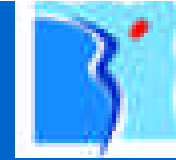




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INSTITUT MÉDITERRANÉEN
DE L'EAU
IME



Office International de l'Eau
International Office for Water

Regional project Towards a Mediterranean Water Knowledge Platform

Sub-project Creating Shared National Water Information Systems (MedWIS)

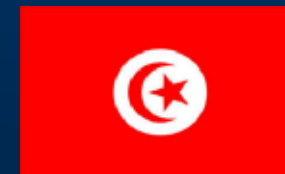
Presentation

9 September 2014

SEMIDE
EMWIS



Plan
Bleu



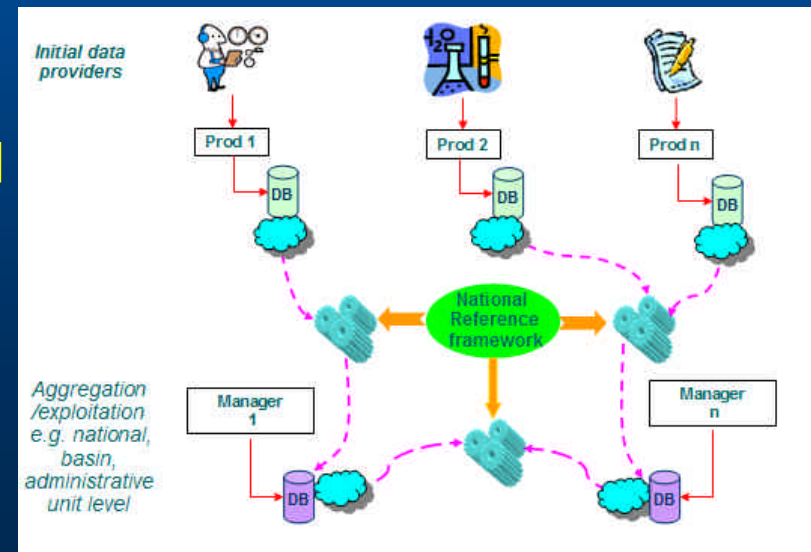
Background

- **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 with MWPW for UfM labelisation end 2013:**
 - Ability of harmonised NWIS to provide the foundation for developing a white paper
 - Input from the MWPW on data needs for IWRM
 - Break-down in 2 phases
- **UfM label in April 2014 for project phase 1**

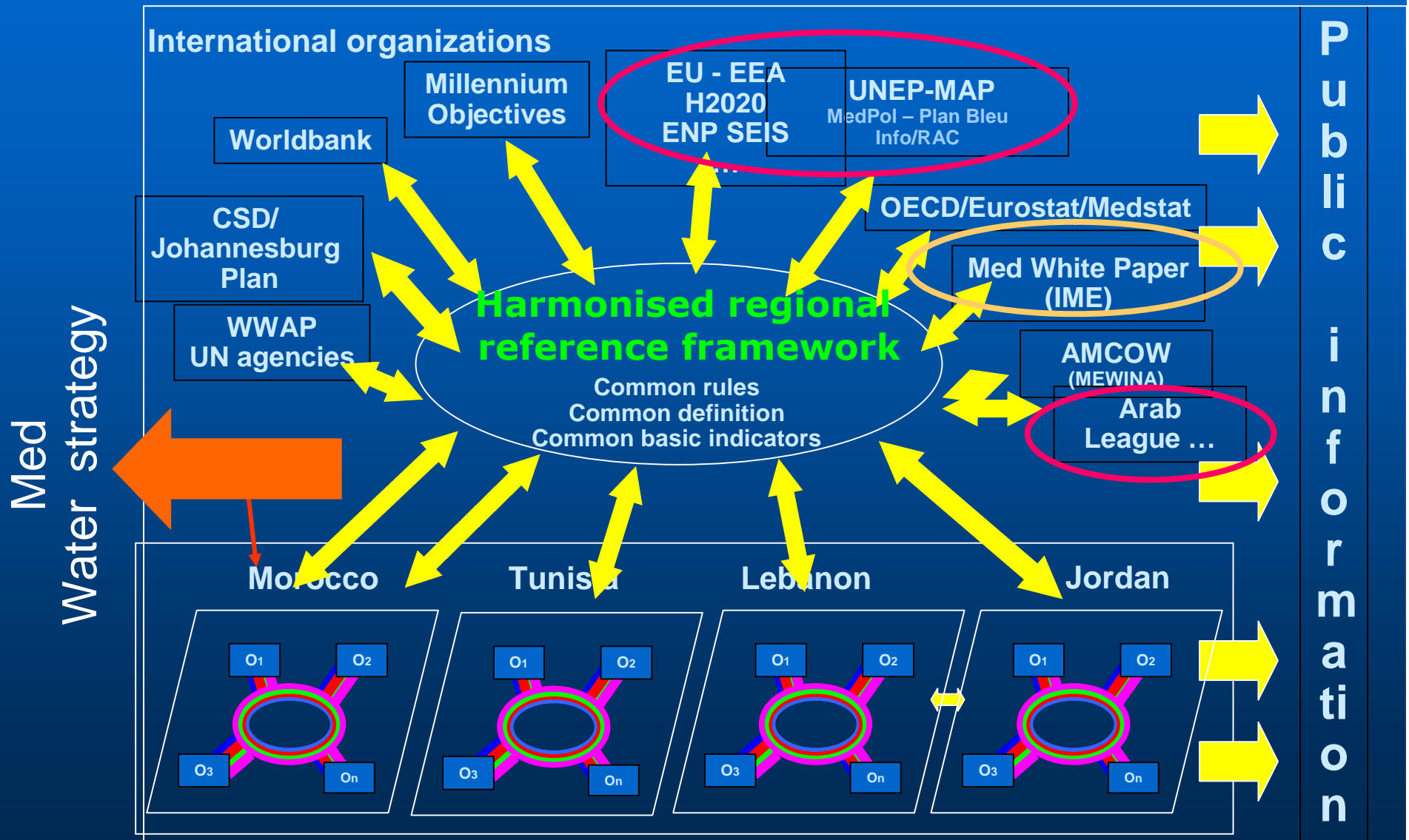
Vision for the Future

- **Water actors produce information at local level for their own needs using international standards**
- **They use tools to register data and to do their own job at the same time**
- **The registered data is available for others via harmonised interfaces, internet technology and homogeneous referencing system**

- **Water resources management planners, water regulators and reporting obligations use the same raw or aggregated information provided by National Water Information Systems**



Overall architecture



Project structure

PHASE 1
2013-2016.

2.7M€

REGIONAL PART

Strengthening the development of harmonized National Water Information Systems
Overall Project management

1.3 M€

COMPONENT R1 Strategic regional platform

Activities: guidelines, templates for terms of reference, capacity building, consensus building, technical assistance, capitalisation
Geo coverage: all UfM countries

COMPONENT R2 Training

Activities: Capacity building on data management techniques and legal issues
Location: various
Geo coverage: pilot countries / all UfM countries

COMPONENT R3 Testing NWIS based international reporting

* Shared water resources (COFWS)
* H2020 / MedPol (EEA – UNEP MAP)
* MSSD (UNEP-MAP)
Activities: data flows, exchange scenarios, exploitation,
Geo coverage: voluntary countries

10.3 M€

NATIONAL PART

Enhancing National Water Information Systems

4.925 M€

N1 Tunisia

Activities: system development and operation, training, capitalisation, system extension, fund raising (extension part)

N2 Morocco

Activities: terms of reference, technical assistance, fund raising, system development and operation, training

N3 Jordan

Activities: terms of reference, technical assistance, system development and operation, training

N4 Lebanon

Activities: terms of reference, technical assistance, fund raising, system development and operation, training



Implementing partners



- Regional activities opened to all Med countries
- Application of principles from SEIS, INSPIRE, WISE 2, Water Accounting (UN-DS)

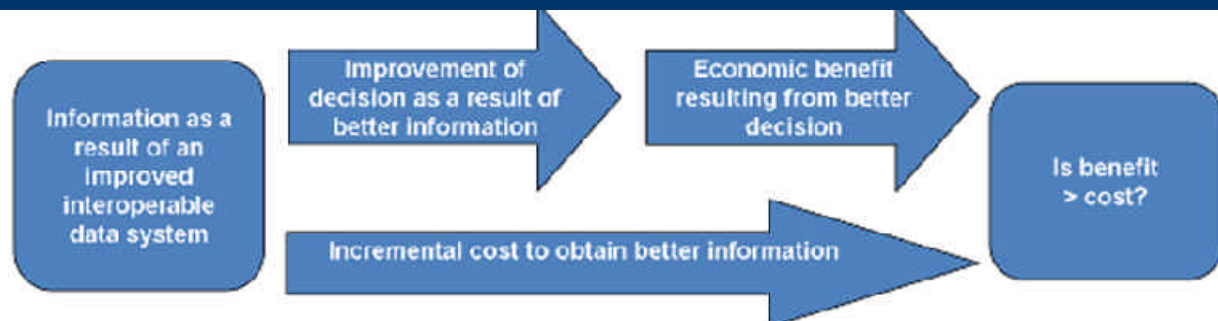
Regional component 1

1. **Project management**
2. **Provision of operational resources:**
 - ❑ Project web portal;
 - ❑ Metadata geo-catalogue;
 - ❑ A visualisation service for tabular and geographic datasets
3. **Review of IWRM indicators and related data needs**
4. **Joint definition of recommendations for reference data sets (stable over time, e.g. river network)**
5. **Preparation of guidance documents**
 - ❑ Recommendations for building NWIS
 - ❑ Template for terms of reference
 - ❑ Template for data sharing agreements (MoU and law articles)
 - ❑ Examples of technological solutions in particular based on open source solutions
6. **Joint elaboration of recommendations for monitoring data**
7. **Coordination with ENPI-SEIS**
8. **Capitalisation and exchange of experiences**

Regional component 2

Training sessions & awareness seminars

- Earth observation for better water management
- National water data master planning
- Spatial Data Infrastructure and reference data sets
- Data quality control and quality assurance
- Legal issues in water information management (including data sharing protocols, law revision, open data access)
- DPSIR analysis and indicator based assessment
- Cost-benefits analysis and economic sustainability of NWIS
- Awareness seminars in pilot countries



National components

1. **Preparation phase** (done JO & partly TN, ongoing for MA):
 - ❑ Analysis and strengthening of institutional framework
 - ❑ Data management analysis
 - ❑ Terms of Reference for setting up a national IS
 - ❑ Setting up a project coordination unit
2. **System development** (ongoing for TN1):
 - ❑ Equipment and software development
 - ❑ Strengthening monitoring networks or data collection (when necessary)
 - ❑ Local capacity building
 - ❑ Interoperability with other systems, external data integration
3. **System operation:**
 - ❑ Maintenance and telecom operation
 - ❑ Revision of sectorial planning documents based on NWIS deliveries
 - ❑ Dataflow improvements for processing indicators
 - ❑ Technical assistance for systems operation
 - ❑ Assessment of benefits for national and regional partners

Enhancement of NWIS in pilot countries:

- **Morocco**
- **Tunisia** (2 phases)
- **Jordan**
- **Lebanon**

Regional component 3

Demonstrating international reporting data flows services

1. Development of tools and data flows for the Shared Water Resources data base of Arab countries

- Content to be defined

2. Data flows for MedPol, e.g.

- Pollution loads discharged to rivers, loads in rivers and diffuse pollution

3. Data flows for MSSD water indicators, e.g.

- Water efficiency index
- Added value of irrigated agricultural production compared to water demand for irrigation
- Exploitation index of renewable natural resources

Activities

- 1. Specification of data flows**
- 2. Agreement on with data providers when necessary**
- 3. Implementation**
- 4. Test & validation**
- 5. Impact assessment**

Expected results (phases 1 & 2)

- **Operational NWIS in Jordan, Lebanon, Morocco and Tunisia, enabling inter-institutional data sharing on various Water Resources areas within the countries for IWRM.**
- **Data base of water resources shared between Arab Countries**
- **A demonstration and assessment of NWIS-based reporting from pilot countries (MedPol, H2020, MSSD, Arab League, and MWPW);**
- **Data component of a water knowledge platform:**
 - ❑ guidelines and tools ready to be applied in other Mediterranean countries, thus reducing costs and time of ownership;
 - ❑ well-trained staff.

MedWIS phase 1 (2014-2016)

R1 Management, regional guidelines, tools and capitalisation	Project engineering and fund raising Support to pilot countries State of play on IWRM indicators Guidelines and tools Project governance agreements
R2 Capacity building	Training sessions Awareness seminars (exchange of experiences)
R3 Data flows for international reporting	Development of a database on shared water resources of Arab countries Preparation of data sharing agreements (when necessary)
N1 NWIS Morocco	Definition study & ToR Data sharing agreements; Tendering, 1st part implementation and training
N2 NWIS Tunisia	Implementation of NWIS 1 st phase Definition of the extension for full IWRM planning (2 nd phase)
N3 NWIS Lebanon	Definition study of Lebanese NWIS & ToR Data sharing agreements; Tendering
N4 NWIS Jordan	Definition study of Jordan NWIS & ToR Tendering & 1st part implementation

Budget overview phase 1 2013-2016

Regional components

➤ 1 300 000 €

Component R1 – Regional guidelines, tools, support to pilot countries and capitalization	860 000
Component R2: Capacity Building at regional level	300 000
Component R3: Data flows for international reporting	140 000

National components

➤ 4 925 000 €

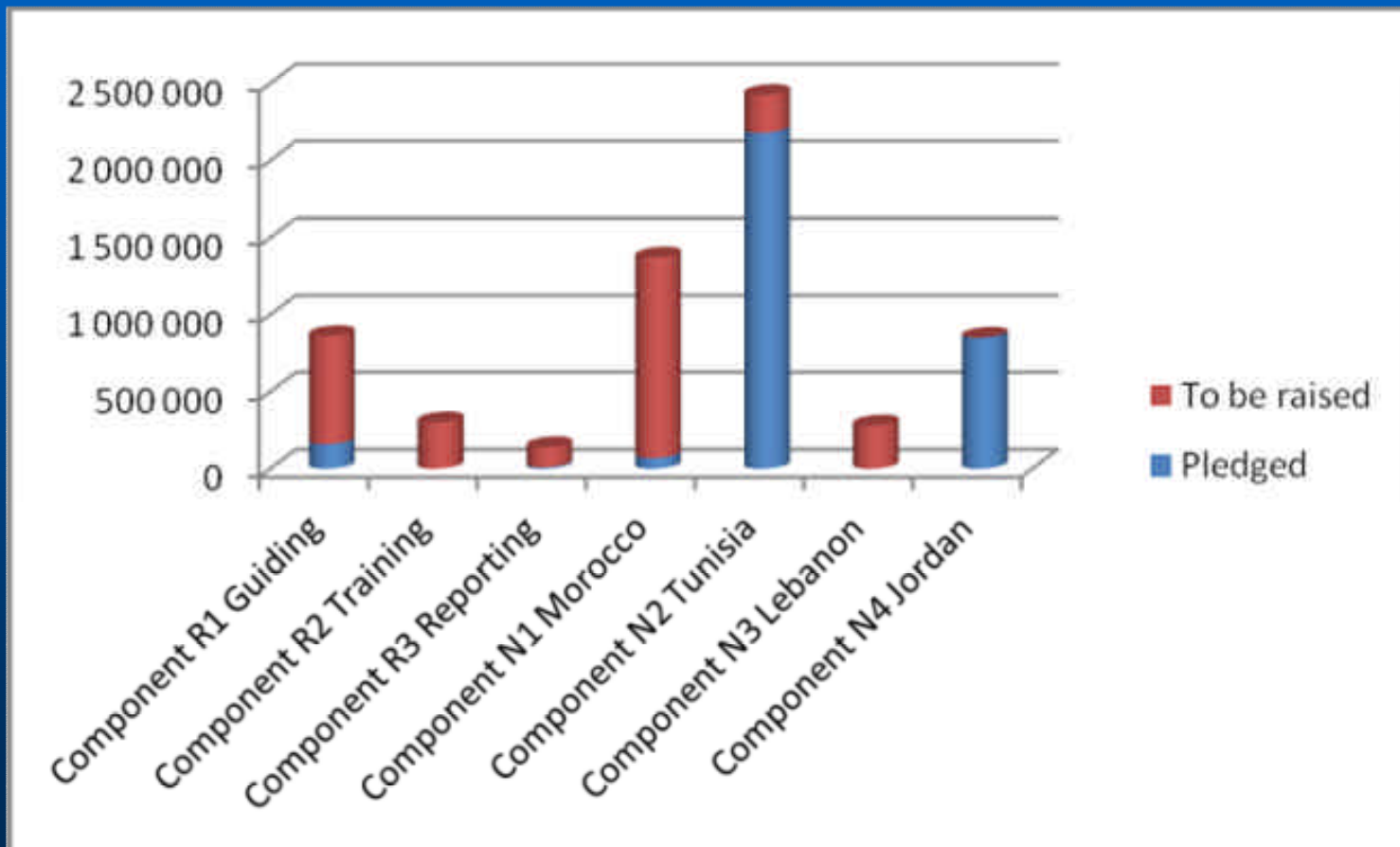
Component N3 – NWIS Morocco	1 370 000
Component N3 – NWIS Tunisia	2 425 000
Component N3 – NWIS Lebanon	280 000
Component N4 – NWIS Jordan	850 000



Total

➤ 6 225 000 €

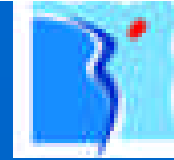
Fund raising status Phase 1





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Thank You!

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