

Update on Enhancements to the GNSSN IT Platform

**17th GNSSN SC Meeting (Virtual),
IAEA, Vienna
6 - 7 Dec 2021**

KUNJEER Sameer
(Networks Management and Partnership Section, NSOC)

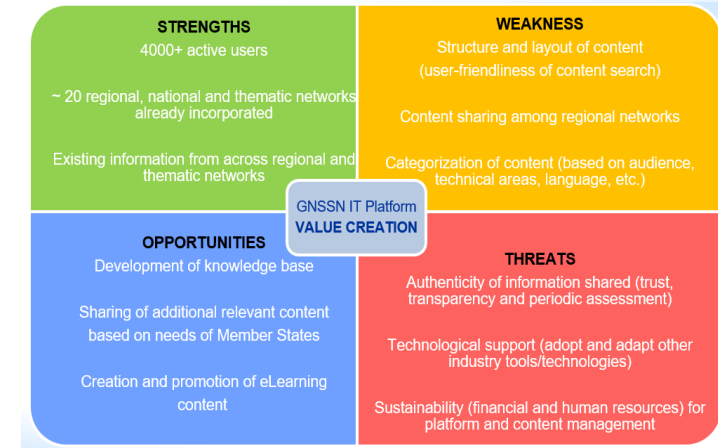
Outline

- Background
- Work Done
- Way Ahead



Background

- GNSSN Steering Committee Meeting: June 2021
 - Background, achievements and SWOT analysis for GNSSN website presented;
 - Discussed and agreed to restructure the GNSSN website for value-add features- specifically considering the opportunities;
 - Initial phase (Phase I) focussed on maintaining up-to-date content, removing redundancy and discarding content which is out of context.



- Project Brief drafted by IAEA Secretariat and shared with GNSSN Steering Committee Members in June 2021. It includes:
 - Existing Challenges;
 - Benefits derived owing to restructuring and further enhancements;
 - Phases & Timelines;
 - Stakeholders (**draft not yet completed**);
 - Assumptions;
 - Risks;
 - Resources;
- Further development of GNSSN website to continue using SharePoint 2019 technologies.
- Restructuring of public face of GNSSN website discussed internally and work completed.
- Development of new sub-sites under GNSSN to consider the layout of newly restructure RegNet website (public face).

GNSSN Website Restructuring

Project Outline

Background

Objective

The objective of this document is to present a brief history of the GNSSN website evolution over the last decade, capture existing challenges (technical as well as governance) for maintaining information in the GNSSN website, and outline a future roadmap for restructuring the GNSSN website and subsequently streamlining the procedures for content management, via an IT Governance Plan. Additionally, this document provides specific information on the various key entities (such as regional, thematic, and national networks/fora) hosted under the GNSSN IT infrastructure and provides a SWOT analysis related to the proposed website restructuring.

History

The GNSSN IT platform was initially established in the 2009-2010 timeframe by Gesellschaft für Anlagen- und Reaktorsicherheit (GRS), Germany. For the first 1-2 years, it was hosted on the GRS web content infrastructure in Germany. The website was implemented only elements included on Network (RegNet) and Nat

Assumptions

- GNSSN stakeholders' availability during the project analysis phases is important to avoid delays. Priorities of different technical projects and initiatives would not cause hindrances in the GNSSN restructuring project, except for a short transition period (usually a change window of 2-3 hours)
- Any new projects/collaboration spaces implemented under GNSSN server infrastructure would adhere to the new structure and be consistent with the agreed visual layout.

Risks

- Currently the GNSSN server infrastructure is hosted by the IAEA Secretariat and is based on Microsoft SharePoint technologies (version 2013). However, in Phase II there is a major technological upgrade of SharePoint technologies to SharePoint 2019. The migration is assumed to be a "lift and shift" exercise. However, in recent meetings with the IAEA's Central IT Division, it has been noted that additional efforts would be needed by the GNSSN team to verify the migration results and if necessary, remediate any outstanding technical issues. Moreover, based on the past migration experience in 2013, certain technical issues are anticipated, which might need remediation and thereby lead to additional delays.
- Resources availability throughout the project phases to avoid delays.

Resources

Benefits:

The GNSSN IT platform has a primary objective to facilitate sustainable nuclear safety and security infrastructure through the sharing of knowledge, good practices, experiences and lessons learned by using the three essential approaches: Connect, Communicate and Collaborate. Additionally, the following objectives will continue to serve as the principal means for measuring success of this project to enhance the GNSSN IT platform:

1. Enhance and maintain the quality of the national and regional safety and security networks and its global expertise.
2. Highlight valuable information and provide a consistent and integrated online presence to meet the evolving needs of its users.
3. Exchange, pool and share nuclear safety and security information, good practices, lessons learned, and expertise in a more structured manner.

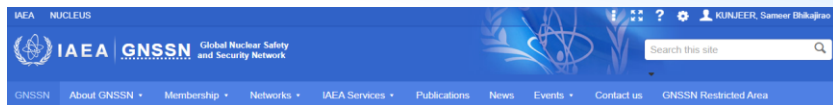
Stakeholders:

A detailed stakeholder mapping across the project phases would be drafted in

lines for each of the phases are outlined. phase (analysis, implementation and validation) d be provided in a detailed project plan at a later



Work Done – Restructuring of GNSSN public interface



Highlights

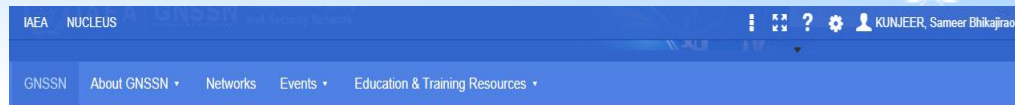
GNSSN Highlights - Issue 3
GNSSN Information brochure
GNSSN Annual Report - 2015
GNSSN Annual Report - 2016
GNSSN Annual Report - 2017
GNSSN 4th Plenary - 2017
GNSSN 5th Plenary - 2018
GNSSN 6th Plenary - 2019
GNSSN 10th Steering Committee Report
GNSSN 11th Steering Committee Report
GNSSN 12th Steering Committee Report
GNSSN 14th Steering Committee Report
GNSSN Survey Report
GNSSN Communication Plan
Fact sheet - ANSN
Fact Sheet - ANNuR
Fact Sheet - FNRBA
Fact Sheet - EuCAS



News

There are no items to show in this view of the "News" list. To add a new item, click "New".

Videos



The IAEA Global Nuclear Safety and Security Network (GNSSN) is a human network operating at global, regional and national levels, supported by a strong web platform. GNSSN is a key support element of the Global Nuclear Safety and Security Framework (GNSSF) defined here as "the institutional, legal and technical framework for ensuring the safety of nuclear installations throughout the world. The objective of this [framework] is to lead to a world where all nuclear installations are operating safely" (Strengthening the Global Nuclear Safety Regime, INSAG Series No. 21).

Upcoming Events

Associated Network Icon	Title	Venue	Event Date	Contact Person Details	More Details...
	17th GNSSN Steering Committee Meeting, 6-7 Dec 2021, Virtual Event	IAEA, Vienna	06 Dec 2021 - 07 Dec 2021	Mr. GUO Lingquan (L.Guo@iaea.org)	
	Training Course on the Development of Regulatory Requirements for Radioactive Waste Management, 6-10 Dec 2021, Virtual Event	IAEA, Vienna	06 Dec 2021 - 10 Dec 2021	Mr. KUNJEER Sameer (S.B.Kunjeer@iaea.org)	



Quick Links

[% GNSSN Highlights \(2016-2017\)](#)
[% GNSSN Information Brochure](#)
[% GNSSN Annual Report \(2017\)](#)
[% GNSSN Annual Report \(2016\)](#)
[% GNSSN Annual Report \(2015\)](#)
[% Fact Sheet - ANSN](#)
[% Fact Sheet - ANNuR](#)
[% Fact Sheet - FNRBA](#)
[% Fact Sheet - EuCAS](#)
[% Information Brochure - FORO](#)
[% Fact Sheet - TSOF](#)

Related Resources

[Conventions](#)
[IAEA Nuclear Safety Standards](#)
[IAEA Nuclear Security Series](#)
[NSS-OUI](#)
[Legal Instruments](#)
[Review Missions and Advisory Services](#)

Work Done – Restructuring of GNSSN public interface



Top-level menu structure

GNSSN	About GNSSN ▾	Membership ▾	Networks ▾	IAEA Services ▾	Publications	News	Events ▾	Contact us	GNSSN Restricted Area
What is GNSSN	How to join	All Networks	Global Networks	Fukushima Daiichi Accident – Observations and Lessons Portal			Upcoming Events		
GNSSN Terms of Reference	Partners			Global Education and Training Resources (GETR)			Past Events		
GNSSN Strategic Plan		Regional Networks		International School of Nuclear and Radiological Leadership for Safety			Working Documents		
GNSSN Governance Plan		Thematic Networks		IAEA Safety and Security Series Online User Interface					
GNSSN Steering Committee Terms of Reference		National Platforms		Peer Review and Advisory Services					
				Knowledge Base					
				TC-NS Projects					
				TC-NS Task Force					



GNSSN	About GNSSN ▾	Networks	Events ▾	Education & Training Resources ▾
	GNSSN Strategic Plan (Nov 2021)		Upcoming Events	Global Education and Training Resources (GETR)
	GNSSN Steering Committee ToR (2021)		Past Events	International School of Nuclear and Radiological Leadership for Safety
				Cyber Learning Platform for Network Education and Training (CLP4NET)



Work Done – Restructuring of GNSSN public interface



GNSSN
Global Nuclear
Safety and Security
Network

Quick Links

- % GNSSN Highlights (2016-2017)
- % GNSSN Information Brochure
- % GNSSN Annual Report (2017)
- % GNSSN Annual Report (2016)
- % GNSSN Annual Report (2015)
- % Fact Sheet - ANSN
- % Fact Sheet - ANNuR
- % Fact Sheet - FNBA
- % Fact Sheet - EuCAS
- % Information Brochure - FORO
- % Fact Sheet - TSOF

Related Resources

- ▣ Conventions
- ▣ IAEA Nuclear Safety Standards
- ▣ IAEA Nuclear Security Series
- ▣ NSS-OUI
- ▣ Legal Instruments
- ▣ Review Missions and Advisory Services
- ▣ Peer Review and Advisory Services
- ▣ Calendar
- ▣ IAEA - Department of Nuclear Safety and Security Webinars

✉ Contact us

Upcoming Events

Associated Network Icon	Title	Venue	Event Date	Contact Person Details	More Details...
	17th GNSSN Steering Committee Meeting, 6-7 Dec 2021, Virtual Event	IAEA, Vienna	06 Dec 2021 - 07 Dec 2021	Mr. GUO Lingquan (L.Guo@iaea.org)	
	Training Course on the Development of Regulatory Requirements for Radioactive Waste Management, 6-10 Dec 2021, Virtual Event	IAEA, Vienna	06 Dec 2021 - 10 Dec 2021	Mr. KUNJEER Sameer (S.B.Kunjeer@iaea.org)	

Announcements

Announcement Type	Title	Description	Announcement Date	More Details...
Vacancy Notices	IAEA Vacancy Notice - Nuclear Safety Officer (P4)	Organization: NSNI-Safety Assessment Section Primary Location: Austria - Vienna-IAEA Headquarters Job Posting: 2021-11-10, 6:54:01 AM Closing Date: 2021-12-07, 11:59:00 PM Duration in Months: 36 Contract Type: Fixed Term - Regular Probation Period: 1 Year	11/29/2021	Details...
Vacancy Notices	IAEA Vacancy Notice - Senior Nuclear Safety Officer (Design Safety) (P5)	Organization: NSNI-External Events Safety Section Primary Location: Austria - Vienna-IAEA Headquarters Job Posting: 2021-11-10, 6:12:32 PM Closing Date: 2021-12-01, 11:59:00 PM Duration in Months: 36 Contract Type: Fixed Term - Regular Probation Period: 1 Year	11/26/2021	Details...

New Home page of GNSSN website

- Restructuring of 'Quick links' and 'Related Resources' sections
- 'Announcements' section incorporated to disseminate information on IAEA new publications, IAEA vacancy notices and related IAEA events for nuclear safety and security



Work Done – Restructuring of GNSSN public interface



Networks

[Global Networks](#)

[Regional Networks](#)

[Thematic Networks](#)

[National Nuclear Safety](#)

[Knowledge Platforms](#)

Global networks or fora focus on specific aspects of nuclear safety and security, such as safety regulatory infrastructure (RegNet), technical support organizations (TSO Forum), safety assessment (GSAN), etc. They provide focused collaboration on a particular field of expertise, in support of global nuclear safety harmonization. Global networks support national and international actors in sharing of regulatory knowledge, practices and information and in fostering collaboration on nuclear safety and security matters.

- [International Regulatory Network \(RegNet\)](#)
- [Global Safety Assessment Network \(GSAN\)](#)
- [Technical and Scientific Support Organization Forum \(TSOF\)](#)
- [Global Nuclear Safety and Security Communication Network \(GNSSCOM\)](#)



GNSSN

Global Nuclear
Safety and Security
Network

Quick Links

- [GNSSN Highlights \(2016-2017\)](#)
- [GNSSN Information Brochure](#)
- [GNSSN Annual Report \(2017\)](#)
- [GNSSN Annual Report \(2016\)](#)
- [GNSSN Annual Report \(2015\)](#)
- [Fact Sheet - ANSN](#)
- [Fact Sheet - ANNuR](#)
- [Fact Sheet - FNRBA](#)
- [Fact Sheet - EuCAS](#)
- [Information Brochure - FORO](#)
- [Fact Sheet - TSOF](#)

Related Resources

- [Conventions](#)
- [IAEA Nuclear Safety Standards](#)
- [IAEA Nuclear Security Series](#)
- [NSS-OUI](#)

‘Networks’ page of GNSSN website

- Global, Regional, Thematic and National networks listed in the new ‘Networks’ page.
- Links redirect to respective networks websites.



Way Ahead

Project phases and timelines:

- Phase I: Restructuring of GNSSN public area (March 2022)
 - **Restructuring completed by IAEA.**
 - Review from GNSSN Steering Committee Members (Jan 2022)
- Phase II: Intermittent technological upgrade of SharePoint technologies planned by IAEA (May 2022) **PARTIALLY COMPLETED**
- Phase III: Assessment of relevant collaboration spaces of GNSSN members area and corresponding restructuring, as necessary.



Risks:

- Time lag due to remediation of technological upgrade of SharePoint technologies (end of Phase II);
- Availability of necessary resources (including stakeholders' involvement) throughout the project phases.

Resources:

- Phase I: to be implemented via existing GNSSN extra-budgetary funds (~20,000 USD);
- Phase II: additional resources to be allocated depending on remediation issues (~30,000 USD, if needed);
- Phase III: Assessment to be done towards end of Phase II.

** Allocation of all existing extra-budgetary resources towards phase I and phase II of the project would be done in close consultation with the respective donors.*



Way Ahead

Review of the GNSSN websites' public interface by GNSSN SC Members:

Feedback form focussed on following aspects would be circulated to GNSSN SC members to facilitate the review:

- Relevance of content in new website vis-à-vis the existing content;
- Suggestions for any content from old website to be migrated to new website;
- Suggestions for any additional content – specifically for public domain;
- Suggestions for structure and layout to facilitate ease of navigation;
- Any additional feedback.



Target deadline for completion of review: 31st Jan 2022.
Estimated timelines to go live for Phase I: 20th Feb 2022.



Way Ahead

Future updates and maintenance of content in the new GNSSN public interface:

Points to consider to ensure up-to-date content:

- Sharing of **relevant** information from regional and thematic networks of GNSSN within the public interface of GNSSN website (upcoming events, news, technical reports and publications, annual reports, etc.);
- Formulation of a task force (including IAEA Secretariat) to coordinate for identification of relevant content, compilation of content and updating it in the GNSSN website;
- Analysing the user visit statistics and popular pages in the GNSSN public website and planning for necessary corresponding actions;
- Periodic surveys to analyse the effectiveness of the GNSSN IT platform.



Way Ahead

Phase III – Restructuring of the GNSSN protected area.

- Update and necessary restructuring of regional network and thematic network websites;
- Assessment of relevant collaboration spaces of GNSSN members area and corresponding restructuring, as necessary;
- Development of GNSSN Knowledge Base (repository of documents tagged with metadata)
- Development of GNSSN IT Governance Plan (roles and responsibilities)

Involved stakeholders:

- Regional and thematic network representatives
- IAEA Technical Divisions
- GNSSN Steering Committee representatives

Project Plan: To be drafted

Target timelines: June 2023.

GNSSN provides an IT platform for various other technical projects implemented by various technical divisions within the department; some of the major ones are outlined below:

- [RegNet](#): International Regulatory Network IT platform
- [IRRS](#): Integrated Regulatory Review Services IT platform
- [ARTEMIS](#): IT platform for the Integrated Review Service for Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation (led by NSRW and IT support provided by NMPS)
- [iNET-EPR](#): International Network for Education and Training in EPR
- [RIDP](#): Regulatory Infrastructure Development Programme
- [Virtual School of Drafting Regulations](#)
- [International School of Nuclear and Radiological Leadership for Safety](#)
- [REGSUN](#): Regulatory Forum for Safety of Uranium Production and NORM
- [Regulatory Capacity Building and Knowledge Management IT platform](#) (RCM)
- [MedNet](#): Mediterranean Region Transport Network IT Platform
- [PRASC](#): Peer Review and Advisory Services Committee IT platform
- [EESS Hub](#): External Events Safety Hub



Any questions please...

Thank you!