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THE GLOBAL NUCLEAR SAFETY AND SECURITY NETWORK (GNSSN)

*Networks Management and Partnership Section
Office of Safety and Security Coordination
Department of Nuclear Safety and Security*

- Purpose:

To identify focus areas and future interests of the regional and thematic networks, and thereby foster further cooperation and coordination among the regional and thematic networks under the GNSSN framework.

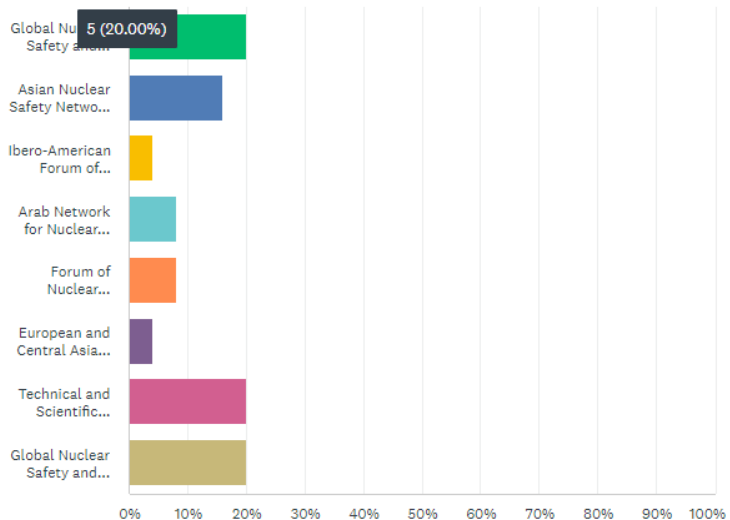
- Duration:

September – November 2022

- Quick Insights:

- 10 Questions
- 25 Responses
- 8 networks

Answered: 25 Skipped: 0



ANSWER CHOICES	RESPONSES	
Global Nuclear Safety and Security Network (GNSSN)	20.00%	5
Asian Nuclear Safety Network (ANSN)	16.00%	4
Ibero-American Forum of Radiological and Nuclear Regulatory Agencies (FORO)	4.00%	1
Arab Network for Nuclear Regulators (ANNuR)	8.00%	2
Forum of Nuclear Regulatory Bodies in Africa (FNRBA)	8.00%	2
European and Central Asian Safety Network (EuCAS)	4.00%	1
Technical and Scientific Support Organizations Forum (TSOF)	20.00%	5
Global Nuclear Safety and Security Communication Network (GNSSCOM)	20.00%	5
Total Respondents: 25		

Results of the GNSSN survey

Cooperation among GNSSN and its associated networks

- Which networks responded?

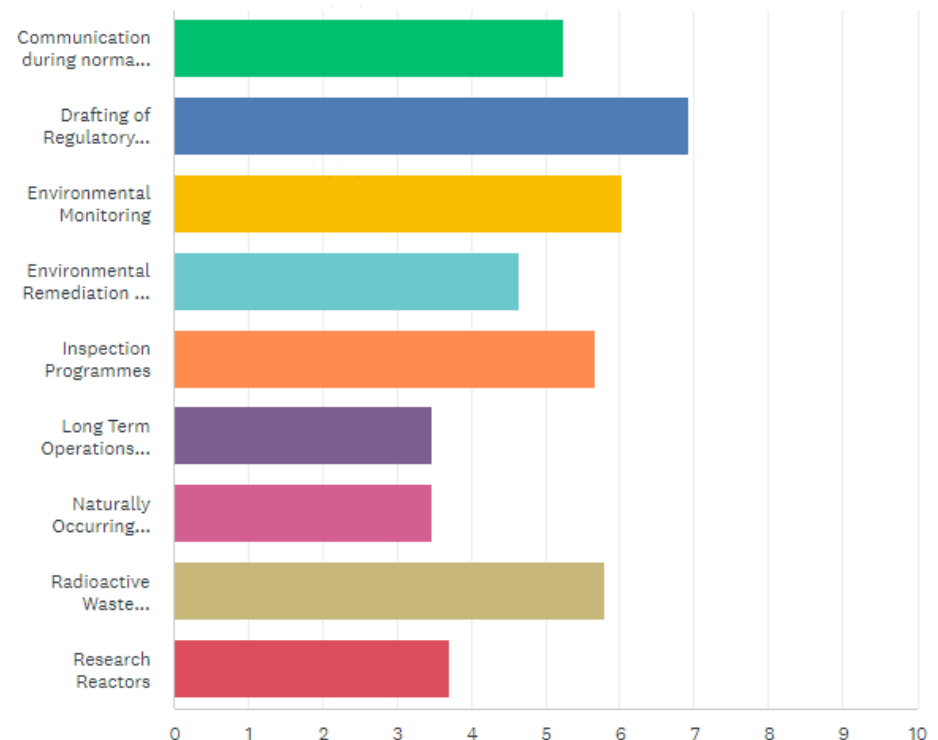
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Total Respondents: 25

Results of the GNSSN survey

Cooperation among GNSSN and its associated networks

- Top 3 key topical focus areas for networks from 2022-2025 based on responses received
 - Drafting of Regulatory Documents
 - Environmental Monitoring
 - Radioactive Waste Management



Results of the GNSSN survey

Cooperation among GNSSN and its associated networks

Focus areas or future interests (for period 2022-2025) that are not reflected in the survey

- Emergency Preparedness and Response
- Advanced Nuclear Reactors
- Communication during emergencies, using social media
- Communication arrangements in the event of a combined emergency
- Assessment of Operational Experience
- Use of Research to support regulatory decision making
- Security vulnerabilities of LTO
- Small modular reactors
- Risk analysis for new generic facilities
- Radioisotope regulations
- SMR safety regulations
- Safety and Security culture with Assessment Safety Analysis
- Stakeholder engagement in nuclear and radiation safety
- Radioactive materials and waste management
- Nuclear Safeguards
- Capacity building, Exchange of information, experience, expertise and good practices between regulatory bodies
- Knowledge Management

Results of the GNSSN survey

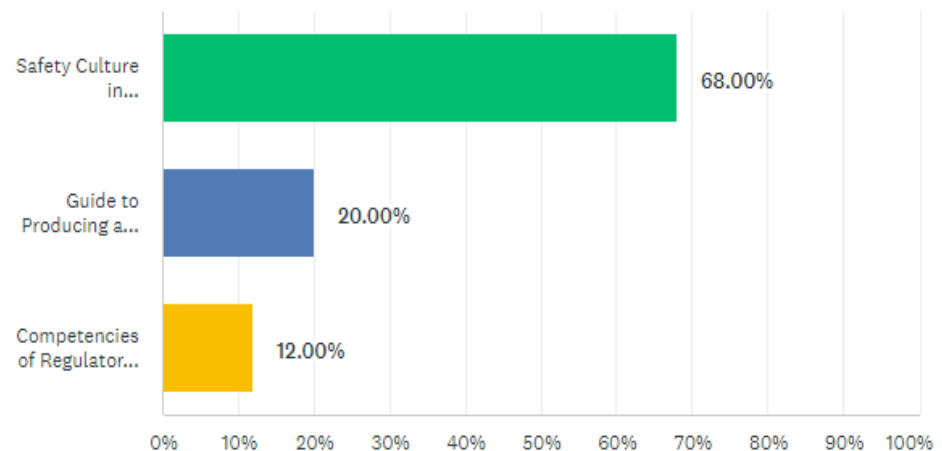
Cooperation among GNSSN and its associated networks



- Which network publications are beneficial to be translated in IAEA official languages during the period 2022-2023?

Publication to be considered for translation during 2022-2023 based on responses received:

- **Safety Culture in Organisations, Facilities and Activities with Ionising Radiation Sources (IAEA TECDOC 1995, Spanish, 2022)**
- Guide to Producing a Programme for the Creation and Development of NPP Regulator Competencies (IAEA TECDOC 1794, Spanish, 2016)
- Competencies of Regulatory Agency Personnel in Medical and Industrial Radiological Applications (IAEA TECDOC, Spanish, to be published soon in 2022)

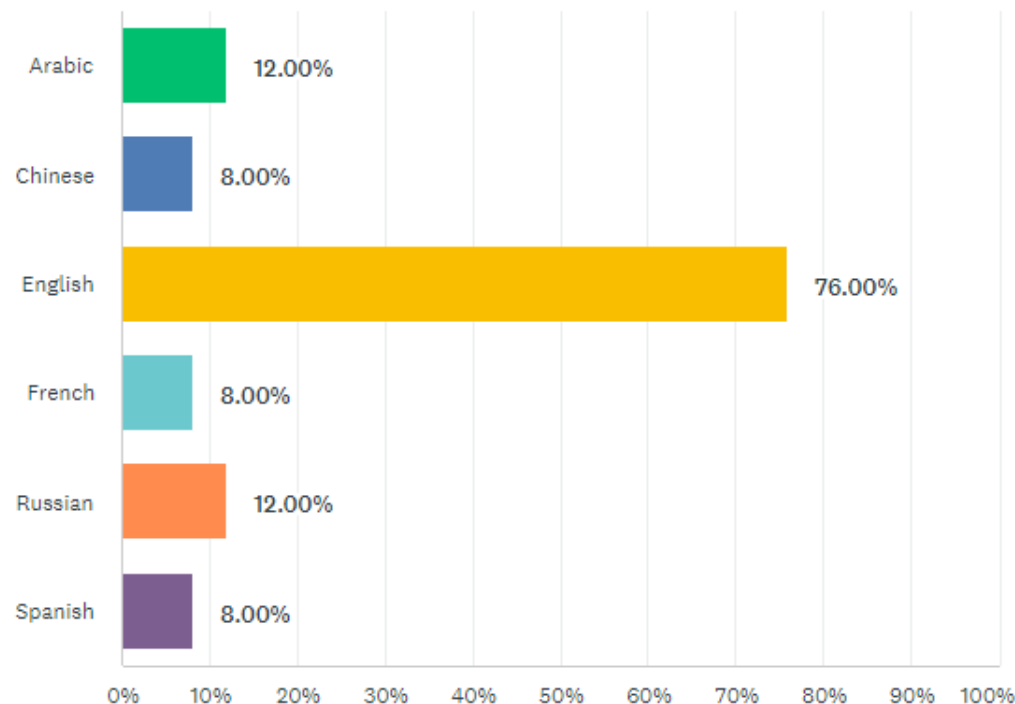


Results of the GNSSN survey

Cooperation among GNSSN and its associated networks



- Preference for IAEA official language translation of FORO publication of previous question during 2022-2023.



Results of the GNSSN survey

Cooperation among GNSSN and its associated networks

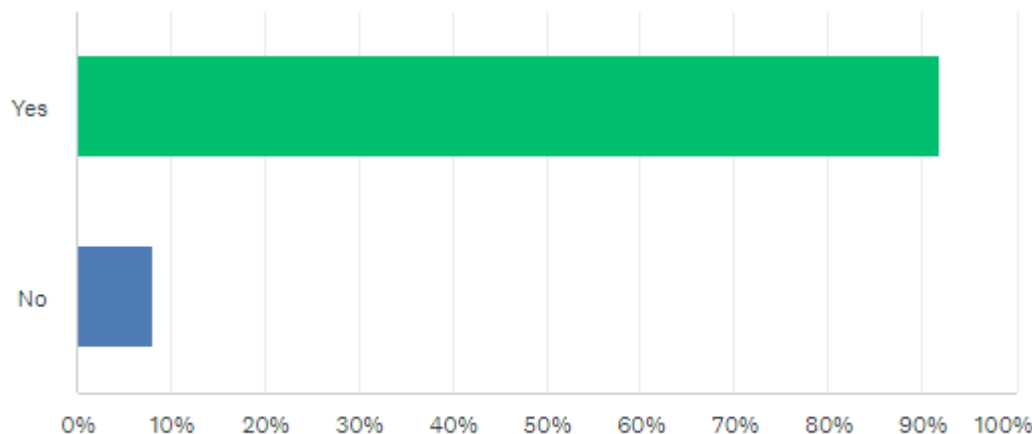
- Any network publication that may be beneficial to other regional and thematic networks and can be considered for publication in near future
 - An electronic brochure and other information about GNSSCOM and communication activities aimed at specialists in other technical areas of the nuclear sector.
 - Development of a hub and spoke model/strategy to manage TSO functions, including research and development for regulatory bodies
 - All SEVRRRA modules for risks analysis in medical and industrial facilities. Capacity building for regulatory staff in medical and industrial facilities, and nuclear reactors.
 - Guidelines and TECDOC related with safety and security culture for sustainable in practice.
 - Technical guide on communication during normal situations.
 - [Regulatory Framework for Legacy Management](#)
 - Publications on how to facilitate the implementation and completion of nuclear facilities decommissioning and afterward environmental remediation, such as best practices, lessons learned, and case studies.

Results of the GNSSN survey

Cooperation among GNSSN and its associated networks



- Would you support in-person participation of members from other regional networks in your network activities during the period 2022-2023? *(above participation would be subject to availability of funds and IAEA administrative policies)*



Results of the GNSSN survey

Cooperation among GNSSN and its associated networks



- Please mention any mechanisms in which synergies, cooperation and coordination can be further enhanced among the associated networks under the GNSSN framework
 - Joint activities with other networks: Bilateral meetings or workshops when specific topics of interest are identified for discussions and debates.
 - Opening the new projects to external participation from other networks or associations. *(taking into account the language barrier)*
 - Sharing new publications, achievements or developments through GNSSN
 - Participating as observers in annual meetings of other networks or associations. *(taking into account the language barrier)*
 - During an event in a particular network, for example a workshop, an expert from another network could be invited to share experiences.
 - Co-operation with other international bodies, such as NEA, on areas of mutual interest.
 - ANSN Topical Groups have been well organized and provided useful trainings/workshops for participants from the regions. The in-depth technical training materials/themes have been developed and given to numbers of participants and contributed to the human resource development of each member countries.
 - GNSSCOM works as a perfect mechanism for sharing experiences and establish synergies
 - Sharing of information and experience participation in other's networks
 - Financial support
 - Interaction between representatives of networks is not only at the global level, but also interaction in a bilateral format. For example, between EuCAS and FNRBA under the auspices of GNSSN.
 - Share reports and action plans amongst networks
 - *"I believe the different networks can learn from each other. Thus a session dedicated to sharing lesson's learned across the different networks could be more beneficial instead of always focusing on network participants with a common interest"*
 - Developing Interregional TC projects between the networks member states
 - Signing MoU for exchange of experiences and advisory experts missions.

Results of the GNSSN survey

Cooperation among GNSSN and its associated networks



- Please mention your expectations to enhance visibility and facilitate promotion of your network, its activities, and corresponding achievements (with the help of the IAEA Secretariat and other associated networks under the GNSSN framework)
 - IAEA General Conference side events, AFCONE meetings, meetings with other regional networks, group scientific visits for Embarking / Expanding NPP and Research Reactor programmes etc.
 - Still a lack of awareness and dissemination of lessons learned, barriers and challenges for good communication in the nuclear area.
 - IAEA should continue to sustain its sponsorship of network activities for under resourced countries
 - Facilitating access and visibility of the website link.
 - Enhancement of activities and channel for dissemination
 - All chairs meeting is first and good initiative to build the dialog between regional networks, with thematic networks and IAEA in general. The next could be joint activities like webinars or workshops, summer schools and conferences.
 - Make publications about "activities" in GNSSN on the information (corporate) resources of GNSSN participants on a regular basis.
 - Visibility and facilitate the promotion of ANNuR network, its activities includes enhancing the cooperation mechanisms between Arab countries
 - The IAEA secretariat create more opportunities or initiate more activities for all the members of different networks to share their experiences and knowledge.

Next Steps



- During the 1st Chairs' Coordination Meeting in July 2022 and subsequent GNSSN SC meeting in Aug 2022, discussions of identifying common challenges across the regional and thematic networks led to a proposal of 10 technical focus areas. Further narrowing down of these focus areas for determining joint technical projects/reports can be facilitated by results of the survey.
- Conceptualization and development of joint activities/joint projects/joint technical reports based on the prioritized common challenges or focus areas can be undertaken under the GNSSN framework.
- Discussions during the 2nd Chairs' Coordination meeting and subsequent outcomes can facilitate the decision making process.
- IAEA to probe further on approaches and resources mobilization as well as availability of technical expertise (both within the IAEA and from/across the regional networks) for development and implementation of these joint activities/joint projects/joint technical reports.
- Forthcoming 19th GNSSN Steering Committee will further discuss and agree on the way ahead for these joint efforts in 2023-2025.



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Thank you!

