

Capacity Building Initiatives under GNSSN framework NUCLEAR SAFETY KNOWLEDGE MANAGEMENT

**18th GNSSN Steering Committee Meeting,
(held in hybrid format)
28–29 July 2022**

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Presentation Outline

- Background
- IAEA Publication – SRS 105
- Self-assessment methodology for NSKM
- NSKM activities
- Way ahead

Background

GNSSN: A Pillar of IAEA Capacity Building Methodology

The GNSSN is supporting the IAEA's Nuclear Safety and Security Programme (Major Programme 3).

The GNSSN is also part of an integrated **IAEA methodology for capacity building** and caters to several key concepts of "Capacity Building" and "Knowledge Management"



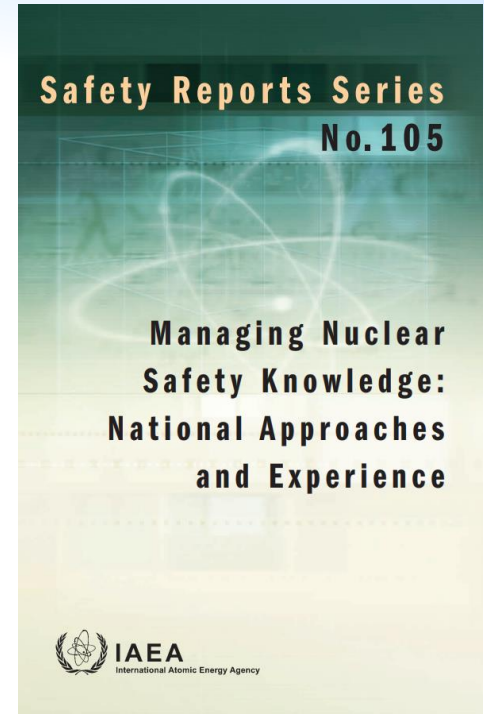
- [Technical Meeting on “Managing Nuclear Safety Knowledge – Approaches and National Experiences”](#) was conducted in July 2017 at the IAEA, Vienna.
 - To share national approaches and presentations on managing nuclear safety knowledge;
 - To review draft IAEA report
- 34 IAEA Member States submitted abstracts and presentations – sharing their experiences, approaches and typical challenges with managing nuclear safety knowledge.



IAEA Publication – SRS 105



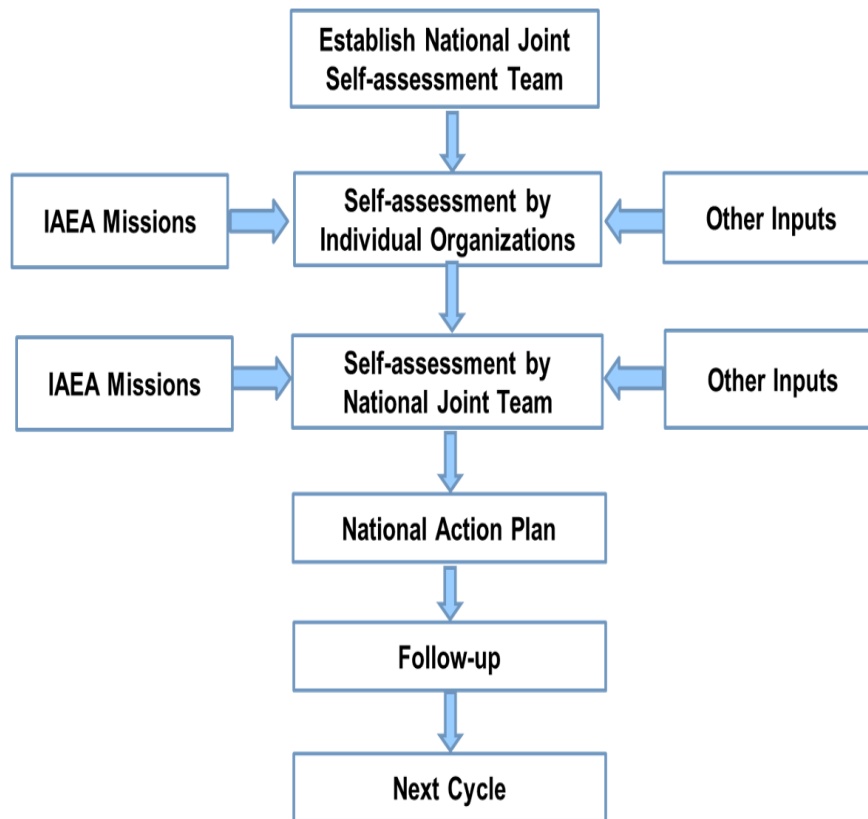
- Based on the outcomes of the Technical Meeting, IAEA [Safety Report Series No. 105](#) was finalised in 2019 and published in 2020.
- SRS 105 applies to all nuclear facilities and activities, focuses on knowledge management concerning safety and security **at national level**.
- It provides practical guidance and information to Member States on nuclear safety knowledge management beyond the boundaries of individual organizations.
- It describes the underlying concepts, challenges and available approaches and tools, as well as **summarizing the experience gained by Member States**.
- This publication is intended for use by governmental decision makers, managers, and technical and legal experts responsible for or concerned with national level safety knowledge management activities, ranging from higher level strategy development to concrete national activities and technical solutions.



- Based on SRS-105, the self-assessment questionnaire for NSKM has been developed, since mid of 2021.
- Focus of the questionnaire, as of SRS 105, is at the national level, as opposed to individual organizations on one side and regional or global activities on the other side. However, information on specific organizations may be provided in the answers when important for the evaluation at the national level.
- The questionnaire covers topical areas of NSKM as defined in SRS-105, as outlined below:
 - Governmental policy, plans and infrastructure
 - Involvement of interested parties
 - Knowledge collection, transfer and preservation
 - Knowledge resilience and sustainability
 - Resource allocation
 - Emergency preparedness and response
 - Knowledge networks

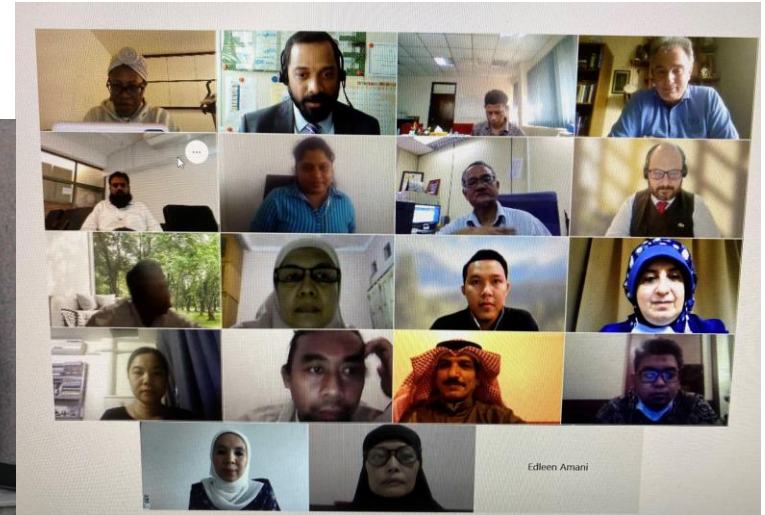
Self-assessment methodology - NSKM

- **Process:**
 - Self-assessment by Member States in close consultation with IAEA;
 - Expert Mission;
 - Development of action plan, based on gaps identified;
 - Continuous monitoring of progress.
- Web-based tools for self-assessment exercise are under development.



- **Who would be involved in the self-assessment exercise?** The regulatory body responsible for nuclear safety should lead the national self-assessment on nuclear safety knowledge management, and the related organizations who take important safety responsibilities should involve in this process to assure the effectiveness and comprehensiveness of the assessment process.
- **How to request support from IAEA?** Upon request, the IAEA, through TC programme and other supporting frameworks, can support Member States to conduct the self-assessment. This support also could be integrated into IAEA assistance visit on nuclear knowledge management upon the request of the Member State case by case.

- Regional Workshop on Nuclear Safety Knowledge Management Programmes, March 2021, Virtual Event
 - Hosted under the Technical Cooperation framework.
 - 22 participants from 13 Member States in the Asian region.
- Regional Workshop on Nuclear Safety Knowledge Management Programmes, June 2022, ENRRA, Cairo, Egypt
 - Hosted under the ANNuR framework.
 - 24 participants from 12 ANNuR Member States.



- Development of web-based tool for the self-assessment of NSKM to be completed in close cooperation with IAEA Member States (China) – (2022-2023);
- Expert Mission (South Africa, Morocco, Tunisia, Egypt) to pilot the self-assessment methodology and the web-based tool – (2023 - 2024)
- Technical Meeting on Managing Nuclear Safety Knowledge (2025)
- GNSSN remains committed to work closely with its associated networks to support Member States in capacity building for which “Knowledge Management” is a vital pillar.



IAEA

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Thank you!

