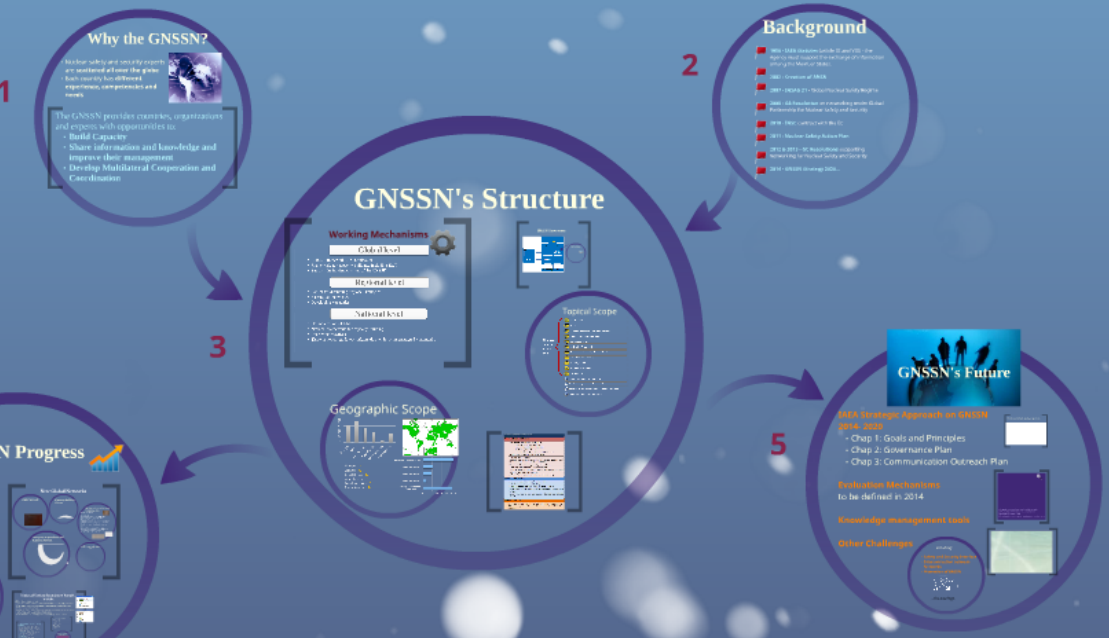


The Global Nuclear Safety and Security Network
GNSSN



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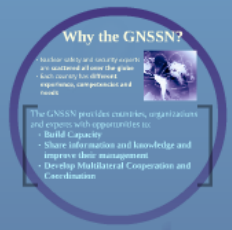

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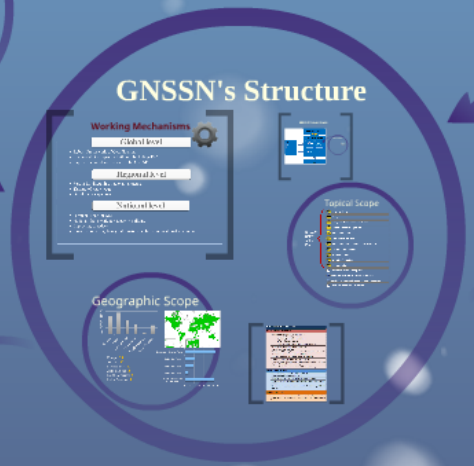

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Why the GNSSN?

- Nuclear safety and security experts are **scattered all over the globe**
- Each country has **different experience, competencies and needs**



The GNSSN provides countries, organizations and experts with opportunities to:

- **Build Capacity**
- **Share information and knowledge and improve their management**
- **Develop Multilateral Cooperation and Coordination**

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Background

- **1956 - IAEA Statutes** (article III and VIII) - the Agency must support the exchange of information among the Member States.
- **2002 - Creation of ANSN**
- **2007 - INSAG 21 -** Global Nuclear Safety Regime
- **2008 - G8 Resolution** on networking under Global Partnership for Nuclear Safety and Security
- **2010 - INSC** contract with the EC
- **2011 - Nuclear Safety Action Plan**
- **2012 & 2013 - GC Resolutions** supporting networking for Nuclear Safety and Security
- **2014 - GNSSN Strategy 2020...**



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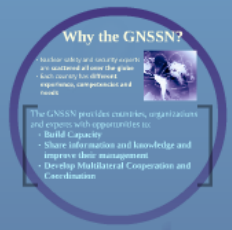

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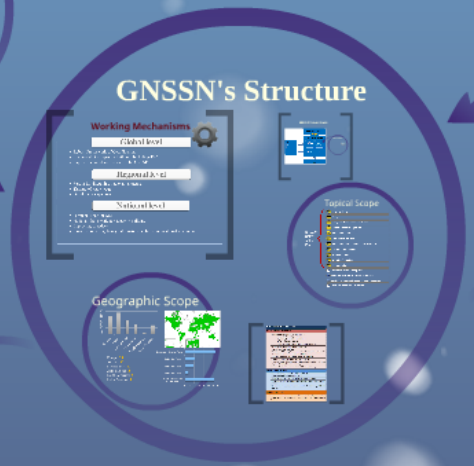

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GNSSN's Structure

Working Mechanisms

Global level

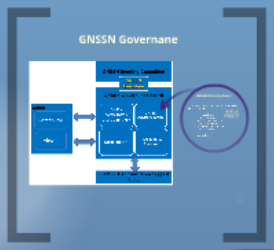
- Robust Framework of Coordination
- Framework for capacity building, Including E&T
- Support the implementation of the GNSSF

Regional level

- Forum for discussing regional strategies
- Sharing of knowledge
- Developing capacities

National level

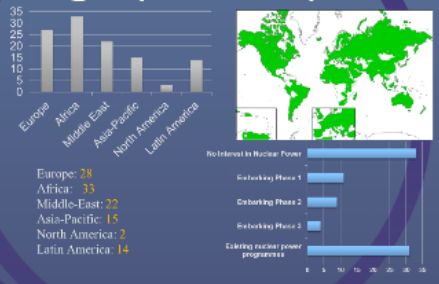
- Harmonization of KM
- National framework for capacity building
- Improving practices
- Share national regulatory information with the international community



Topical Scope



Geographic Scope



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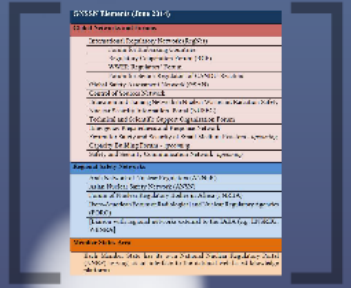

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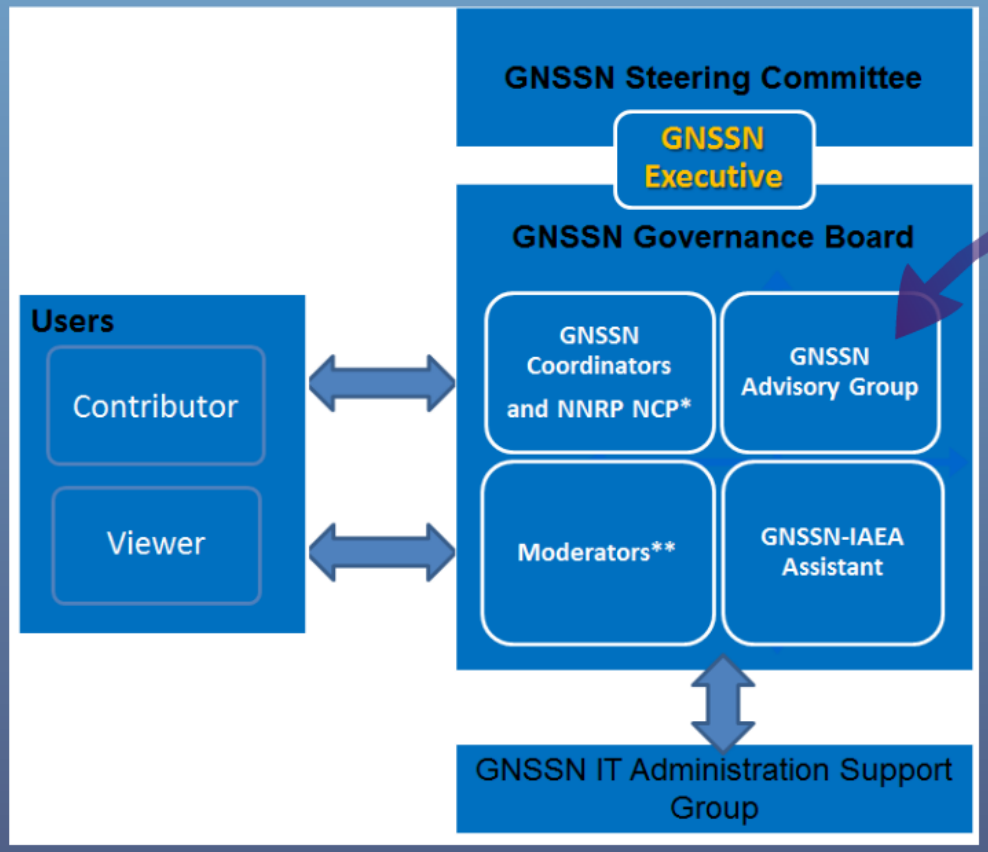

GNSSN Advisory Group

vise the GNSSN Steering Committee and the GNSSN vernance Board on:

- Strategic planning
- Policies and strategies
- Organizational structures
- Implementation procedures
- Monitoring implementation
- Review documents
- Review action plans
- Annual Reports

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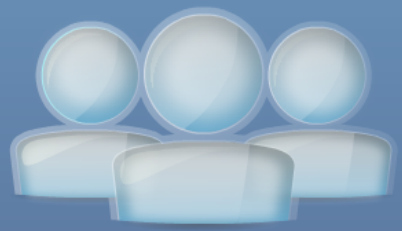

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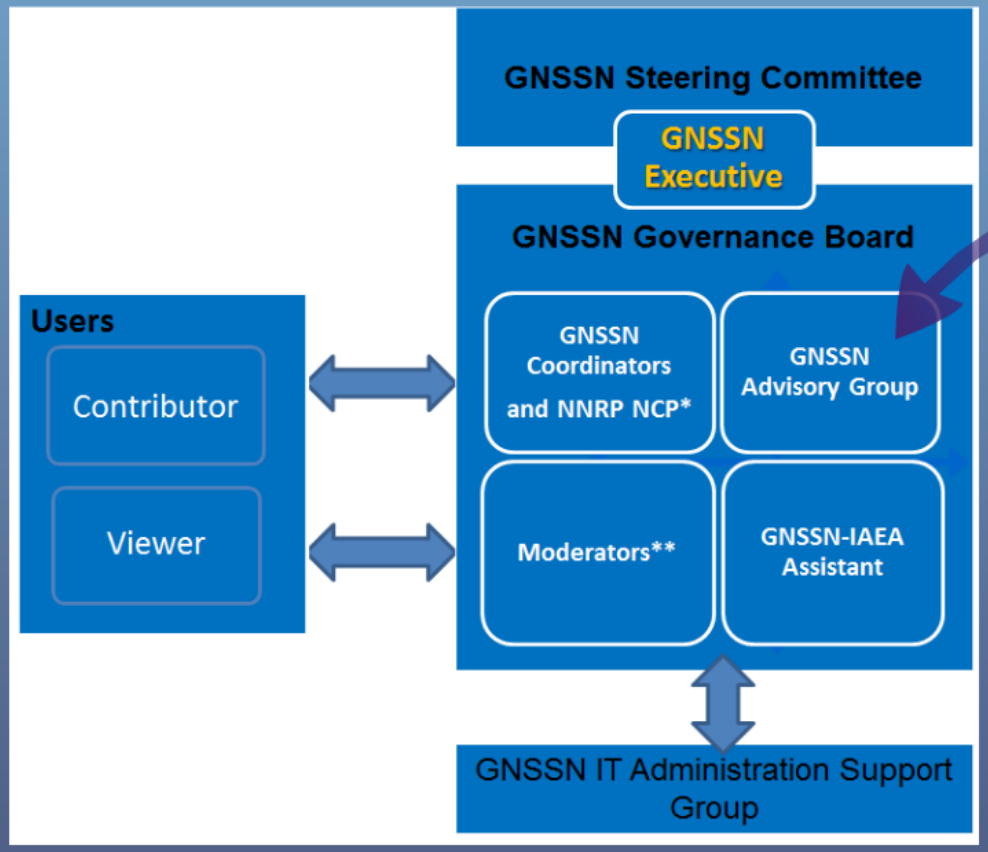

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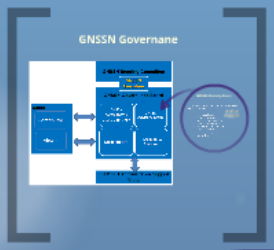

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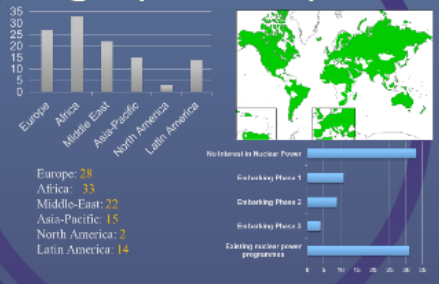

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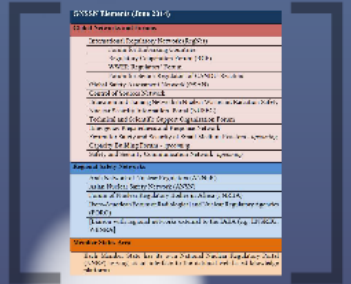
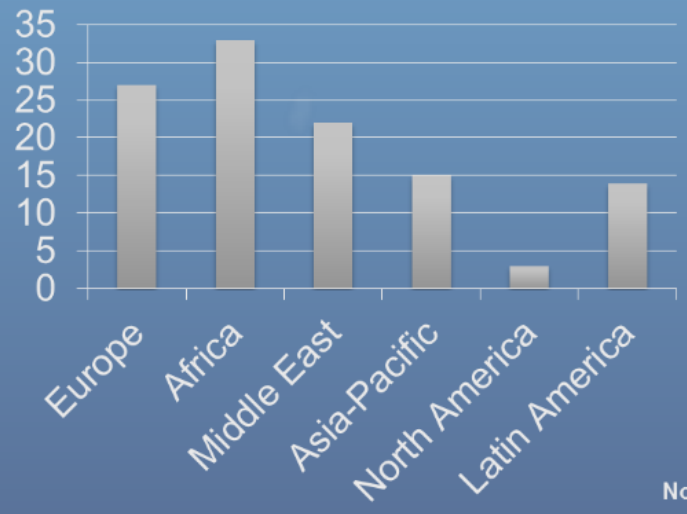


Topical Scope

Nuclear Safety Action Plan

- Safety Analysis
- Siting
- Emergency Preparedness and Response
- Leadership and Management
- Operational Safety
- Legislative Framework
- Governmental and Regulatory Infrastructure
- Education and Training
- Capacity Building
- Radiation Protection
- Communication
- Radioactive Waste Management
- Safety Management of Research Reactors
- Interface between Safety and Security (expected)
- Safety Issues of SMRs (expected)

Geographic Scope



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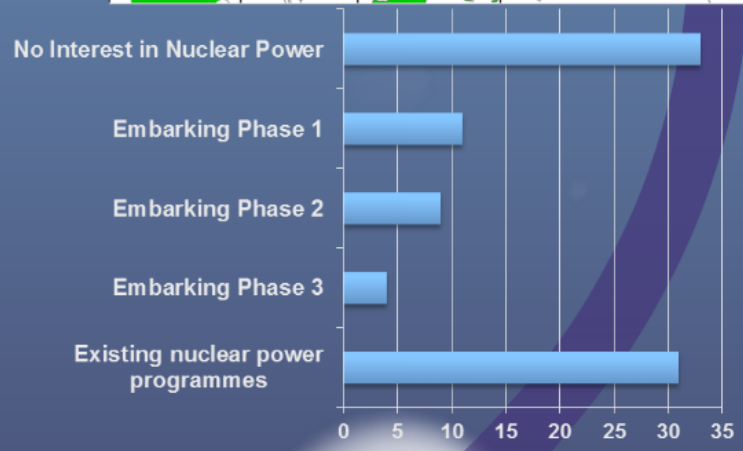

GNSSN Elements (June 2014)
Global Networks and Forums
International Regulatory Network (RegNet)
Forum for Embarking Countries
Regulatory Cooperation Forum (RCF)
WWER Regulators' Forum
Forum for Senior Regulators of CANDU Reactors
Global Safety Assessment Network (GSAN)
Control of Sources Network
Education and Training Network in Nuclear Waste and Radiation Safety
Nuclear Security Information Portal (NUSEC)
Technical and Scientific Support Organization Forum
Emergency Preparedness and Response Network
Forum for Safety and Security of Small Medium Reactors - *upcoming*
Capacity Building Forum - *upcoming*
Safety and Security Communication Network- *upcoming*
Regional Safety Networks
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)
[Liaison with regional networks external to the IAEA (e.g. ENSREG, WENRA]
Member States Area
Each Member State has its own National Nuclear Regulatory Portal (NNRP) serving as an interface to the national web-based knowledge platforms.

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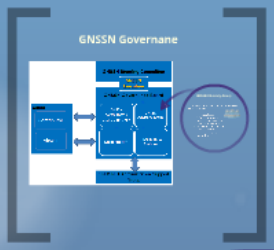

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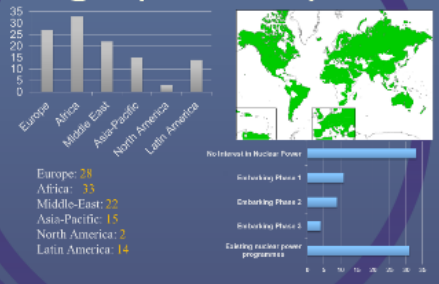

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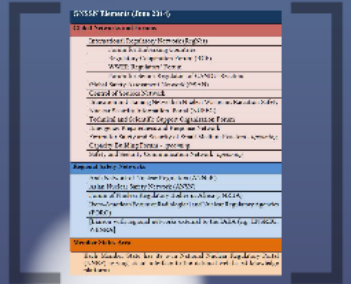



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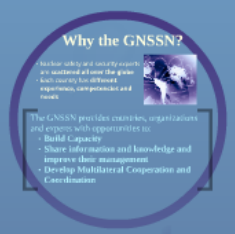

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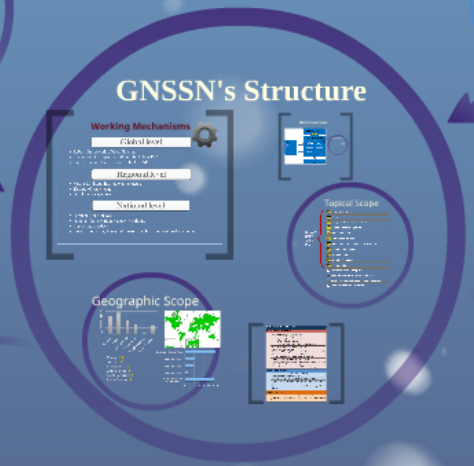

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GNSSN Progress

2013/2014



- Promote RegNet
- Develop NNRPs
- Invite Nuclear Security
- Liaison with European networks – ENSREG, WENRA, ETSON

New Global Networks

SMR Network



Capacity Building Forum



Nuclear Safety and Security Communication



Emergency Preparedness and Response Network



GNSSN Network on Management Systems



Regional Networks







+ Liaison with other external Safety and Security Networks (ENSREG, ETSON, WENRA, HERCA)

National Nuclear Regulatory Portals NNRPs

Collaboration on National Level:

- Serve as interfaces between national stakeholders and GNSSN community
- Ensure visibility and promote networking among national stakeholders
- Help increase transparency
- Communicate to the international community on national achievements and current status of nuclear safety infrastructure
- Help harmonize national approaches to knowledge management







2013/2014







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New Global Networks

SMR Network

- New SMR network, coming in 2014
- Outcome of INPRO Dialog Forum
- Independent of INPRO
- Safety guidance on SMR
- Assist embarking regulators
- Sharing of information on SMR technologies
- International cooperation
- IAEA Safety Standards and Guides



Capacity Building Forum



- Coming in 2014
- Term of Reference drafted
- Based on IAEA Capacity Building Methodology
- Holistic Support in nuclear safety (Integrated Nuclear Safety Capacity Building Management Plan)
- Harmonization of activities in the four elements of capacity building
- Regional Networks will take lead in the implementation of the activities

Nuclear Safety and Security Communication

First CS on 3-5 Sept. 2014



Expected to cover:

- General aspects - Com. and consultation with interested parties (GSR Part 1, Req 1 and 36; GS-R-3, Req 3.6 and 5.26 and DS460)
- Communication & New Nuclear Power Programme / Siting
- EPR Communication (EPR-Public Communications 2012)
- Waste management (GSR Part 5, Req. 5.1)
- Security aspects / Communication vs. Confidentiality
- Existing exposure situation (e.g. Radon) – DS421
- Nuclear Safety and Security Outreach





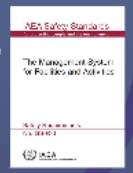
Emergency Preparedness and Response Network

- Requested By National Competent Authorities Coordinating Group
- Includes Thematic Sub-networks
  - Emergency planers
  - Medical Communities
  - First responders etc.
- Includes Regional networks
  - Competent Authorities common regional collaborative workspace
- CS in April 2014 - Launch expected by July 2014



GNSSN Network on Management Systems

- IAEA Safety Standards Series No. GS-R-3 : "Management System for Facilities and Activities"
  - Promote and maintain Safety Culture
  - Improve regulatory processes
  - Harmonization of management systems
- First Consultancy meeting will Take place in 2014
- Expected to be online Q2, 2015



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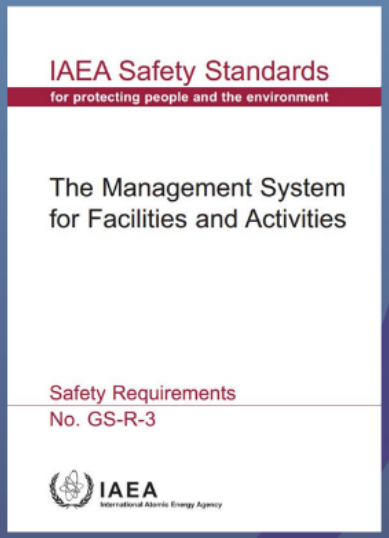

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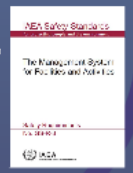

Regional Networks

ANSN
Asian Nuclear Safety Network

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Asian Nuclear Safety Network

Established in 2002

- From 1998 to 2002, ANSN was implemented as an EBP-Asia

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 support dynamic development of nuclear programmes in the region.



Forum FNRBA

Established in 2009

FNRBA

Objectives

- Strengthening and harmonisation of the radiation protection, nuclear safety and security regulatory infrastructure and framework among the members of FNRBA; and
- The FNRBA to act as an effective and efficient internationally recognized forum for the exchange of regulatory experiences and practices among the nuclear regulatory bodies in Africa

Member Countries (33)

- Algeria, Angola, Benin, Botswana, Burkina Faso, Cameroun, Chad, Cote D'Ivoire, DR Congo, Egypt, Ethiopia, Gabon, Ghana, Kenya, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Namibia, Niger, Nigeria, Senegal, Seychelles, Sierra Leone, South Africa, Sudan, Tanzania, Tunisia, Uganda, Zimbabwe .

Implementation Framework

- The project is an Extra Budgetary Programme (EBP) implemented with financial support from European Commission, Korea and U.S.A. as well as IAEA regular budget

ANNuR
Arab Network of Nuclear Regulators

Established in 2010

Objectives

- Facilitate the cooperation between Arab, regional and international nuclear bodies;
- Capacity building system to share knowledge and experience between regulators in Arab countries;
- Enhancement of nuclear safety infrastructures in Arab countries;
- Provide regulatory insights to nuclear safety issues specific to Arab countries.



Member Countries (22)

- Bahrain, Egypt, Iraq, Jordan, KSA, Kuwait, Lebanon, Libya, Mauritania, Morocco, Palestine, Sudan, Syria, Tunisia, Yemen, Algeria, Comoros, Djibouti, Oman, Qatar, Somalia, UAE.

Practical Arrangements signed between ANNuR and the IAEA in April 2014

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- Enhancement of nuclear safety infrastructures in Arab countries;
- Provide regulatory insights to nuclear safety issues specific to Arab countries.



Member Countries (22)

- Bahrain, Egypt, Iraq, Jordan, KSA, Kuwait, Lebanon, Libya, Mauritania, Morocco, Palestine, Sudan, Syria, Tunisia, Yemen, Algeria, Comoros, Djibouti, Oman, Qatar, Somalia, UAE.

Practical Arrangements signed between ANNuR and the IAEA in April 2014

Implementation Framework

- The project is an Extra Budgetary Programme (EBP) implemented with financial support from European Commission, Korea and U.S.A. as well as IAEA regular budget

+ Liaison with other external Safety and Security Networks (ENSREG, ETSON, WENRA, HERCA)

National Nuclear Regulatory Portals NNRPs

Collaboration on National Level:

- Serve as interfaces between national stakeholders and GNSSN community
- Ensure visibility and promote networking among national stakeholders
- Help increase transparency
- Communicate to the international community on national achievements and current status of nuclear safety infrastructure
- Help harmonize national approaches to knowledge management



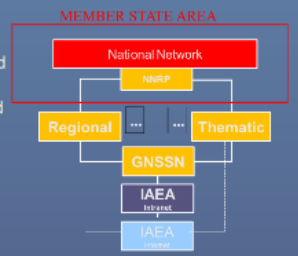


30 National Contact Points for NNRPs already nominated:

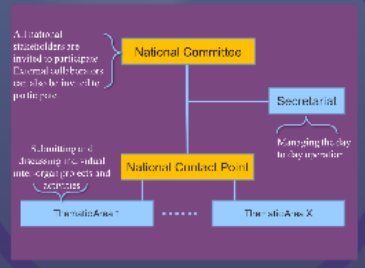
- **Europe**: Belarus, Bosnia, Bulgaria, Finland, France, Greece, Cyprus, Germany, Hungary, Latvia, Macedonia, Romania, Russia, Slovenia, Serbia, Spain, Turkey, Ukraine.
- **Asia-Pacific**: Thailand, Tajikistan, Australia.
- **Africa**: Niger, Senegal, Kenya, Ghana.
- **North America**: Canada, USA
- **Middle-East**: Iran.
- **South America**: Chile, Uruguay.

NNRPs support to GNSSN mission

- Broaden collaboration and enhance knowledge transfer
- Promote national capability and knowledge internationally
- Support the national safety and security infrastructure development
- Help harmonize national approaches to knowledge management



Suggested Structure of National Safety and Security Networks



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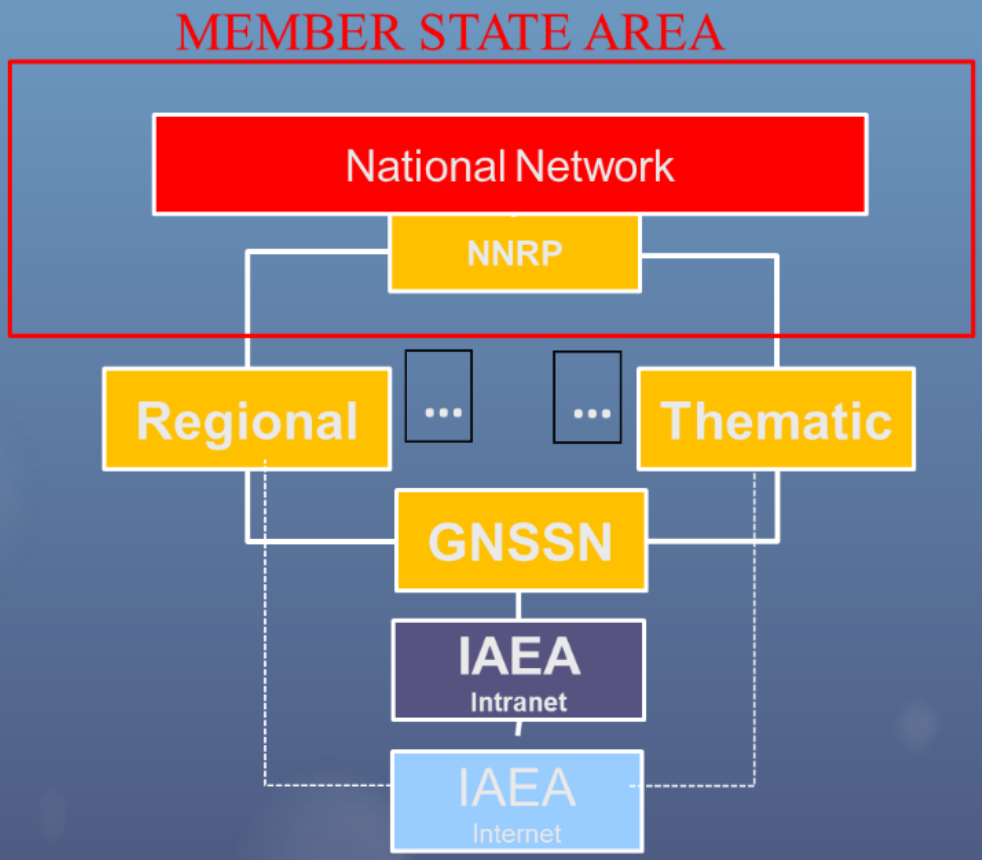

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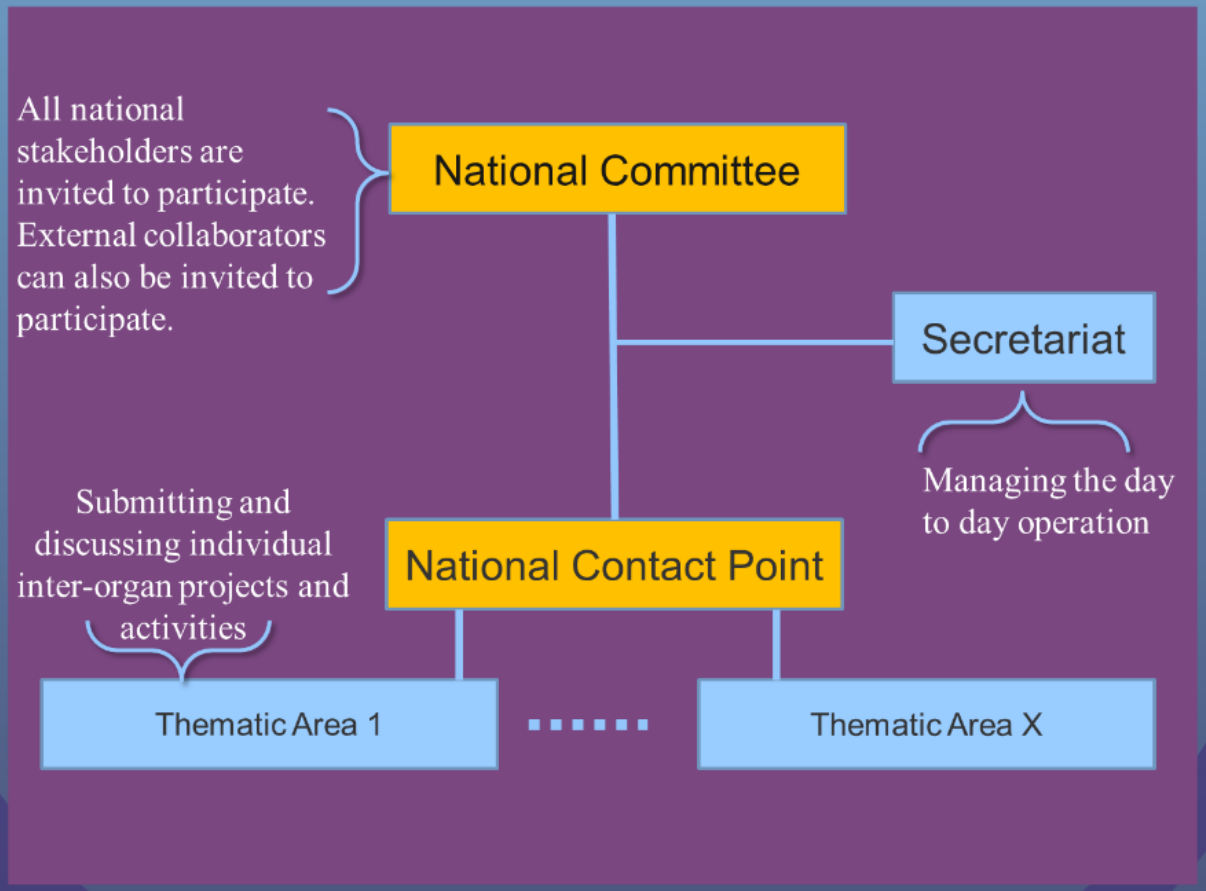

GNSSN Progress

2013/2014



- Promote RegNet
- Develop NNRPs
- Invite Nuclear Security
- Liaison with European networks – ENSREG, WENRA, ETSON

New Global Networks

SMR Network



Capacity Building Forum



Nuclear Safety and Security Communication



Emergency Preparedness and Response Network



GNSSN Network on Management Systems



Regional Networks







+ Liaison with other external Safety and Security Networks (ENSREG, ETSON, WENRA, HERCA)

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The Global Nuclear Safety and Security Network
GNSSN

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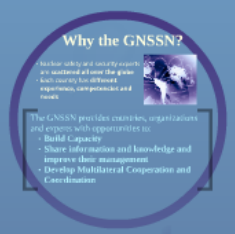

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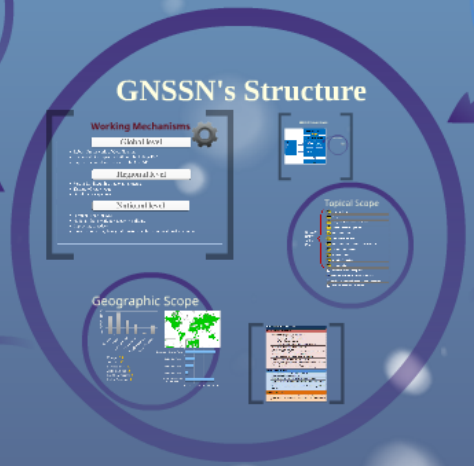

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GNSSN's Future

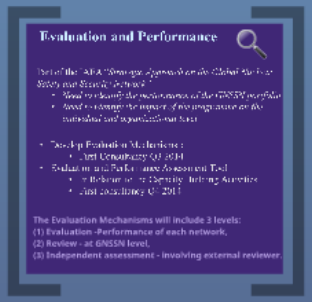
IAEA Strategic Approach on GNSSN 2014- 2020

- Chap 1: Goals and Principles
- Chap 2: Governance Plan
- Chap 3: Communication Outreach Plan

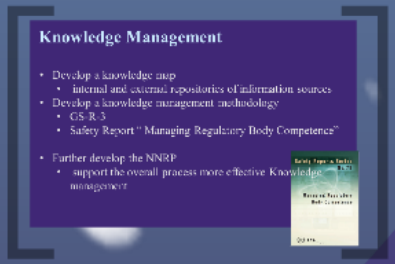


Evaluation Mechanisms

to be defined in 2014



Knowledge management tools



Other Challenges

including:

- **Safety and Security Interface**
- **Interconnection between Networks**
- **Promotion of GNSSN**

GNSSN

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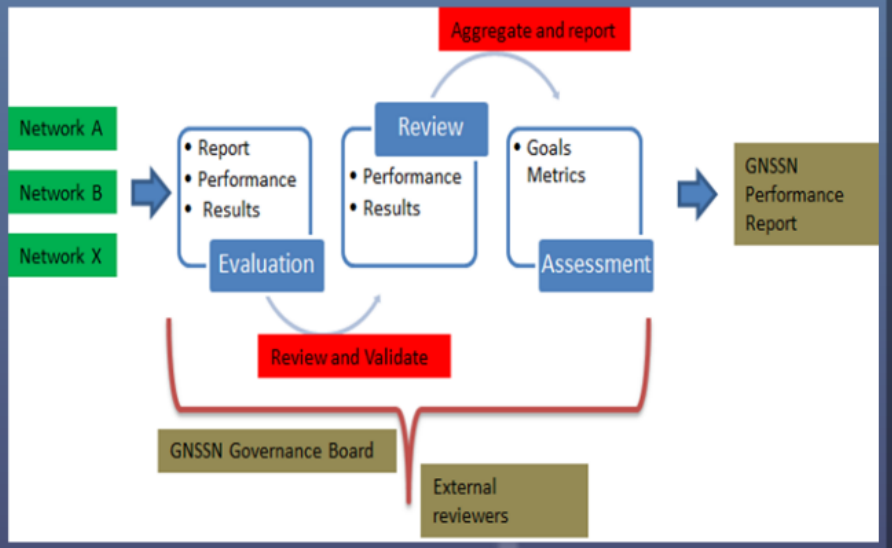
Elements of GNSSN Strategic Approach

- Supporting IAEA major program 3
- GNSSN Strategic Goals
- Operations
- Implementation Mechanisms
- Evaluation and monitoring
- Outreach and Communication





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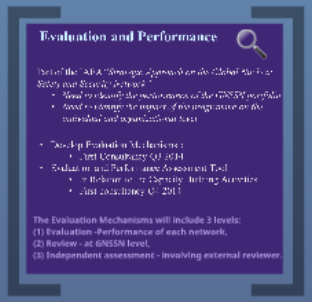

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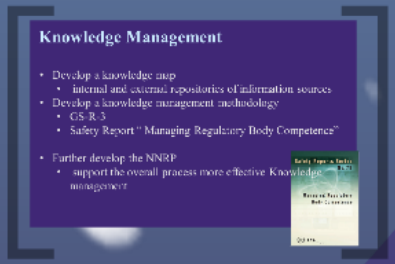

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GNSSN

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Evaluation and Performance



Part of the IAEA "*Strategic Approach on the Global Nuclear Safety and Security Network*"

- *Need to identify the performance of the GNSSN portfolio*
- *Need to identify the impact of the programme on the individual and organizational level*

- Develop Evaluation Mechanisms :
  - First Consultancy Q3 2014
- Evaluation and Performance Assessment Tool
  - In Relation to the Capacity Building Activities
  - First consultancy Q4 2014

The Evaluation Mechanisms will include 3 levels:
(1) Evaluation -Performance of each network,
(2) Review - at GNSSN level,
(3) Independent assessment - involving external reviewer.

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GNSSN's Future

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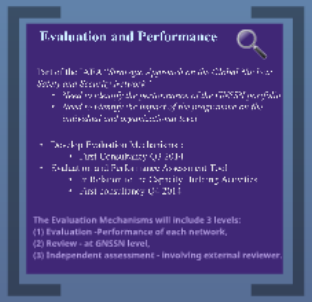

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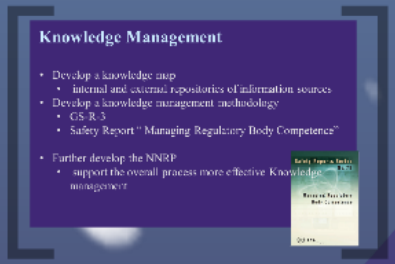

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Knowledge Management

- Develop a knowledge map
  - internal and external repositories of information sources
- Develop a knowledge management methodology
  - GS-R-3
  - Safety Report " Managing Regulatory Body Competence"

- Further develop the NNRP
  - support the overall process more effective Knowledge management



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GNSSN's Future

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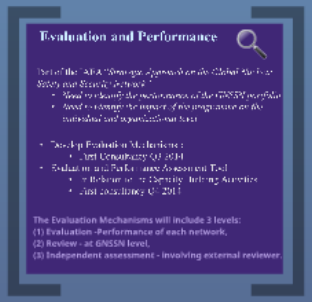

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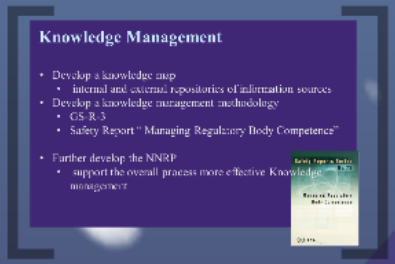

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The Global Nuclear Safety and Security Network
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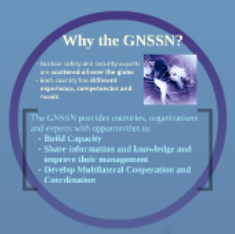

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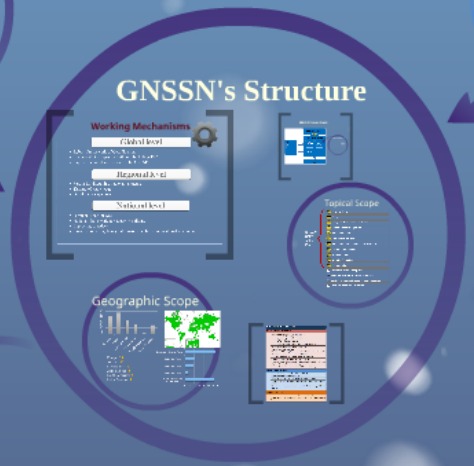

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