



المجلس العربي للمياه



Arab Water Council



JASAD - NSAS

NWRC



5<sup>th</sup> WORLD WATER FORUM  
ISTANBUL 2009



BRIDGING  
DIVIDES  
FOR WATER



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Thematic Sessions - Topic 3.1:

“Basin Management and Trans-boundary Cooperation”

Session 3.1.4: “What are the operational tools that allow achieving transboundary cooperation and sound basin management?”

“Management of Shared Aquifer Systems”

Keynote Speaker

Prof. Dr. Ahmed Khater

Vice-President, National Water Research Center  
(NWRC), Egypt.

Istanbul, Turkey  
16 - 22 March 2009



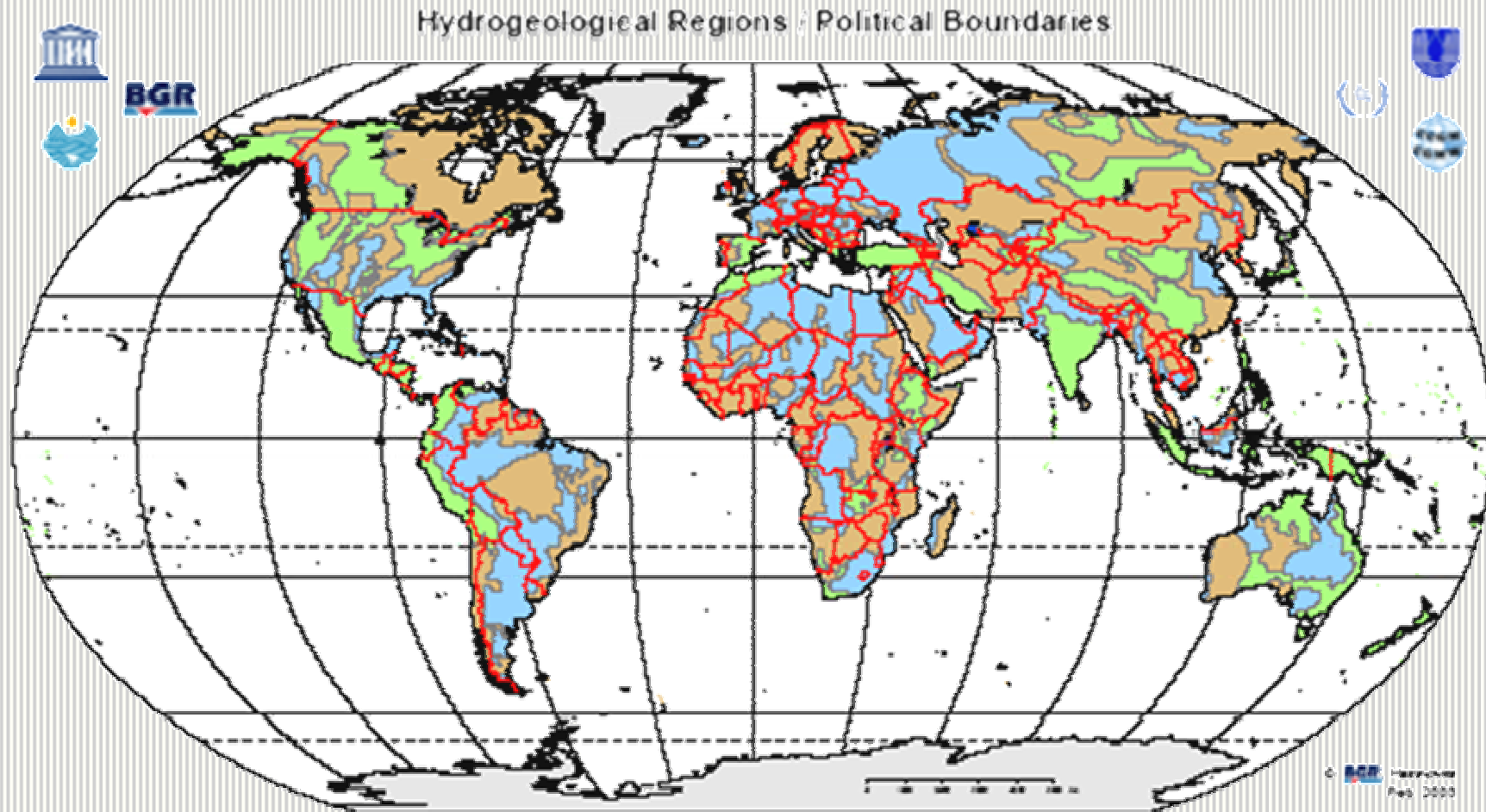
## Intervention addressing

### "Management of Shared Aquifer Systems"

#### *Points of Perception and Deliberation*

- ◆ **Shared Aquifers and Transboundary Cooperation**
- ◆ **Joint Management Frameworks**
- ◆ **The Nubian Sandstone Aquifer System  
Regional Experience**

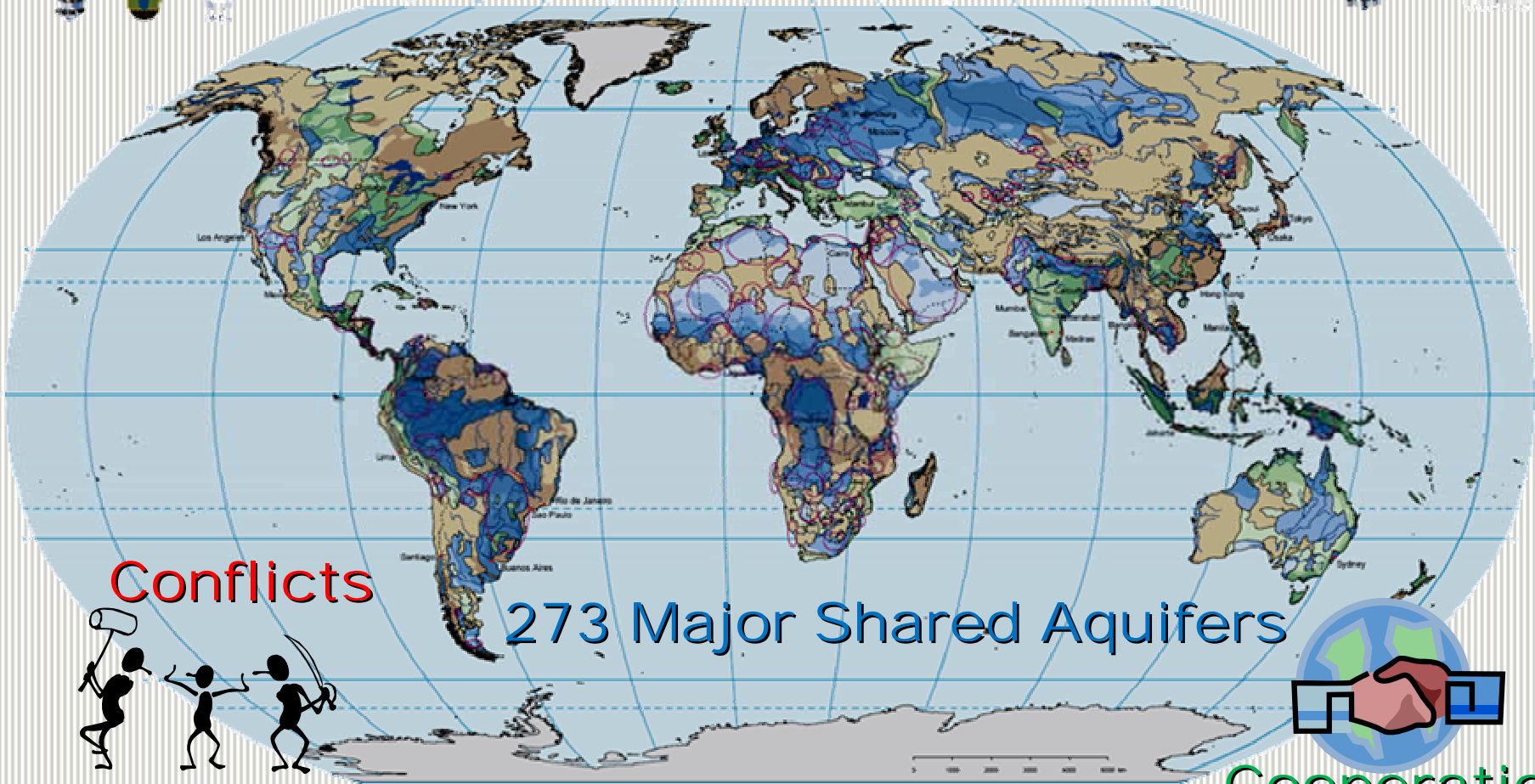
# 1- Shared Aquifers and Transboundary Cooperation



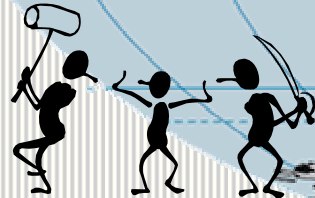
**Water ignores political boundaries**

# Groundwater Resources of the World

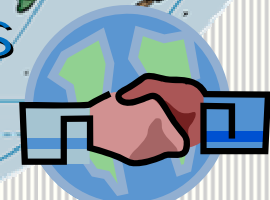
Transboundary Aquifer Systems



**Conflicts**



273 Major Shared Aquifers



**Cooperation**

◆ Transboundary cooperation is imperative for the sound management of shared aquifers.



## 2- Joint Management Frameworks

**Worldwide limited experience regarding international legal and institutional operational tools for shared aquifers**

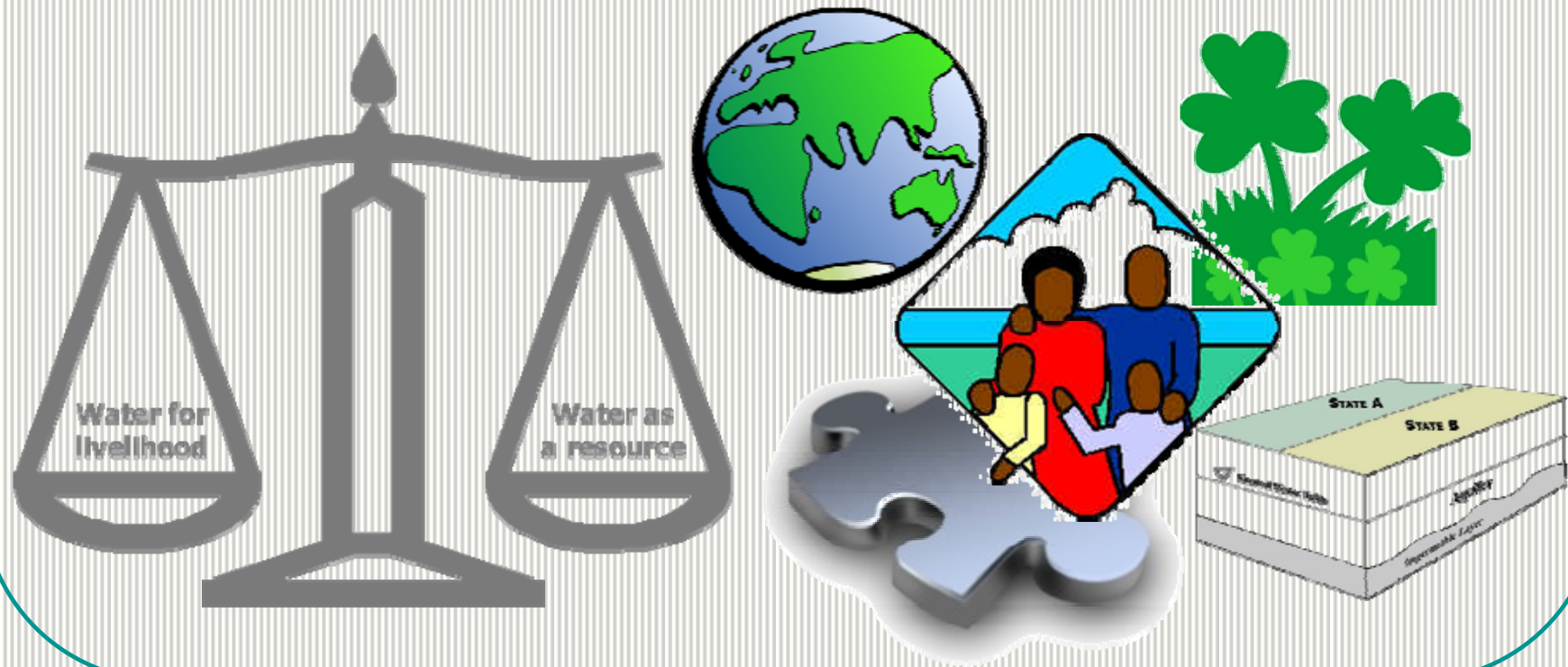


**National Policies may have to be adjusted.**



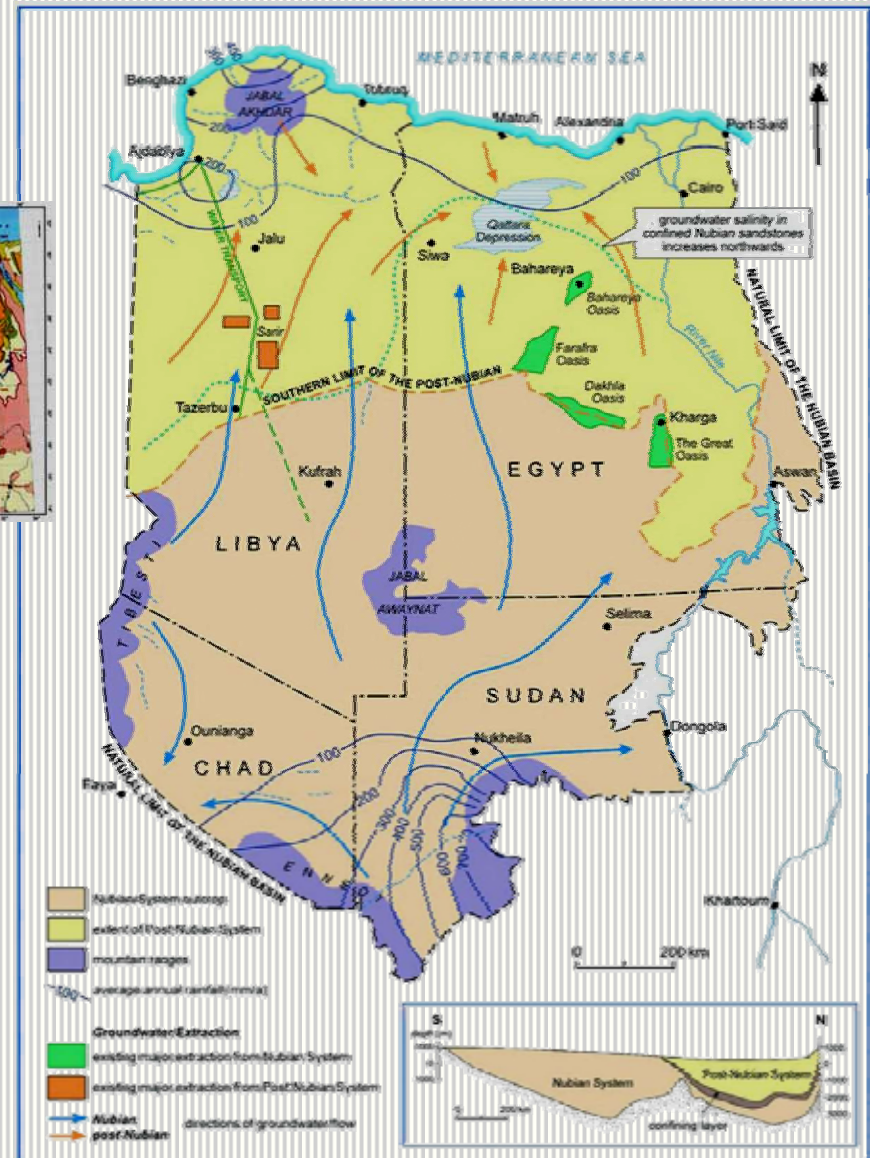
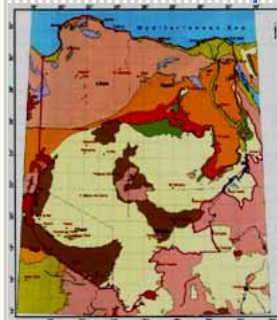


- ◆ Frameworks for the management of shared aquifers should jointly integrate technical, legal, institutional, socio-economic and environmental aspects.





# 3- Nubian Sandstone Aquifer System Regional Experience



### 3- Nubian Sandstone Aquifer System Regional Experience

- ◆ **The four NSAS countries have already embarked on a process to cooperate that has been formalized in 1992 with establishing the Joint Authority for the Study and Development of the Nubian Sandstone Aquifer (JASAD/NSAS).**
- ◆ **The NSAS transboundary cooperation mechanism, represented by the Joint Authority, the practice of the countries sharing the aquifer system, and the continuous support from regional and international organizations provide successful example that could be followed in other shared aquifer systems.**





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**Thank You**

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