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Technical and financial feasibility studies of National Water Information Systems in Mediterranean Countries

Presentation Topics

- Objectives
- Methodology
- Project Progress
- Remaining activities

Overall objective is

- To carry out feasibility studies of National Water Information Systems (NWIS) in a maximum of 12 Mediterranean Countries involved in EMWIS.

Countries included in the study

- Algeria
- Cyprus
- Israel
- Jordan
- Lebanon
- Malta
- Morocco
- Palestine
- Tunisia
- Turkey

- Starting date 1/4/2005
- Ending date 30/1/2006

Specific objectives

- Carry out independent analysis of national needs and requirements, including:
 - Existing and planned water information systems
 - Identification of information providers and necessary collaborations
 - Knowledge of end-users
 - Organisation of the NFP and its information system as part of the NWIS
- Defining a set of technical, financial and organisational recommendations and a roadmap towards the improvement or the implementation and operation of a NWIS

EMWIS started in 1999 with the main objective; “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: is the information provided by participating countries.



The input from countries is not as smooth , frequent or harmonized as required



EMWIS believes it is caused by unavailability of efficient NWIS



EMWIS wants to initiate first step (needs assessment) for development of NWIS



Motivate Countries and donor agencies to finance NWIS implementation

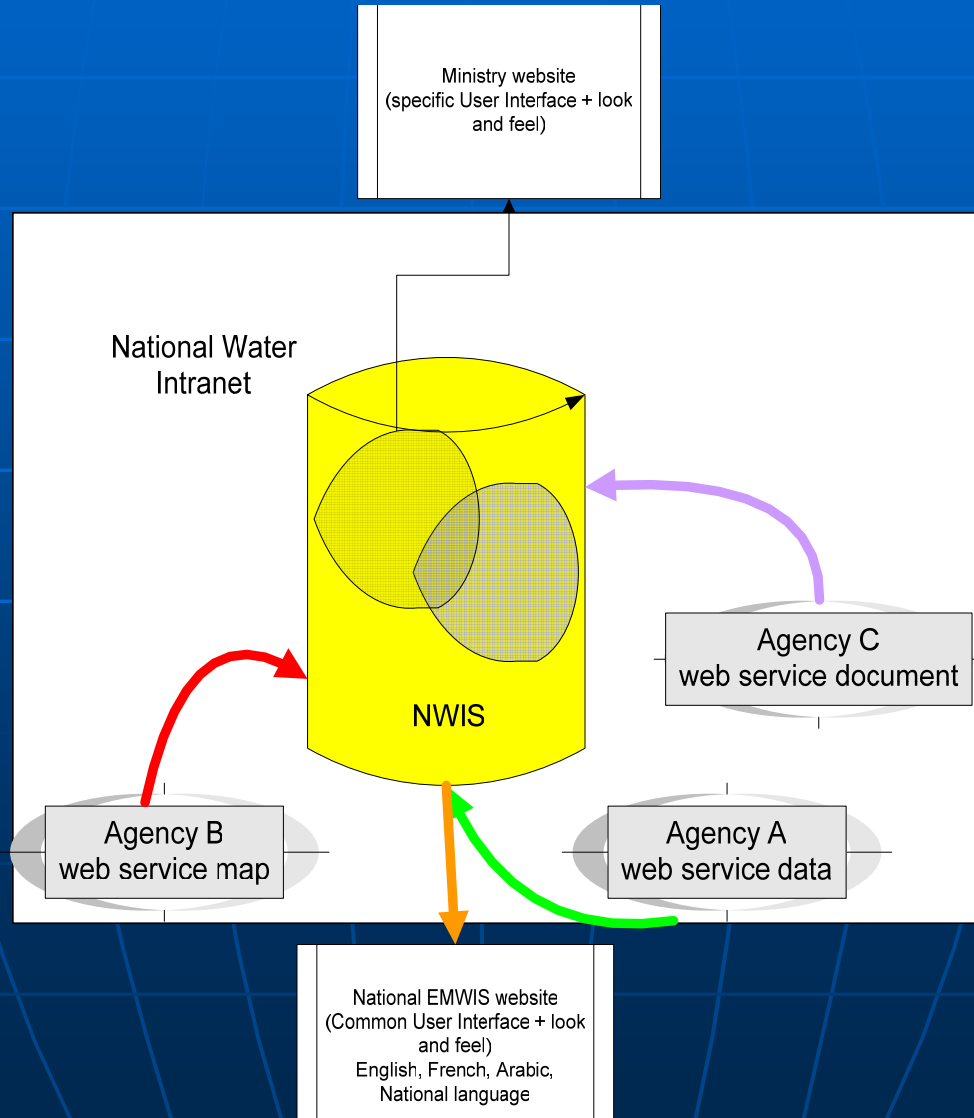
Expected results

Result 1: Assess current situation in the participating countries

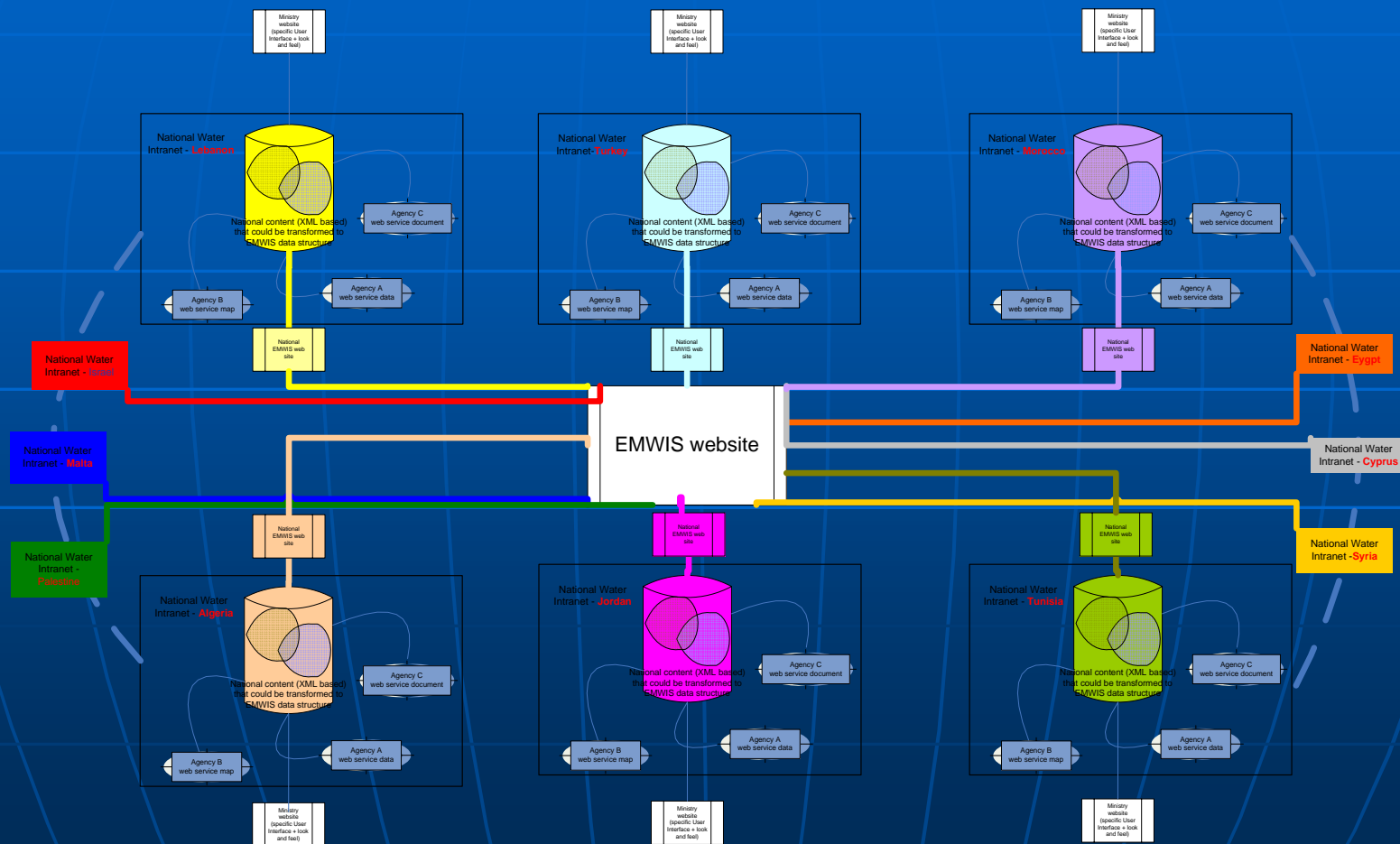
Result 2: Recommend road map for NWIS enhancement or development with cost estimate

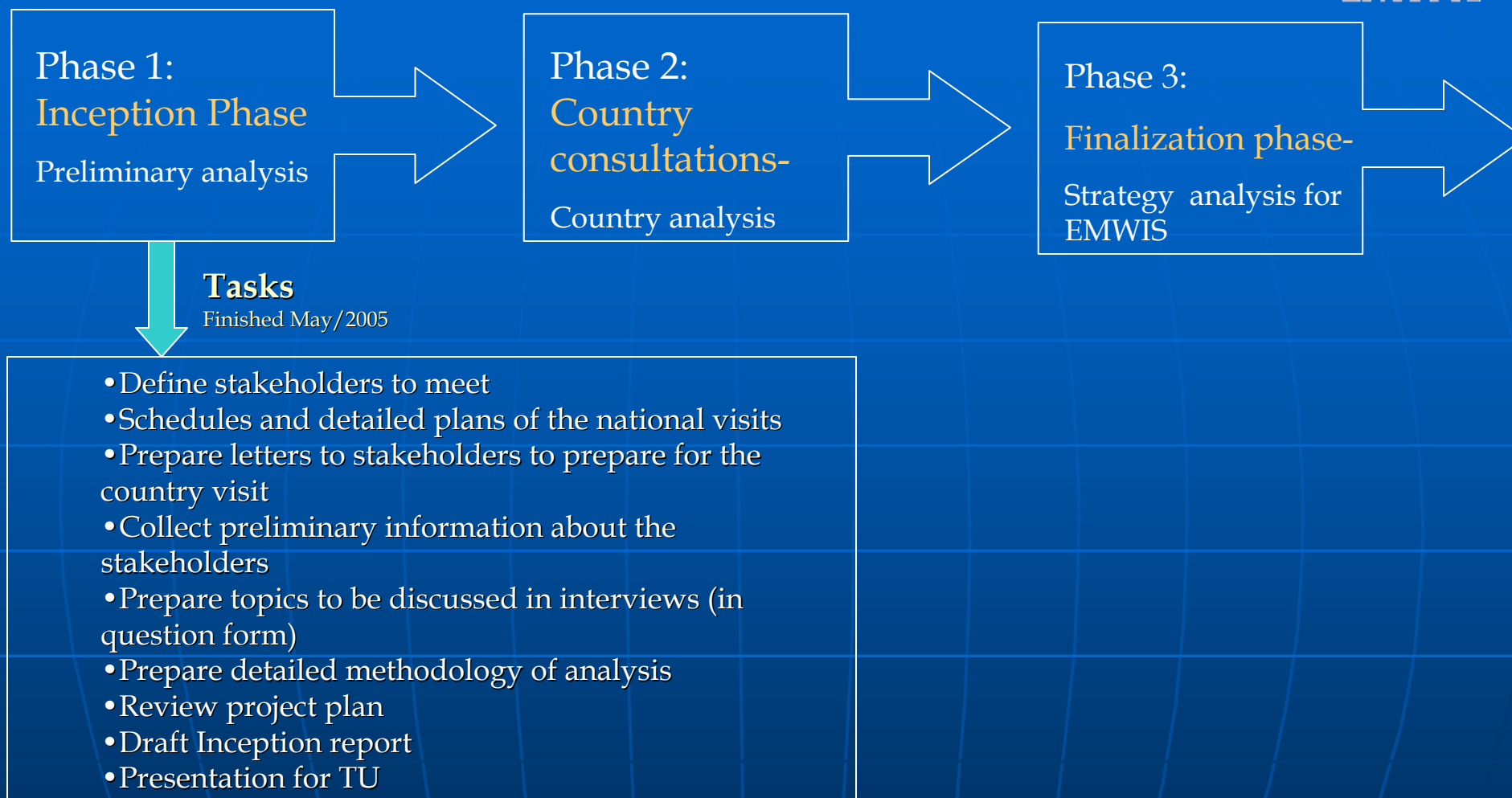
Result 3: Compile all findings and recommend to EMWIS steps to enhance , smooth and harmonize data sharing between NWIS_EMWIS.

NWIS



EMWIS vision of the NWIS –EMWIS relationship



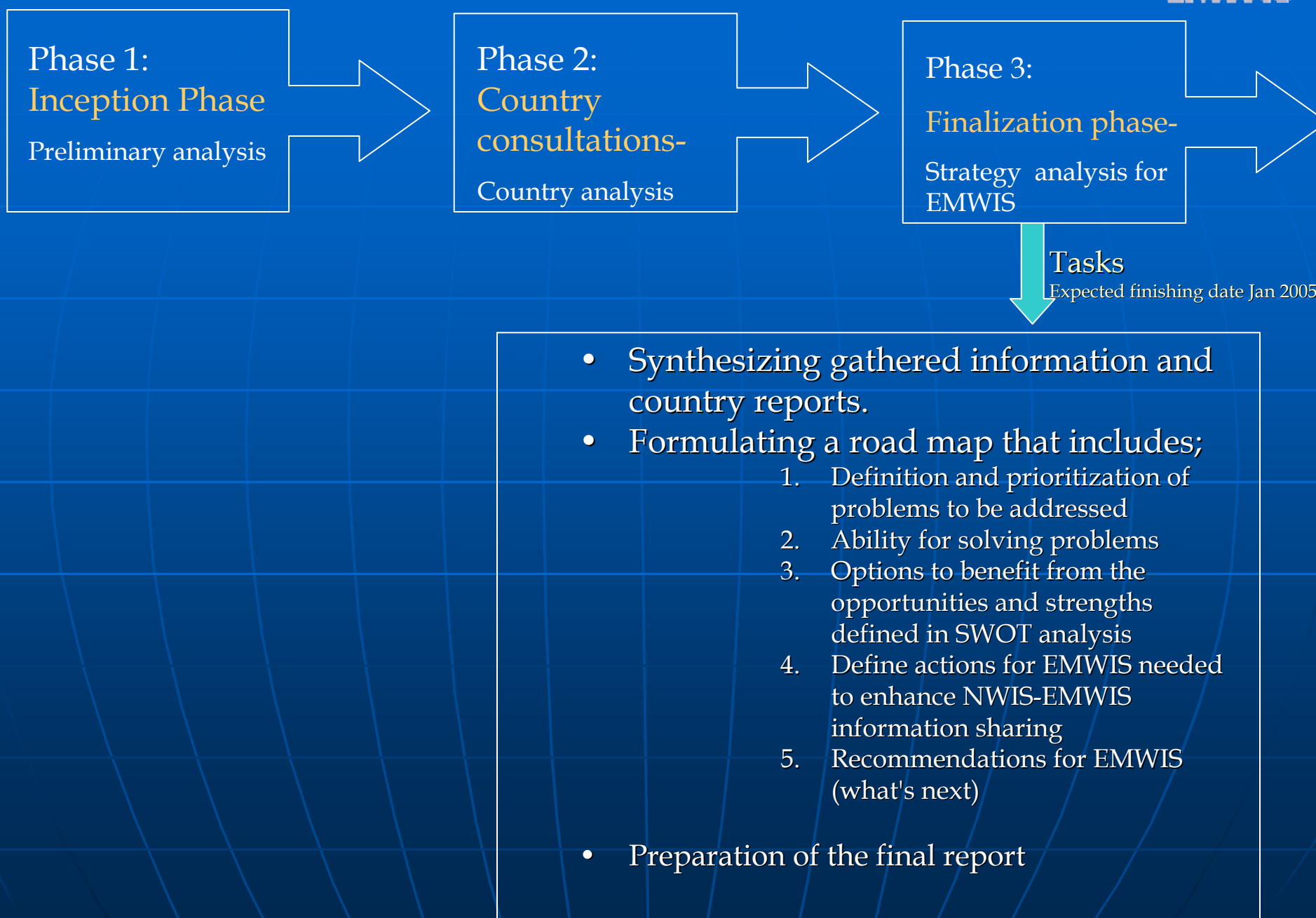




Tasks

Expected finishing date
November 2005

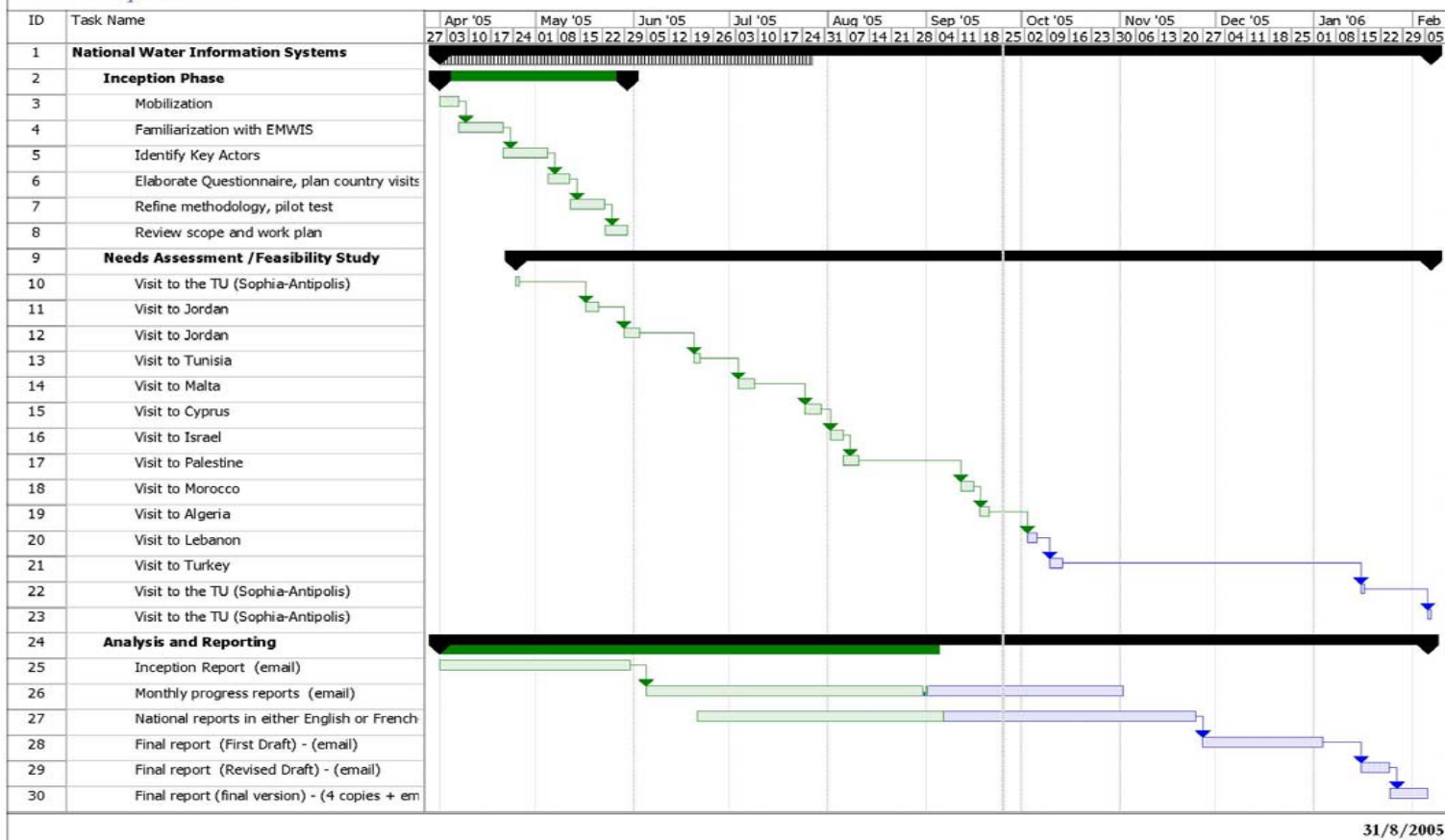
- **Conduct the country visits**
 1. Meeting with the NFP
 2. Meeting with stakeholders of water Information
 3. Focus group meeting
- **Perform Analysis which include:**
 1. Available and planned systems, providers, users, available information and information flow
 2. Analyze stakeholders roles, interests, concerns and difficulties in exchanging information (SH analysis matrix)
 3. Perform SWOT analysis
 4. Relationships between stakeholders (Venn diagrams)
 5. Define difficulties (problems) and build a problem tree
 6. Identify the added value and benefits of a NWIS for the stakeholders
 7. Envisioned NWIS system
 8. Assessment of NFP capacity to manage a NWIS (Spider diagram)
 9. Cost estimation of envisioned system
- **Prepare a country report and send to TU, report includes:**
 1. All the analysis
 2. Road map for implementation
 3. Conclusions and recommendations



Study Progress

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Advanced Computer Services

Technical & Financial feasibility Studies
of National Water Information Systems (SEMIDE-NWIS2004)



Remaining Activities

- Country visits to Lebanon and Turkey (October)
- Synthesizing gathered information and country reports.
- Preparation of the final report

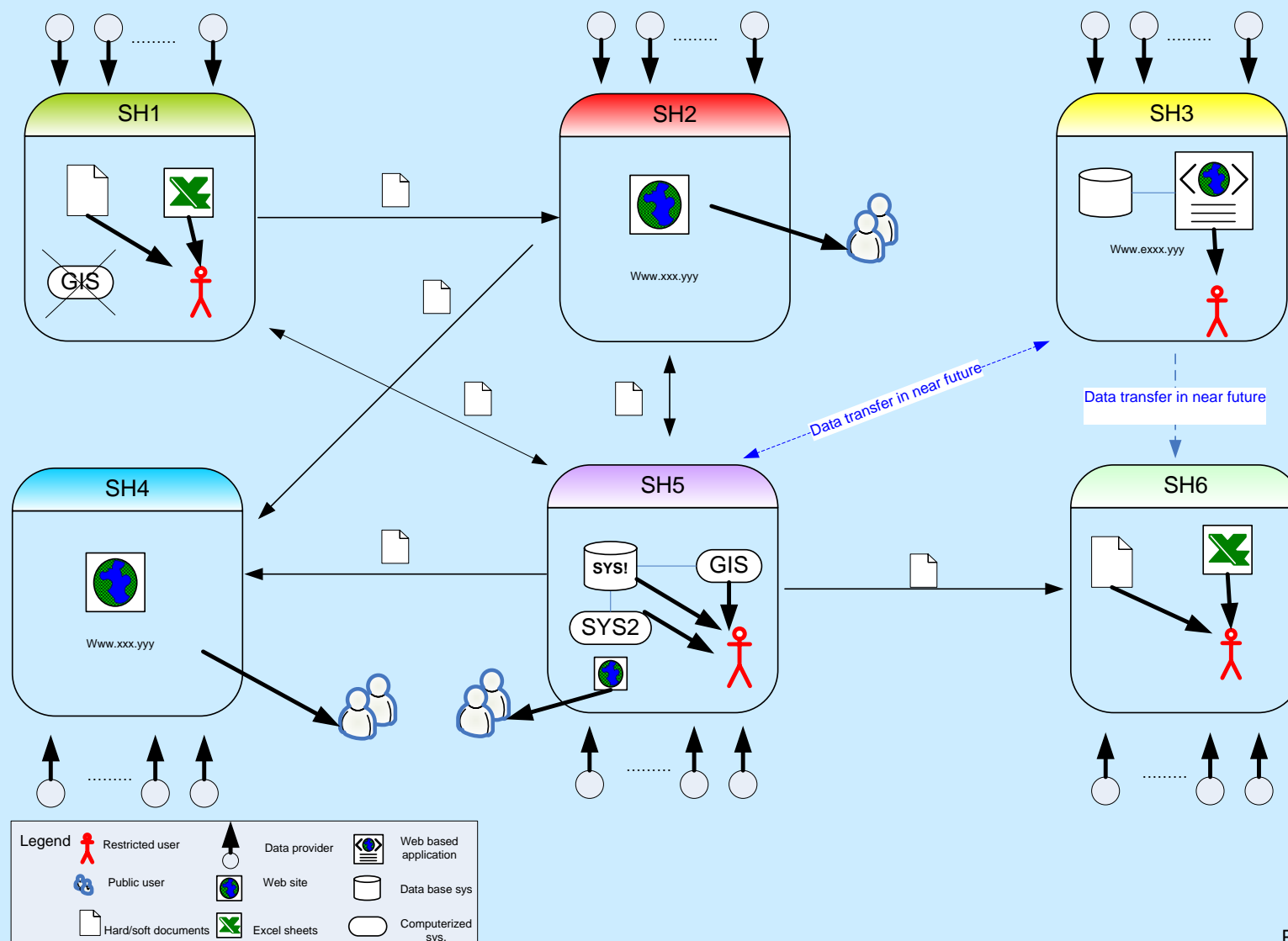
General Findings

- Most countries visited don't have a NWIS
- Most countries are willing to establish a NWIS but need technical and financial support
- Algeria has a NWIS
- Tunisia are in the study phase for developing NWIS
- Cyprus will start developing a NWIS under an EU project by the end of 2005.
- EMWIS is known to stakeholders in the countries where an in-country awareness campaign was held.
- Some countries have a WIS that can serve as a core for NWIS
- All countries have difficulties in exchanging info internally

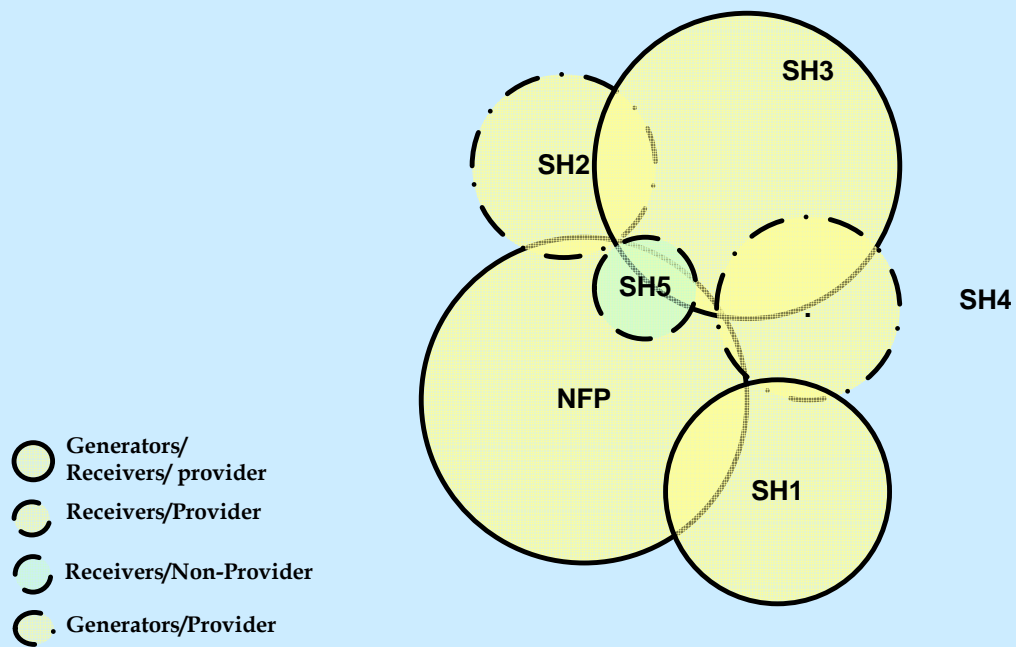
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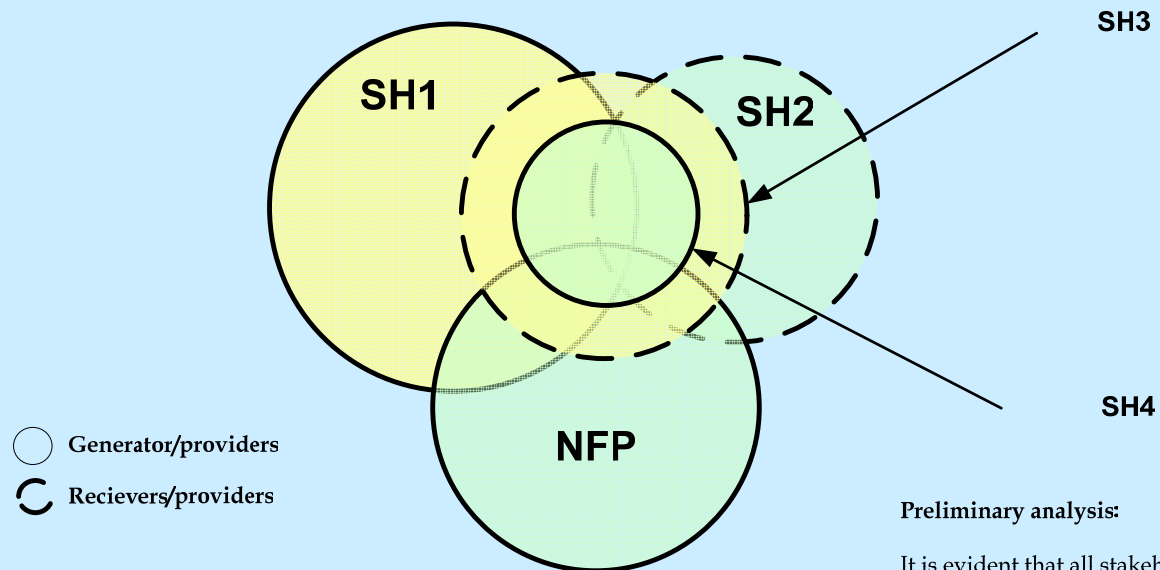
Current situation of water information data flow and systems



Venn Diagrams for NWIS Stakeholder Relationships



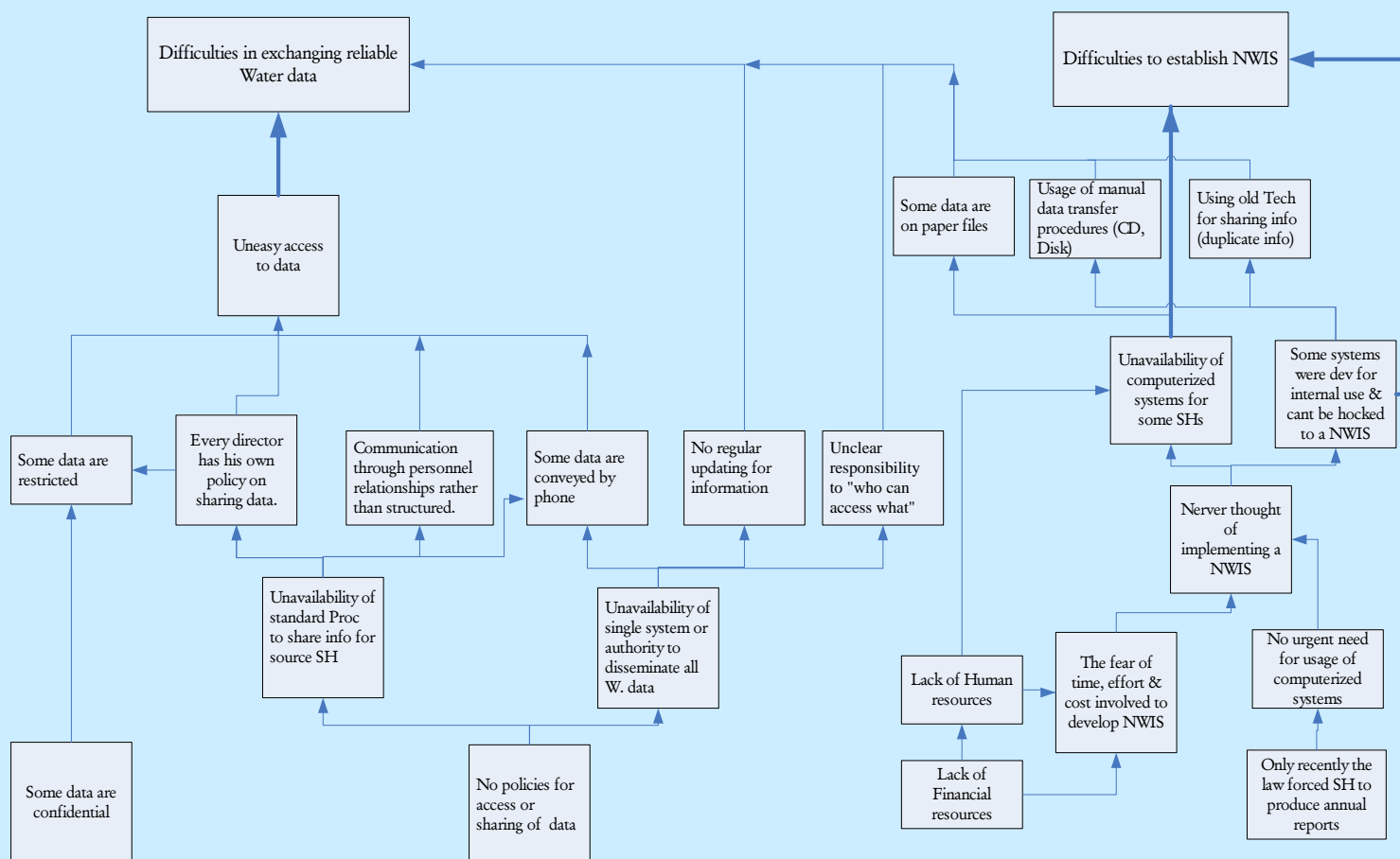
Venn Diagrams for NWIS Stakeholders Relationships



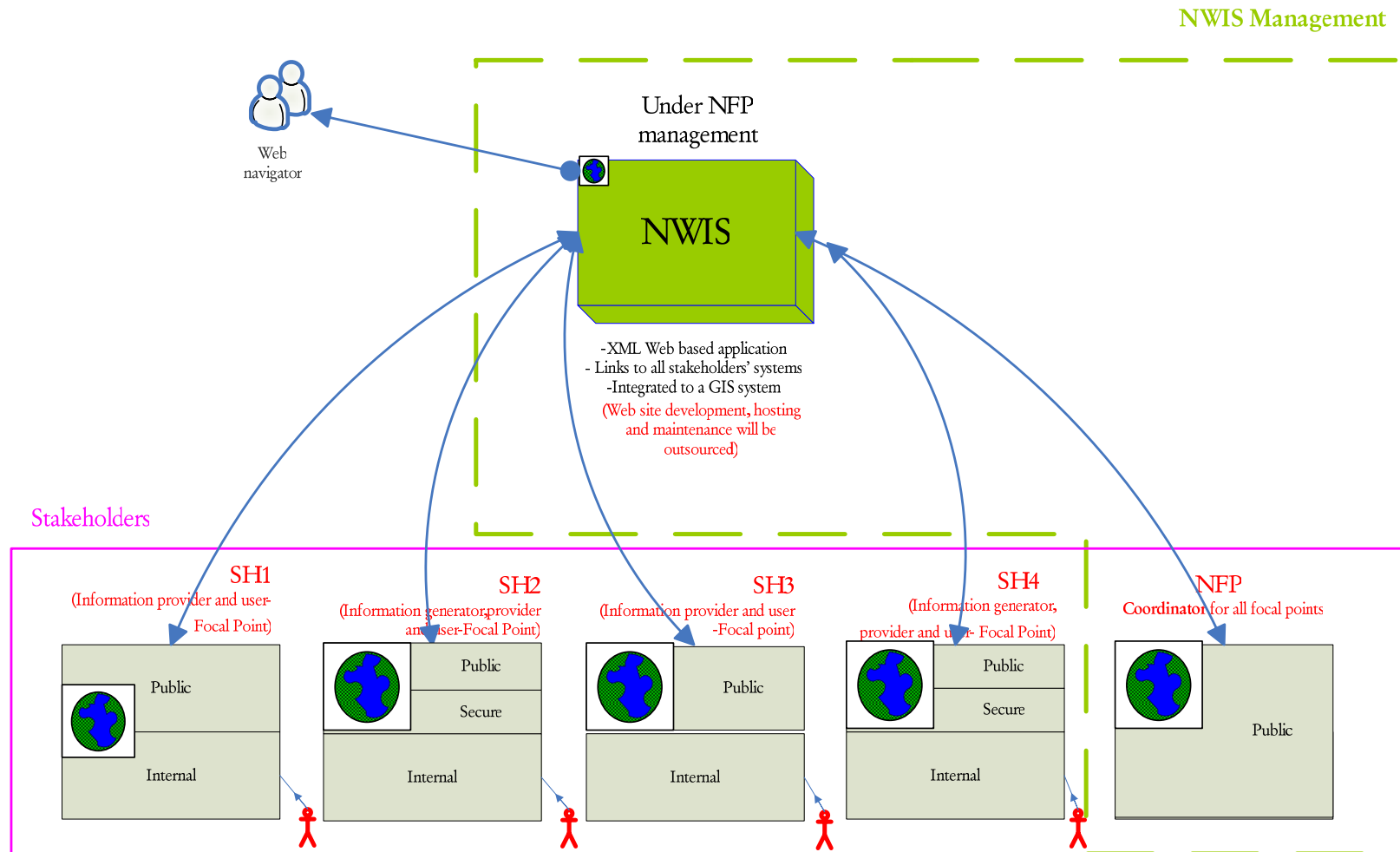
Preliminary analysis:

It is evident that all stakeholders exchange data with each other, hence multiple intersections exist.

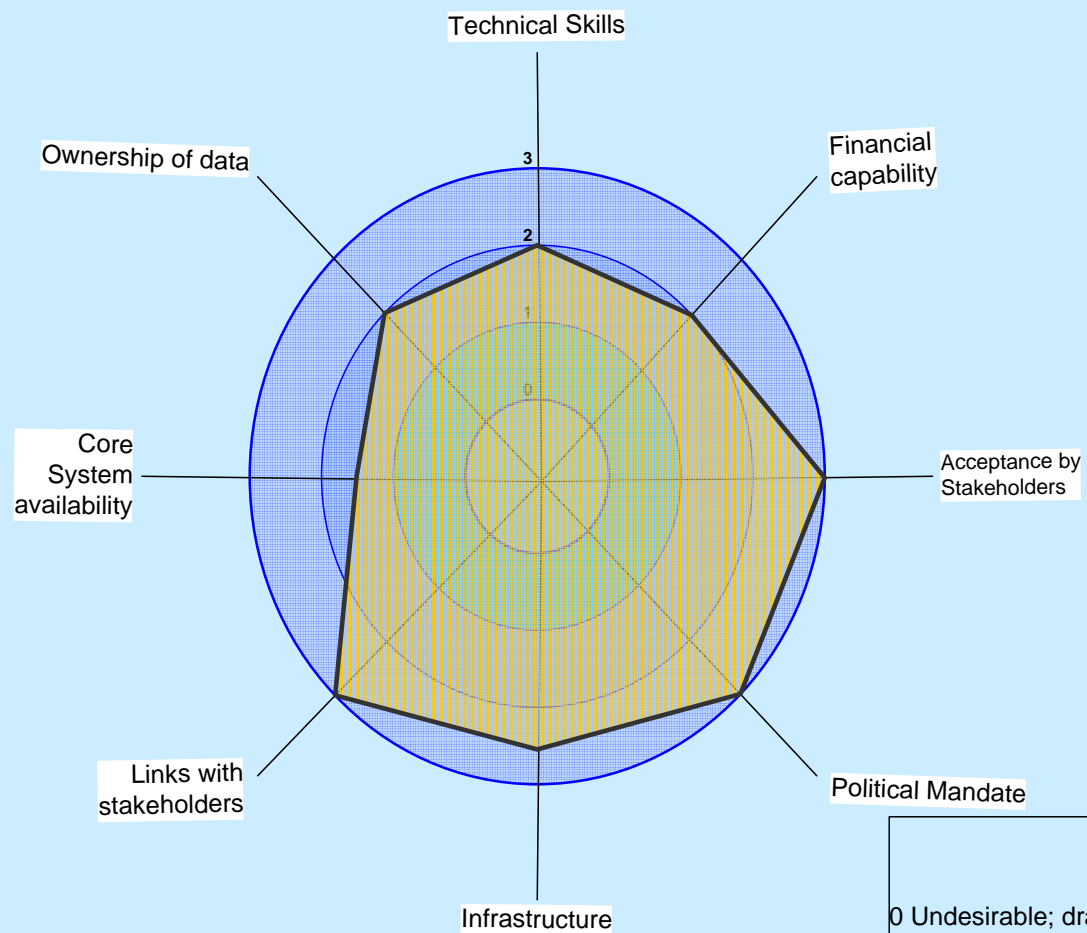
Problem Tree Analysis for Water Information



Envisioned NWIS



Spider diagram of organizational capacity of EMWIS NFP

**Legend**

- 0 Undesirable; dramatic improvement needed
- 1 Poor situation, significant room for improvement
- 2 Satisfactory; some scope for improvement
- 3 Highly effective, but with minor improvement