

# **Overview of the Asian Nuclear Safety Network (ANSN)**

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# Knowledge Network for Global Safety Regime



# Objectives of the ANSN



# Participating Countries



- China, Indonesia, Japan, Korea, Malaysia, the Philippines, Thailand and Vietnam
- Australia, France, Germany and the USA are ANSN supporting countries
- Pakistan and Bangladesh are associated countries in activities related to the safety of nuclear power plants and/or strengthening their regulatory frameworks.

# Structure and Features of the ANSN



- 3 hubs in China, Japan and Korea
- 5 National Centers in Indonesia, Malaysia, Philippines, Thailand and Vietnam
- The IAEA's website and the websites of other supporting countries
  - » Hubs and NCs have own databases and interconnected via the internet

# Management of the ANSN



# Topical Groups

- Government and Regulatory Infrastructure (Coordinator: China)
- Education and Training (Coordinators: Indonesia, Japan and Korea)
- Safety Analysis of RRs and NPPs (Coordinator: China)
- Operational Safety of NPPs (Coordinator: China)

# Topical Groups (2)

- Emergency Preparedness and Response  
(Coordinator: Japan)
- Radioactive Waste Management  
(Coordinator: Japan)
- Safety Management of Research Reactors  
(Coordinator: Australia)
- Siting (Coordinators: Vietnam and Korea)



# Topical Group on Radioactive Waste Management



- Predisposal
- Disposal
- Promotion of the Ratification of the Joint Convention on the Safety of Spent Fuel and Radioactive Waste Management

# Vision 2020 aiming for Capacity Building



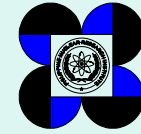
- Recognized the ANSN as a Capacity Building Platform during the 2<sup>nd</sup> Nuclear Safety and Strategy Dialogue in April 2009
  - Identify countries in Asia embarking on nuclear power programs and the first NPP in commercial operation in 2020
- The 9<sup>th</sup> Steering Committee recognized the Vision 2020 in May 2009

# Vision of the ANSN by 2020



*Development of Capacity Building for Nuclear Safety infrastructure in member countries with a plan of NPP in commercial operation by 2020*

# Capacity Building



- Competencies
  - Scientific and Technological
  - Humanities
  - Managerial
  - Legislative and Regulatory Framework
- Capabilities
  - Individual
  - Organizational & Institutional
  - National/Regional Level

# Topical Groups of ANSN for Vision 2020



- Topical Group concerned with NPP
  - » Inspection and Enforcement
  - » Commissioning
  - » Construction
  - » Siting
  - » Government and Regulatory Infrastructure
- Topical Group concerned with RR
  - » Safety Analysis
  - » Safe Management of Research Reactor

# Topical Groups (TGs) of ANSN for Vision 2020

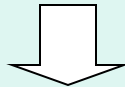


- Topical Group concerned with both NPP & RR
  - » Education and Training
  - » **Radioactive Waste Management**
  - » Emergency Response and Preparedness

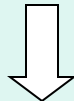
# Analysis of Competency Building Items



- INSAG-2.2 “Nuclear Safety Infrastructure for a National Nuclear Power Program supported by the IAEA Fundamental Safety Principles”
- NG-G-3.1 “Milestone in the Development of a National Infrastructure for Nuclear Power”
- DS-424 “Establishing a Safety Infrastructure for a National Nuclear Power Program



**15 CB Items (12 sub items) = 9 CB items (8 sub-items) as ANSN activities**



**Radioactive Waste Management and Spent Fuel**




# **Request from Capacity Building Coordination Group**



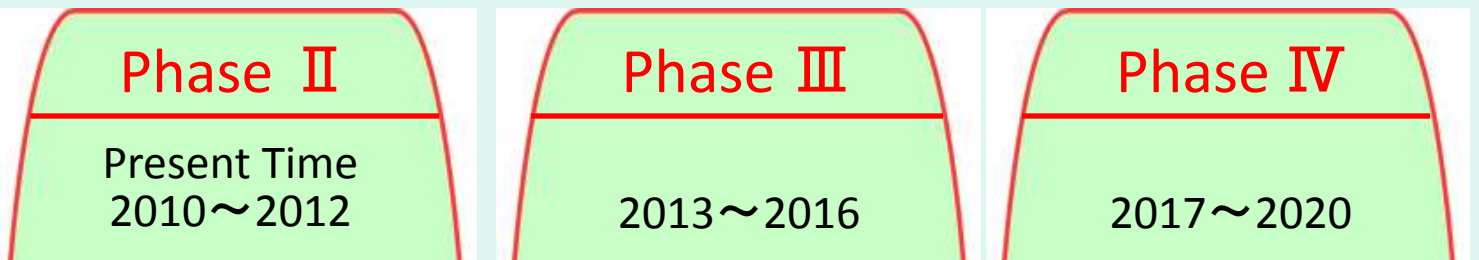
- For each TG to establish TG Action Plan for Vision 2020 & Outcome-based performance indicators, considering the mission and the scope of work for the designated Capacity Building Item



# RWMTG Action Plan for Vision 2020

-  Concerned with the Waste from Research Reactors & Small Facilities
-  Concerned with the Waste & Spent Fuels from Nuclear Power Plants
-  Concerned with both of the above categories

**Phase I was implemented between 2007 and 2009**



**Generation of Radioactive Waste**

**Low-Level Waste**

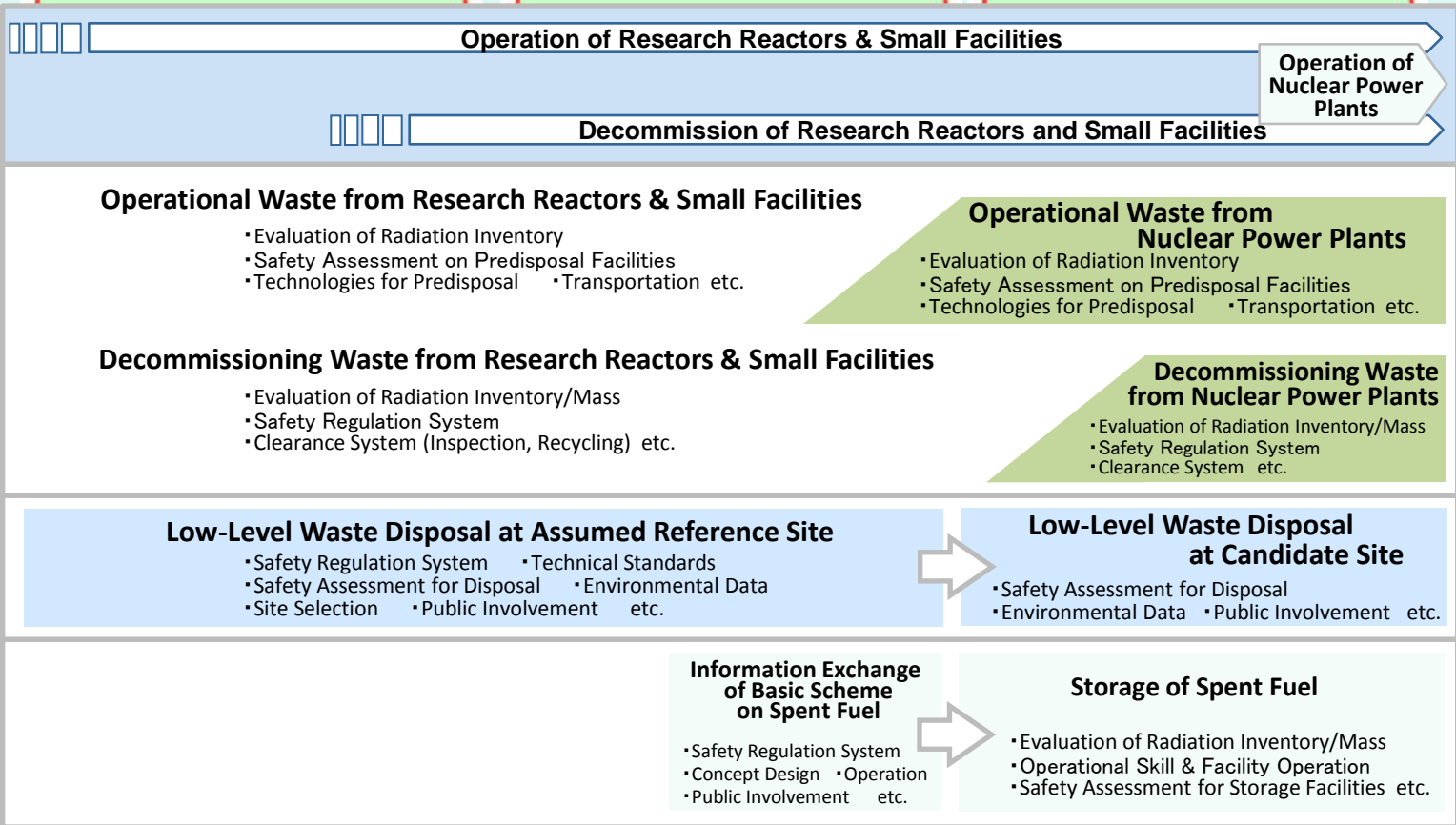
**Pre-disposal**

**Disposal**

**Spent Fuel**

**Joint Convention**

**Support System and Database System**



**Continuous Support of Member Countries Ratification**

**Continuous Improvement and Upgrade**

**Thank you for your  
attention**