The Global Risk Assessment Framework in support of the Sendai Framework for Disaster Risk Reduction and related SDGs

Session 5: The way forward

27 April 2018
The existing multi-hazard Global Risk Assessment (GRA) provides global hazard models for earthquake, tsunami, riverine flood, cyclonic wind and storm surge.

Developed by the UNISDR in 2011 to provide comparable open-access disaster risk metrics across countries and hazard categories as a means of raising risk awareness.

In its current form it reflects the natural hazard scope of the Hyogo Framework for Action.
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation

- The Sendai Framework addresses the risk of small-scale and large-scale, frequent and infrequent, sudden and slow-onset disasters caused by natural or man-made hazards....

- ......and related environmental, technological and biological hazards and risks

- Demands a re-examination of the current GRAA approach, so as to cover the full scope of the Sendai Framework
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation

End-user assessment conducted with 11 governments (Oct. 2017) on challenges in using risk information:

- Many risk models can only be used if adapted to context
- Unavailability of some data impedes application of risk models
- Risk information is not currently unified and standardized by format, content, scale, administrative division
- Most respondents indicated a low level of familiarity with all / most risk metrics or tools
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation

- Expert Meeting on the GRA – November 2017, Geneva >115 leading experts covering the entire risk scope of the Sendai Framework
- Define the scope and feasibility of a Global Risk Assessment Framework (GRAF)
- By leveraging existing risk models and assessments, Experts recommended the establishment of a GRAF underpinned by robust practices and standards, and an Expert Group to guide design and iterative development
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation

Recommendations:

- UNISDR to lead establishment of a Global Risk Assessment Framework (GRAF) for Sendai and the SDGs, bridging existing global with regional, national and local risk information
- GRAF to develop common list of hazards, common data standards and common risk metrics
- GRAF to convert and translate risk modelling outputs into usable and applicable information
- GRAF to meet demand for openly accessible data, products and services
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation

Timeline

Q1 2018

- Call for expression of interest for membership in the GRAF expert group was sent out, which will be followed by a selection of members and the 1st meeting will take place in June, to finalize the GRAF concept and design protocols and working practices.

- Define sub-working groups by hazard, vulnerability, exposure, sector, impact, consequence, etc.

- Call for expression of interest to contribute to GAR19.
The Global Risk Assessment Framework (GRAF) in support of Sendai Framework & SDGs implementation

Timeline

Q2 – Q4 2018

- Develop common list of hazards to be covered (Para 15, SFDRR), and standards for inter-comparison.
To address countries complex, interconnected sources of fragility, identifying most relevant risks and articulating needs for support is crucial.

There is need for a system-wide risk analysis and early warning for decision-making rather than information sharing.

This should allow integrated analysis at national, regional and global levels, and common information and analysis products, as well as a common communications and information technology platform.

The Global Risk Assessment Framework (GRAF) and the UN SGs ‘Integrated Platform for Prevention’
Global Risk Assessment Framework

- Risk-informed decision-making & transformed behaviors

UNIVERSAL AGREEMENTS
(2030 Agenda, Paris, Sendai, NUA, etc)

INPUTS
Academia & science
Private Sector
Others

PRODUCTS
GAR, INFORM,
Insurance industry
National Risk Assessments

DATA, TOOLS &
COMMON SERVICE INFRASTRUCTURE

International organisation
National Governments
Sub-National Governments
Local Governments
Private Sector Business
End User Groups

Science & Academia
Faiths & Communities
Insurers
Investors
Education

Managing uncertainties
Systems thinking
Coherence & interlinkages
Correlations & dependencies
The GAR and the Global Risk Assessment Framework (GRAF)

- Move from GAR Global Risk Assessment (GRA) to Global Risk Assessment Framework (GRAF) in support of implementation of Sendai Framework and SDGs
- The concept of GRAF will be introduced in GAR19 in a dedicated chapter on the example of drought risk and contextualize progress towards Sendai targets
- Call for research papers in line with GAR19 concept by 15th May 2018