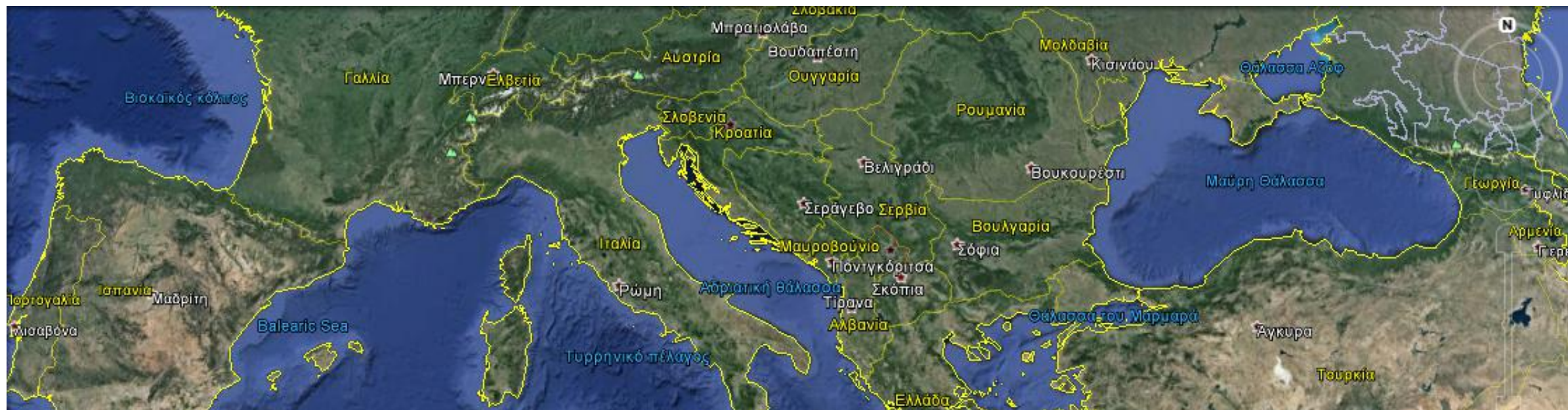


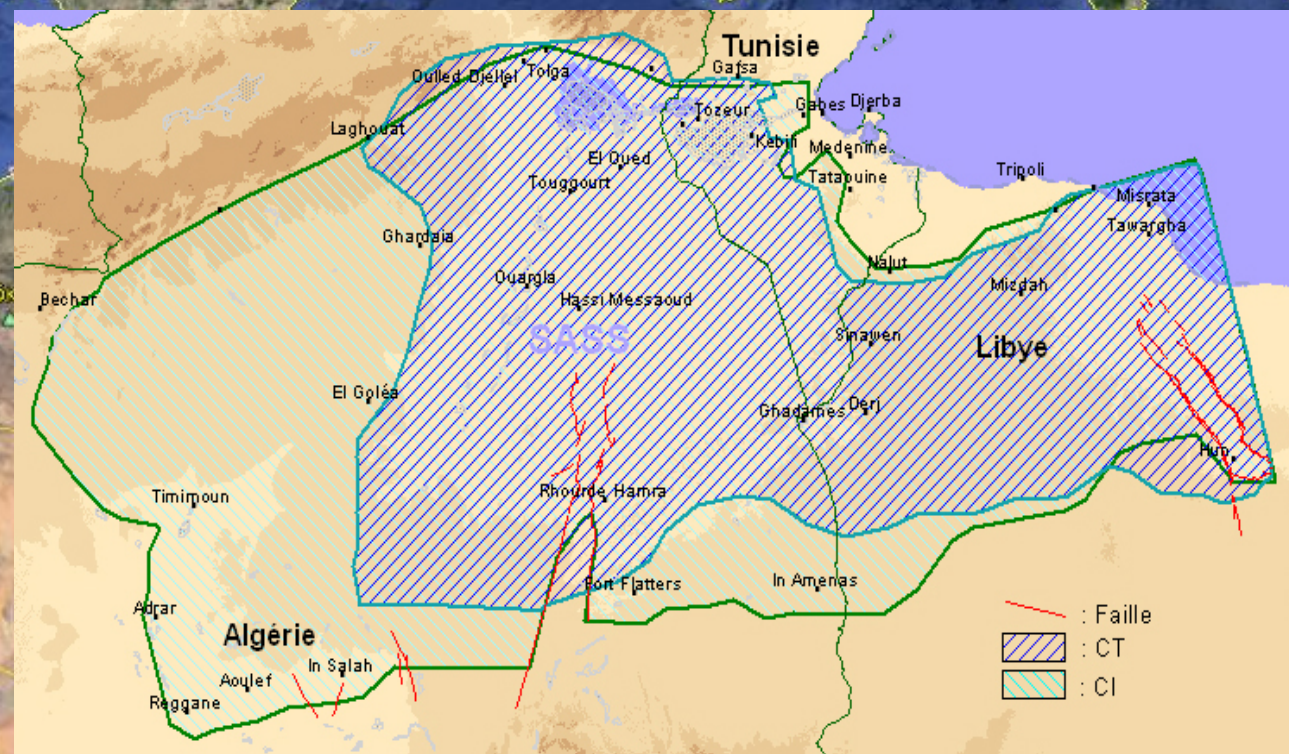
Dimitris Faloutsos  
Head, South East Europe  
Team leader TWRM, Nexus

a water secure world

# Enhancement of cooperation in the North-West Sahara Aquifer System using the Nexus approach



Water  
ship  
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## Background and outlook

- Tunisia proposed assessing NWSAS in response to the call by UNECE in early 2013
- Meeting of the Steering Committee of the NW SASS (Algeria, 20-21 Nov. 2013) - SASS Countries :
  - requested the preparation of an Institutional Analysis to be used for the enhancement of cooperation for the management of the NW SASS
  - Supported the preparation of a Nexus assessment [Letter of Support regarding the Nexus assessment sent from Tunisia (April 2014) and Libya (March 2014)]

## Background and outlook

- Consortium set up: GWP-Mediterranean (lead)-UNECE-OSS-KTH
- Confirmation of funding from SIDA being waited for
- The scope and focus of Nexus assessment to be defined with the countries sharing the aquifer through a participatory process

- Aim

- Objective

- Activities



- Aim

- Objective

- **Activities**



1. Nexus assessment.
2. Development of a strategic shared vision for the management of the NWSAS reflecting the needs and aspirations of the countries and stakeholders of different sectors using water resources.
3. Identification of institutional options at the transboundary level, in terms of mandate and organisational settings, for the enhanced cooperation among countries for the management of the NWSAS.

- Aim

- Objective

## ❖ Activities - Overall Project

- Nexus  
Assessment
- Shared Vision
- Enhancement  
of Cooperation

• Aim

• Objective

❖ Activities -  
Overall Project

- Nexus  
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Facilitate the sustainable management of the North-West Sahara Aquifer System (NWSAS).

- Aim

- Objective

❖ Activities -  
Overall Project

- Nexus  
Assessment

- Shared Vision

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of Cooperation

Facilitate the sustainable management of the North-West Sahara Aquifer System (NWSAS).

Enhance the policy-related process and facilitate the establishment of cooperation arrangements that will enable the management of the NWSAS at the transboundary level.

# Nexus Assessment - The context and potential issues that could be investigated (to be discussed)

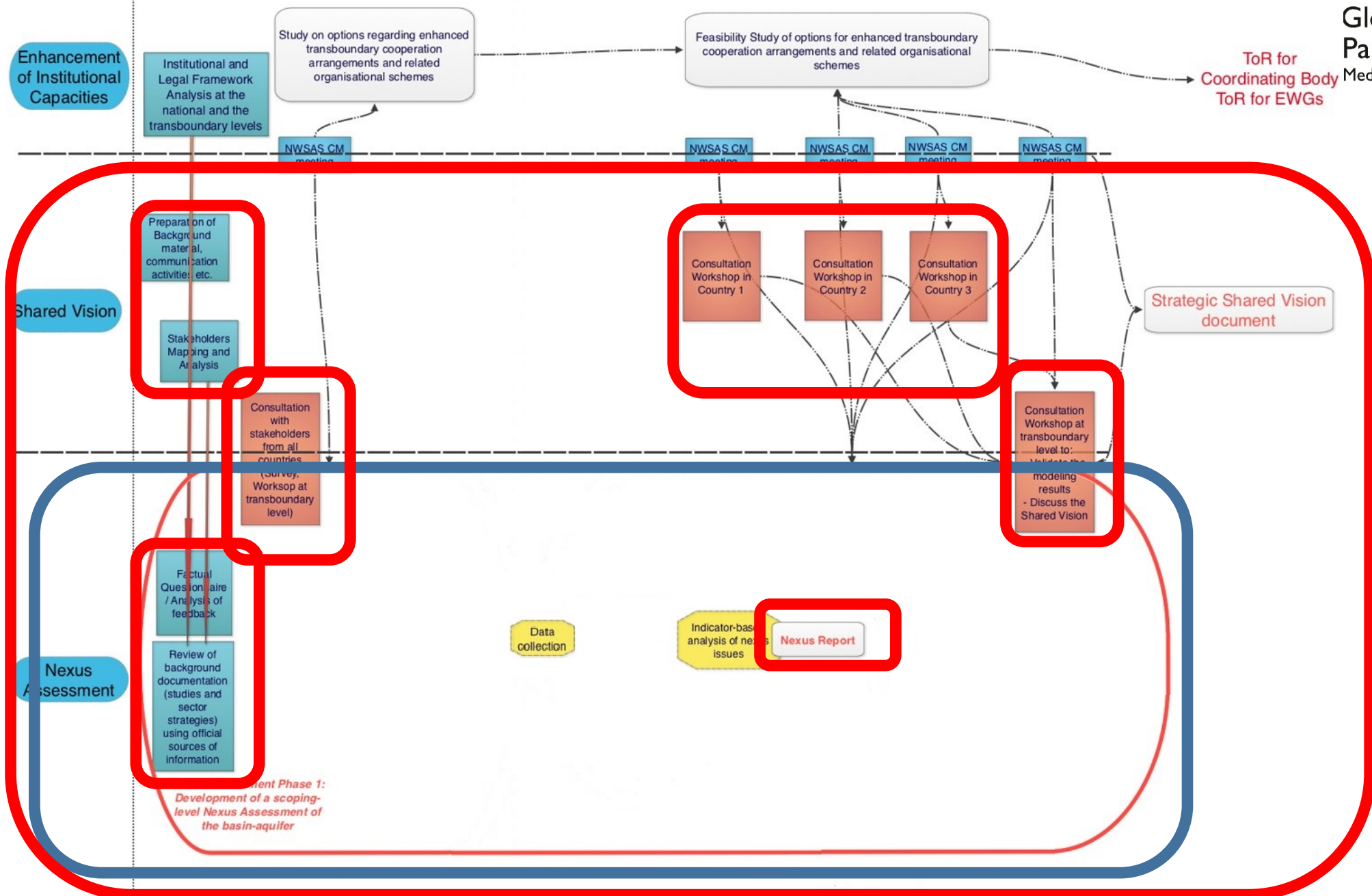
- Situation: groundwater abstractions are double the estimated renewal rates; Risks from **abstraction, water quality, salinization, soils degradation** and dependent ecosystems. Further **water scarcity** due to climate change and increased irrigation requirements
  - Considerations/opportunities: a better matching of **water quality** and use; advantages and limitations of using solar power; **energy requirements** for pumping of groundwater and energy needs for desalinization; options for improving the **viability of agriculture**
- > **assessing the trends under different developmental scenarios as means towards optimal use of natural resources for sustained growth.**

## Nexus Assessment - objectives

- Mapping the characteristics of the sectors/resources (e.g. for agriculture its water and energy intensity, local versus export orientation, mechanization etc.)
- Assessing the current status of the linkages/benefits/trade-offs across the sectors of water, energy, food, ecosystems.
- Mapping the existing relevant policies of individual sectors concerned and assess their integration and coherence.
- Propose preliminary solutions.

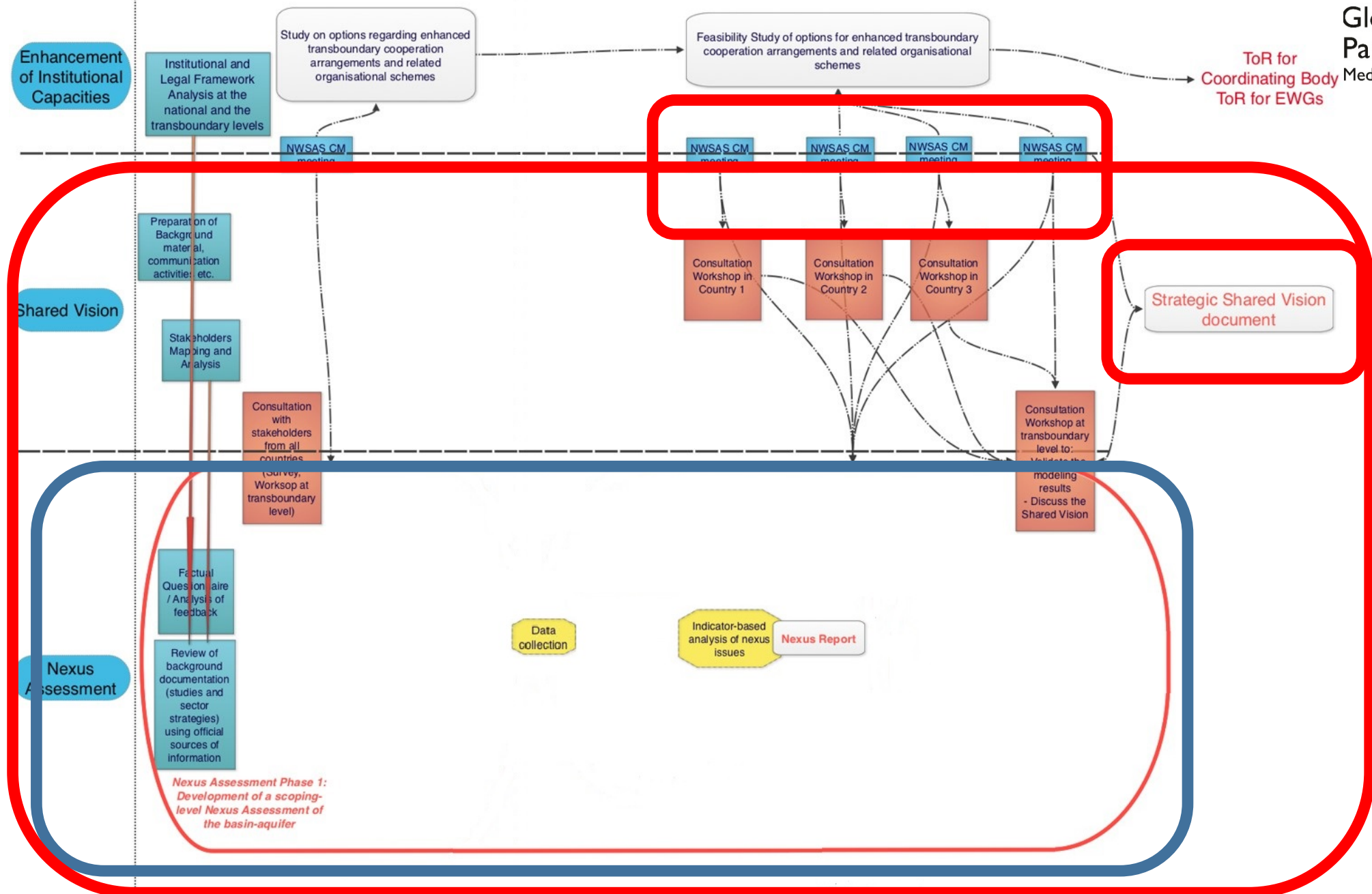
# Enhancement of Cooperation in the North-West Sahara Aquifer System (NWSAS)

Global Water  
Partnership  
Mediterranean

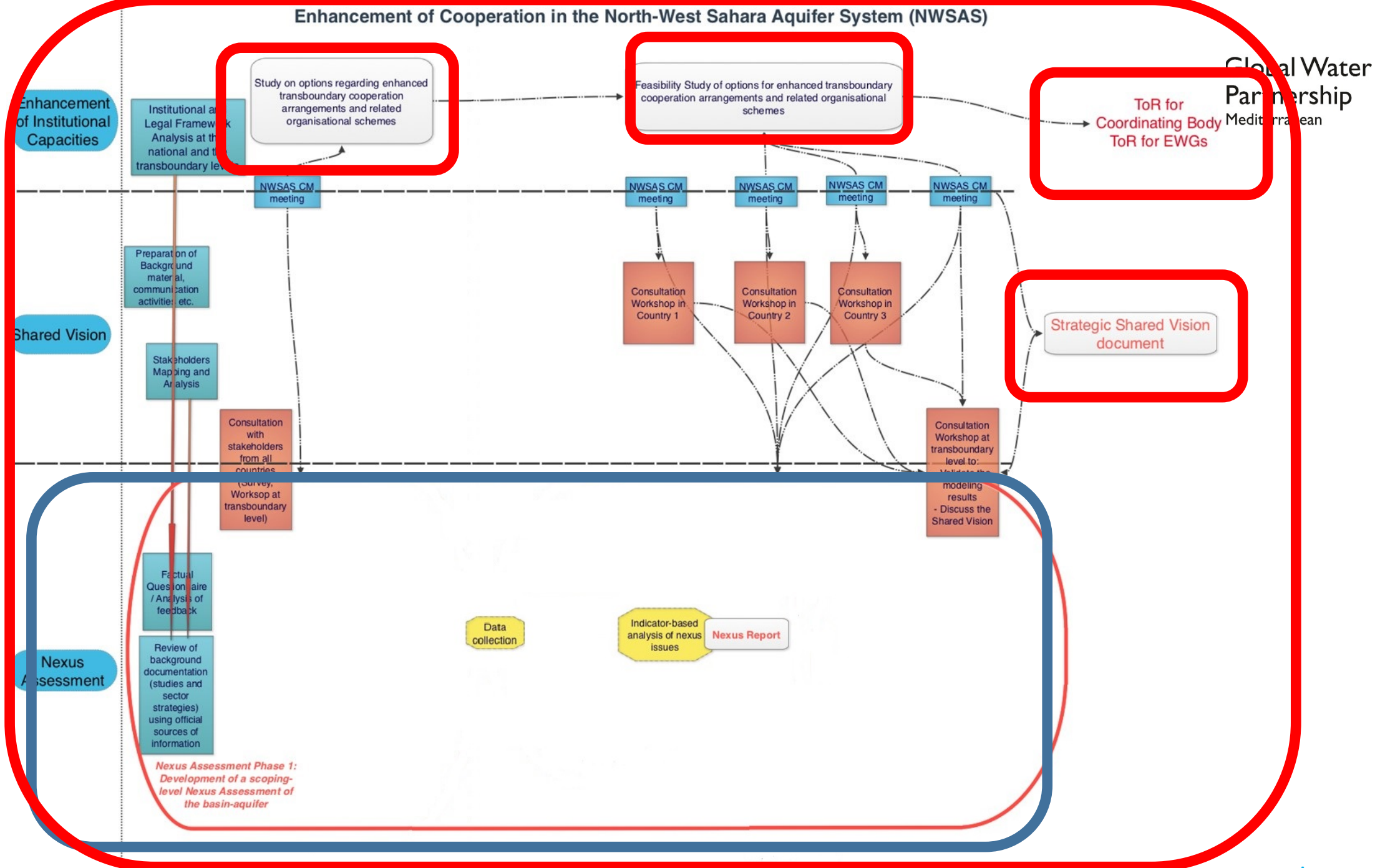


# Enhancement of Cooperation in the North-West Sahara Aquifer System (NWSAS)

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# Enhancement of Cooperation in the North-West Sahara Aquifer System (NWSAS)



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