



SEMIDE

<http://www.semide.org>

Systeme Euro-Méditerranéen d'information sur les savoir-faire dans le domaine de l'Eau



النظام الأورو- متوسطي للإعلام حول المعرفة في ميدان المياه

Country Water Information Systems in the Mediterranean
Tripoli, 2007-04-12

EMWIS

<http://www.emwis.org>

Euro-Mediterranean Information System on know how in the water sector



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EURO-MEDITERRANEAN PARTNERSHIP



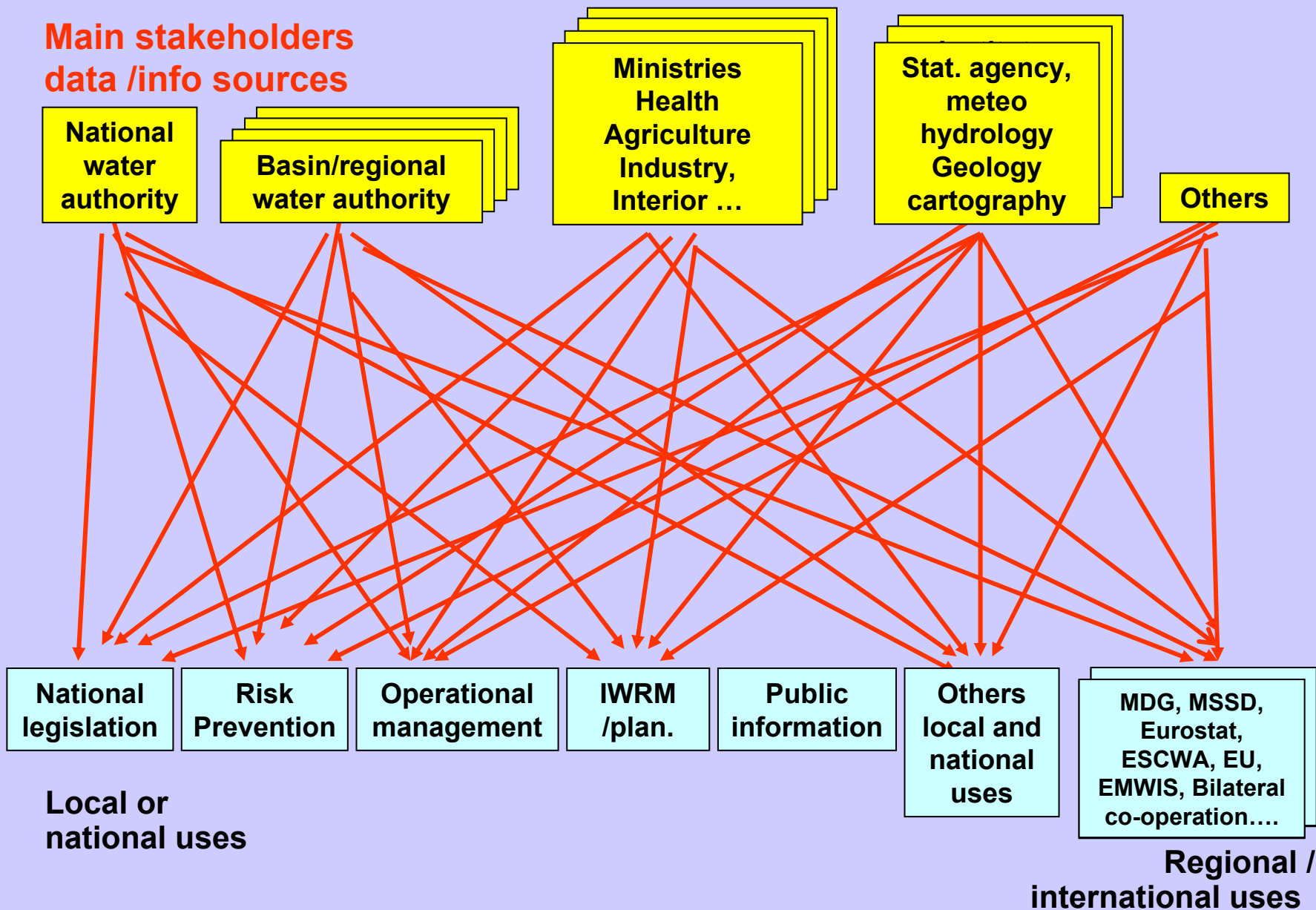
Importance of NWIS

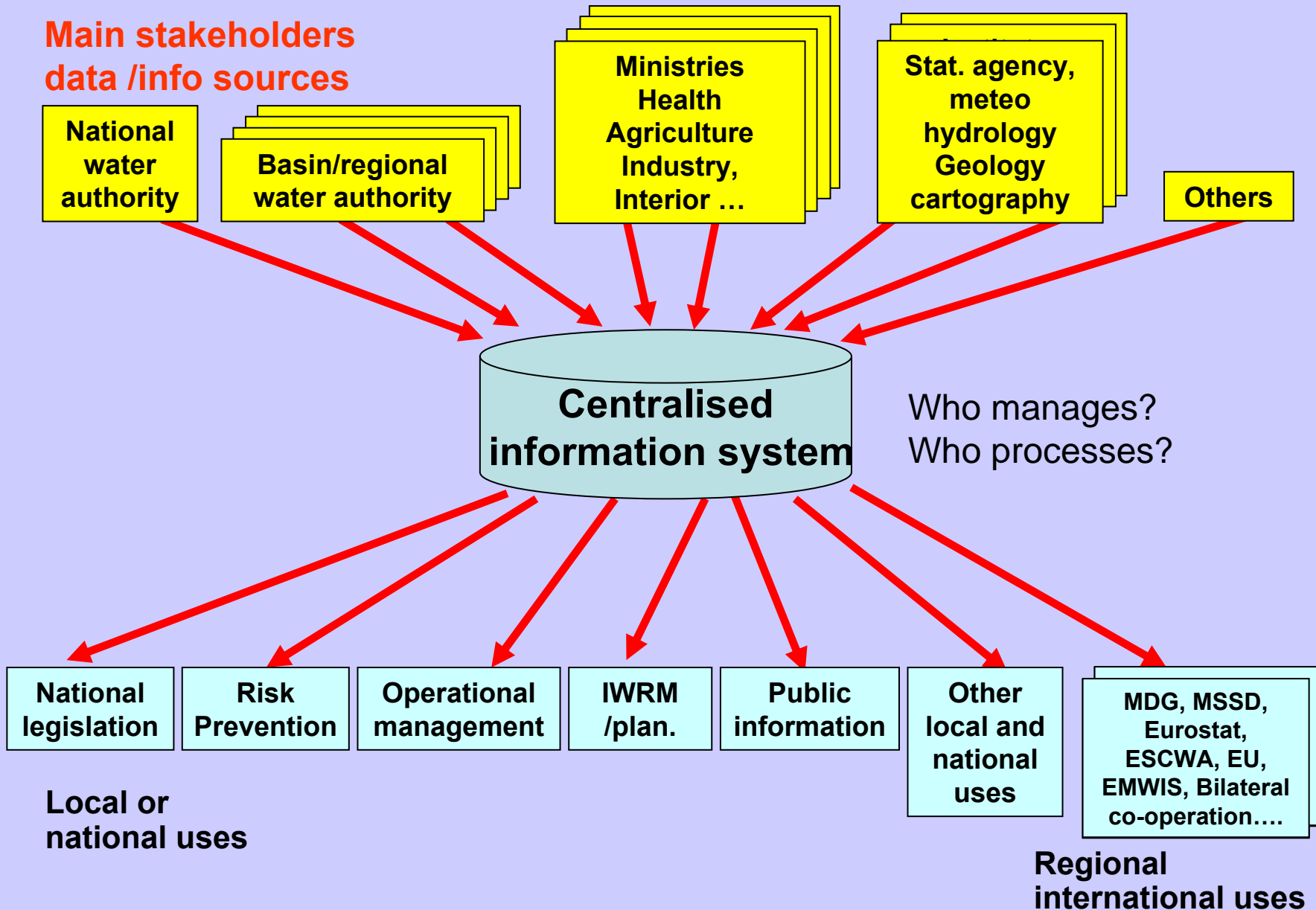


- Water issues are global and concern, in most cases, a simultaneous **combination of various levels of action**: local, basin, regional, national, international, etc.
- Knowledge of the resource and of its status is a major issue for **water policy planning and assessment**
- A priority tool to support **integrated water resources management and risk prevention with all stakeholders**
- Essential for **public information, awareness raising and participatory approaches**



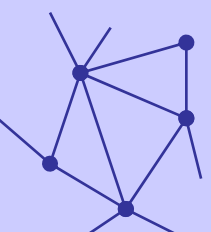
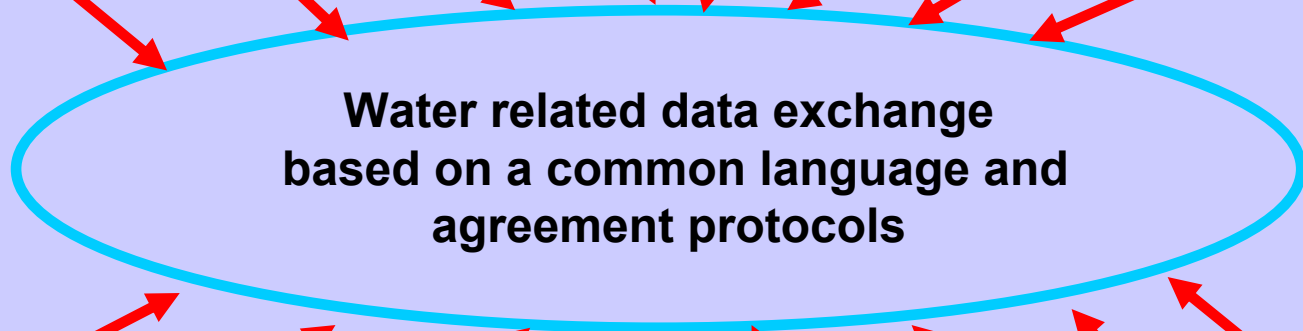
Responding to needs: scenario 1



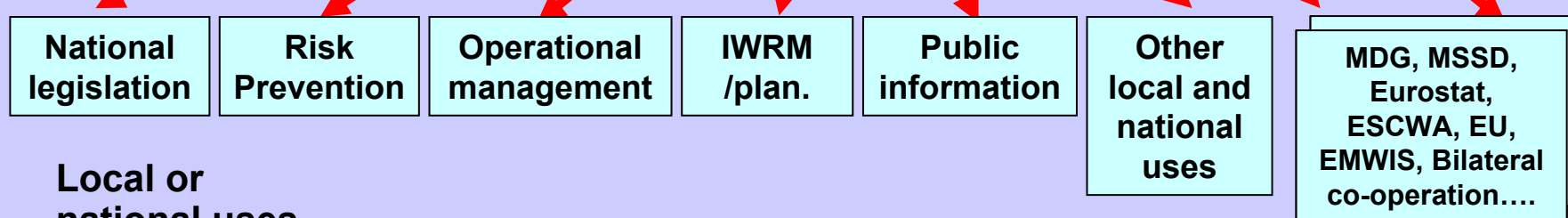




Main stakeholders data /info sources



Distributed approach

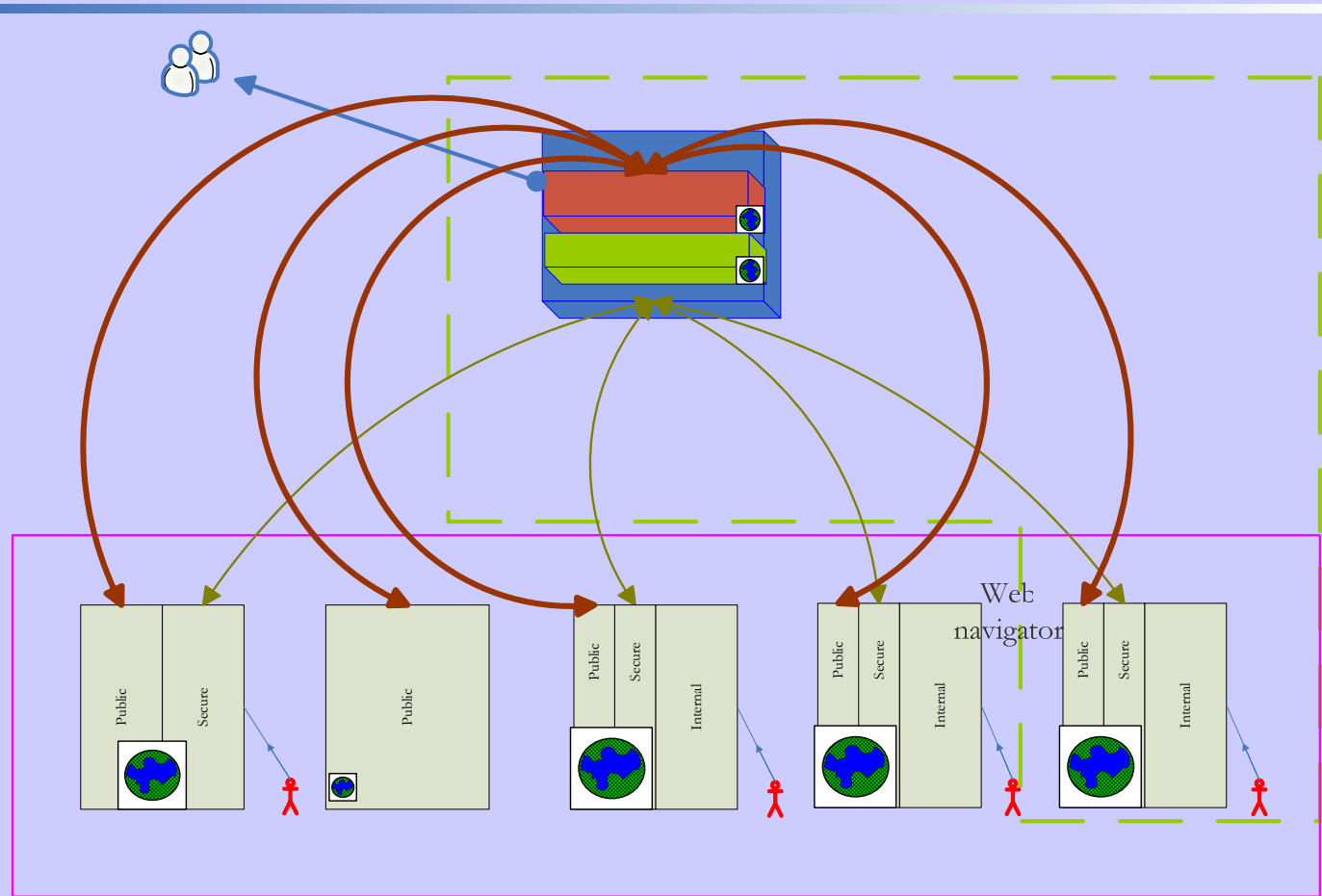


Local or national uses

Regional international uses

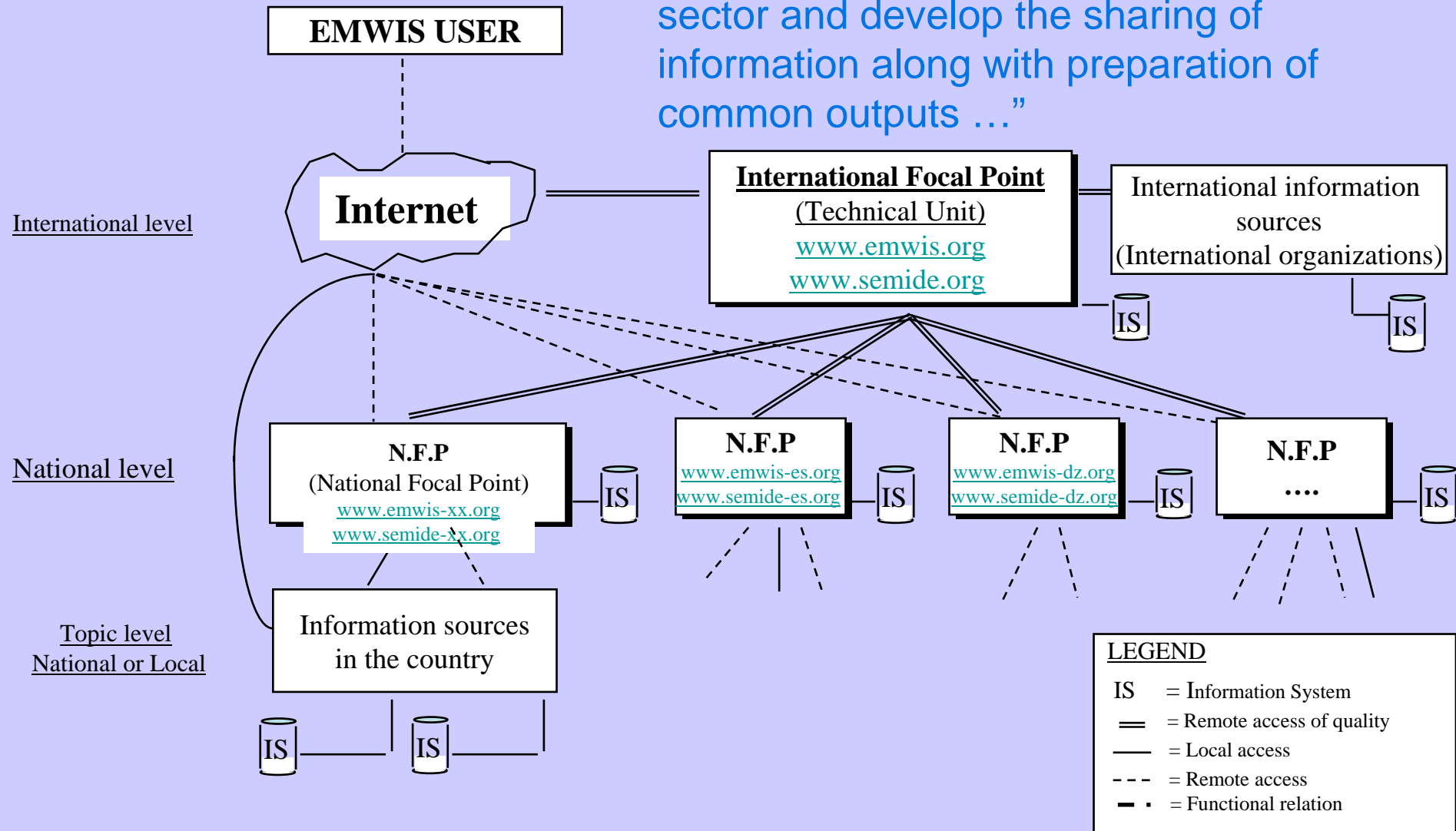


Exploitation of ICT by all water stakeholders based on agreed standards procedures





“Facilitate access to the existing information on know-how in the water sector and develop the sharing of information along with preparation of common outputs ...”





EMWIS started in late 1999 to “Facilitate access to the existing know-how in the water sector and develop the sharing of information along with preparation of common outputs and cooperation programs between the participating countries”.



Success factor: information provided & managed by participating countries



Countries input not as smooth, frequent or harmonized as expected



Unavailability of efficient NWIS



Feasibility study for NWIS development or enhancement



Motivate Countries and donor agencies to finance NWIS implementation

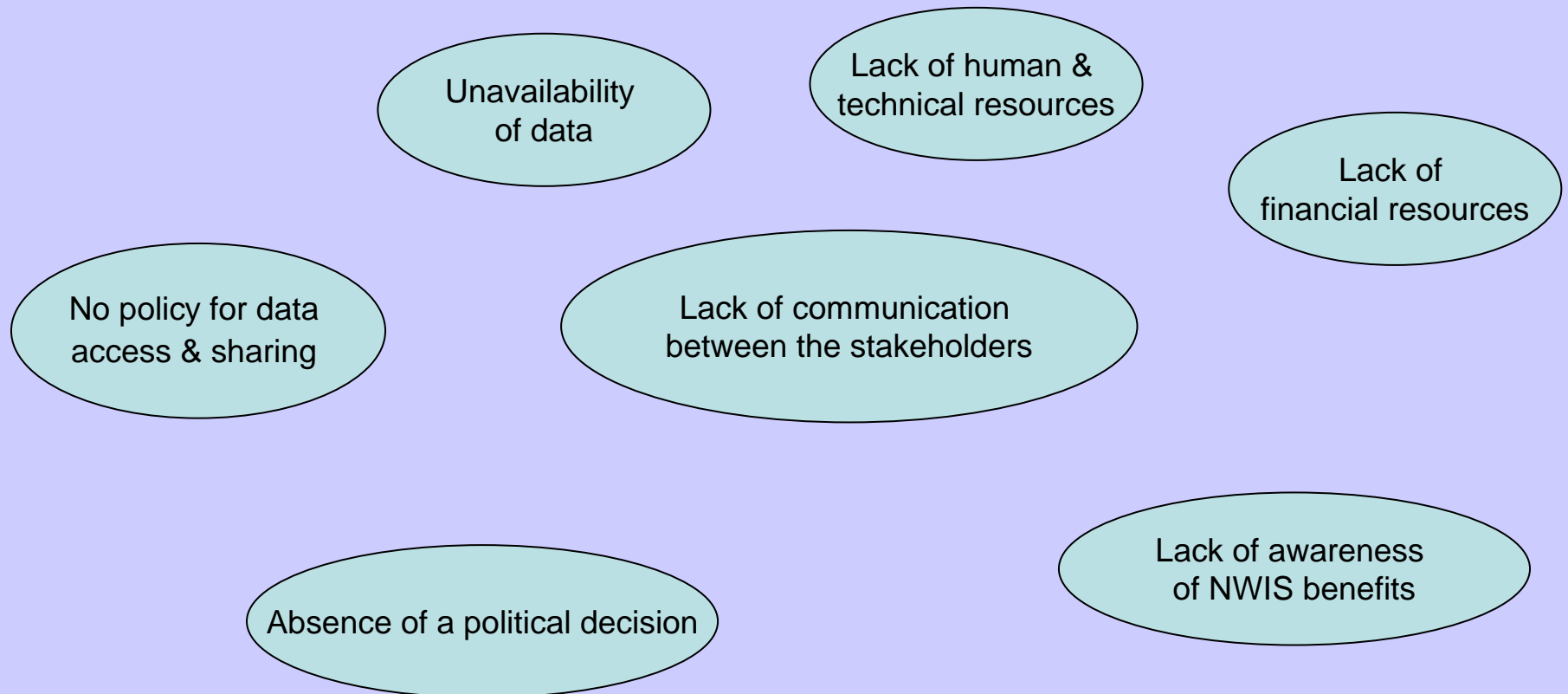


- Feasibility studies of National Water Information Systems (NWIS) in 10 voluntary Mediterranean Countries involved in EMWIS
- Nov'2005 – January 2006
- Algeria, Cyprus, Israel, Jordan, Lebanon, Malta, Morocco, Palestine, Tunisia, Turkey

Major constraints identified



All countries are willing to establish or enhance their NWIS but...





Sharing data

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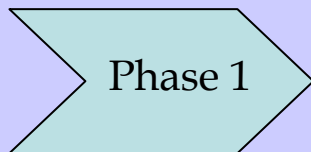
- Losing power
- Divulging sensitive data
- Being criticised
- Centralised management



Sharing data

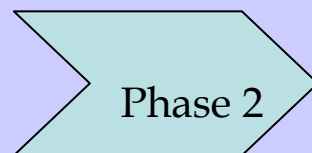
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- Wider range of information
- Security & privacy control
- Better quality
- Mgt at the most appropriate level



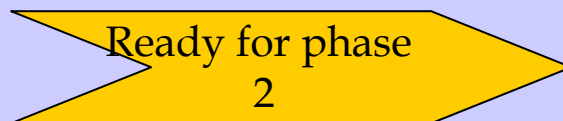
NWIS pre-development phase:

- **Survey of all water data sources.**
- Monitoring of Water resources
- Standard Operating Procedures for monitoring and data collection
- Availability of ICT infrastructure
- Qualified IT staff
- Specialized data collection and monitoring departments
- WIS available for some or all stakeholders.



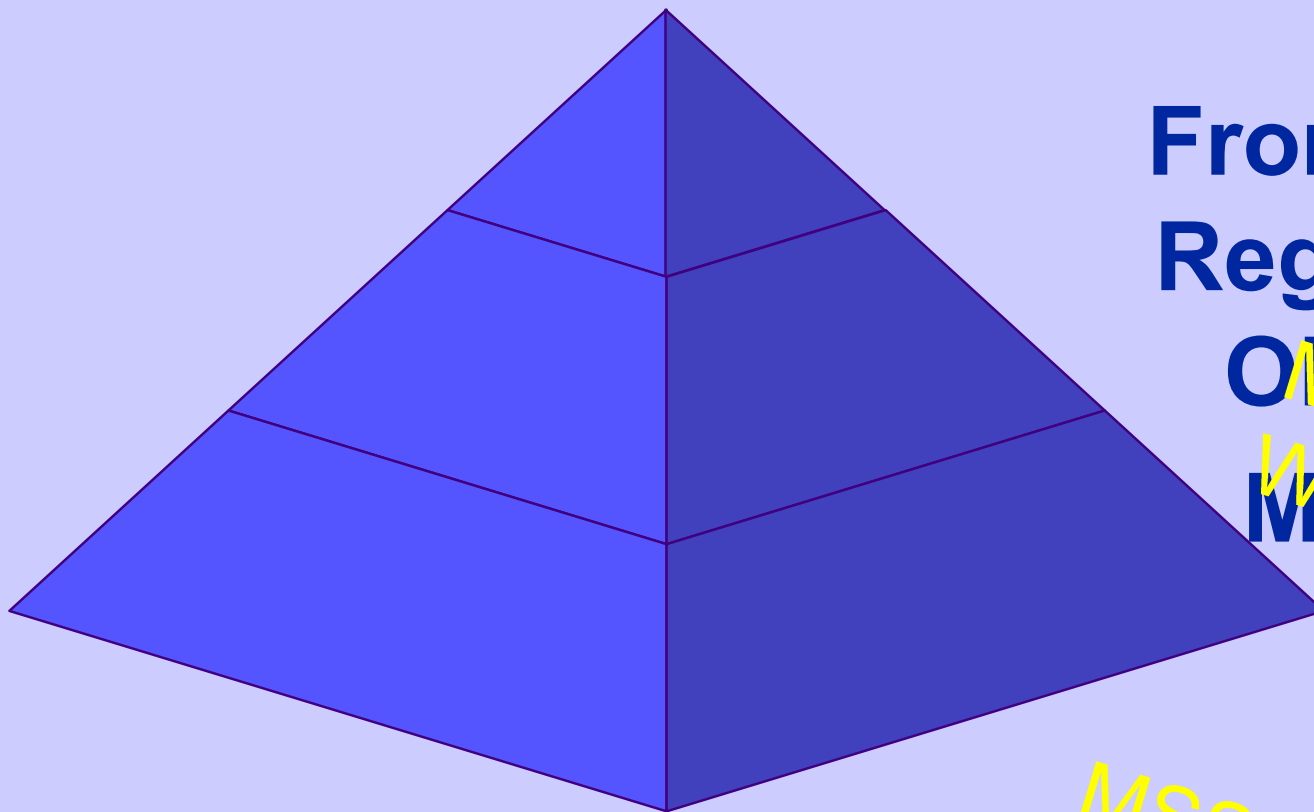
NWIS development phase :

- Conduct awareness campaign.
- Political decision & strategy
- **Partnership and coordination committee**
- Roles & Responsibilities.
- Data Classification/sharing policy.
- Secure Funds.
- Study expectations & outline design
- Capacity Building.
- Detailed Technical Design Study.
- Develop/validate/test NWIS.
- Institutionalization & implementation.





- Algeria launched 1st NWIS components
- Tunisia NWIS in a study phase
- Cyprus starting a pilot NWIS
- Morocco has a WIS -> NWIS
- Turkey is developing WIS
- Jordan and Lebanon are in fund raising phase
- EU (Mediterranean) Countries: Water Framework Directive is a catalyst (integration into the Water Information System for Europe)



From NWIS to a Regional Water Observation Mechanism

- To ensure effective and long term participation of the Med countries
- To reinforce existing networks and avoid any duplication with on-going or planned actions
- To seek for synergies between the various organisations involved, either national, local or international



Organisation of the feasibility study

- **Steering group:**
 - National water authorities, EC, Eurostat, EEA, MAP-Medpol, MAP-Blue Plan, MAP-Info-RAC, IME, JMP, MENBO, OECD, Unesco/WWAP, AfDB-AWF, PSEau-Med, ...
- **Phase 1 – Proposal of a first vision**
 - **July-December 2006**
 - **Diagnostic study with 4 volunteer countries: Jordan, Tunisia, France and Spain**
 - **Diagnostic study at the regional level**
 - **Synthesis, key orientations and recommendations for the 2nd phase -> validated by the Euromed water directors (Athens, Nov'06)**
- **Phase 2 Broader validation of the vision & recommendations**
 - **February-November 2007**
 - **National diagnostic studies in Cyprus, Libya, Malta and Morocco**
 - **Further concertation with regional initiatives**
 - **Detailed recommendations to set-up the Partnership**



Specificities of the regional context

- Various water policy framework **using data and information**
- **Various regional political frameworks and actors:**
 - **MDG : JMP, EUWI/ MED-EUWI, ...**
 - **MAP and MSSD : UNEP-MAP unit, MedPol, RAC, ...**
 - **EU Programmes: ENPI, Horizon 2020, Medstat, MEDA-Water...**
 - **African Vision : AMCOW, AfDB/AfWF, ...**
 - **Others: AWC, FAO, WWC, GWP med, MEMBO, WWAP, World Bank, GEF, OECD, CEDARE, OSS, ESCWA, EXACT group, IUCN, WWF....**
- Various information systems: **WISE, Eurowaternet, EIONET, INFO/MAP, EMWIS, JMP database, water monitoring alliance, MedPOL, MedStat, AQUASTAT, IBNET,**
- Various groups (**think tanks**) for improving the **processes: UN-WATER, DGenv/EEA/JRC on Wise, EEA/UNEP on MAP, ...**



Key problems at regional level

- Difficulties in identifying and accessing national data
- Difficulties in collecting **data even with established processes**
- Major problems of heterogeneity, completeness and quality of the received data
 - **Problems linked to the** lack of clear production processes and common technical language
 - **Problems linked to the** lack of metadata
 - Discontinuity in monitoring **over time or geographically**
 - Incomplete or not adapted data provided
 -



Expectations at regional level

- **Data on major topics, such as:**
 - Water resource (**Description of aquifers, Groundwater quality, Availability of the resources**)
 - Uses (**Water demand for the various uses, especially agricultural, self supply....**)
 - Socioeconomic aspects (**on on-going investments, on the investments necessary to achieve the MDGs, impact of water shortages and drought, socio economy of the uses...**)
 - Drinking water supply and sanitation services (**WSS in rural areas, benchmarking, ...**)
- Additional key data allowing regroupings or studies at basin level, by sectors, by eco-region ...
- Sustainable financing of regular monitoring/data collection
- Adapting existing systems to data exchanges



Priority objectives proposed

➤ Reinforce NWIS

- Capacity building of the Mediterranean countries in order to better meet the needs at the regional level, while each country keep its own autonomy for organising its national water information system (NWIS)

➤ Support existing regional/international systems

- By developing a framework for dialogue between regional and national organisations in order to better meet the expectations on reliable, comparable and quality information necessary for effective water resources management in the Mediterranean



Current activities

- **National diagnostic studies**
- **Preparation of a draft Med Water Partnership charter**
- **Assessment of potential MedWIP activities on key topics and proposals for working group organisations**
 - **General indicators on water supply and sanitation (MDG7)**
 - **Indicators related to water of the MSSD**
 - **Water for agriculture**
 - **Water and sanitation services (as example of topic with dispersed information)**
 - **Data and indicators on drought & water scarcity**
- **Prototype tools:**
 - **Web portal**
 - **Catalogue of information sources (metadata)**
 - **Web mapping**
- **Expert workshop planned in early 2007**
- **Results to be presented to the Water Director Forum at the end of 2007**

Thank you

National portals



www.semide.net

www.emwis.net

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Common taxonomy
(multilingual thesaurus)

Clearing house for EU programs and initiatives

Regional water projects databa

« who does what »



Thematic forums/folders

- Ground water, water scarcity
- Water glossaries, satellite images, etc.

Monthly eNews Flash in Arabic, English and French

