

Overview and Current Status of the Asian Nuclear Safety Network (ANSN)

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ANSN Management Team

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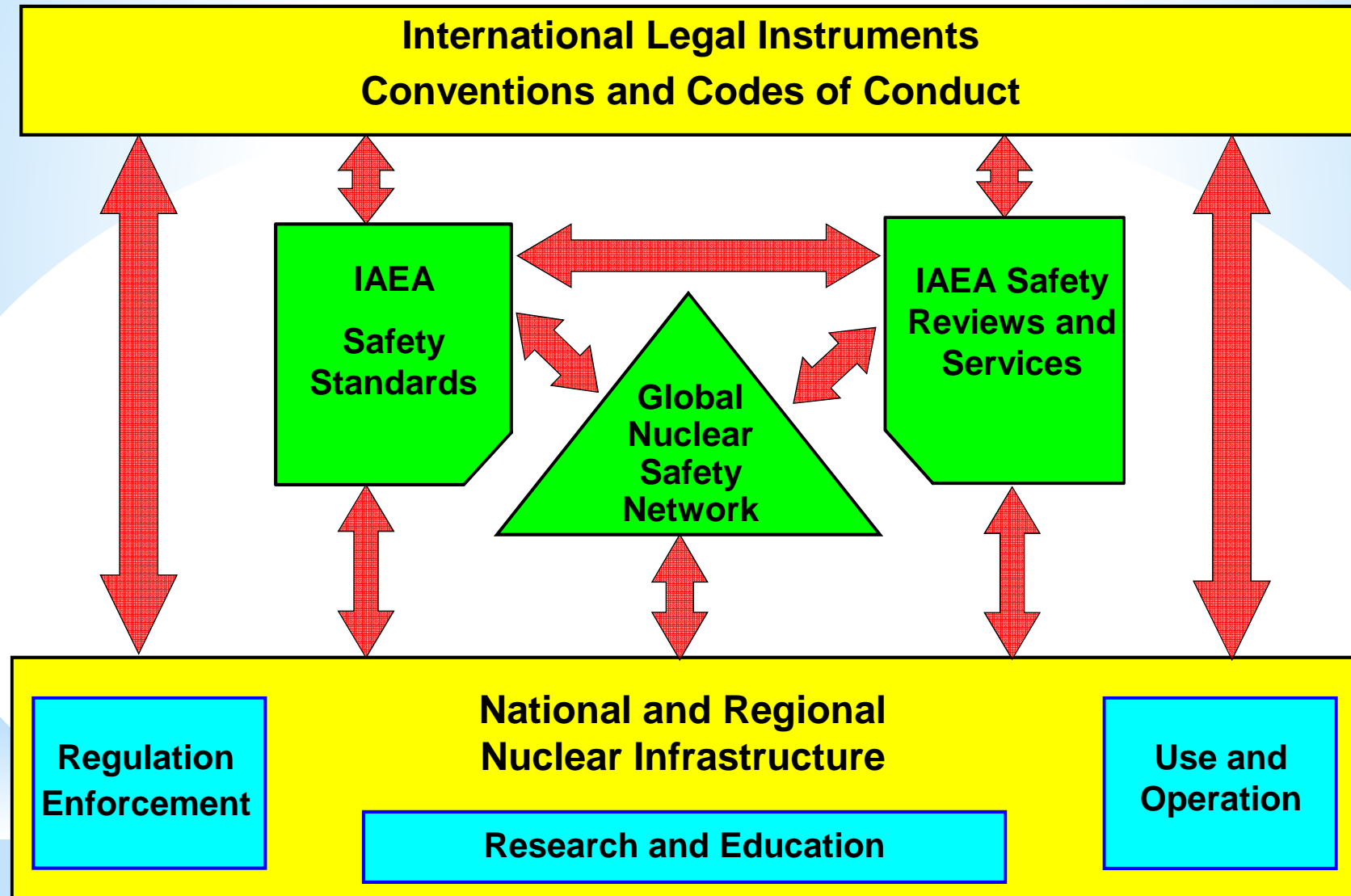
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Introduction (1) – Global Nuclear Safety Framework

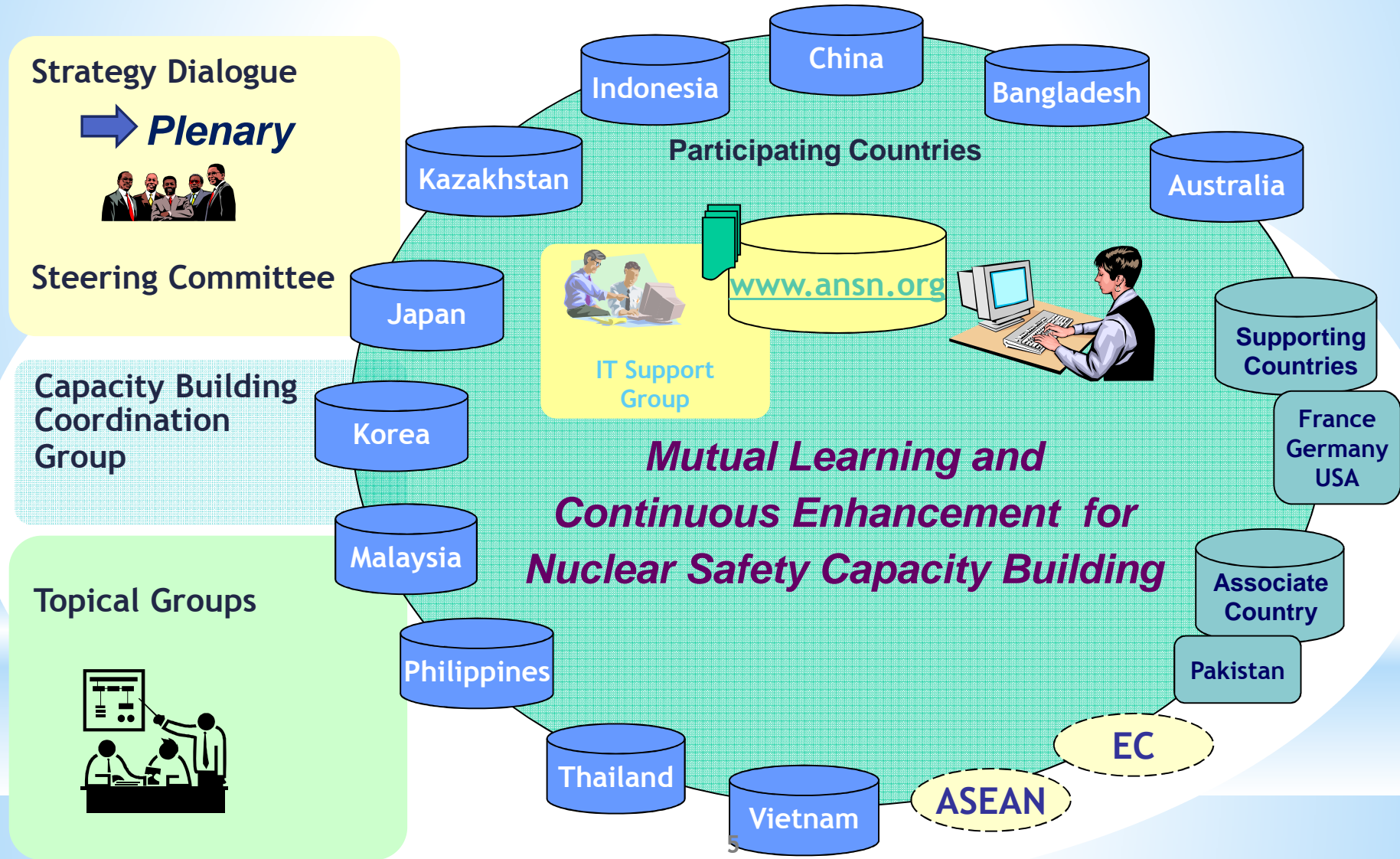


Introduction (2) –

Background and Objectives of ANSN

- There is a strong need of nuclear safety ***Capacity Building and Infrastructure Development in Asia*** to establish robust scientific and technological expertise as well as practical problem solving expertise to support dynamic development of nuclear programmes in the region.
- ***The Asian Nuclear Safety Network (ANSN)*** was launched in 2002 as a strong human and advanced IT network to pool, analyse and share nuclear safety knowledge and practical experience in Asia.
- The ANSN provides a Member States-driven platform with support of the IAEA for facilitating sustainable regional cooperation on continuously improving nuclear safety ***Capacity Building and Infrastructure Development in Asia*** to meet challenges of dynamically developing nuclear power programmes.

Introduction (3) – Human and IT Network of ANSN



Introduction (4) – ANSN Structure



- The ANSN currently has **8 Topical Groups (TGs)**. The ANSN TGs are the forefront of the ANSN activities for capacity building and nuclear safety infrastructure development.
- 2 new TGs will be established in 2012 and the **ANSN will have 10 TGs**.

Introduction (5) – ANSN Activities

- Annually 40-50 workshops, trainings, expert missions
- **Regional Activities** (examples)
 - Workshop on Safety Assessment for Regulatory Control of Nuclear Power Plants (Rep. of Korea, 4-8 April 2011)
 - Workshop on Volcanic, Seismic and Tsunami Hazard Assessment related to NPP Siting Activities and Requirements (Indonesia, 13-17 June 2011)
 - Workshop on Establishing a Nuclear Safety Infrastructure for a National Nuclear Power Programme (Vienna, 4-15 July 2011)
 - Workshop on Emergency Preparedness and Response on Longer Term Protective Actions and Related Matters (Thailand, 19-23 September 2011)
 - Workshop on the Roles and Responsibilities for the Regulatory Body and Nuclear Power Plant Industry in Public Communication on Nuclear Energy Safety Related Issues (Philippines, 17-20 October 2011)
- **National Activities** (examples)
 - Workshop on Nuclear Power Plant Life Extension Strategies and Preparation (China, 23 -26 August 2011)
 - Workshop on Expert Review on Guideline of License Application for Nuclear Power Plant (Malaysia, 21-25 November 2011)



Introduction (6) – ANSN New Topical Groups (1)

Background and Milestones for establishing 2 new TGs:

TG on Public Communication (PCTG) & TG on Management System for Regulatory Bodies (MSRBTG)

- At the 13th ANS-Steering Committee (SC) meeting (May 2011), the SC:
 - ✓ *Recognized the importance of the proposed topical groups by CBCG, and acknowledged that topical group on management system for regulatory body can facilitate regulatory bodies of entrant countries to expand objectives and scope of nuclear safety in an integrated manner. As for the proposed Public Communication Group, it is vital for the government and regulatory body to make necessary arrangement for the public communication during authorization process for any nuclear activities and facilities.*
 - ✓ *Proposed to make more investigations for the new proposed topical groups taking into account the lessons learnt from Fukushima accident; a proposal with concrete activities for the proposed groups will be submitted to the next SC meeting for its further consideration and decision.*

Introduction (6) –

ANSN New Topical Groups (2)

- At the 14th SC meeting (November 2011), the SC:
 - ✓ *agreed to establishment of new TGs on Public Communication and on Management System for Regulatory Body, and requested the ANSN management team to develop the draft ToR and submit to the next SC meeting for its approval.*
- Consultancy Meeting to prepare draft ToR of MSRBTG (8-9 March 2012)
- Consultancy Meeting to prepare draft ToR of PCTG (12-13 March 2012)
- Propose the draft ToRs at the 15th SC meeting (April 2012) for approval
- Organize 1st meetings of MSRBTG and PCTG respectively before the 16th SC meeting (November 2012) to start their work and plan their future activities for 2013 and beyond

How is the ANSN promoting ‘Regional Capacity Building’? – *The ANSN Vision and its Action Plan and implementing groups*

- In April 2009, the ANSN developed ‘**The Vision for the ANSN by the Year 2020**’: being a strong human and advanced IT network to acquire, create and share nuclear safety knowledge and experience.
- In April 2010, The ANSN developed ‘**Generic Action Plan for establishing the Regional Capacity Building System in Asia**’ as a road map to implement the Vision 2020. The Generic Action Plan proposes to establish a dynamic and interactive system for enhancing the Regional Capacity Building System in Asia through facilitating face-to-face cooperative activities and interactive use of state-of-the-art IT technology (i.e. *Capacity Building IT Modules*, namely e-Library, online communication, pool of experts and online planning).

How is the ANSN promoting ‘Regional Capacity Building’? – proactive implementation of *IAEA Action Plan on Nuclear Safety (1)*

- The ANSN is promoting the regional cooperation for **Capacity Building and Infrastructure Development** at ANSN countries with and embarking on a nuclear power programme (NPP)” in cooperation with the IAEA, in line with the *IAEA Action Plan on Nuclear Safety*, inter alia, **Action 8**: facilitate the development of the infrastructure necessary for Member States planning to embark on a NPP, and **Action 9**: strengthen and maintain Capacity Building.
- The ANSN is also promoting regional activities for supporting ANSN countries to enhance their effectiveness of **Public Communication** with the IAEA, in line with the *IAEA Action Plan on Nuclear Safety*, inter alia, **Action 11**: Communication and information dissemination.
- The ANSN is also proactively **responding to the Fukushima accident** and planning necessary future activities for sharing lessons learnt from the accident, fully taking into account the *IAEA Action Plan on Nuclear Safety*.

How is the ANSN promoting 'Regional Capacity Building'?

– proactive implementation of *IAEA Action Plan on Nuclear Safety (2)*

- Various actions and initiatives have been and will be taken:

➤ **Action 8 (Infrastructure Development)**

- organized **Regional Workshop on Establishing a Nuclear Safety Infrastructure for a National Nuclear Power Programme**, 4-15 July 2011, Vienna, Austria
- will organize **Regional Workshop on Peer Review of Self-Assessment of Status of Nuclear Safety Capacity Building and Infrastructure Development for a National Nuclear Power Programme**, August 2012, Vienna, Austria

➤ **Action 9 (Capacity Building)**

- contributed (ANSN experts participated in) **Consultancy Meeting on Development of Guidance and Methodology for Assessment of Capacity Building in Member States with or planning to embarking on a Nuclear Power Programme**, 21-25 November 2011, Vienna, Austria
- will contribute **IAEA Technical Meeting on Establishing, Developing and Maintaining Capacity Building in Member States**, 17-20 April 2012

How is the ANSN promoting 'Regional Capacity Building'?

– proactive implementation of *IAEA Action Plan on Nuclear Safety (3)*

- Various actions and initiatives have been and will be taken:

➤ ***Action 11 (Communication and information dissemination)***

- ❑ organized **Regional Workshop on the Roles and Responsibilities for the Regulatory Body and Nuclear Power Plant Industry in Public Communication on Nuclear Energy Safety Related Issues**, 17-20 October 2011, Philippines
- ❑ will newly establish the ANSN Topical Group on Public Communication (PCTG)

➤ ***Feedback of Lessons Learnt from the Fukushima Accident***

- ❑ will organize **Regional Workshop on Continuous Improvement of Safety with the ANSN Framework in the light of Lessons from the Accident at TEPCO's Fukushima Daiichi Nuclear Power Station**, 4th Quarter 2012, Japan
- ❑ will organize **Regional Workshop on Site Evaluation and Safety Improvement focusing on the Post-actions after Fukushima NPPs accident**, June 2012, Rep. of Korea

How is the ANSN promoting ‘Regional Capacity Building’? – Expanding network with global and other regional networks (1)

- The **ANSN** has been exploring ***cooperation with the global and other regional nuclear safety networks*** (i.e. Global Nuclear Safety Network (GNSSN), Ibero-American Forum of Nuclear and Radiation Safety and Security Regulatory Agencies (FORO), Forum for Nuclear Regulatory Bodies in Africa (FNRBA), Arab Network for Nuclear Regulators (ANNuR), European TSO Network (ETSON) and emerging TSO Forum) for enhancing Capacity Building internationally, regionally and nationally, by strengthening human as well as IT networking.

How is the ANSN promoting 'Regional Capacity Building'? – Expanding network with global and other regional networks (2)

- Various actions and initiatives have been taken
 - ❑ organized **1st Round Table Discussion** on the ANSN Activities, 15 September 2009, Vienna, Austria
 - ❑ organized **2nd Round Table Discussion** on Nuclear Safety Networking, 21 September 2010, Vienna, Austria
 - ❑ organized **Regional Conference** on 21st Century Capacity Building and Virtual TSO in Asia, 29 October 2010, Tokyo, Japan
 - ❑ participated in **3rd Round Table** on Nuclear Safety and Security knowledge Networking, 21 September 2011, Vienna, Austria

Conclusions

- The ANSN will continue taking a leading role to promote **Regional Capacity Building** in line with the **IAEA Action Plan on Nuclear Safety**.
- The ANSN continues attaching strategic importance to strengthen **cooperation among the global and regional networks** to further explore mutually beneficial cooperation for enhancing Capacity Building internationally, regionally and nationally.