Food and Agriculture Organization of the United Nations

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Feasibility Study for the information component of the Information and Training Centre for Water in Lebanon

Kick-off workshop

Study approach within UfM Mediterranean Water Knowledge Platform

Eric MINO

SEMIDE / EMWIS

13 February 2018, Beirut, Lebanon

Presentation outline

- **UfM Mediterranean Water Knowledge Platform**
- **Feasibility study work-plan and consultation process**

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Mediterranean Water Knowledge Platform

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Background

Euro-Mediterranean Ministerial meeting on Environment, 2006:

Building integrated National Environmental information systems

UfM Ministerial declaration on water, Dec'08:

Strong focus on water information

Mandate of the UfM secretariat to provide a direct response to this Ministerial request

1st consolidated concept note end 2012

Shared vision with Med countries and regional initiatives: Arab League, EEA, UNEP-MAP

Joint proposal for UfM labelisation end 2013:

Supporting the development of *interoperable* NWIS for IWRM and easier Med reporting

White papers on IWRM: using data & identifying gaps

UfM label in April 2014 for project phase 1

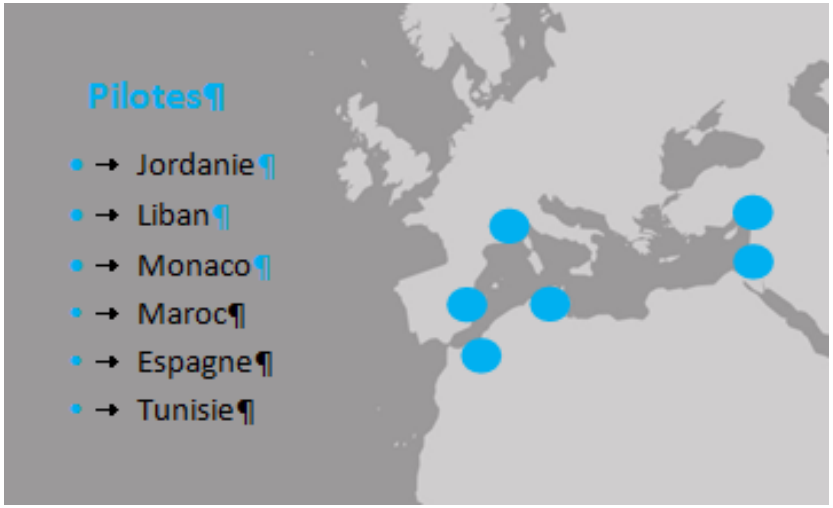
Objectives of the platform

Improving Integrated Water Resources Management planning and fostering its implementation:

A common approach for developing National Water Information Systems

An assessment of water resources and use

➔**We can only manage what we know**



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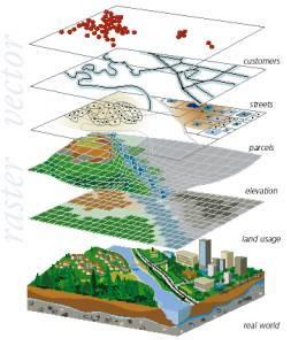
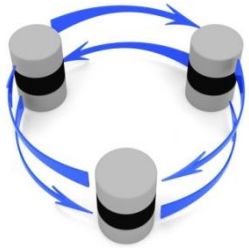
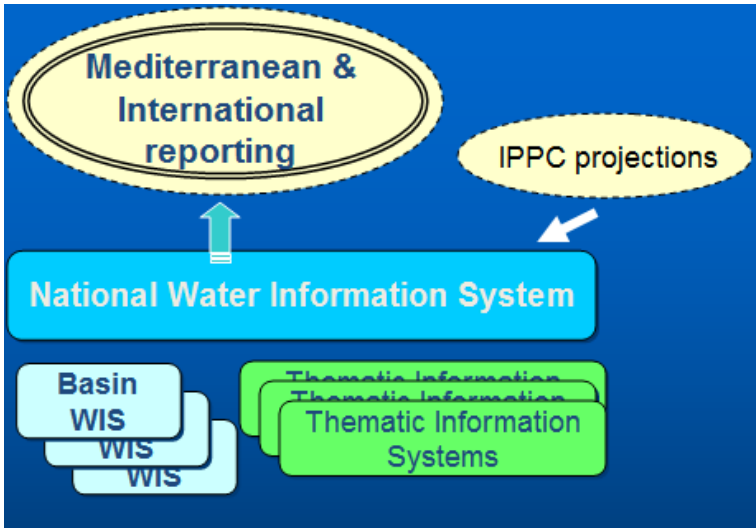
Better knowledge for Climate adaptation and mitigation

Organising data sharing and management in each country

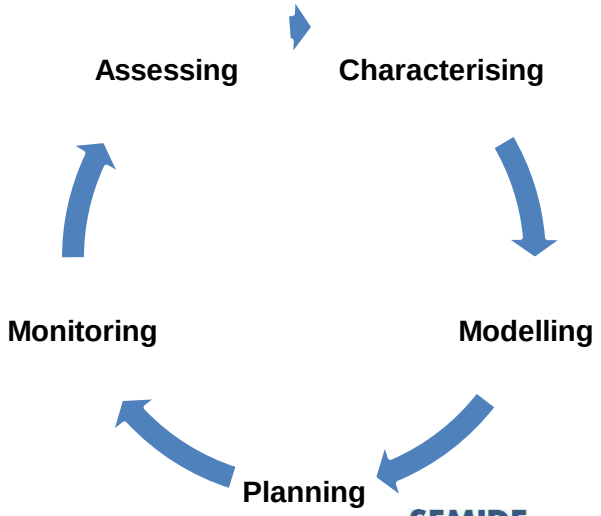






Building capacities for monitoring, evaluation, planning

Exchange of experiences



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SEIS Pilars

1. Shared (institutional cooperation)

Political commitment (law/MoU)

Partnership (win-win)

Networking

Policy Framework Agreement

2. Environmental Information (content)

Horizontal integration (themes)

Vertical integration (local to global)

Online access (near real time)

Different target users (data collected once)

Common language

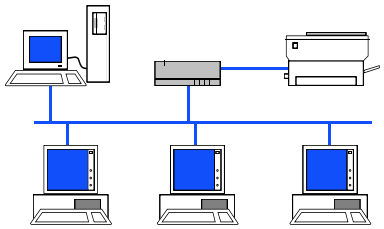
Agreements on procedures

3. System (infrastructure)

Existing ICT infrastructures

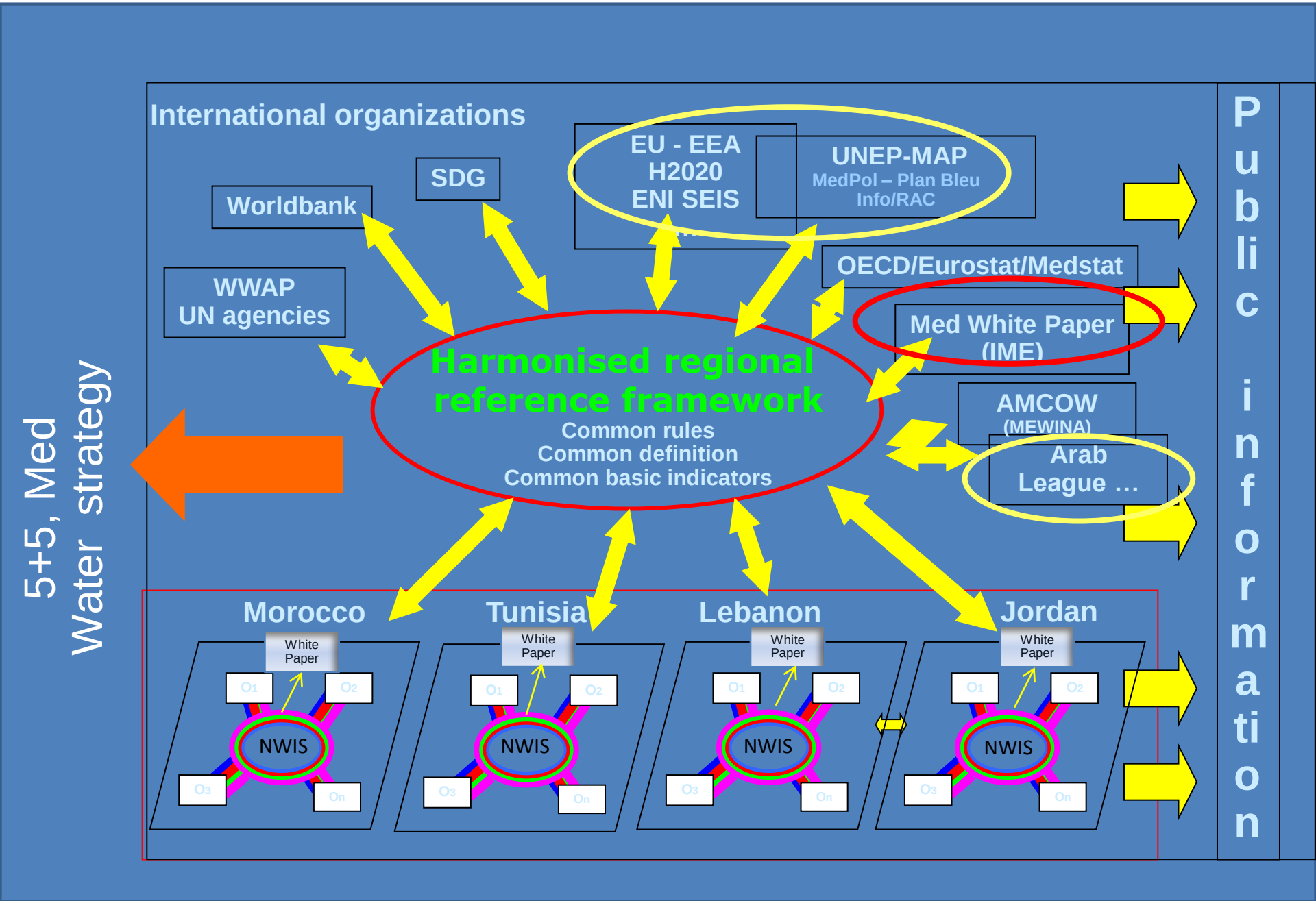
INSPIRE, Earth Observation, Internet of things, ...

New e-Services (e-Government)



System development

Data management from local up to international levels



Quick history of NWIS in Lebanon

?????

Study objectives

Feasibility Study for the information component of the Information and Training Centre for Water

➔Centralised access to information on the Lebanese water sector for IWRM

➔Taking benefits of existing data and information generated by projects and by stakeholders

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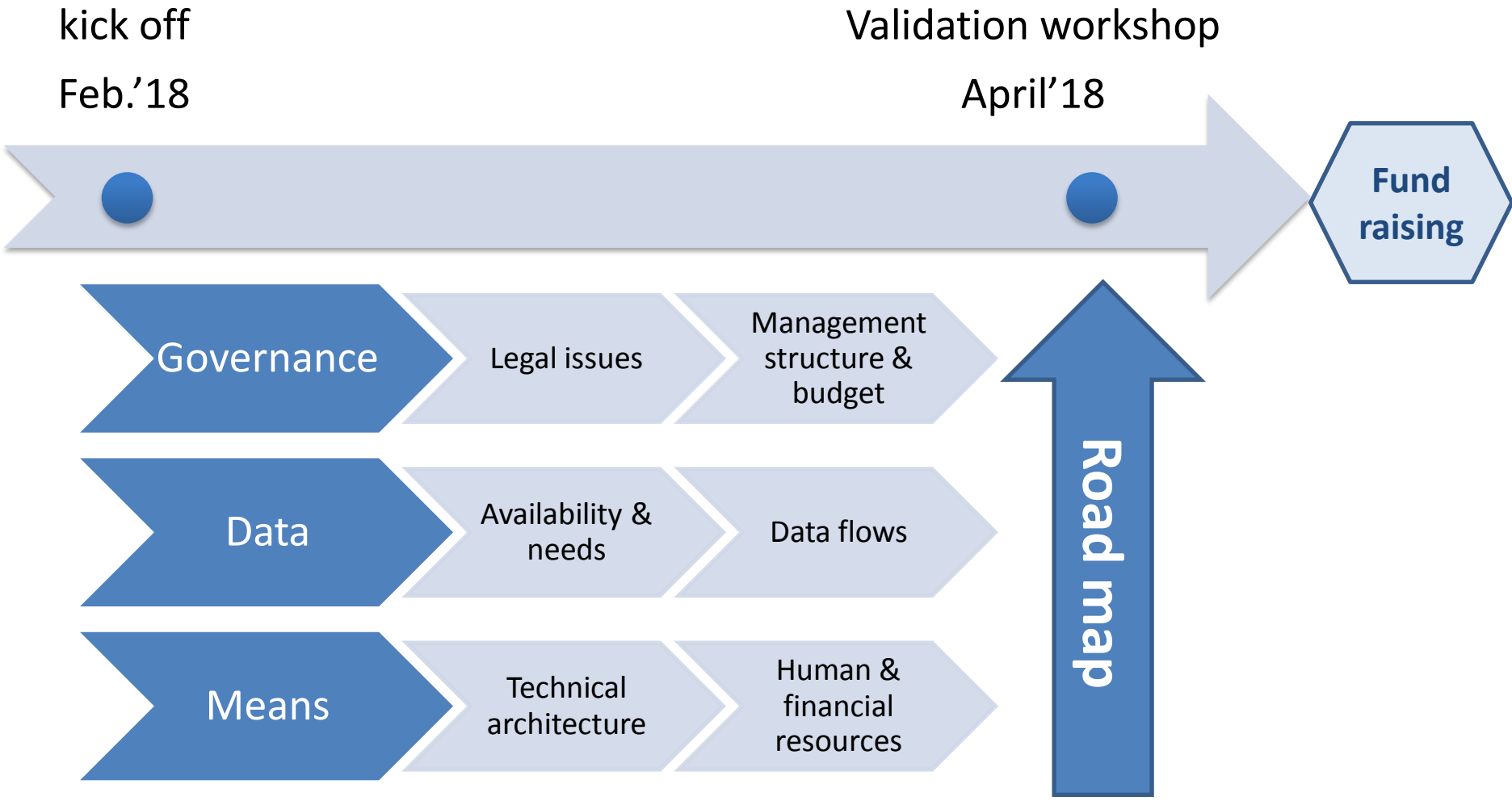
Expected outputs

- **Review of stakeholders needs and status in terms of water data management**
- **Institutional recommendations:**
  - Governance structure
  - Article introducing the NWIS into the water code
  - Memorandum of understanding for data exchanges
- **Data availability and gaps**
  - Online inventory of existing data sources
  - Mapping existing data against IWRM data needs
  - Pilot information product combining data from various sources
- **Road map for implementation of the Lebanese water information system**
  - Actions proposed with associated budget and planning

Planning overview



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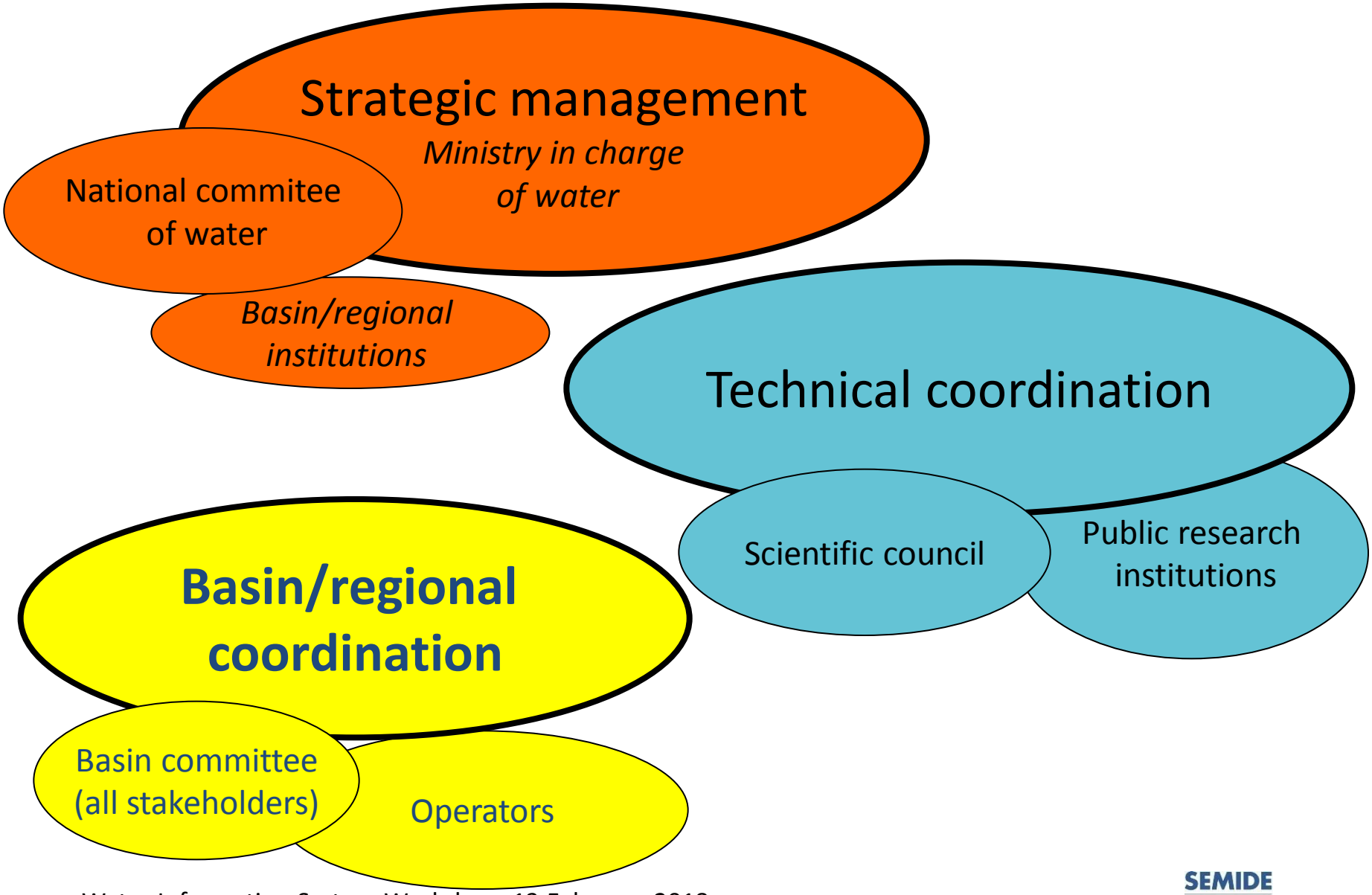
Implementation Approach

- **Bibliographical review**
- **Focus group session**
  - This afternoon
- **Interview with the main stakeholders**
- **Survey**
  - Needs
  - Existing applications, information systems
  - Data sources
  - Cost of data collection, management and valorisation/dissemintation
- **Online inventory with web mapping**

A three pilar governance



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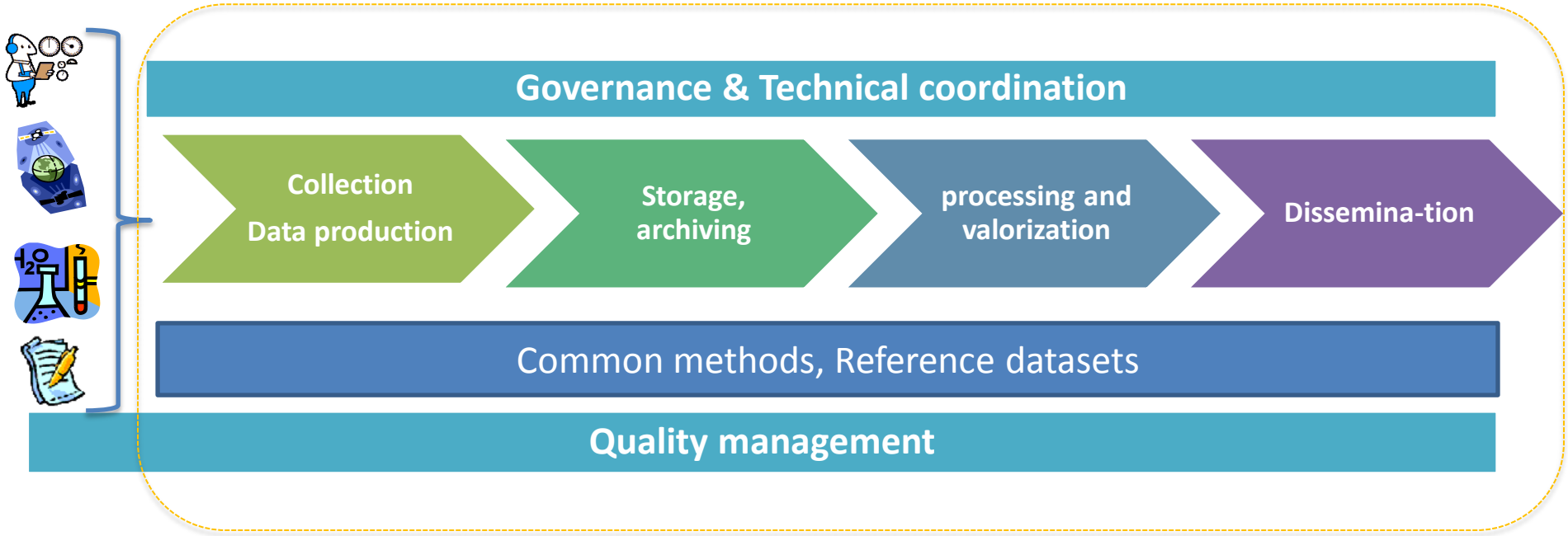
Typical data work flow for a Water Information System



Vertical integration

Data management at local level

Responding to upper level needs/reporting

Focus on data for IWRM planning

Status of water resources (aquifers, rivers, reservoirs and non conventional) in terms of quality and quantity

Pressures from Agriculture, Industries, Urban areas (e.g. water abstractions, pollution generated by the activity)

Impacts (socio-economic and environmental)

Water infrastructures, including in project (WWTP, dams, transfers, desalination plants, etc.)

Soft mesures: tariffs, permits

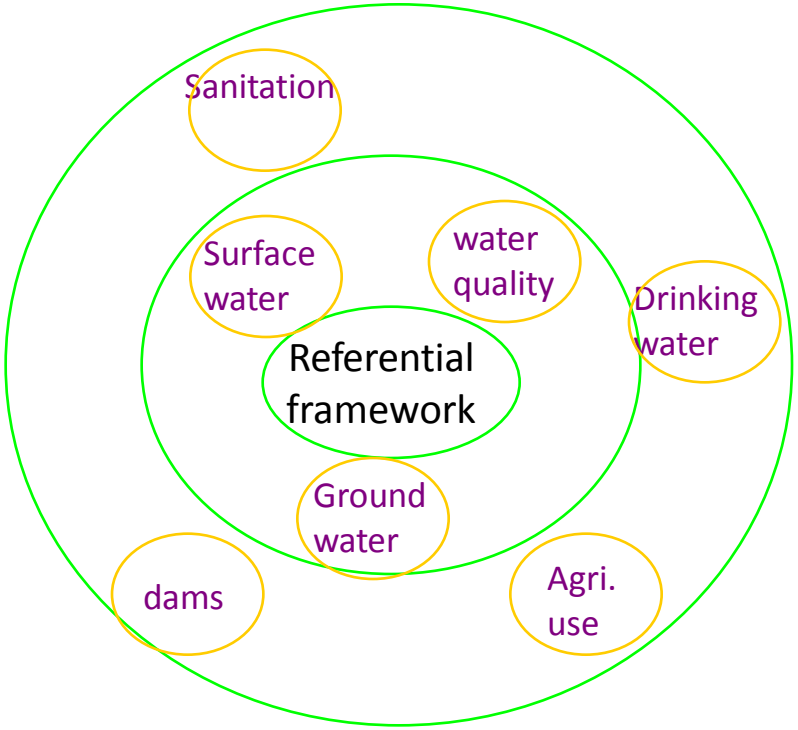
Actors

Reference datasets

Hydrological network, land use/cover,

Management units

A step wise integration process



Referential framework

Set by and for the stakeholders

Quality Assurance

Sub-systems

One domain = one leader

National system

Sub-systems integration

Needs going beyond single sub-systems

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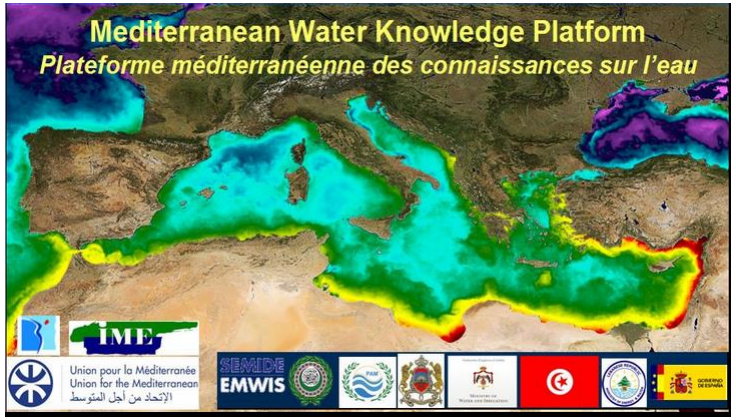

www.semide.net/initiatives/MWKP