



GNSSN Overview

Concept, Development and IT Perspectives

the 1st Steering Committee Meeting for GNSSN

IAEA Headquarters, Vienna, Austria
02–04 April 2012

L.Guo

Safety and Security Section
Department of Nuclear Safety & Security

Contents

- **Background Information**
- **Activities and achievements;**
- **Resources and external funding;**
- **Further improvement**



Background

- This project was initiated as result of Conference on the Regulatory Effectiveness in 2006, Moscow; and strong support from G8 and other Member States;
- Prototype platforms for GNSSN and RegNet were established and implemented in German side;
- GNSSN project was launched in IAEA regular budget from 2008;

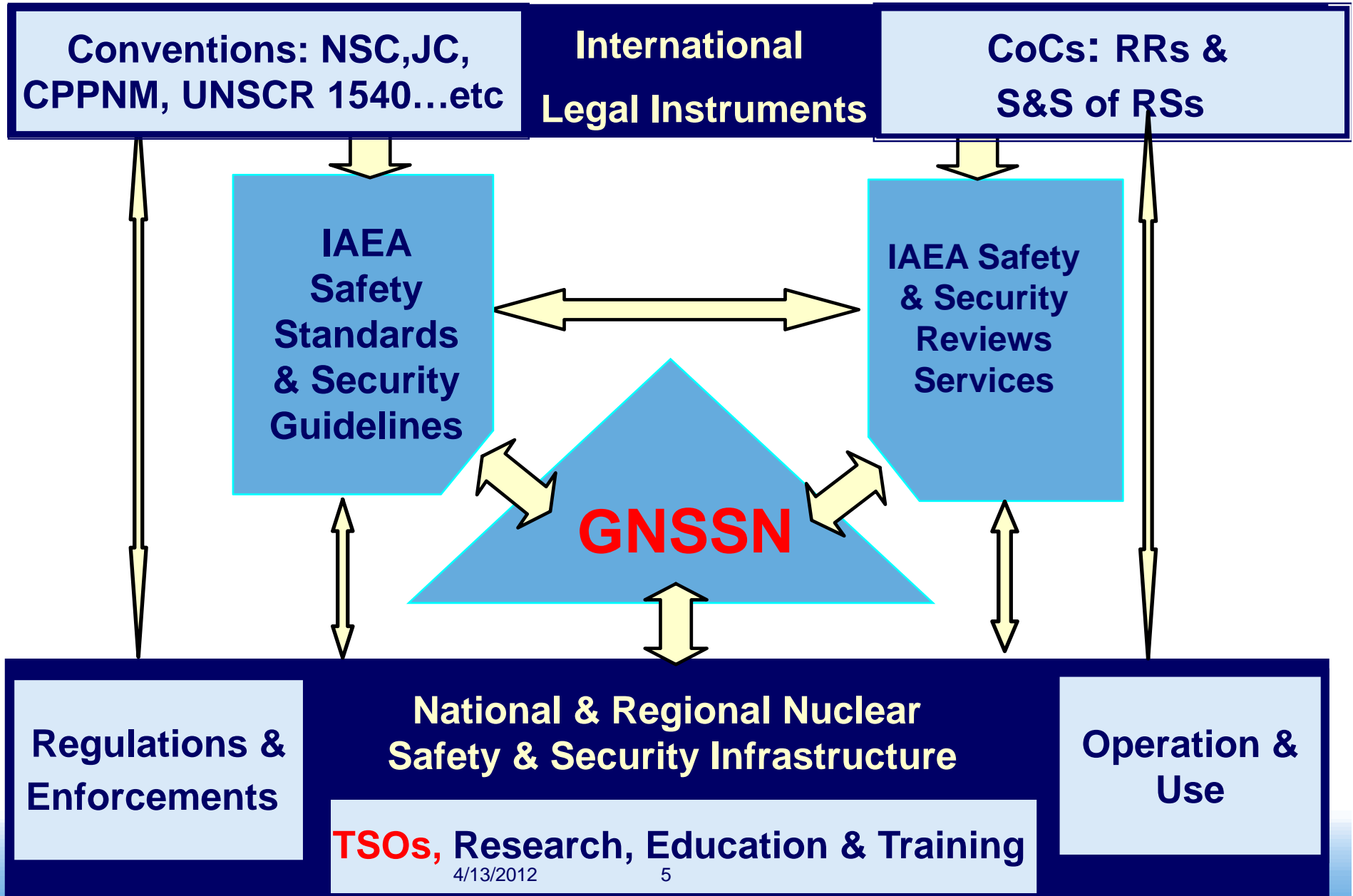


Background (Cond')

- 1st Technical Meeting (TM) on the Establishment of the International Regulatory Network (RegNet) was held from 24 –28 November 2008, Vienna, Austria
- Architectural design/project plan for GNSSN/RegNet started to implement and accomplishment in IAEA (IT Platform);
- Official Announcement in the International Conference on Effective Nuclear Regulatory Systems, 14 to 18 December 2009 in Cape Town, South Africa;



Global Nuclear Safety & Security Framework



Vision and Mission



Vision

Nuclear Safety and Security information and knowledge are globally managed as a resource (IAEA Standard GS-R-3)

Mission

To ensure that Nuclear Safety and Security knowledge, experience and lessons learned are made visible and available

IT Network

- through links between platforms and exchanged as broad as they need to be

Human Network

- to enable and support interaction and collaboration between competent people and organizations



What is the GNSSN?



INSAG 21: STRENGTHENING THE GLOBAL NUCLEAR SAFETY REGIME, A report by the International Nuclear Safety Group

- Introduction of Global Nuclear Safety Regime;
- Promotion of Convention of Nuclear Safety;
- Promotion of IAEA safety standards and their applications;
- Promotion of information exchange, including the operating experience feedback;
- Promotion of international cooperation



What is the GNSSN?



The GNSSN comprises a set of existing networks and information resources (public and restricted).

GNSSN aims to ensure that critical knowledge, experience, and lessons learned about safety and security are exchanged as broadly as they need to be and to enable and support interaction and collaboration between professionals and organisations.



Structure of the GNSSN (1)



- National Safety and Security Infrastructure
- International Nuclear Industry
- International Organizations and Bodies
- RegNet – multinational networks among regulators
- Multinational Networks Among Operators
- Public, News Media ...



Structure of the GNSSN (2)



- International Conventions
- Codes of Conduct
- International Safety Standards
- International Security Guidance
- Review and Appraisal Services
- Joint R&D Projects
- Operating Experience Exchange
- International Conferences and Workshops





The International Regulatory Network ▶

Home Global Networks ▶ Regional Networks ▶ Thematic Networks ▶ Authorized Area ▶ Sitemap

Cooperation among Regulators

RCF

Thematic Regulatory Networks

CANDU

CSN

Regional Regulatory Networks

International Organizations & Bodies

Member States Area

NNRP

IAEA Area

Education & Training
E&T Collaboration Space

Recycle Bin
All Site Content

The International Regulatory Network (RegNet)

The International Regulatory Network is

- the Portal for web-based international cooperation among nuclear safety and security regulators.
- an information and collaboration platform of the **Global Nuclear Safety and Security Network (GNSSN)**.
- based on the concept of the global nuclear safety and security framework and makes use of nuclear safety and security information products.

RegNet supports national and international actors in sharing of regulatory knowledge, practices and information and in fostering collaboration.

The Objective of the Regulatory Network is

- to contribute to the effectiveness of nuclear regulatory systems,
- to contribute to continuous enhancements and
- to achieve and promote radiation and nuclear safety and security by:

- Enhancing the effectiveness and efficiency of international cooperation in the regulation of nuclear, radiation, transport and waste safe and radiological emergencies;
- Enabling adequate access by regulators to relevant safety and security information;
- Promoting dissemination of information on safety and security issues as well as information of good practices for addressing and resolving safety and security issues;
- Enabling synergies among different web based networks with a view to strengthening and enhancing the global nuclear safety framework organizations;
- Providing additional information to the public on international regulatory cooperation in safety and security matters.

Structure of the RegNet



RegNet Principles

- Process owners are ultimately responsible for content and quality;
- Process owners recognize that they are part of a broader community of networks;
- Process owners make continuous efforts to render the network visible and conducive to international cooperation;
- Process owners strive for common solutions, for using best practices and advanced technologies, and for optimal use of resources;
- Process owners adhere to agreed commitments;
- Process owners ensure sustainability and continuous improvement of the RegNet.



Activities and Achievements

- Several meetings were held to further develop the framework and detailed technical aspects, including the development of National Nuclear Regulatory Profile (NNRP);
- Successful test case for the Regulatory Cooperation Forum (RCF);
- September 2010, release of public websites for GNSSN, RegNet and its sub-sites; [Http://gnssn.iaea.org/](http://gnssn.iaea.org/)



Activities and Achievements

2nd TM on “Global Nuclear Safety and Security Network (GNSSN), Development of the International Regulatory Network (RegNet)”

The results of the meeting were to discuss how to further improve the platform and develop the work plan, which includes:

- Establishment of a Steering Committee of GNSSN;
- Further development of IT infrastructure;
- Establishment and promotion of National Nuclear Regulatory Portals;
- Extension of forums and collaboration spaces under GNSSN.



Activities and Achievements

- Coordination meetings with regional networks in March 2011 resulting proposals to initiate supporting ANNuR and FNRBA developments within the GNSSN;
- National Nuclear Regulatory Portal workshop in July 2011, Bonn Germany;
- TSO forum in July 2011, IAEA Headerquarter ;
- 3rd Round table discussion during the 55th General Conference in September;
- Expert Meeting on GNSSN, 14 to 16 November.



Activities and Achievements

- **New team sites**
 - TSO forum
 - GSAN
 - Control of Sources Network

- Reports and presentations of GNSSN events

- National nuclear regulatory portals for selected countries

- Migration to SharePoint 2010 version



GNSSN Resources and Funding

Networking Group in the Safety and Security Coordination Section

- Around 10 staff members;
- Responsible for networking activities
- Extra-budgetary funding and cost-free experts



New Requirements (1)

- Regional networks for ANNuR and FBRBA
- Expand the use of GNSSN and as a platform for internal and external teams: peer review missions, projects, meetings, workshops, forums.
- Provide better access and advanced searching tools via GNSSN for safety and security information managed by the Agency.
- Organize information in a better way using meta data and content types;
- Support the revision processes of safety standards



New Requirements (2)

- Enhance the GNSSN role as a network for external safety networks.
- Establish a Steering Committee for GNSSN;
- Improved structure and design using SharePoint 2010 features;
- Integration of Video-Conferencing services;
- New website for the TSO Forum in global sense was established based on the results from July TSO preparatory meeting;



New Requirements (3)

Public and restricted sites;

Collaboration space for the registered members:

- Terms of Reference
- Team Members
- Events and announcements
- Shared files and documents
- Discussion Forums
- Working Groups (technical areas)
- Pool of experts



Current Status (Demonstration)

GNSSN consists of the global, regional and thematic networks

- **Global Networks:**

International Regulatory network (RegNet);

Global Safety Assessment Network (GSAN);

Technical and Scientific Support Organization (TSOF);

- **Regional Networks**

Arab Network of Nuclear Regulators (ANNuR);

Asian Nuclear Safety Network (ANSN);

European Nuclear Safety Regulators Group (ENSERG);

The European Technical Safety Organizations Network (ETSON);

Forum of Nuclear Regulator Bodies in Africa (FNRBA); and

Red-Iberoamericana FORO



Current Status (Demonstration)

GNSSN consists of the global, regional and thematic networks

- **Thematic Networks**

CANDU Senior Regulators

Control of Source Network (CSN)



Current Status (Demonstration)

International Regulatory Network (RegNet)

Cooperation among Regulators;
Thematic Regulatory Networks;
Regional Regulatory Networks;
Education & Training;
International Organizations and Bodies;
Member States Area and

IAEA Area:

Regulatory Knowledge Portal;
Review and Appraisal Service;
Events and Experience Feedback
Technical Working Groups



International Activities to promote GNSSN

- ANNuR Plenary and SC meeting, end of April;
- 4th FNRBA Plenary, Cameroon, 27-30 March, 2012;
- Preparatory Meeting for TSOF, 18-20 January, 2012;
- 1st GNSSN SC meeting 02-04 April, 2012;
- Two Expert Meetings with ANNuR and FNRBA to develop the IT platforms applying the SharePoint under GNSSN;
- Technical meeting on Establishing, Developing and Maintaining Capacity Building in Member States; 17-20 April, Vienna;
- International workshop on the National Nuclear Regulatory Portal (NNRP); 2nd Half, 2012. Vienna;
- 1st ANSN Plenary, during 56th GC, September, 2012
- TSOF Plenary, during 56th GC, September, 2012;
- 1st TSOF SC meeting, Germany, 06-07 September, 2012;



Further Development

- Strengthening the GNSSN SC;
- Commitment and support from all Stakeholders including the IAEA Member States and other international organizations;
- Promotion of GNSSN to further enhance the human and IT networks regionally and globally;
- Promotion the cooperation and coordination among the networks under GNSSN;
- Commitment from MSs to maintain and update the knowledge and information related to nuclear safety and security from national level.





**Thank you for your
kind attention!**

➤ [The GNSSN Web Site](#)

