



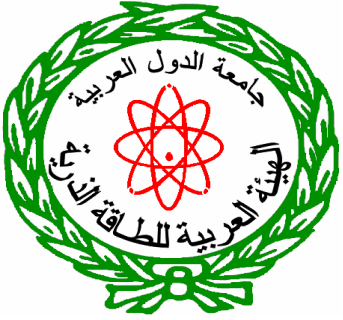
# ANNuR Current Status and Progress

Daw Mosbah

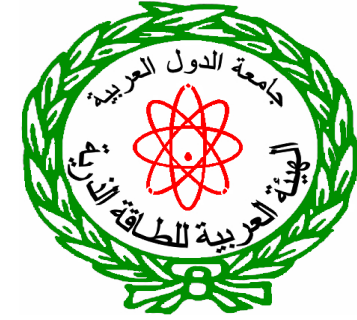
*Arab Atomic Energy Agency*

Tunis

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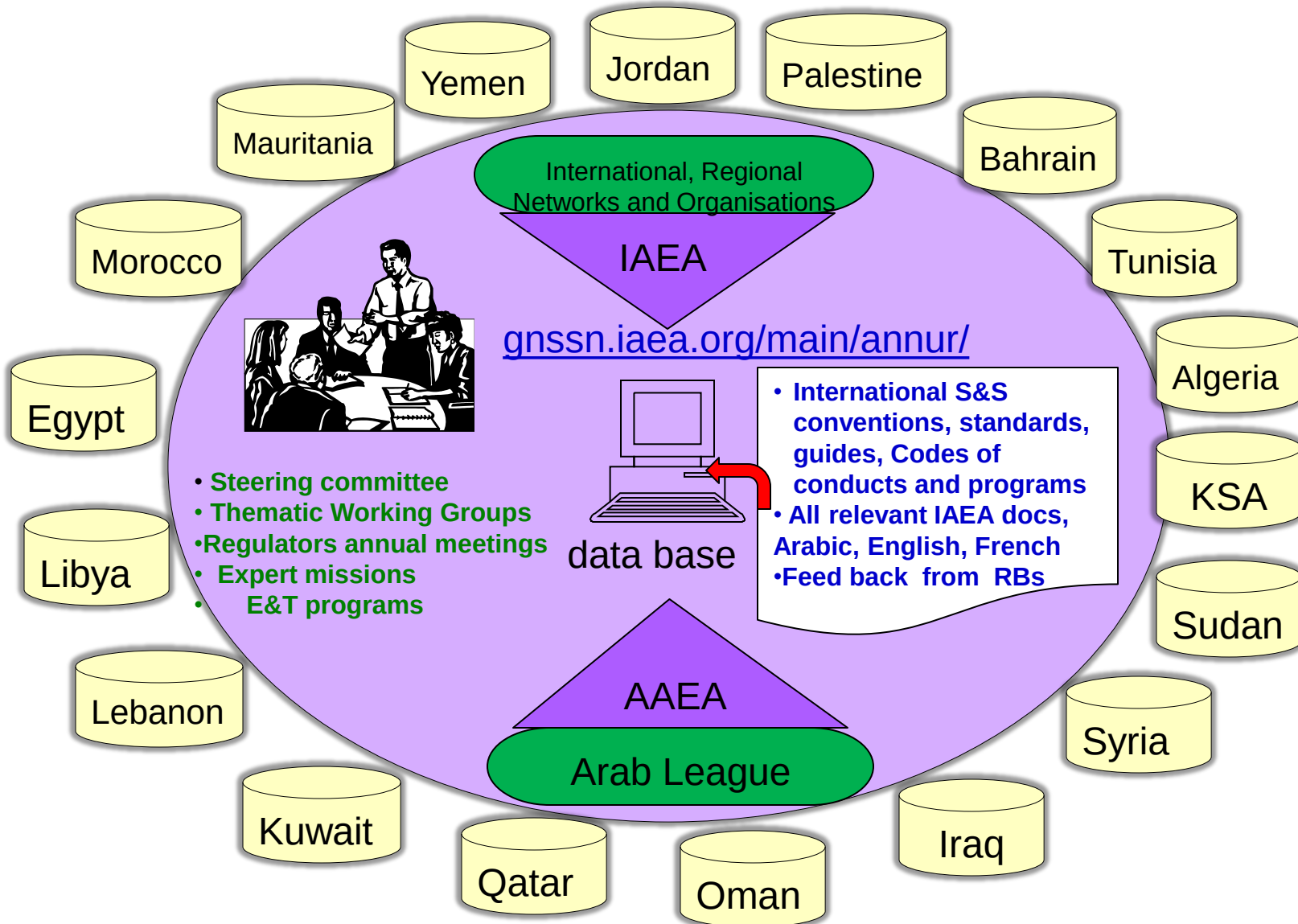
# ANNuR Member States



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.

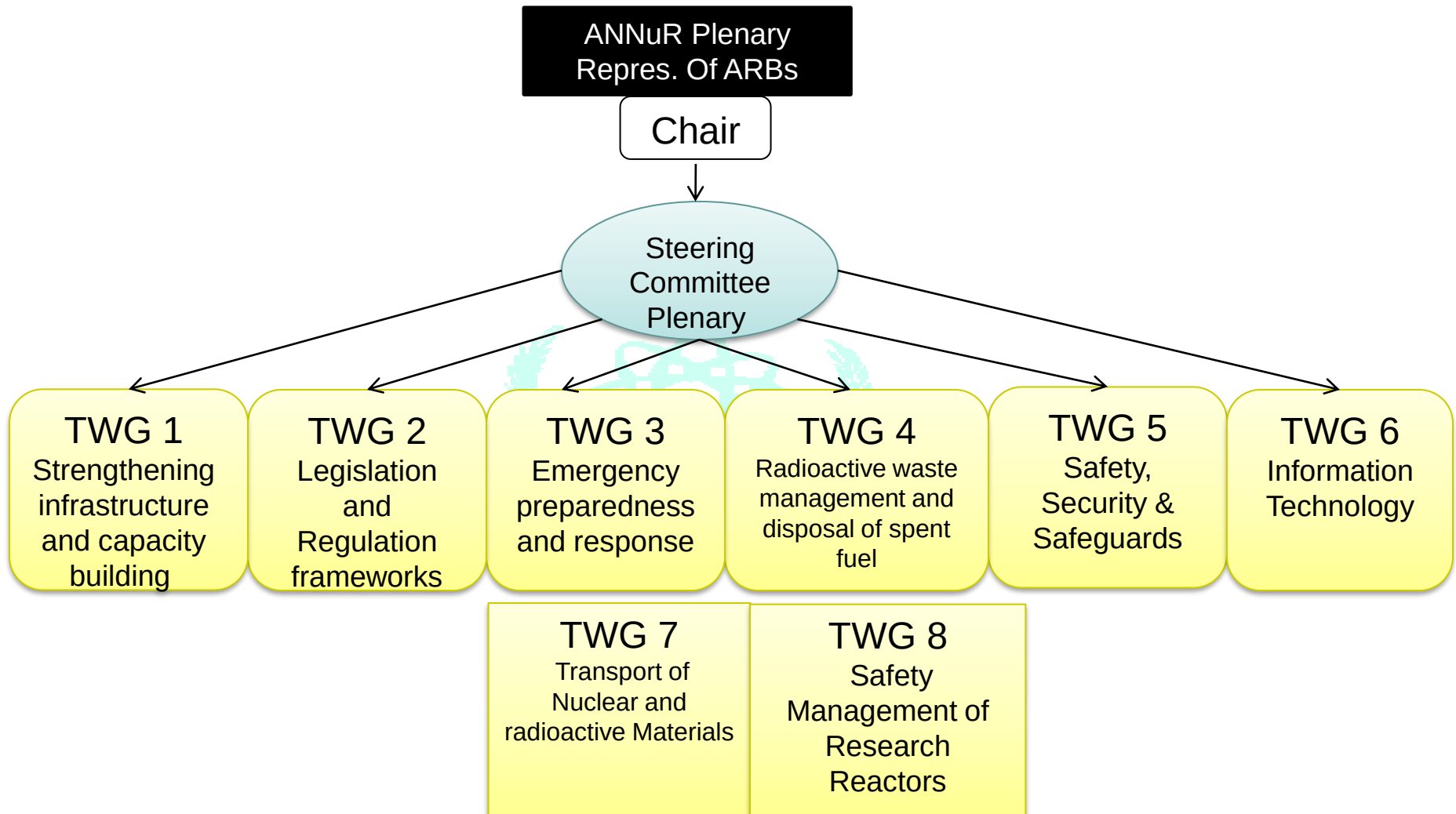


***The RB has to be:***

***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

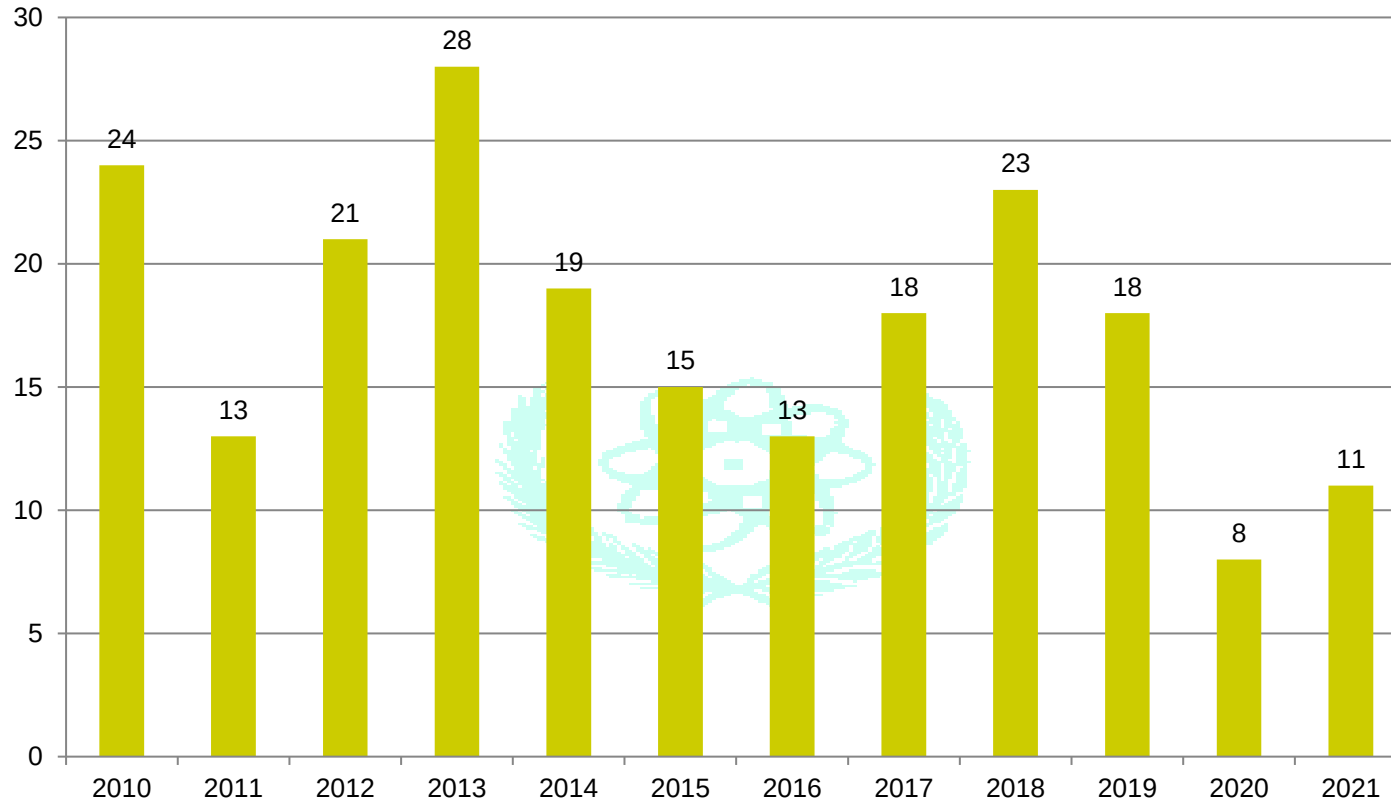


# The Thematic Working Groups

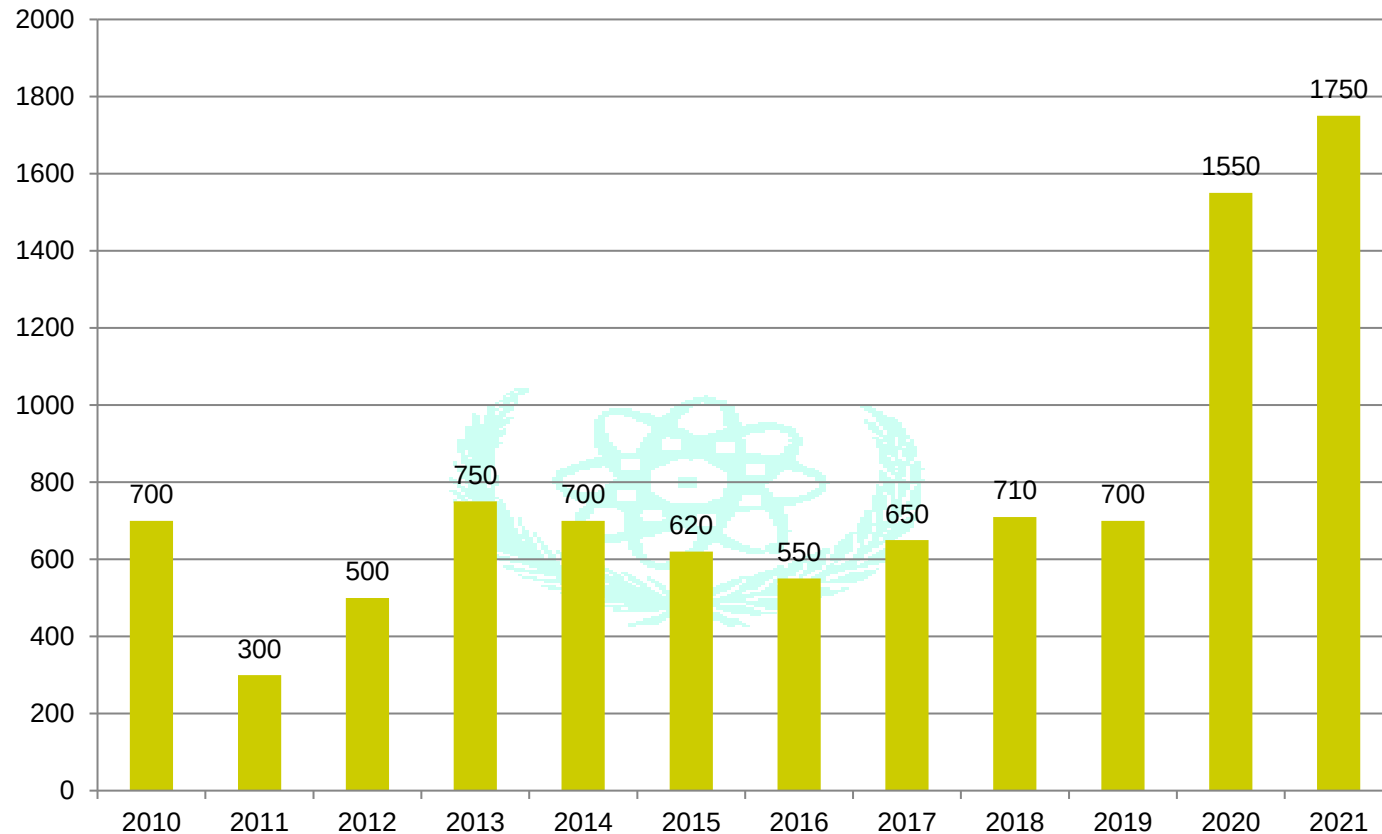
| Thematic Working Group                                                   | coordinator |
|--------------------------------------------------------------------------|-------------|
| strengthening infrastructure and capacity building for regulatory bodies | Jordan      |
| Legislation and Regulation frameworks                                    | Tunisia     |
| Emergency preparedness and response                                      | Iraq        |
| Radioactive waste management and disposal                                | Libya       |
| Safety, Security and Safeguards                                          | Egypt       |
| Information Technology                                                   | IAEA/AAEA   |
| Transport of Nuclear and Radioactive Materials                           | Sudan       |
| Safety Management of Research Reactors                                   | Morocco     |

- Chairmanship → Jordan 2010 -2012 , 2012-2014→ Tunisia
- 2015-2017 Saudi Arabia, 2018-2020 Sudan

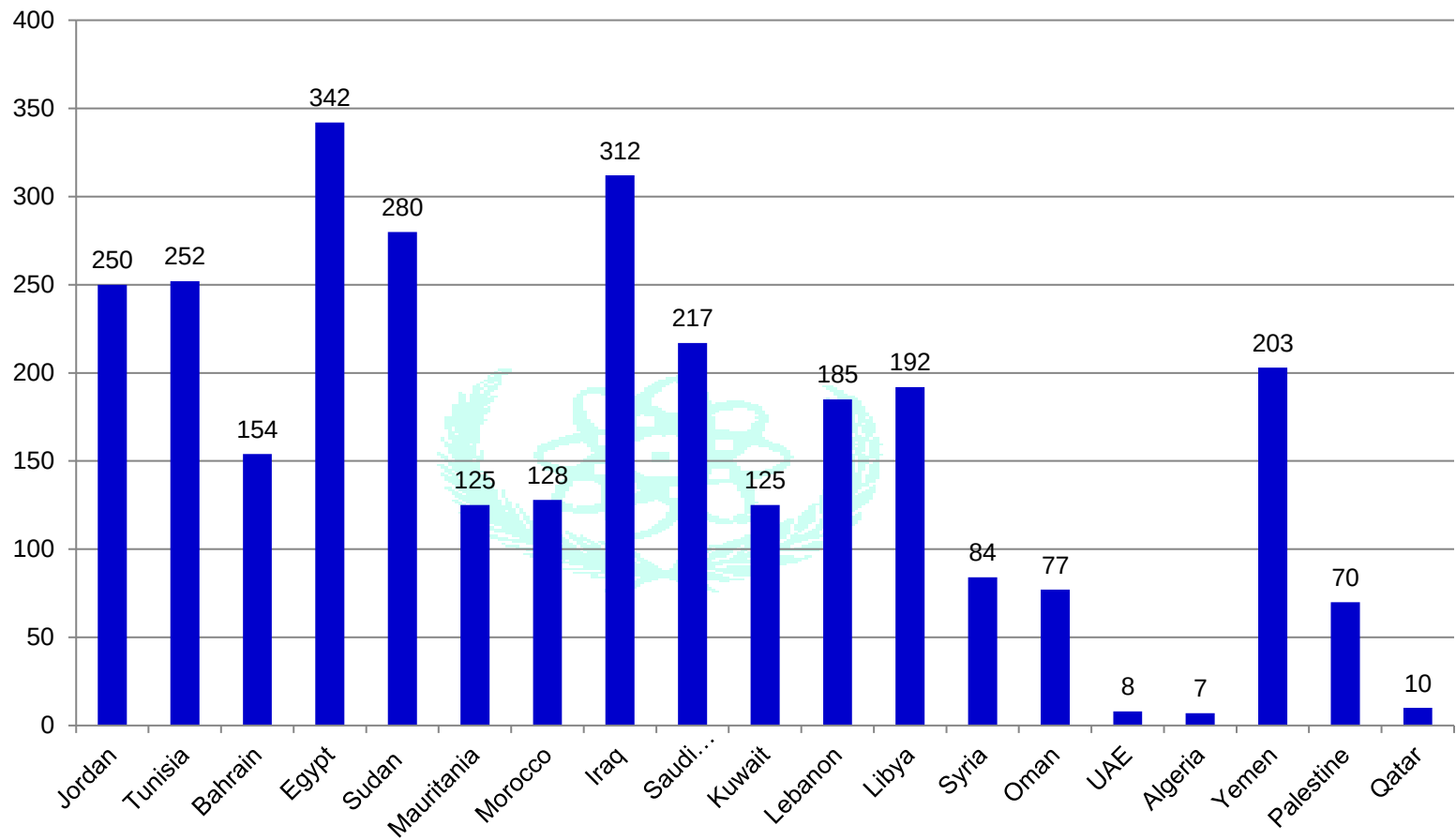
# Number of training activities 2010-2021



# 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, 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 12<sup>th</sup> meeting**

## **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.



# Scheduled activities 2021

- **Basic Physics and Radiation Protection Principles: May 27**
- **Introduction to Licensing the Use of Radioactive Material: July 27**

In Cooperation with US-NRC

# Pending activities 2021

- Regional Workshop on Nuclear Safety Knowledge Management Programmes, Egypt, Q4 2021 (Postponed from April)
- 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
- 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
- Regional Workshop on Self-Assessment of Regulatory Infrastructure for Safety.



## **ANNuR work plan 2022**

- **Regional Workshop on Self-Assessment of Regulatory Infrastructure for Safety. (Dec.6-8) 2021**
- **Regional Workshop on Nuclear Safety Knowledge Management Programmes, Egypt, 21-25/2/2022**
- **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**
- **Train the Trainers of Radiation Protection Officers**
- **Training course for Radiation Protection Officers**
- **Workshop on interface between Nuclear Safety and Security**
- **13<sup>th</sup> ANNuR annual meeting and side event during IAEA GC 66th**



شكراً

Thank you