

The Global Nuclear Safety and Security Network GNSSN

ASM meeting
22-23, October 2015

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Safety and Security Coordination Section
Department of Nuclear Safety and Security

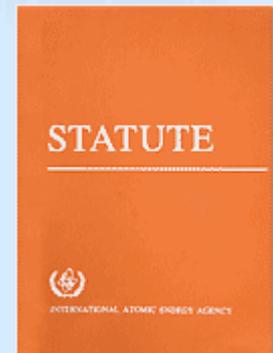


IAEA
International Atomic Energy Agency



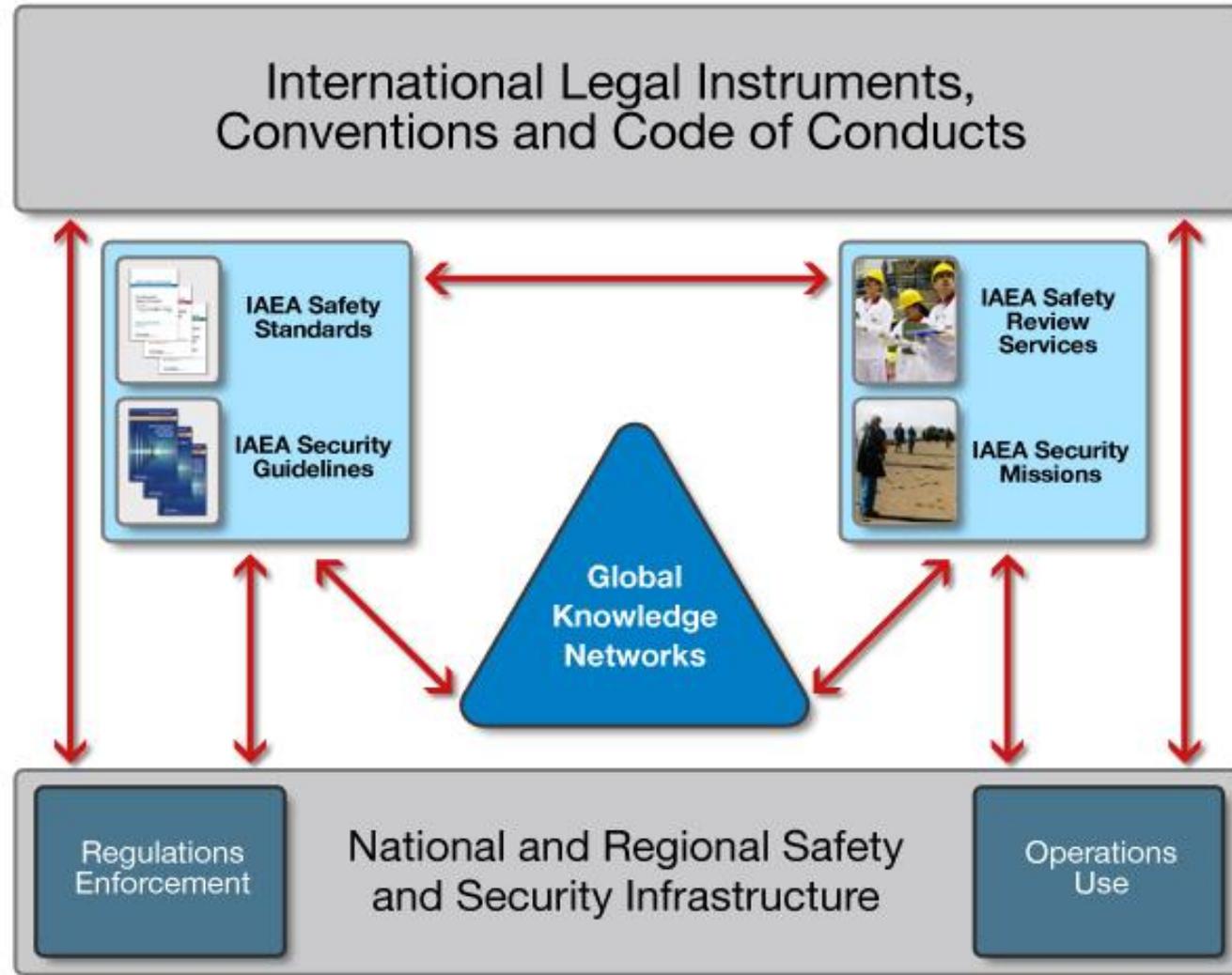
Role of the IAEA

- **IAEA statute Article III, A.1:** supports Member States in the peaceful uses of atomic energy throughout the world
- **IAEA statute Article III, A.6:** focuses on the creation, promotion and application of safety standards for protection of health and minimization of danger to life and property
- The Agency is further authorized and encouraged to foster scientific and technical information exchange and training in the field of peaceful uses of atomic energy



The Global Safety and Security Framework

The GNSSN was created in 2006 following the recommendations contained in the International Nuclear Safety Group (INSAG) report on Strengthening the Global Nuclear Safety Regime (INSAG Series No. 21, IAEA, Vienna, 2006).



Integrated Approach / Common Strategy



Global Knowledge

Global Approach

IAEA:

Comprehensive and robust framework for coordination and harmonization of global strategies and policies pertaining to nuclear safety and security

Regional Approach

Supporting IAEA Regional Networks, Regional Education and Training Centres, thereby providing Capacity Building and Infrastructure Development Platforms

National Approach

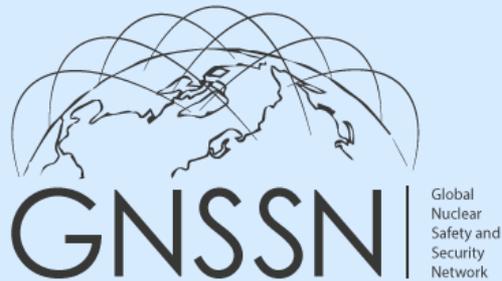
Member States:

Establishment of a national Capacity Building Framework

Global Networking



Content of the GNSSN



GNSSN Elements (June 2015)

Global Networks and Fora

International Regulatory Network (RegNet)

SMR Regulators' Forum

Regulatory Cooperation Forum (RCF)

WWER Regulators' Forum

Forum for Senior Regulators of CANDU Reactors

Regulatory Peer Review Services online space (...)



Control of Sources Network (CSN)

Education and Training Network in Nuclear Waste and Radiation Safety

Nuclear Security Information Portal (NUSEC)

Technical and Scientific Support Organization Forum (TSOF)

Emergency Preparedness and Response Network (EPnet)

Global Safety Assessment Network (GSAN)

Occupational Radiation Protection Networks (OPRnet)

Capacity Building Forum — *upcoming*

Safety and Security Communication Network (GNSSCOM)

Regional Safety Networks and Fora

Arab Network of Nuclear Regulators (ANNuR)

Asian Nuclear Safety Network (ANSN)

Forum of Nuclear Regulatory Bodies in Africa (FNRBA)

Ibero-American Forum of Radiological and Nuclear Regulatory Agencies (FORO)

Regional Safety Network in Europe and Central Asia – *upcoming*

[Liaison with regional networks external to the IAEA (e.g. the European Nuclear Safety Regulators Group (ENSREG), Western European Nuclear Regulators Association (WENRA)]

National Level

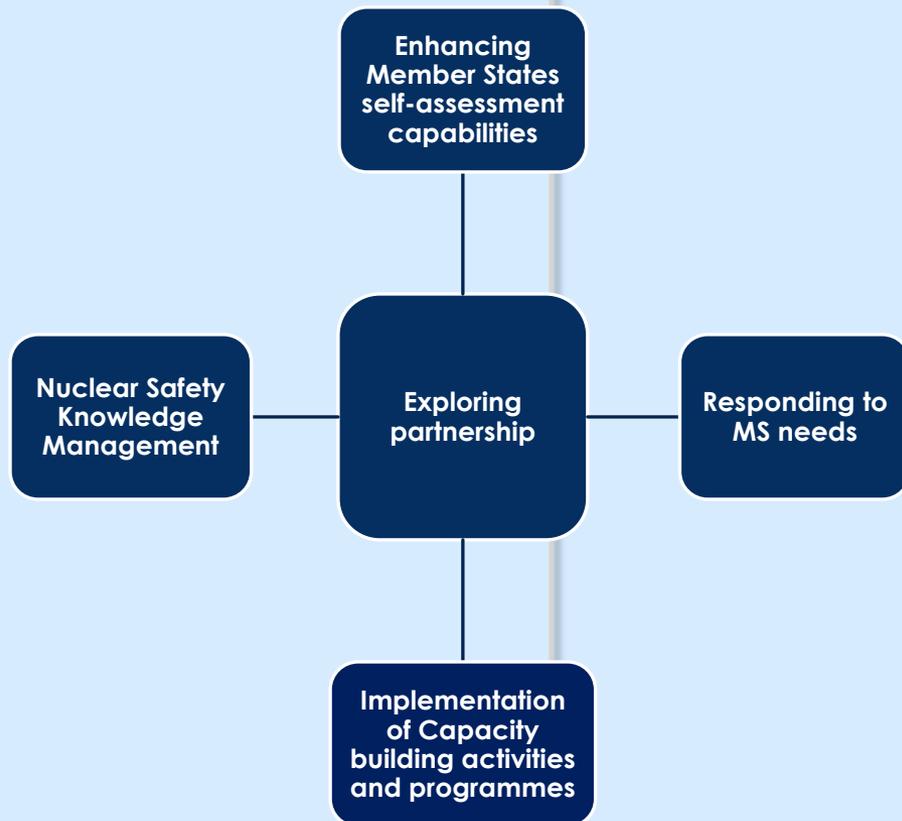
Each Member State has its own National Nuclear Regulatory Portal (NNRP) serving as an interface to the national web-based knowledge platforms.

Capacity Building Methodology



A systematic and integrated approach to develop and continuously improve competences and capabilities necessary for achieving safe, secure and sustainable nuclear power programme.

GNSSN-Capacity Building



- ▶ **Government:**
 - National strategies
 - Strategic partnership
 - Framework for Coordination
 - Governance
- ▶ **Organization:**
 - Planning
 - Management
 - Training Programme
 - Technical partnership
- ▶ **Individual:**
 - Competency
 - Knowledge
 - Training

GNSSN and Knowledge Management



FNRBA



EUROSAFE

Towards Convergence of
Technical Nuclear Safety Practices in Europe



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Information Management

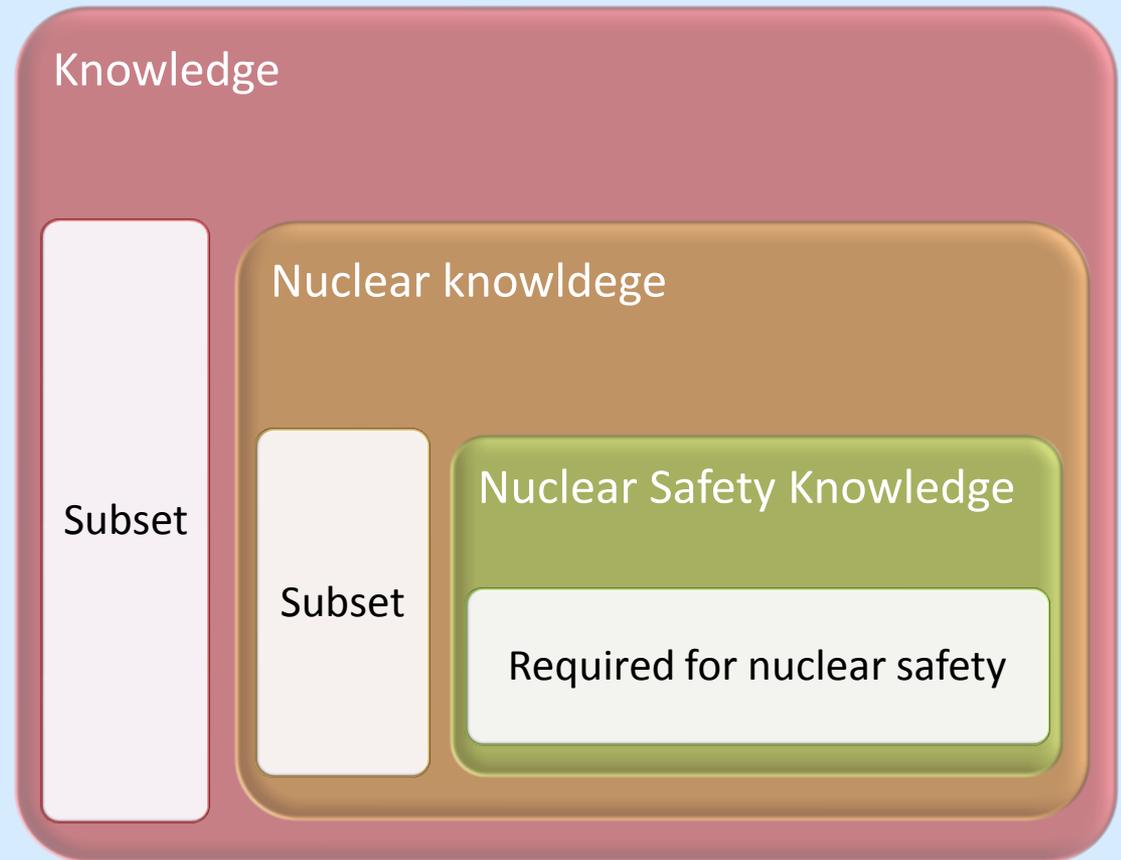
- Knowledge as an object
- IT Network
- Use and reuse of Knowledge

Human Resource Management

- Knowledge as a process
- Human network
- Creation of Knowledge

Nuclear Safety Knowledge Management

- Nuclear safety knowledge is
 - ... that subset of knowledge owned by an organization, or other entity,
 - ... that is relevant to or required for nuclear safety.



GNSSN Target Audience



- Countries with an established nuclear power programme
 - Transparency, reliable information, share nuclear knowledge
- Newcomer countries
 - Tool for capacity building, knowledge management, collaboration
- Member States with no nuclear Power programme
 - Facilitate knowledge management for sustainable development and socioeconomic benefit

Global Nuclear Safety and Security Network



- ▶ 18 Networks
- ▶ 17 Thematic Area
- ▶ 120 Member States
- ▶ Over 70 000 documents
- ▶ Over 30 000 pages viewed per month
- ▶ Since 2011, over 300 regional and national activities
- ▶ Since 2011, ~3500 experts involved in the GNSSN activities



Connect, communicate and collaborate: a worldwide gateway to help Member States build a smarter, safer planet

People who network through GNSSN have greater opportunities to learn more, grow professionally and have a bigger impact on safety and security in their own countries.

Knowledge Networks

International Conference on Human Resource Development for Nuclear Power Programmes: Building and Sustaining Capacity

Strategies for Education and Training,
Networking and Knowledge Management

12–16 May 2014, Vienna, Austria



Organized by the
IAEA
International Atomic Energy Agency
www.iaea.org/Meetings
CN-215

 **IAEA**
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- **International Conference on Human Resource Development for Nuclear Power Programmes: Building and Sustaining Capacity:**

“Knowledge networks are an effective mechanism for capacity building and for strengthening the national nuclear energy, safety and security infrastructure. Such networks can respond globally to any need in the safety and security area and have been instrumental in promoting nuclear safety and security standards and related IAEA peer review and advisory missions.”

Knowledge Networks (2)



- **IAEA Report On Capacity Building For Nuclear Safety, part of a series of reports on the lessons learned from the Fukushima Daiichi accident:**

“Global networks such as the GNSSN have been instrumental in promoting a global nuclear safety and security framework and in connecting, under one umbrella, the activities of the various participating global, regional and national networks and initiatives. Member States should consider fostering and strengthening their participation in this initiative”

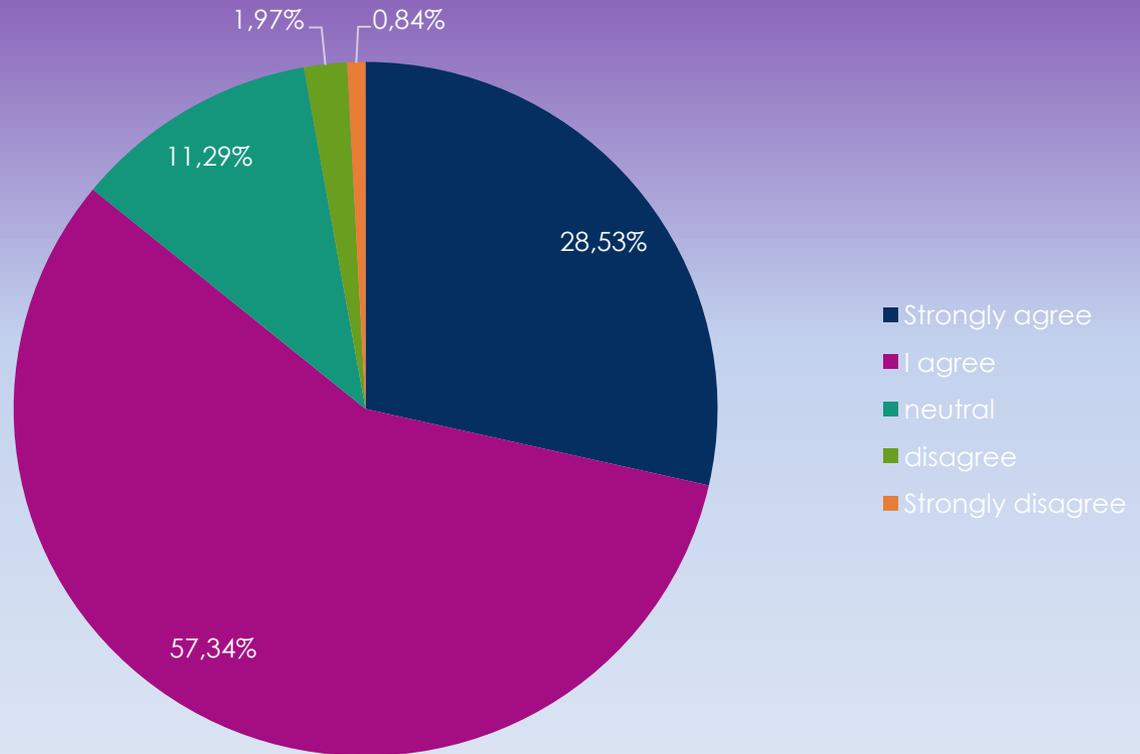


Major Achievements



- Survey conducted August and September 2014
- 516 Senior official
- 75 Member States

In your opinion what is the role of the GNSSN towards its members? Undertaking capacity building activities and facilitating involvement. 86% agree



The Survey



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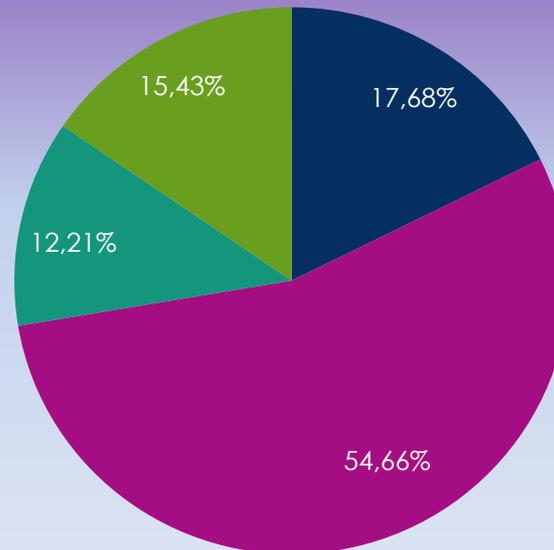
Towards Convergence of
Technical Nuclear Safety Practices in Europe



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• Capacity Building

Is GNSSN effective in serving its members with respect to Providing technical assistance/capacity building? 72% effective



- Very effective
- Effective
- Not effective
- Don't know

Goals and Priorities

Mind mapping
for education

SIGN UP

[read more](#)

- Mapping Education and Training resources globally
- Global Nuclear Safety and Security Learning Management System
- Launching the “Partnerships for Nuclear Safety”
- Implementation of the Integrated Nuclear Safety Capacity Building Plan for embarking countries in all regions
- Strengthening the inter-regional cooperation between ANSN, ANNuR and FNRBA

Conclusion



The Agency continues to :

- Play a central role in and provide a global platform for strengthening nuclear safety worldwide
- Raise awareness of the need to improve nuclear safety nationally, regionally and globally
- Assist Member States, upon request, to develop and maintain a national nuclear safety capacity building framework

*Working to protect people,
society and the environment*



GNSSN | Global
Nuclear
Safety and
Security
Network



Thank you



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