



# Nuclear Safety and Security: A Network Proposal for Arab Countries


Daw Mosbah  
Arab Atomic Energy Agency

[dmosbah@aaea.org.tn](mailto:dmosbah@aaea.org.tn)



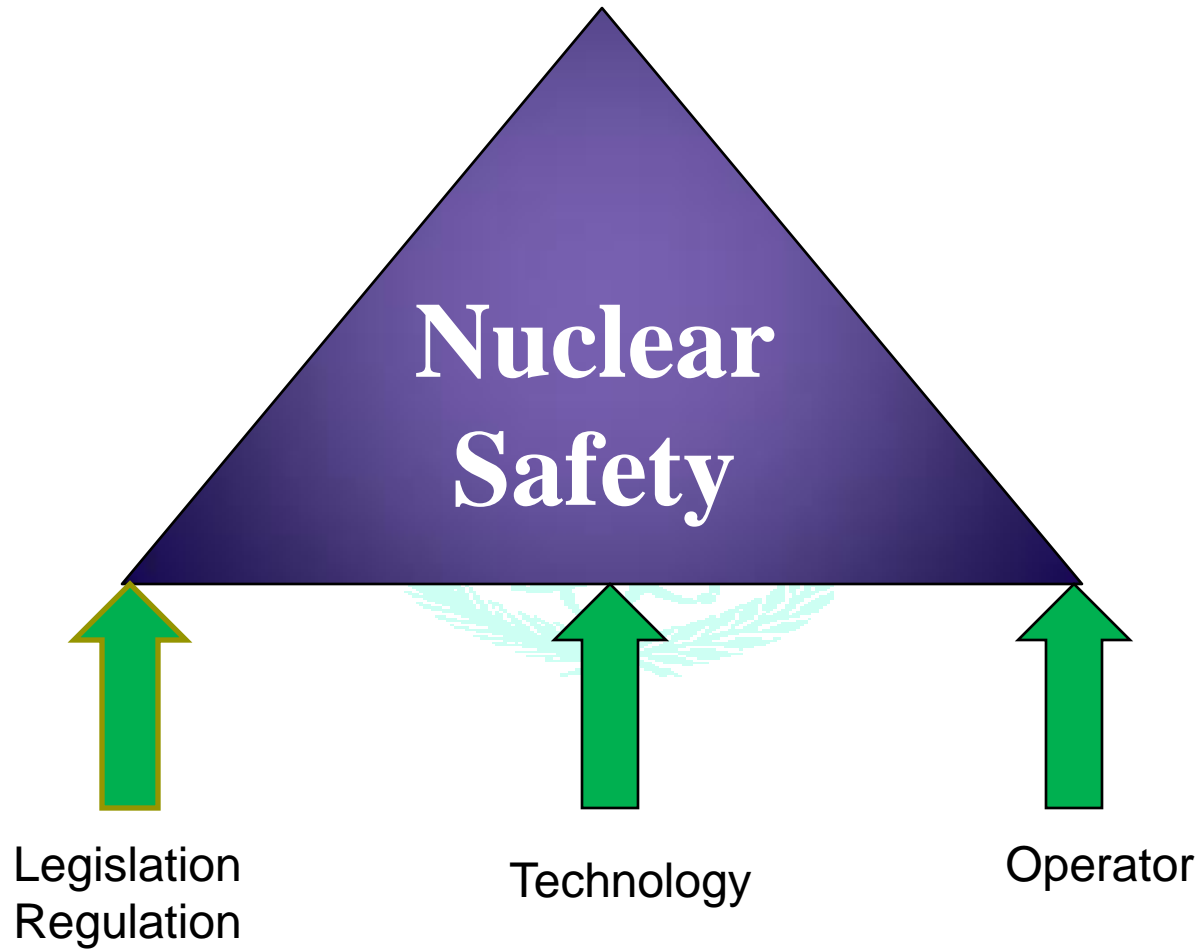
# RIGHTS AND OBLIGATIONS

All states have the right to acquire nuclear technologies for peaceful utilisation for socio economic development, but it is their responsibility to do it **right**



# Globalization of S&S

- Nuclear safety & security are a global issue.
- “Accident anywhere is an accident everywhere”
- There are many instruments for achieving high level of nuclear S & S on a global basis, such as international nuclear S&S related conventions, IAEA safety standards and guides, safety review services provided by the IAEA.
- Continued regional & international cooperation is needed to ensure the safe and secure introduction of nuclear power



- Nuclear safety and radiation protection are the prime responsibility of the operators / licensees.
- The role of regulators is to ensure that this responsibility is fully secured, in compliance with the regulatory requirements



# The Needs

- Arab countries have currently limited nuclear activities and capabilities and there is a clear need for:
  - Development the infrastructures and capabilities for the legislative and regulatory framework, nuclear safety, nuclear security, emergency preparedness and response and radioactive waste management.
  - National infrastructure and capacity building at an institutional, organizational and technical levels to initiate and sustain a safe and secure utilization of nuclear technology and power programmes.
  - Human resources development especially in nuclear safety and security.

- Sharing knowledge, best practices and lessons learned related to SSS matters
- Establishing, developing and sustaining a national regulatory bodies in relation to nuclear safety, and security framework based on the international instruments and the IAEA Nuclear Safety & Security Standards and Guidelines.

***The RB has to be:***

- *Independent, Transparent , Efficient, Reliable, Robust, Competent, Well staffed and funded*

# Need for Networks

- ☞ To ensure that safety and security knowledge, experience, and lessons learned are made visible and available, through links between operators and regulators, and exchanged broadly,
- ☞ To enable and support interaction and collaboration between competent people and organizations.

# Multinational Networks

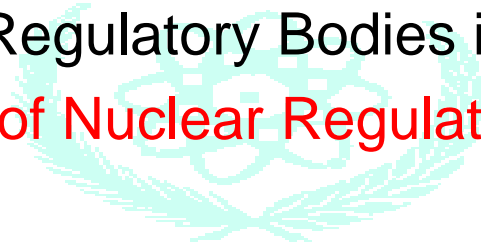
**Purpose:** share common experiences and advice among regulators and operators facing similar problems.

**Examples:**

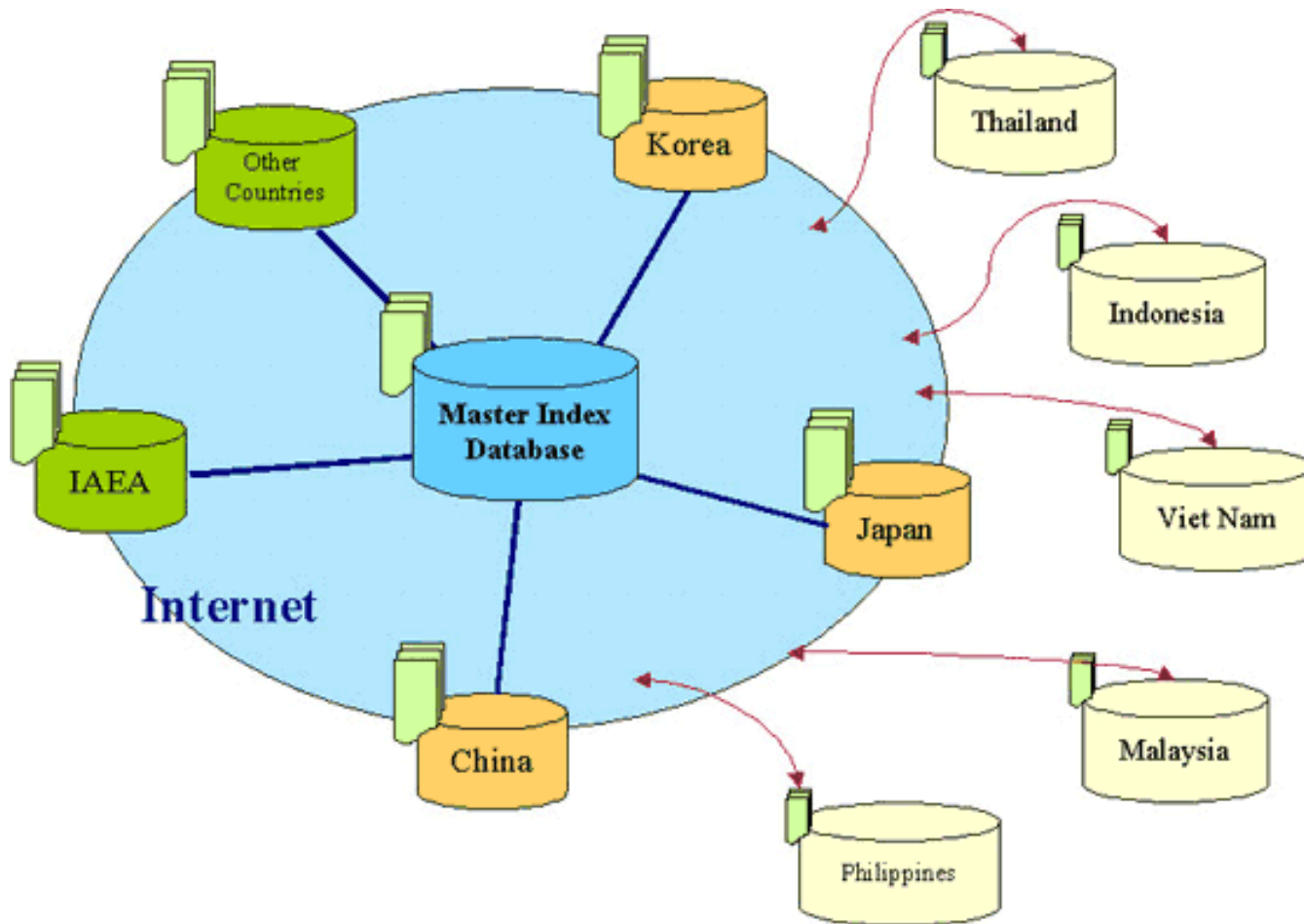
- IAEA Special Support Services
- Global Nuclear Safety and Security Network (GNSSN)
- World Organization of Nuclear Operators (WANO)
- International Nuclear Regulators Association (INRA)
- European Nuclear Safety Regulators Group (ENSREG )
- Western European Nuclear Regulators Association ( WENRA)

# Multinational Networks

- Ibero-American Radiation Safety Network (FORO)
- Network of Regulators of Countries with Small Nuclear Programmes (NERS)
- Asian Nuclear Safety Network (ANSN)
- Asia Pacific Safeguards Network (APSN)
- Forum of Nuclear Regulatory Bodies in Africa ( FNRBA)
- **The Arab Network of Nuclear Regulators (ANNuR)**



# Asian Nuclear Safety Network

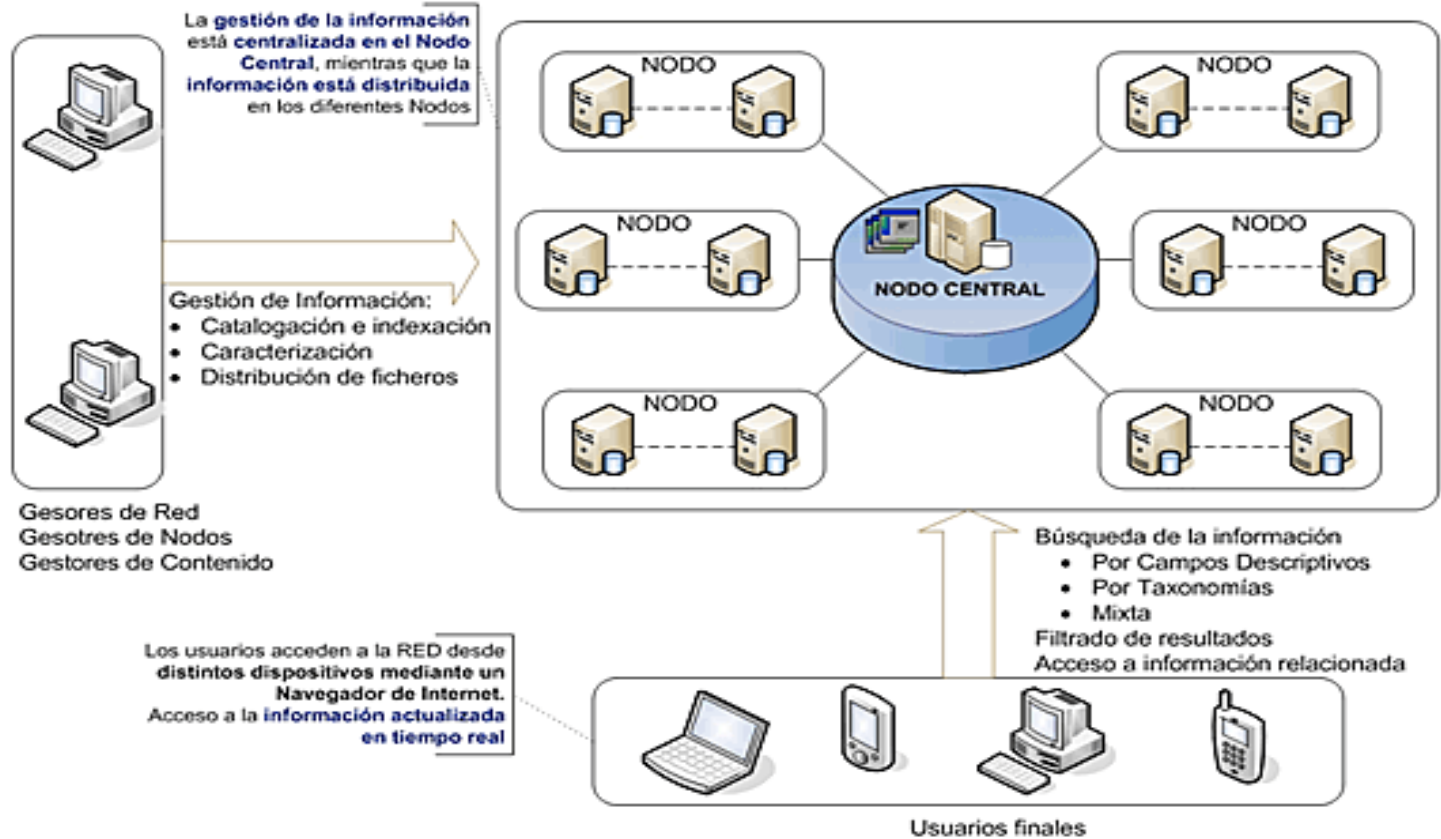


# Ibero-American Radiation Safety Network

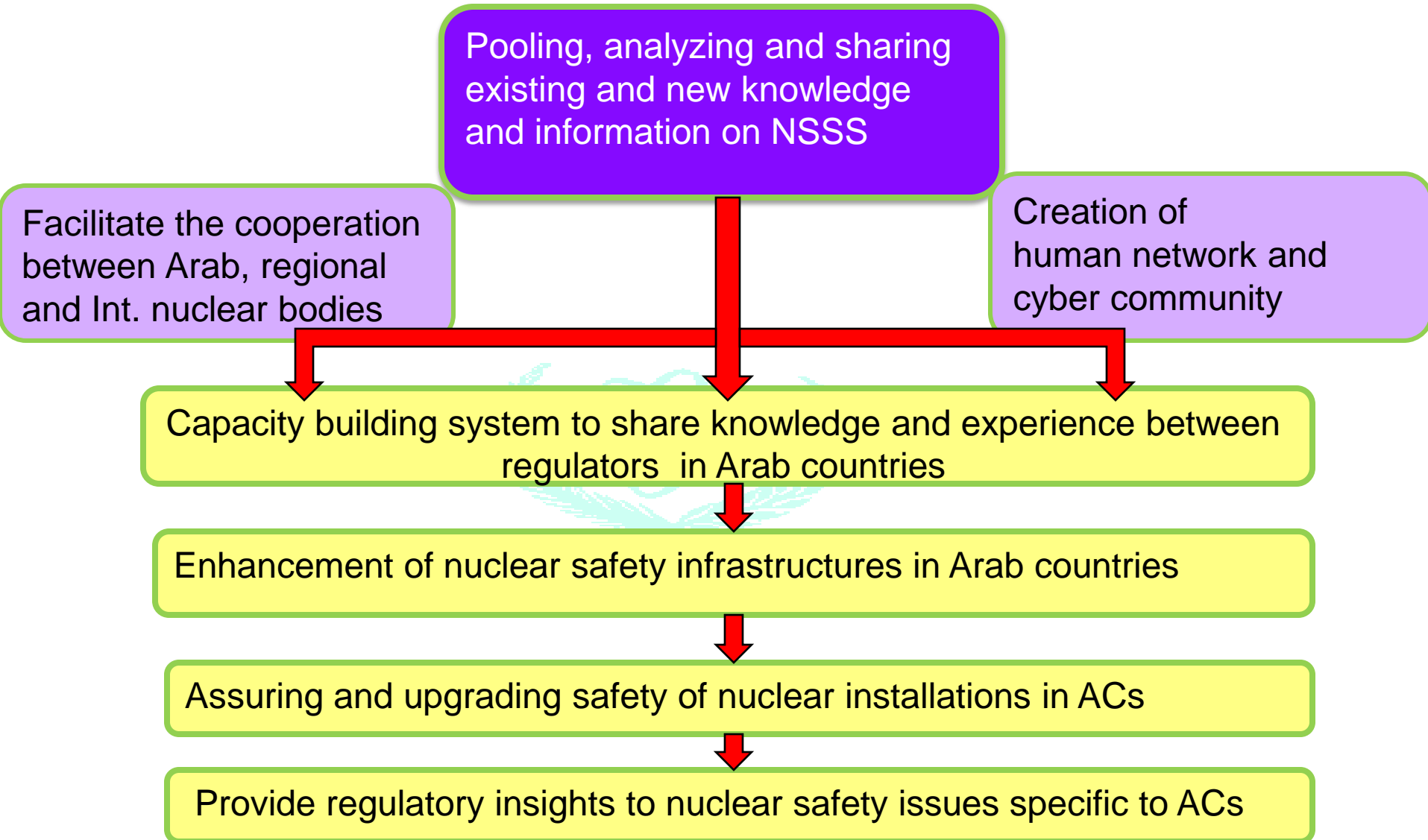


**IAEA**  
International Atomic Energy Agency

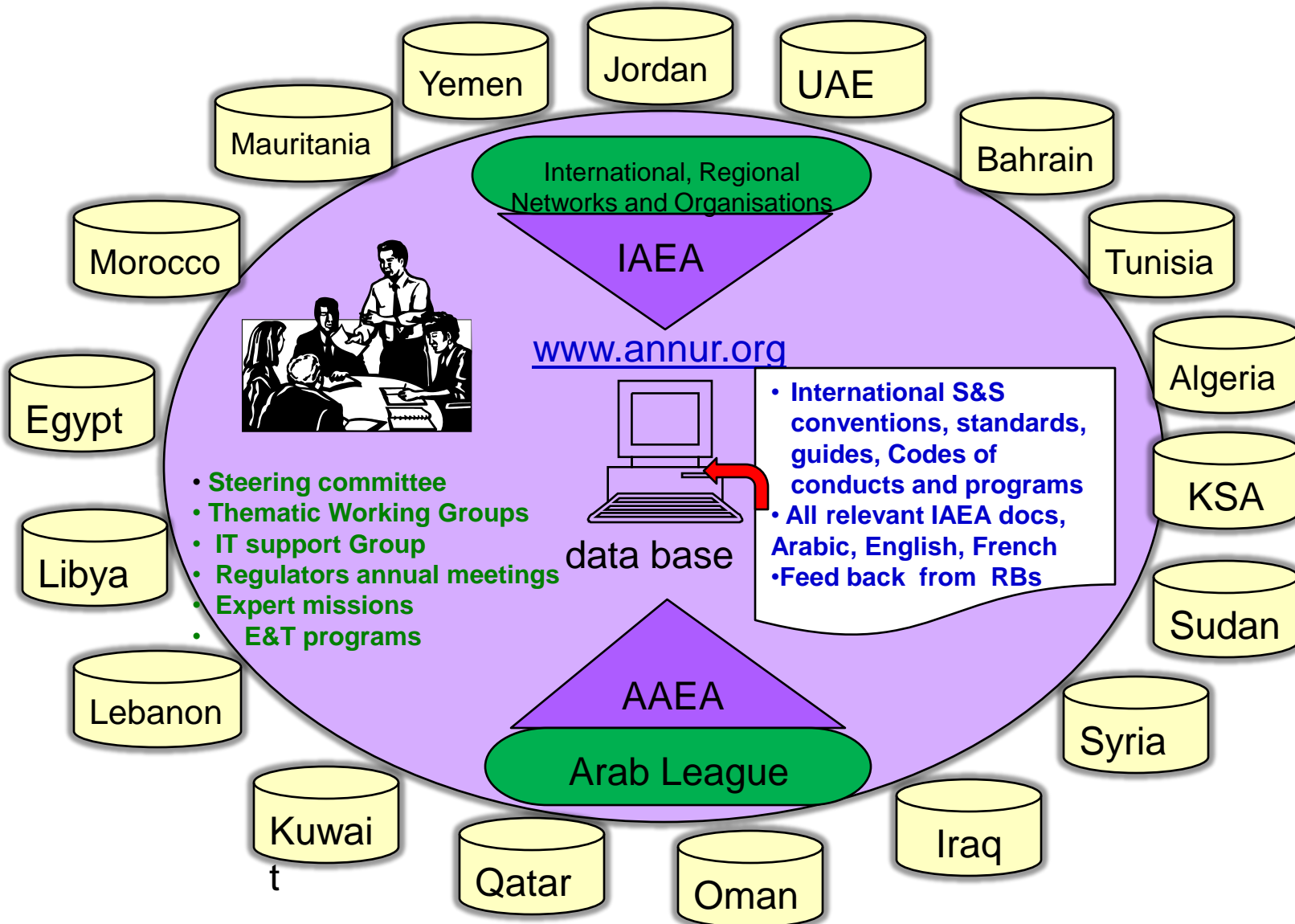
## Red Iberoamericana de Seguridad Radiológica Elementos de la Red



# Objectives of the ANNuR



# ANNuR



# ANNuR establishment

- A three phase project has been formulated
- Terms of Reference of ANNuR has been put
- Action plan for implementation has been produced,
  - reflects current and future needs of Arab RBs
  - production of relevant regulations and guidelines in Arabic language
  - Education and training programs for SSS staff
  - Expert missions and meetings

# Action Plan

## Phase I

2010: Planning & Analysis, Identify scope, requirements, prioritised needs of Arab RBs and required resources

Expert missions to help establishing, developing RBs

Develop Web Site... (estimated budget for this phase USD100,000)

## Phase II

2011: Project Implementation

Focus on Education & Training, Meetings, Form Project Teams , production of regulations, standards and guidelines in Arabic

Database ,web improvement, Communication and Information Sharing

(estimated budget for this phase USD200,000)

## Phase III

2012,2013 and beyond : Full Implementation,

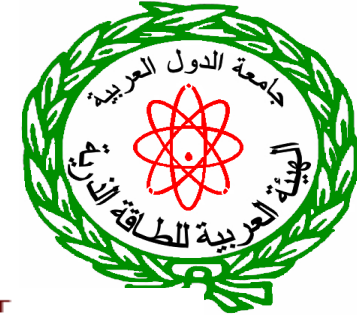
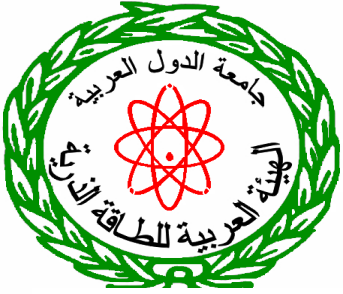
Evaluation, Lessons Learned, E&T.....Sustainability.

(estimated budget for this phase USD200,000)

# Thematic Working Groups:

1. Strengthening infrastructure and capacity building for regulatory bodies
2. Legislation and Regulation frameworks
3. Emergency preparedness and response
4. Radioactive waste management and disposal of spent fuel
5. Information technology





**Thank you**

The First Arab Conference on the prospects of Electricity Generation and seawater Desalination by Nuclear Power