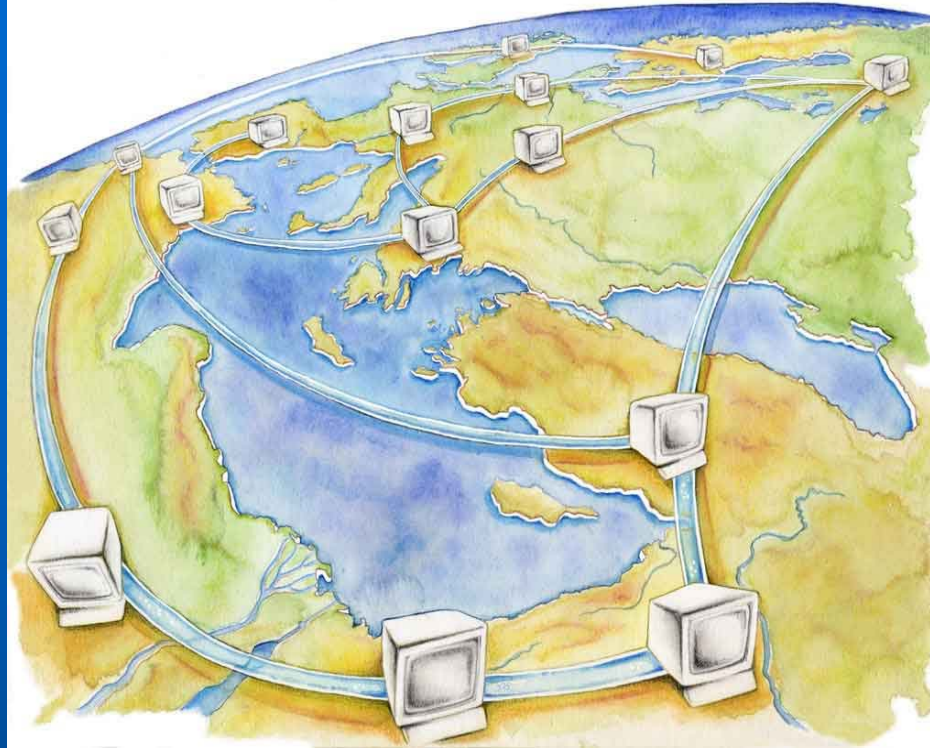


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النظام المعلوماتي الأورومتوسطي
للمعرفة في مجال المياه

**Availability of drought & water
scarcity indicators in Med countries**

EMWIS Coordination Committee

Jauad El Kharraz

Nice, 09 June 2009

EURO-MEDITERRANEAN PARTNERSHIP





Many international & regional initiatives and programmes are using indicators and/or monitor indicators in the water sector at the national and the regional level (Horizon 2020, Medstat, AWF, USAID, UNEP/MAP-MSSD, etc).

- A need to capitalize and mainstream the data/indicators flux
- A need to harmonize data/indicators at national & regional levels
- A need that EMWIS NFPs play a role at national level to reduce reporting and requests responses.
- **For countries**
 - Support to developed harmonised NWIS
 - Simplified and transparent reporting (incl. identification of information sources)
- **For international initiatives**
 - Systematic data collection processes
 - Harmonised data and exchange procedures
- **For both:**
 - Comparison of data / indicators
 - Easier identification and access to relevant and quality data



- Facilitating the integration of the WFD principles in partner countries' water related policies.
- Producing recommendations for preparing national and local activities for the implementation of sound water policies.
- Joint Process Phase 1 (2004-2006)
- Joint Process phase 2 (2007-2009)

The WG on WS&D is strongly interfaced with the Drafting Group set up by the EU Water Directors in the Framework of the 2005-2006 work programme of the Common Implementation Strategy (CIS).

WG Objective:

- An overview of the magnitude of the problem of WS&D in the Mediterranean
- An assessment of their impacts, and exchange information on possible alternatives of water use
- Identification & analysis of 'best practices' for water saving measures

Med WS&D Report Phase II: SURVEY



A survey has been sent to the MED water directors

- ❖ **Aim of survey:** Identify current status of WS&D in Med countries and measures put in place to deal with them
- ❖ **Returns:** Responses received from Turkey, Palestine, Morocco, Bosnia and Herzegovina, Tunisia and Jordan
- ❖ **Strengths:** Valuable selection of qualitative data/ success stories
- ❖ **Limitations:** Very incomplete data sets, difficulty of respondents to obtain the data, likely methodological inconsistencies amongst respondents

Med WS&D Report Phase II: Report table of content



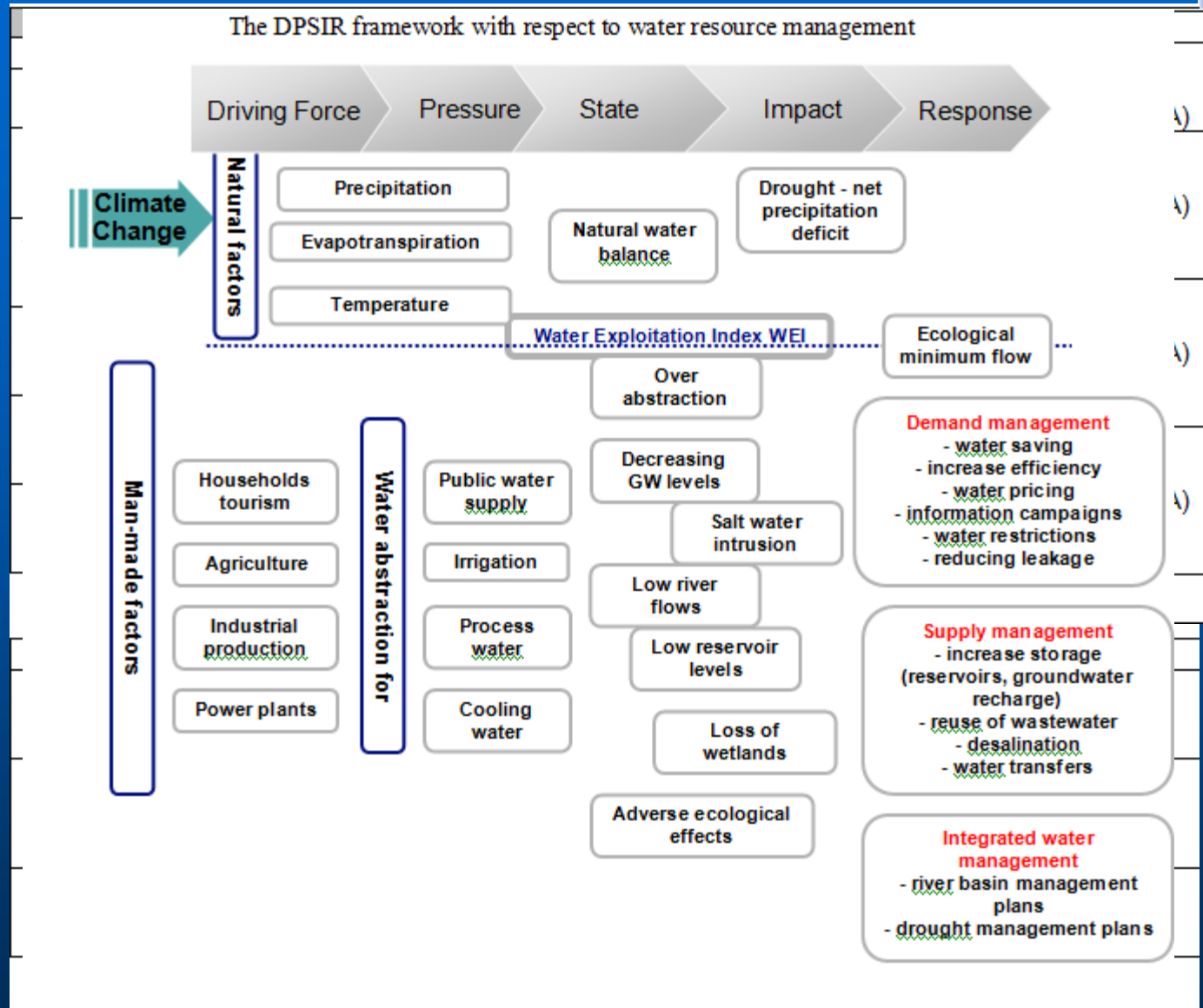
VII	WS and D measures	Supply side actions, economic instruments	<u>Mr Berthaut</u>	<u>Dr Khalifa</u> T. Davy
		Demand side management	<u>Mrs Thivet</u> , Blue Plan	
		Management plan, risk management	<u>Mrs Iglesias</u> , Medroplan	
VIII	Public participation in WS and D management	Types, actions of public participation, examples	MEMBO	
IX	Crisis management	Water allocation, processes and actions for action in crisis situations	MEMBO	
X	Climate change	Impacts of climate change, climate change consideration in prevention and management policy	<u>Dr Khalifa</u>	<u>Mrs Raiter</u> (JRC) <u>Mrs Thivet</u> , Blue Plan
XI	Virtual water		<u>Dr Khalifa</u>	<u>Mrs Thivet</u> to send Blue Plan study
XII	Conclusions and Recommendations	Key learning points, recommendations for actions	Commission	ALL



At the EU level, water quantity reporting processes require information on 2 main components:

- **Water Resources Availability (WRA): *Includes sheets on water balance, precipitation, river flow, reservoir storage and groundwater level***
- **Water Abstractions (WAB): *Includes sheet on water abstraction by sectors***

What indicators are available in EU?



C. Surface and Ground Water

Stream flow	GS	daily monthly averages
Groundwater level	MS	Monthly (if available) annual long term annual average (LTAA)



A survey on water resources quantity in the MED countries

A survey on water availability & water abstraction data at national /river basin level will be diffused to MED countries before August.

The aim is to formulate indicators used to assess the state and trends of WR & associated pressures, as well as monitor progress with MED countries policy objectives.

Info. needed	Details
Drivers	Natural availability of WR, hydrometeo parameters, reservoirs management
Pressures	WD, water abstraction, return flows by source & sector
Impacts	Ecosystem integrity, use value
Responses	Policy vs targets? Sustainability of the rates of extraction from WR over long term
Use of freshwater resources	Water availability/scarcity in connection with water use & water use efficiency Evaluation of droughts & floods