



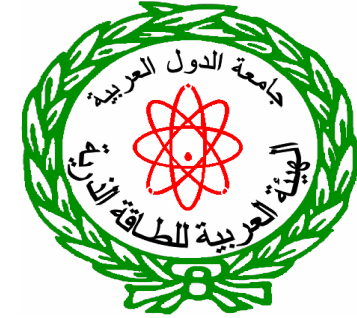
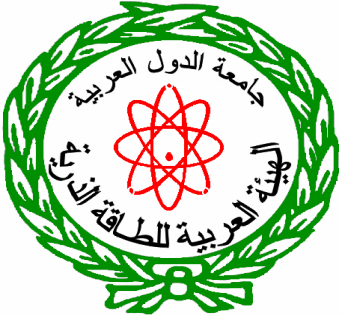
Overview of ANNuR and its Achievements

Daw Mosbah

Arab Atomic Energy Agency

Tunis

dmosbah@aaea.org.tn

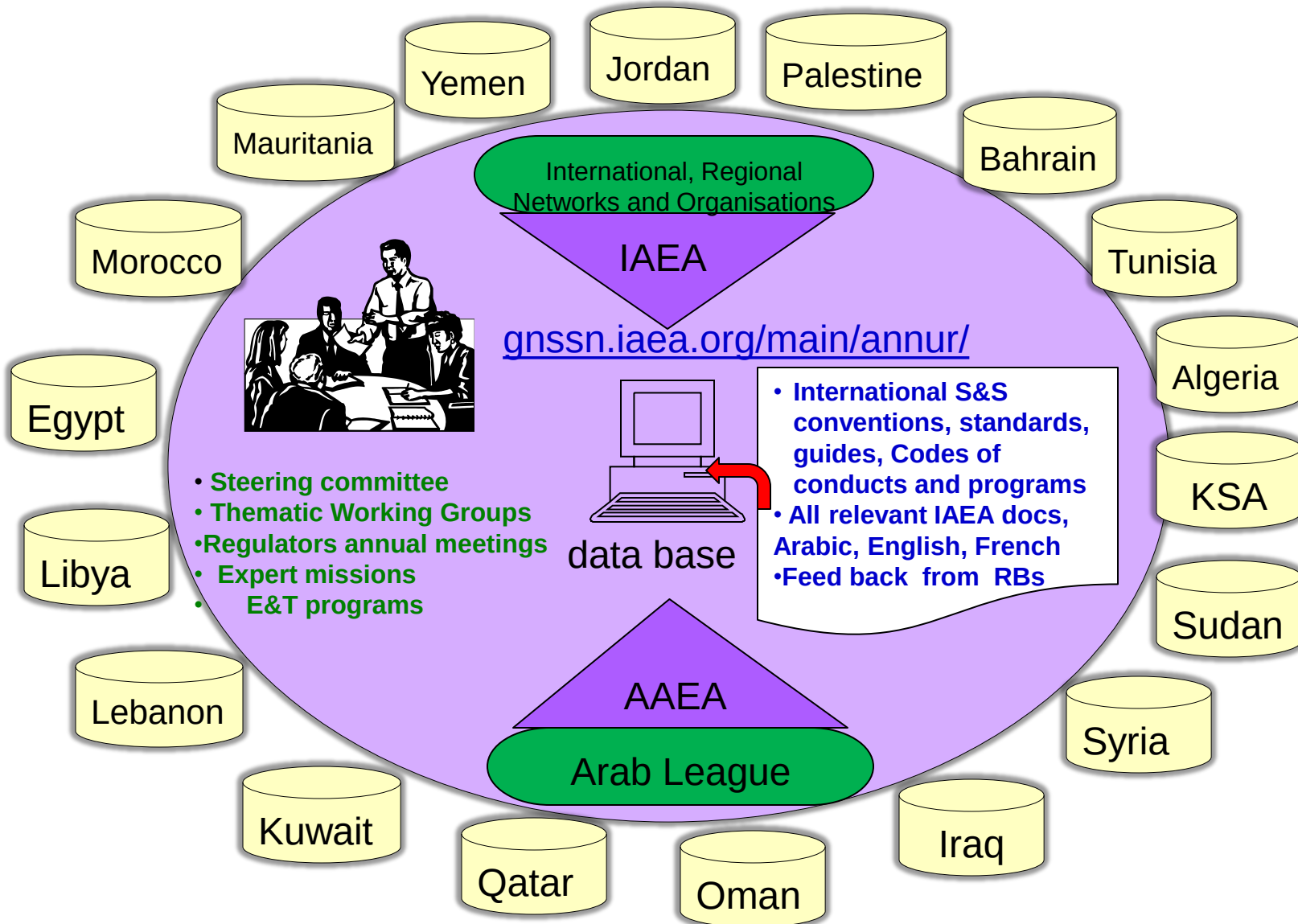


ANNuR Member States

22 member states in LAS



Arab Network for Nuclear Regulators



Key objectives



Strong human and IT network to pool, analyse and share nuclear safety knowledge and experience



Sustainable regional cooperation, coordination and collaboration to continuously improve nuclear safety



Strong need of capacity building to fulfil current and future needs of Arab Regulatory Bodies

Background

- The use of atomic energy in Arab countries is increased significantly in different social and economic aspects of life (e.g medicine, industry, agriculture and research, ..etc.).
- One country in the region now operating a nuclear power plant, while two others are at contractual stage and few countries are actively involved in planning to build nuclear power plants. Seven countries are operating research reactors, while others are planning and considering building research reactors.

Need for national RB

ACs need to establish, develop and sustain a national regulatory bodies in relation to nuclear safety, and security framework based on IAEA Nuclear Safety & Security Standards and Guidelines.

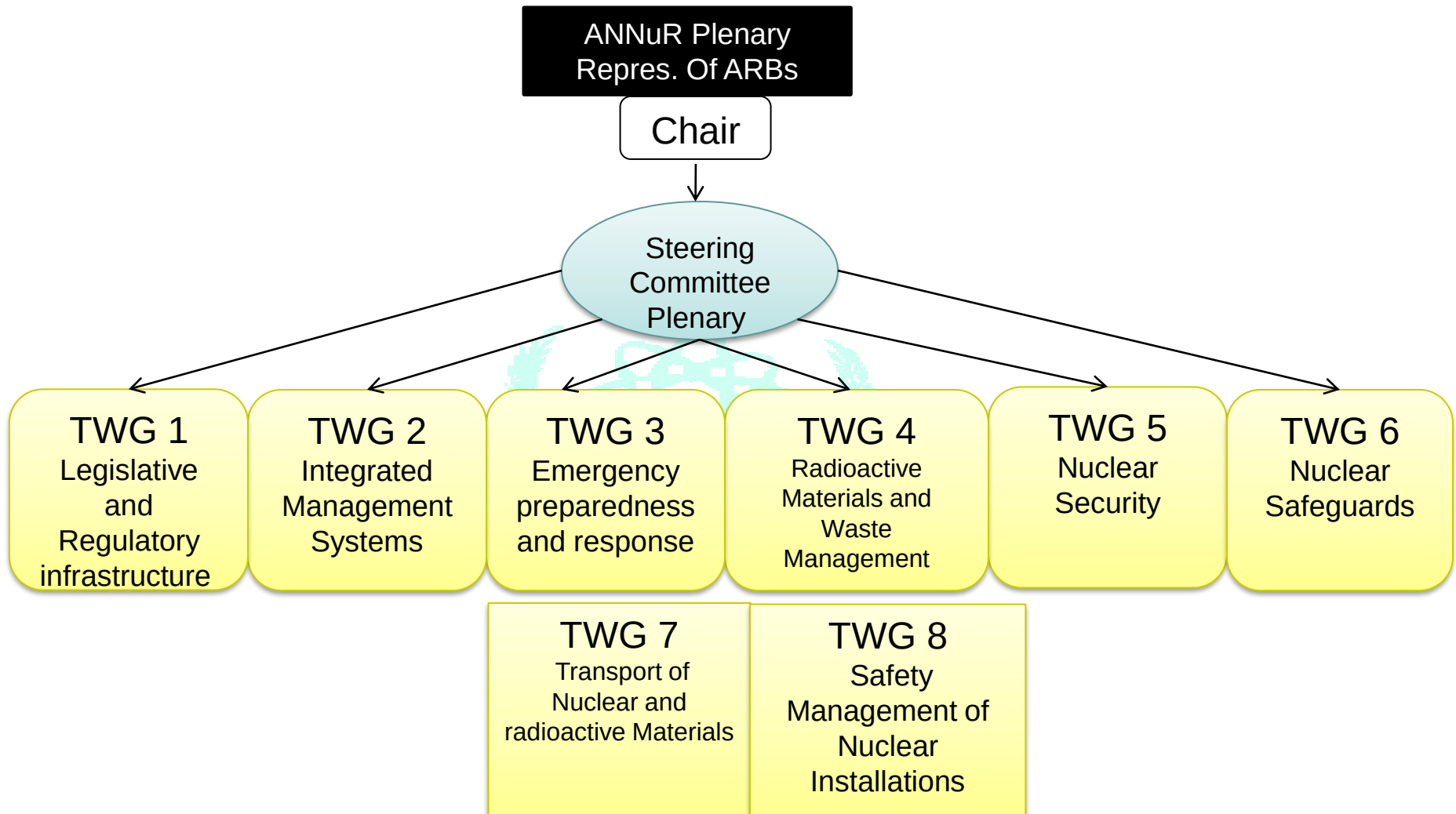


The RB has to be:

***Independent, Transparent , Efficient,
Reliable, Robust, Competent***

- Many Arab countries have already established a legal and regulatory infrastructure, to ensure high standards of safety and to develop an efficient and effective regulatory body.
- Responding to the evident need for Arab Regulatory authorities to be strengthened and to collaborate and interact between competent people and organizations relevant to nuclear regulation, therefore ANNuR has been established, January 2010.

ANNuR Hirarchy

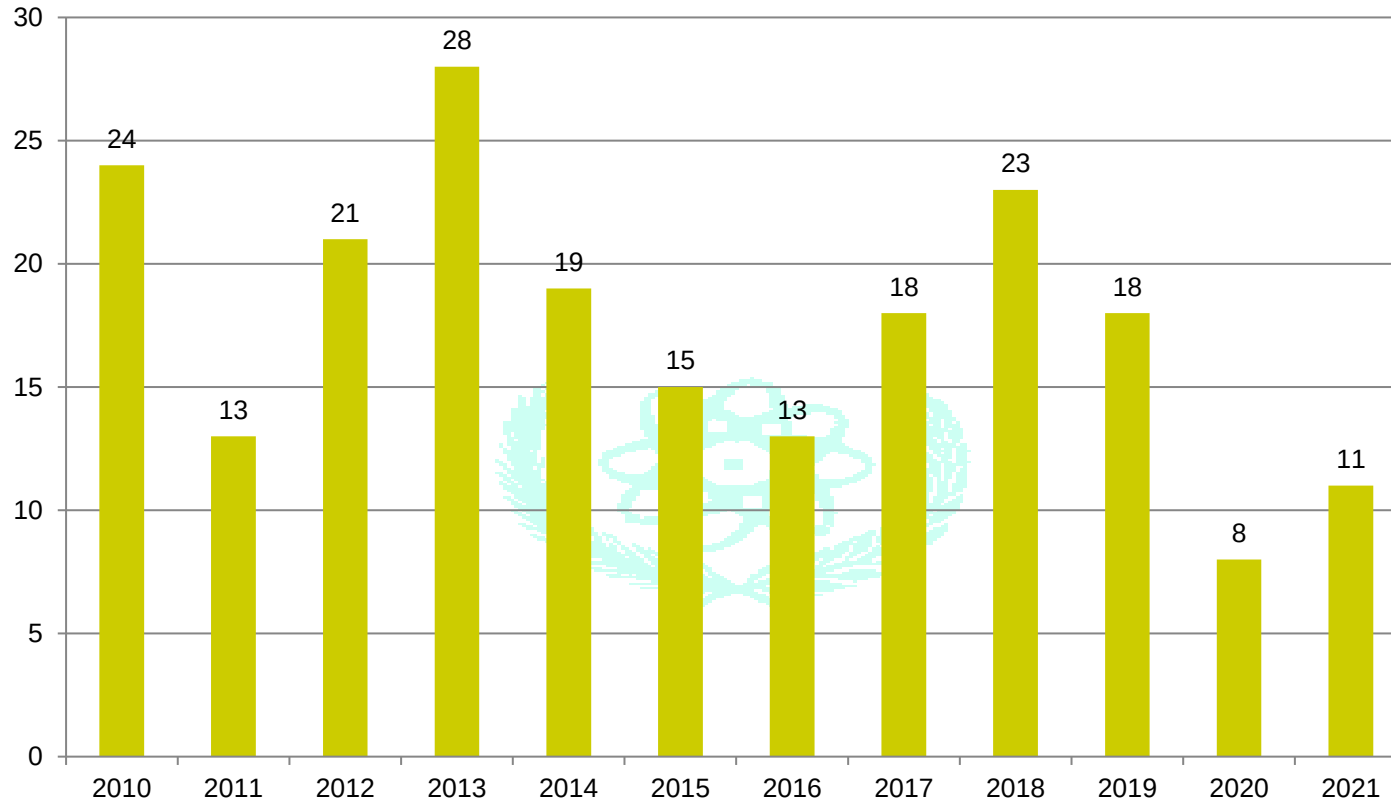


The Thematic Working Groups

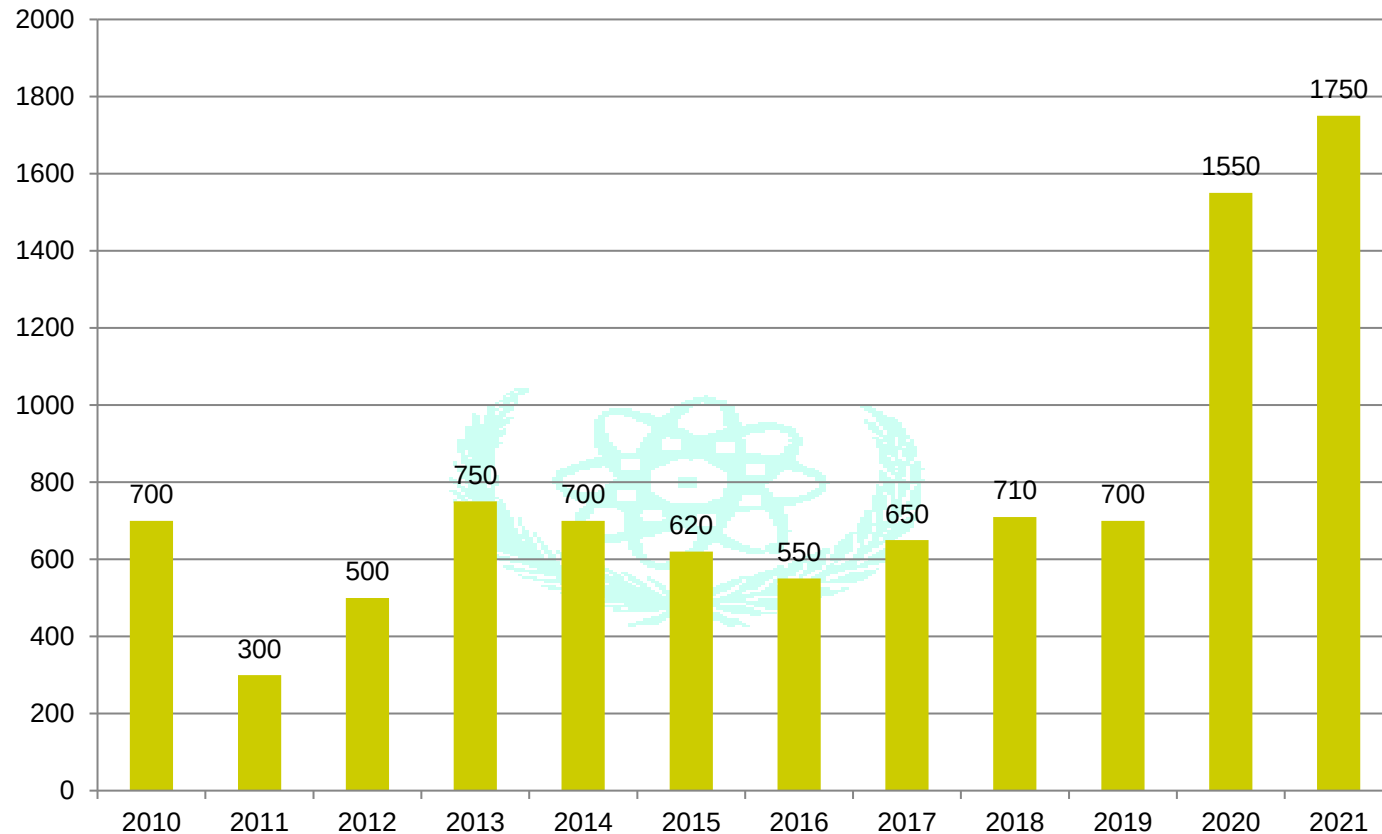
Thematic Working Group	coordinator
Legislative and Regulatory infrastructure	Tunisia
Integrated Management Systems	Egypt
Emergency preparedness and response	Sudan
Radioactive materials and waste management	Morocco
Nuclear Security	Jordan
Nuclear Safeguards	Libya
Transport of Nuclear and Radioactive Materials	Mauritania
Safety Management of Nuclear Installations	Morocco

- Chairmanship →

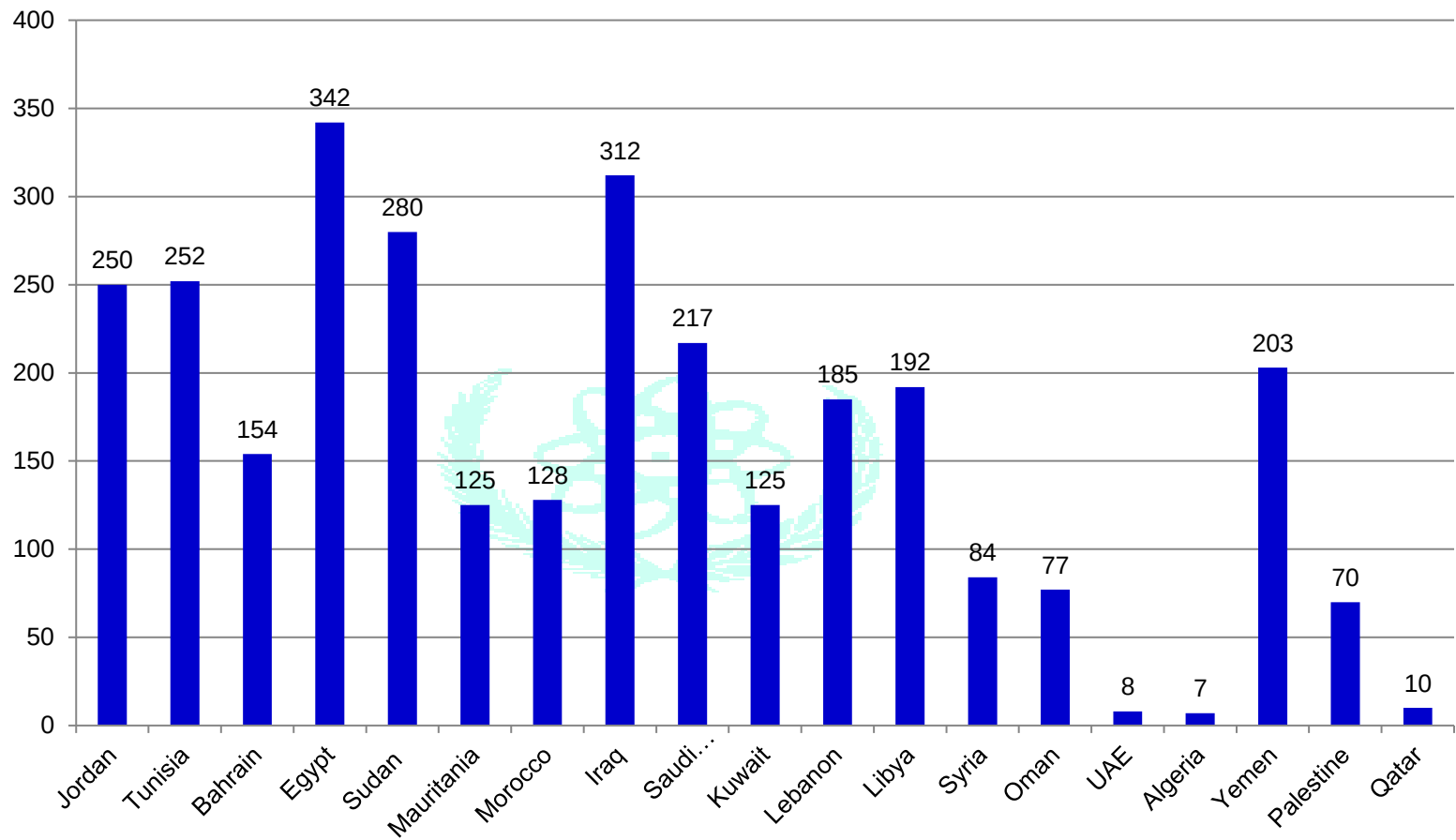
Number of training activities 2010-2021



Number of trainees 2010-2021



Number of Participants per Country 2010-2020



Cooperation with other Institutions

Strong cooperation with:

IAEA, US-NRC, US-DoE, KINS, STUK and EU



Inter-regional TC Programme for 2020-2021

12 Arab Countries located in Asia and Africa formally submitted a project entitled **“Arab Network for Environmental Radiation Monitoring and Early Warning”** to the IAEA for consideration under its inter-regional TC Programme for 2020-2021

AFRICA

1. Egypt
2. Libya
3. Sudan
4. Tunisia
5. Mauritania
6. Morocco

ASIA

7. Kuwait
8. Jordan
9. Bahrain
10. Iraq
11. Lebanon
12. Palestine



Objectives:

To establish a network for continuous monitoring of radiation, preparing for nuclear and/or radiological emergencies to strengthen the regional early warning systems. Strengthening the technical capabilities and enhancing institutional and human capacity of Arab countries to respond to radiation emergencies, exchange of relevant information, knowledge and best practice

ANNuR 12th meeting

Virtual 18/5/2021

- Creation and approval of an Arab programme for training Radiation Protection Officers.
- An Arab certificate for radiation safety and protection was developed.



ANNuR 13th meeting Agenda

Hammamet 22-24 March 2022

- Follow up and review the progress in ANNuR and assess its current organizational structure and ways of improve its performance.
- Promote effective coordination and cooperation between ANNuR, IAEA and relevant regional and international organizations and propose new joint projects.
- Follow-up the Arab Program for Training Radiation Protection Officers.
- Follow up the project of Arab Network for Environmental Radiation Monitoring and Early Warning.

OUTPUTS FROM TECHNICAL MEETINGS

Documents Resulted

- ❑ ANNuR Terms of Reference in Arabic and English
- ❑ ANNuR STRATEGIC PLAN, 2016-2021
- ❑ Assessment of the Needs of the ANNuR Member States on Regulatory Supervision of Research Reactors and the Actions Proposed to address those Needs
- ❑ EPR national plan model
- ❑ Strategy on Capacity Building of Nuclear Safety Knowledge Management

ANNuR work plan 2022

- Regional Workshop on Nuclear Safety Knowledge Management Programs, Egypt, 27-30 June 2022.
- IAEA–KINS Workshop on Radiation Safety and Emergency Response in Medical or Industrial Uses of Radiation, Republic of Korea.
- International School of Nuclear and Radiological Leadership for Safety, Egypt, OCT 2022.
- Inter-regional Workshop to Coordinate the Implementation of Integrated Nuclear Security Support Plans for the Members States of the Arab Network of Nuclear Regulators, Tunisia 31/05 – 03/6/2022.
- Train the Trainers of Radiation Protection Officers.
- Training course for Radiation Protection Officers.

ANNuR work plan 2022

- Workshop on interface between Nuclear Safety and Security, Amman, 3-6 October
- 13th ANNuR annual meeting and side event during IAEA GC 66th, 22-24 March, 2022.
- The Arab Seminar on Nuclear Security, Lebanon.
- Workshop on regulatory functions of Nuclear Security.
- Workshop on Radiation Monitoring and Early Warning. Technical meetings
- Workshop on EPR.
- Workshop on Safety of RRs: Inspection, Licensing.
- Workshop on Safety of Radioactive Sources: Inspect., Licensing.



2023 Work Plan

ANNuR MSs are mostly interested in:

- Radioactive material safety including radioactive waste
- Capacity building in Radiation safety regulation
- Self-Assessment Tools and staffing of regulatory authorities.
- Regulatory Aspects of site selection of NPPs and RRs.
- Establishing a safety infra-structure of NPP programs.



شكراً

Thank you