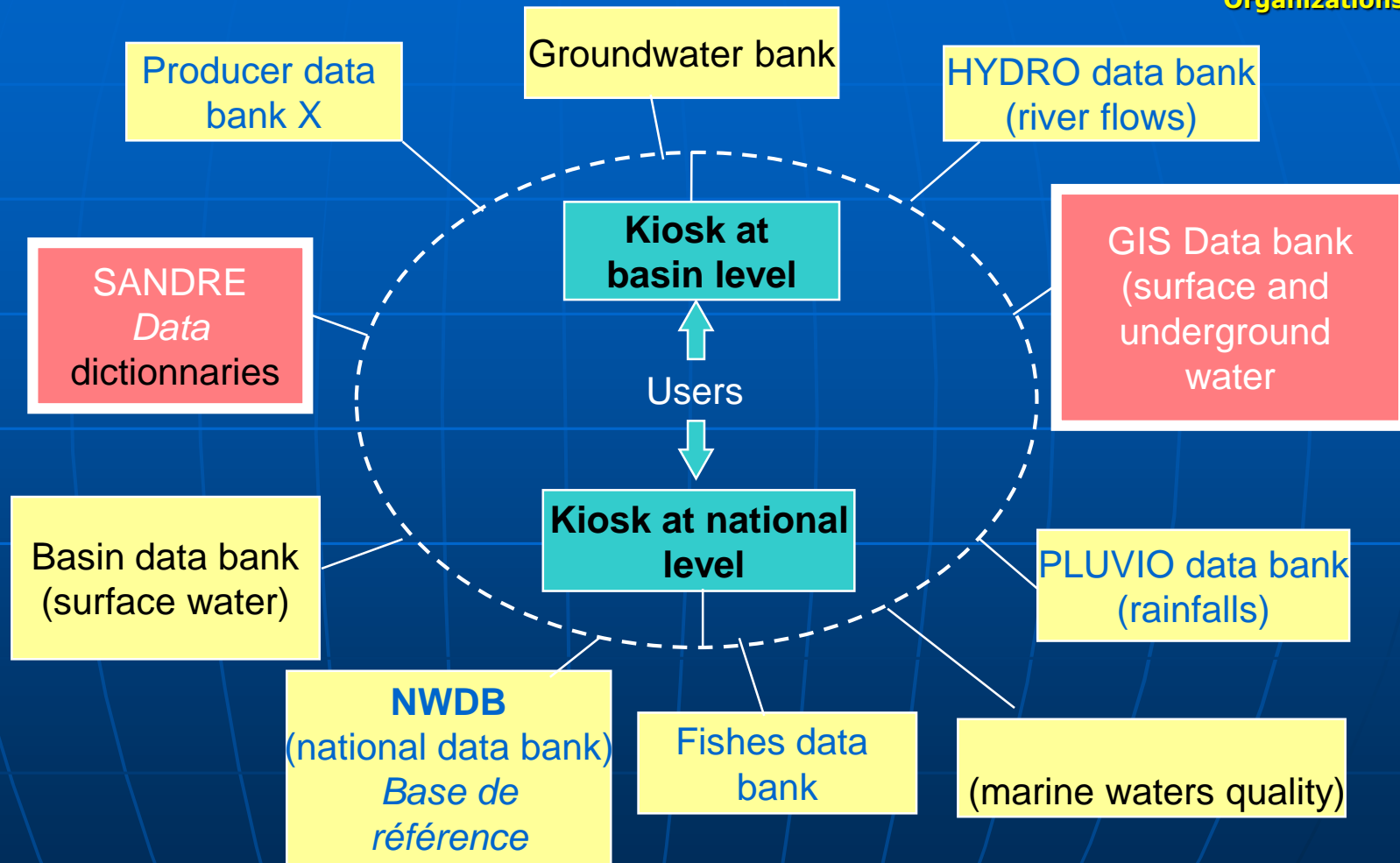
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AUTOMATIC WARNING OR OPERATION SYSTEMS - "SLOW" SYSTEMS FOR STATISTICS



Structure of the information system

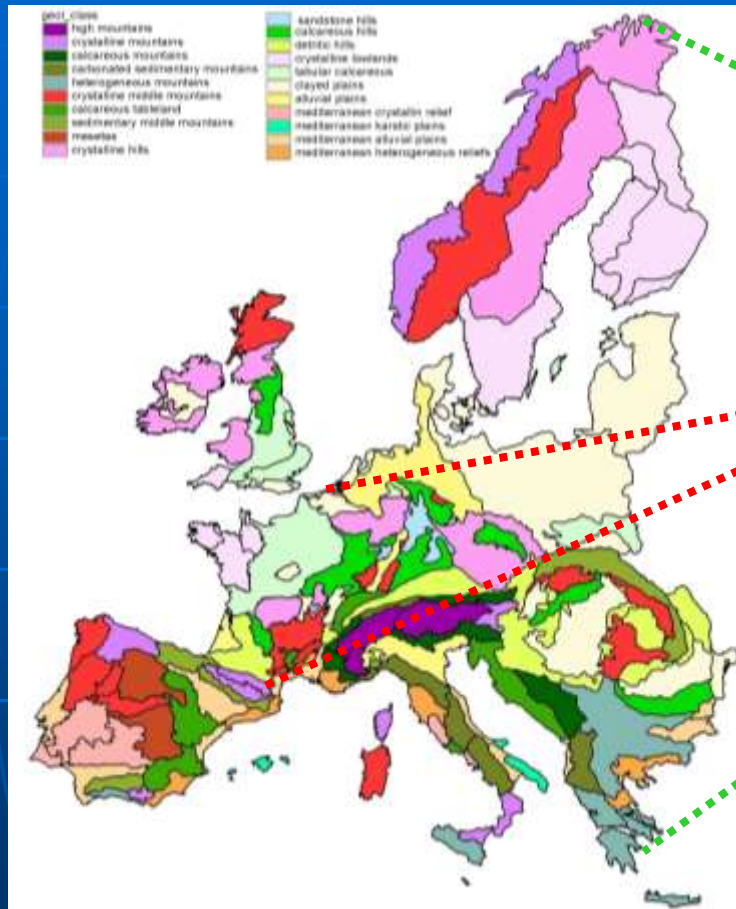




Integrated information and monitoring systems



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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,



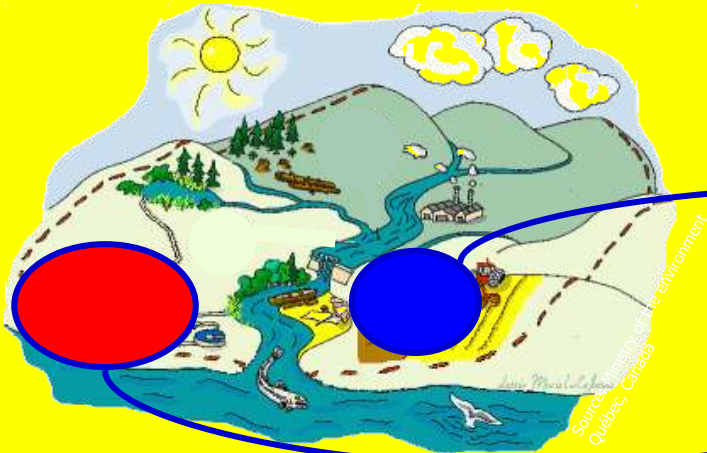
water resources management should be organized:



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Description of the initial situation

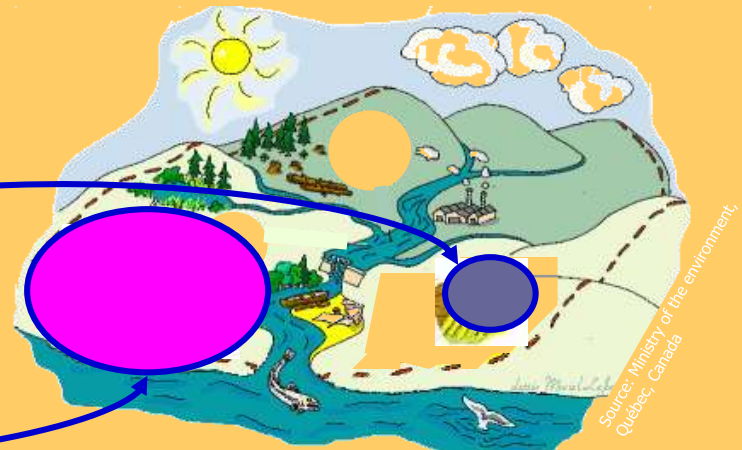


Focus on economic aspects:

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

2025

Baseline scenario: projection for 2025



Baseline scenario:

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

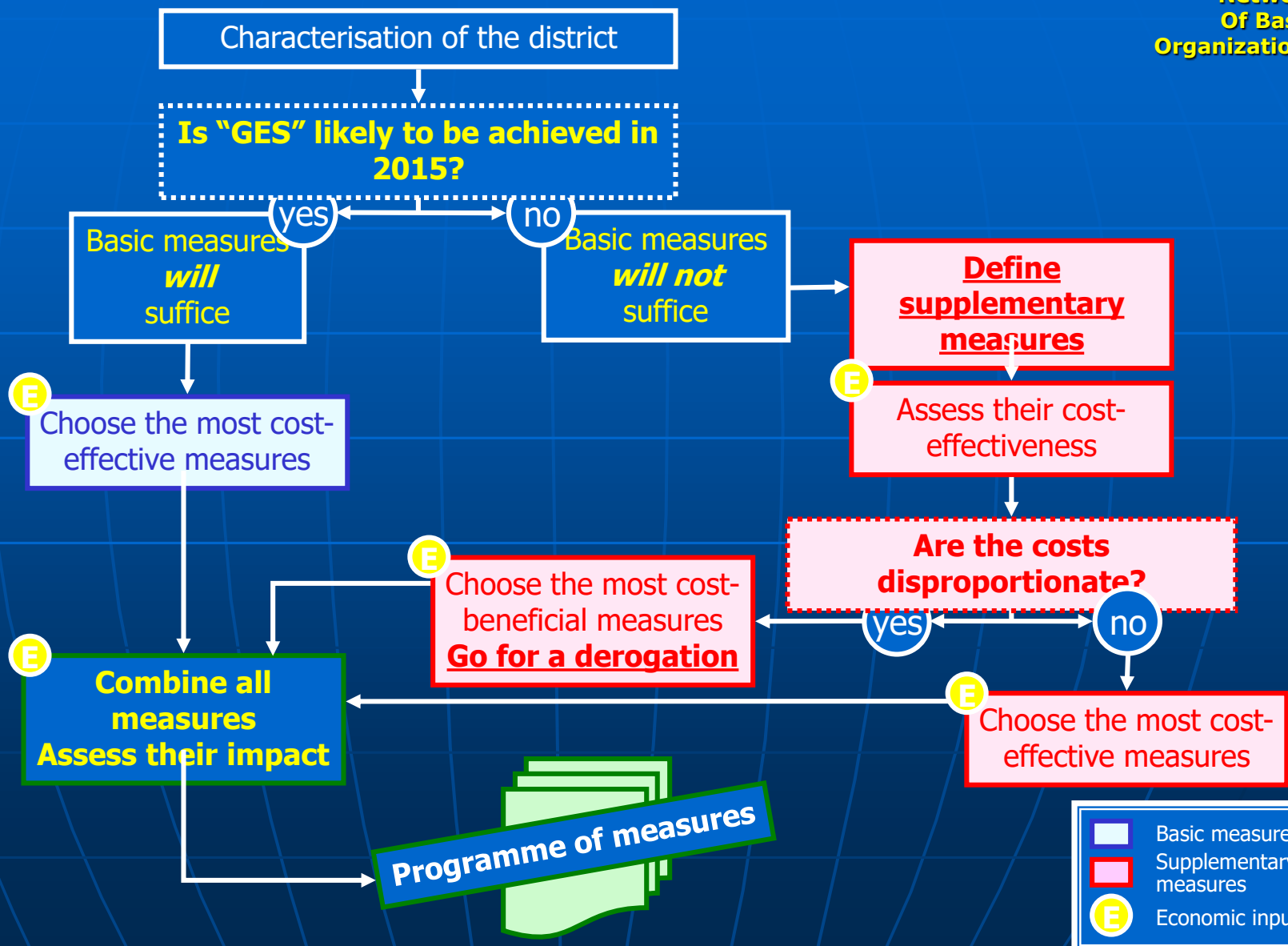
based on management plans or master plans

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

**As adaptation actions will take several decades
before having a visible and significant effect**



FLOW CHART OF THE CONSTRUCTION OF THE PROGRAMME OF MEASURES





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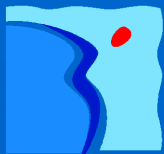
TRANSPARENCY OF COSTS AND POLLUTER-PAYS PRINCIPLE:



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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>

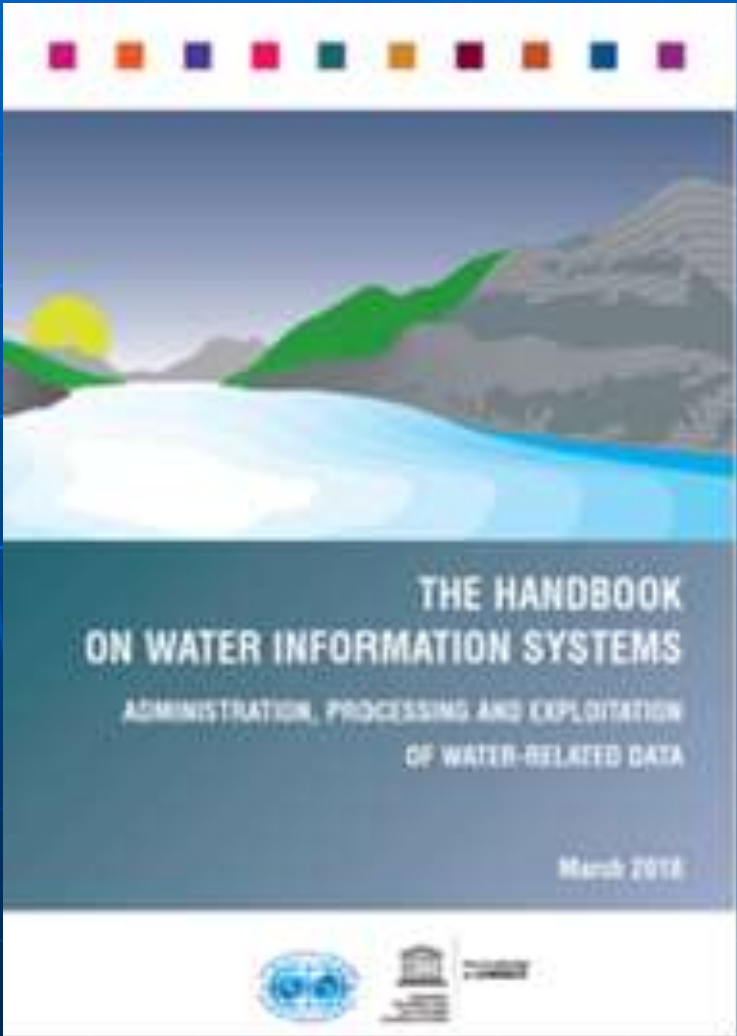
Sum = full cost -



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Questions to the panel:

We cannot manage what we do not measure!

Why is data so crucial for decision-making ?

**How can it be best produced, processed, tested and validated
and finally shared and disseminated?**





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Support

