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International Cooperation in Disaster Risk Reduction

IMPLICATIONS FOR SUSTAINABLE DEVELOPMENT

Orhan ALTAN



Annual global economic losses from geophysical, hydro-meteorological and climatological events could almost double from their 2000 levels by 2030 to exceed US\$300 billion if the past decade's trend continues. The figures may worsen as climate change, globalization, technological change, urbanization and political and economic instability put more people and assets at risk.

Improved disaster-risk management and resilience is essential for sustainable societies. But the science of natural hazards is too fragmented to influence policy effectively. Seismologists, for example, had long warned in specialist journals that Nepal's Kathmandu region was due a large earthquake. Local politicians did not strengthen construction codes, reinforce old buildings or inform the population about potential risks.



Sendai Framework for Disaster Risk Reduction 2015–2030



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In March, governments met under the auspices of the United Nations in Sendai, Japan, to negotiate an international agreement to reverse the rising trend of disaster losses. Unlike previous voluntary agreements, the Sendai Framework for Disaster Risk Reduction 2015–2030 has set measurable targets. One goal is to lower average death rates and economic losses in 2020–30 relative to 2005–15.

For the Sendai agreement to succeed, an open and comprehensive source of vetted information on disaster-risk reduction is needed. It would provide evidence for monitoring progress towards the goals. We call on the scientific community to set up an international assessment process to feed such information into disaster policy and practice.



Sendai Framework Goals and Indicators



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A set of **7 Goals 38 indicators** were identified to measure global progress in the implementation of the Sendai Framework for Disaster Risk Reduction. The indicators will measure progress in achieving the global targets of the Sendai Framework and determine global trends in the reduction of risk and losses;

Global target A: Substantially reduce global disaster mortality by 2030, aiming to lower average per 100,000 global mortality between 2020-2030 compared with 2005-2015.

Global target B: Substantially reduce the number of affected people globally by 2030, aiming to lower the average global figure per 100,000 between 2020-2030 compared with 2005-2015.

Global target C: Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030.

Global target D: Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030.

Global target E: Substantially increase the number of countries with national and local disaster risk reduction strategies by 2020.

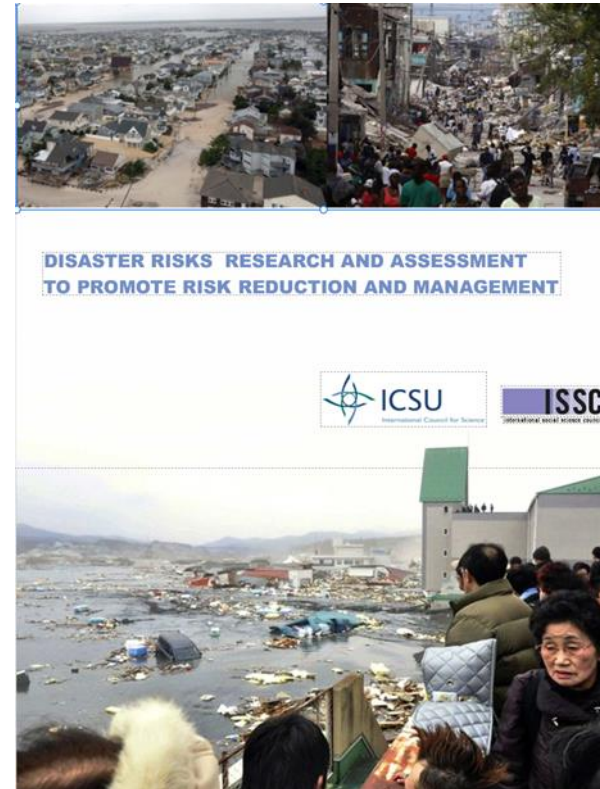
Global target F: Substantially enhance international cooperation to developing countries through adequate and sustainable support to complement their national actions for implementation of this framework by 2030.

Global target G: Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030.



- The International Council of Scientific Unions, ICSU, (the predecessor to ISC) coordinated and represented the science and technology communities in preparation to the 3rd World Conference on Disaster Risk Reduction that reported the Sendai Framework for Disaster Risk Reduction.

- The ISC and the UN Office on Disaster Risk Reduction co-sponsor the Sendai Hazard Definition and Classification Review to further define the Sendai Framework to provide consistent awareness and terminology to strengthen and clarify actions in support of the Sendai Framework and improved societal well-being.



Disaster Risks Research and Assessment to Promote Risk Reduction and Management

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MARCH 12, 2015

ICSU-ISSC AD-HOC GROUP ON DISASTER RISK ASSESSMENT





The GeoUnions: a “Consortium” of 8 Unions Self-organized since 2003 and now a model in ICS

- **IAU** - International Astronomical Union
- **ICA** - International Cartographic Association
- **IGU** - International Geographical Union
- **INQUA** - International Association for Quaternary Research
- **ISPRS** - International Society for Photogrammetry and Remote Sensing
- **IUGG** - International Union of Geodesy and Geophysics
- **IUGS** - International Union of Geological Sciences
- **IUSS** - International Union of Soil Sciences
- **URSI** - International Union of Radio Science



ICSU-GeoUNIONS Projects



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Mapping GeoUnions to the ICSU Framework for Sustainable Health and Wellbeing: Focus on sub-Saharan African Cities

In collaboration with the
ICSU Regional Office for Africa

Prepared by the ICSU GeoUnions
Joint Science Program Team

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Olle Selinus - IUGS / IMGA
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With special assistance from

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Theo Davies - IUGS
Agnes Kijazi - GEC-HH

Project Coordinator
Stanley Morain - ISPRS



Extreme Natural Hazards and Societal Implications (ENHANS)

CO-SPONSORED BY



IUGG
International Union of
Geodesy and Geophysics



IRDR
Integrated Research on Disaster Risk



isprs
International Space Agency



IUAM
International Union of Theoretical
and Applied Mechanics



UNOOSA-JBGIS-ICSUGeoUnions Projects



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The screenshot shows the UN-SPIDER website homepage. At the top, it features the United Nations logo and the text "UNITED NATIONS | UNOOSA | UN-SPIDER" and "United Nations Platform for Space-based Information for Disaster Management and Emergency Response". A search bar is located on the right. Below the header, there are navigation tabs for "HOME", "SPACE APPLICATION", "ADVISORY SUPPORT", "KNOWLEDGE BASE", "NETWORK", and "ABOUT US". The main content area is divided into several sections: "IN FOCUS" with a featured article about a UN-SPIDER Bonn Workshop; "UN-SPIDER-WORLD" with a world map; "NEWS AND UPDATES" with a list of recent news items; "SPACE APPLICATION MATRIX" with a circular diagram; "NETWORK" with logos of regional support offices like IGAC, UN-SPIDER, and ROSA; "WHAT IS UN-SPIDER" with a video player; and "PUBLICATIONS" with a featured article about the VALID project. Social media icons for Facebook, Twitter, and Google+ are at the bottom.

The screenshot shows the "PUBLICATIONS" page on the UN-SPIDER website. The page has a green header with the word "PUBLICATIONS" and three sub-sections: "Featured", "Publications", and "Information Materials". The "Featured" section is highlighted and contains a large green box with the text "VALID" and "The Value of Geo-Information for Disaster and Risk Management - Benefit Analysis and Stakeholder Assessment (Working Draft)". To the right of this box, there is a vertical text block: "PUBLICATION PROJECT: The Value of Geo-Information for Disaster and Risk... (Download), (Download)". Below the featured box is a red banner for a book titled "Geoinformation for Disaster and Risk Management Examples and Best Practices", with a circular inset image of a man speaking. The "Publications" section lists several other publications with their titles and dates. The "Information Materials" section is currently empty.





The GeoUnions Standing Committee on Disaster Risk Reduction (ISC-GU-SC-DRR) was originally proposed in July 2019, at a meeting co-located with the Centennial celebrations of the International Union of Geodesy and Geophysics (IUGG) at UNESCO in Paris.

It was established in July 2020. The new committee seeks to strengthen the long-standing ISC leadership in advancing DRR. The Committee also honors the ISC's (former ICSU's) role in preparation of world conferences on DRR.

The Committee Charge: It tries to identify and encourage activities of global scientific communities for the implementation of the Sendai Framework as further defined by the ISC.

International Science Council GeoUnions Standing Committee on Disaster Risk Reduction

Home News Members TOR Activities Resources Contact

DRR

The Committee for DRR seeks to strengthen the long-standing International Science Council (ISC) leadership in advancing Disaster Risk Reduction. The International Council of Scientific Unions (the predecessor to ISC) coordinated and represented the science and technology communities in preparation to the 3rd World Conference on Disaster Risk Reduction that reported the Sendai Framework for Disaster Risk Reduction. The ISC and the UN Office on Disaster Risk Reduction co-sponsor the Sendai Hazard Definition and Classification Review to further define the Sendai Framework to provide consistent awareness and terminology to strengthen and clarify actions in support of the Sendai Framework and improved societal well-being.

News

- The 2024 International Conference on Geo-Information for Disaster Management (GI4DM 2024) will be held Nov.2-3 in Belem, Brazil
- ISC-GUST-DRR Committee Presents a Thematic Seminar in Beijing University of Civil Engineering and Architecture and Visits IRDR Headquarters
- Summary of GI4DM 2022 & Urban Geoinformatics 2022
- Summary of 2022 Belt and Road International Student Competition on Digital Architectural Design

Activities

- ISC_GU_SC_DRR_Policy Brief 6
- ISC_GU_SC_DRR_Policy Brief 6
- ISC_GU_SC_DRR_Policy Brief 4
- ISC_GU_SC_DRR_Policy Brief 3

Chair: Orhan Altan - ISPRS/ISC (OA) Co-Chair: Hiroshi Kitazato - IUGS (HK)

Members:

Alexander Rudloff - IUGG (AR)	Jie Jiang - ISPRS (JJ)
Anika Braun - INQUA (AB)	John LaBrecque - IUGG (JL)
Carlo Doglioni - IUGS (CD)	John Ludden - IUGS (JL)
Edoardo Costantini - IUSS (EC)	Madhu Chandra - URSI (MC)
Giuliano Manara - URSI (GM)	Michael Meadows - IGU (MM)
James McCalpin - INQUA (JM)	Peijun Shi - IGU (PS)



| DRR

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Chair: Orhan ALTAN, Istanbul Technical University. Email: oaltan@itu.edu.tr

Co-Chair: Hiroshi Kitazato, Senior Research Fellow of the Danish Center for Hadal Research (HADAL) of South Denmark University.

Email: kitazatohiroshi2@gmail.com

Headquarter:

Jie Jiang, Beijing University of Civil Engineering and Architecture. Email: jiangjie_263@263.net

Runjie Wang, Beijing University of Civil Engineering and Architecture. Email: wang_runjie@yeah.net

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Madhu Chandra - URSI (MC)

Michael Meadows - IGU (MM)

Peijun Shi - IGU (PS)

Sisi Zlatanova - ISPRS (SZ)

Takashi Kosaki - IUGG (TK)

Tullio Tanzi - URSI (TT)

Victor Chude - IUSS (VC)

Yasuhide Hobara - URSI (YH)

Runjie WANG (RW)





We are invited as Committee to Serve as the Guest Editors for **Journal Sustainability** to launch a new Special Issue, entitled "**Monitoring and predicting natural hazards and environmental risk**"

SUSTAINABILITY IS:

is open access and peer-reviewed and you can find the scope here: <https://www.mdpi.com/journal/sustainability/about/>.

The screenshot shows the top navigation bar of the Sustainability journal website. It includes a search bar with the text "Search for Articles:" and four input fields: "Title / Keyword", "Author / Affiliation", "Sustainability", and "All Article Types". There are "Search" and "Advanced" buttons. Below the search bar, there is a breadcrumb trail: "Journals / Sustainability / Aims & Scope". To the right, there are two circular metrics: "IMPACT FACTOR 3.251" and "CITESCORE 3.9 SCOPUS". A yellow banner below the search bar contains a warning icon and the text: "Due to planned maintenance work on our platforms, there might be short service disruptions on Saturday, February 5th, between 15:00 and 16:00 (CET).". The main content area shows the "sustainability" logo with a leaf icon, a "Submit to Sustainability" button, and the heading "About Sustainability". On the right side, there are social media sharing icons for a share symbol and a speech bubble.





1. Policy Brief #1: MO and UA Climate Data Share

Meteorological Observation and Upper Atmospheric Climate Data Share

2. Policy Brief #2

Ocean Decade Challenges

3. Policy Brief #3: Vaccination Against Covid-19

Global and Effective Use of Vaccination Against Covid-19

4. Policy Brief #4: Urgent Call to Save our Waterways and Seas

5. Policy Brief #5: Transdisciplinary approaches for cooperation:

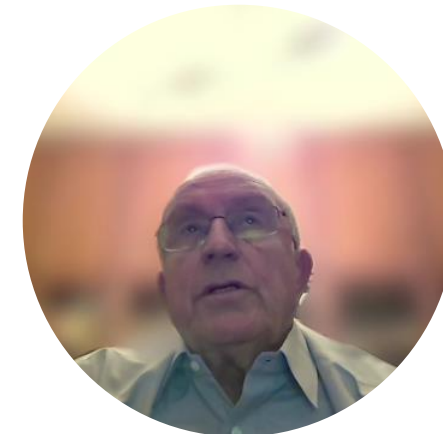
How can we communicate anthropogenic factors that contribute to natural disasters? ---Transdisciplinary approaches enhance cooperation among different stakeholders



Our Committee acted as an organizing team at the Conference below

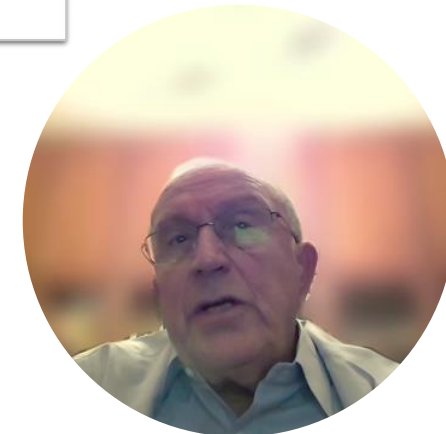
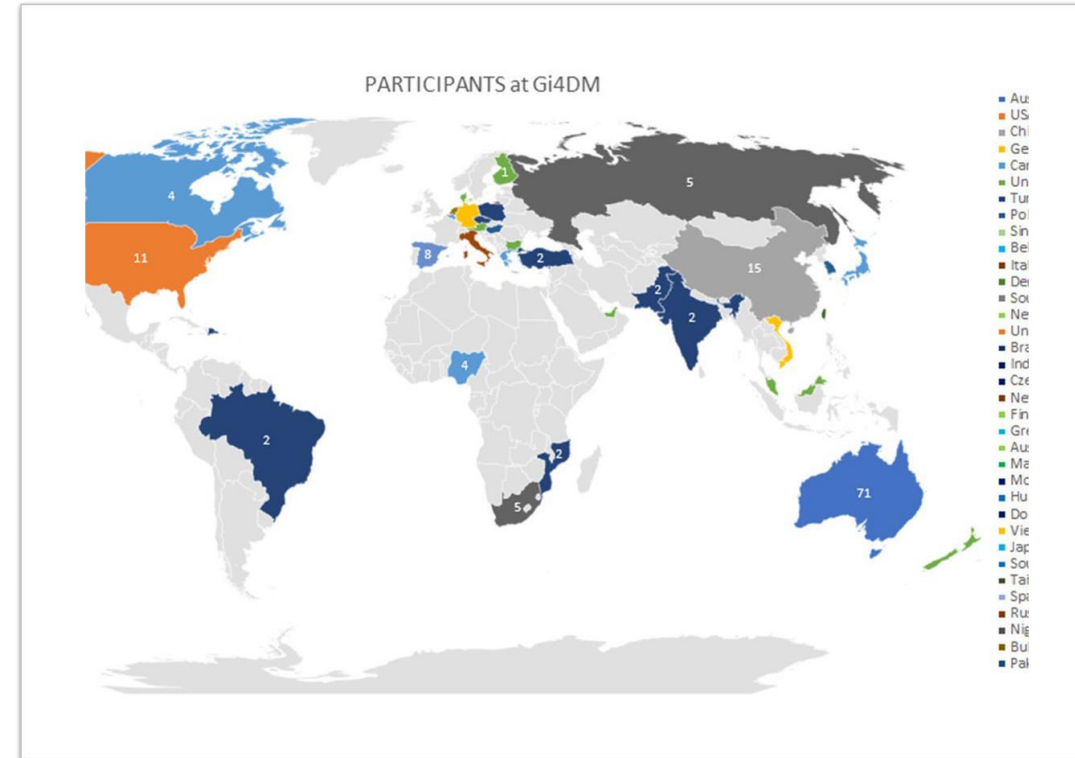
The screenshot shows the UNDRR website header with navigation links: HOME, ABOUT UNDRR, IMPLEMENTING THE SENDAI FRAMEWORK, NEWS & EVENTS, BUILDING RISK KNOWLEDGE. The main content area features a blue banner for the "Seventh Session of the Global Platform for Disaster Risk Reduction (GP2022)" with a breadcrumb trail: Home > event > Seventh Session of the Global Platform for Disaster Risk Reduction (GP2022). Below the banner, it specifies the dates "23 May 2022 - 28 May 2022" and the location "Bali, Indonesia". A photograph shows a group of people in a shallow body of water, some holding saplings. To the right of the photo is an "Attachments" section with a dropdown menu showing "View Concept Note: Seventh Ses..." and a "Download file" button (1.17 MB/PDF). Below that is a "KEYWORDS" section with a "Themes" list: Capacity Development, Climate Change, Disaster Risk Management, Governance, Health & Health Facilities, Recovery, and Risk Identification & Assessment.

Thematic Session 3: Breaking the Silos – Toward Multi-hazard, Multi-sectoral Approaches to Managing Risk



Gi4DM 2020

organized successfully in
Sydney,
with (247) participants;
38 scientific talks (22
ISPRS Archives
and 16 ISPRS Annals)
all are online at ISPRS webpage





Session Title: Geoinformation as enabler of DRR

Session Organisers: Sisi Zlatanova , Orhan Altan

Room: N/A

Date: June 21, 2022

Time: 07:00 - 8:30

Session Speakers:

Name	Address	Roles	Presentation title	Time slot	Registration	Virtual/In-person
Dr Bapon Fakhruddin	Chair, CODATA TG FAIR-DRR bfakhruddin@tonkintaylor.co.nz	Mode- rator	No presentation	5 mins intro + 5 min closing	Yes	In-P
Prof. Orhan Altan	ISPRS Past President and Honorary Member ISC GUSC DRR Chair Orhan Altan oaltan@itu.edu.tr	Panel list	Role of International Scientific UNIONS In Support of the Sendai Framework and Improved Societal Well-being	8-10 mins	Yes	V
Dr Shailesh Nayak	Director, National Institute of Advanced Studies, India shailesh@nias.res.in	Panel list	Managing Public Risks	8-10 mins	Yes	V
Prof Fabio Terribile	Full Professor of Pedology, University of Napoli Federico II - Department of Agriculture Past Director of CRISP Research Centre, University of Napoli Federico II & CNR terribilesci@gmail.com	Panel list	Geospatial Decision Support Systems on soils and Earth Critical Zone towards sustainable land management and better policy implementation	8-10 mins	Yes	V
Jill Bolland	Principal Natural Hazard and Climate Risk Consultant, Tonkin + Taylor JBolland@tonkintaylor.co.nz	Panel list		8-10 mins	Yes	V

Deng Yu	Head of Agriculture Reinsurance, CANOPIUS, Singapore yu.deng@canopius.com	Panel list		8-10 min	?	V
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Session sequence

Table TH – manual table heading (no numbering or tie in with section numbering)

Time (07:00 - 8:30)	Speakers
07:00-07:05	Bapon Fakhruddin- Introduction, objectives and session plan
07:05-07:15	Prof. Orhan Altan
07:15-07:25	Dr Shailesh Nayak
07:25-07:35	Prof Fabio Terribile
07:35-07:45	Jill Bolland
07:45-07:55	Deng Yu
07:55-08:20	Panel Discussions- Q and A <ul style="list-style-type: none"> • Technology: the availability, findability, accessibility, interoperability, and reusability of geospatial data in for the purpose of DRR; the challenges of combining and integrating geospatial data; and the challenges in multidimensional analysis; best practices of geospatial data use for DRR. • Policy and regulations: Geospatial data policy and practices and specifically their harmonization under Sendai framework; legal issues around interoperability, rights management and privacy; the value and sustainability of developing SDI, Digital Twins and Smart Cities to support DRR. • Capacity Building: education and training in response to the digital geospatial revolution; address needs and gaps in data skills to interpret, process, analyze and estimate simulations and predictions with geospatial data; preparation of educational materials for communities especially in developing countries; changes in formal education and curricula development to emphasize on sustainable development as prescribed by Sendai Framework. • Warning policy: Tools for widespread dispersing objective information about the current situation of disasters and plans for solution as a basic policy of governing organizations towards population to avoid panic and wrong decision on various levels of state managements.



Gi4DM 2022 & Urban Geoinformatics 2022

November 1-4, 2022, Beijing, China
<https://www.gi4dm.net/2022/>

Geo-Information for Disaster Management (Gi4DM 2022)
Nov. 1-3, 2022

High-level Forum on Urban Geoinformatics (Urban Geoinformatics 2022)
Nov. 2-4, 2022

- CONFERENCE
- REGISTRATION
- KEYNOTE SPEAKERS
- PROGRAMME
- PUBLICATIONS
- COMMITTEES
- SPONSORS
- VENUE & ACCOMMODATIONS & OTHERS
- CONTACT
- INFORMATION TO SPEAKERS

GEO-INFORMATICS SUPPORTED DISASTER RISK REDUCTION AND SMARTER URBAN MANAGEMENT

- CONFERENCE
- REGISTRATION
- KEYNOTE SPEAKERS
- PROGRAMME
- PUBLICATIONS
- COMMITTEES
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CONFERENCE

Geo-Informatics Supported Disaster Risk Reduction and Smarter Urban Management

(November 1-4, 2022, Beijing, China)

Two conferences, One event

The event is organized by ISPRS Technical Commission III and IV. It is consisted by 2 sub-events. One is the **ISPRS Workshop on Geo-Information for Disaster Management (Gi4DM 2022)**. The other is the **ISPRS High-level Forum on Urban Geoinformatics (Urban Geo-informatics 2022)**. The aims of the events are to provide an inter-disciplinary platform for scientists, researchers and practitioners in the field, to present the latest developments and applications, discuss cutting-edge technologies, exchange research ideas, and promote international collaboration.

Geo-Information for Disaster Management (Gi4DM 2022)

IMPORTANT DATES

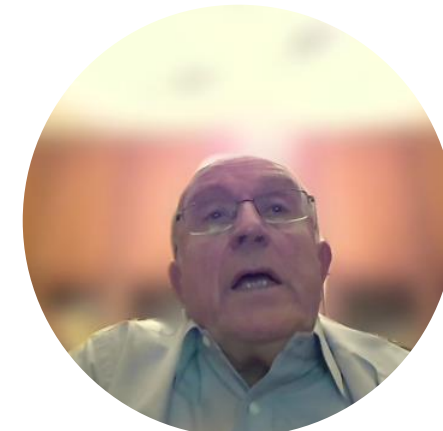
Deadline postponed!!!

Abstract submission (published in Archives): **August 20, 2022**

Full paper submission (published in Annals): **August 15, 2022**

Notification of acceptance: **August 31, 2022**

Camera-ready full paper (Archives and Annals): **September 20, 2022**



October 2023 an MoU with UNIRDR was signed



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ISC GeoUnions
Standing
Committee on
Disaster
Risk Reduction



MEMORANDUM OF UNDERSTANDING

This memorandum of understanding is signed between.

Integrated Research on Disaster Risk International Programme Office
B713, No.9 Dengzhuangnan Road, Haidian District, Beijing 10094, P.R. China

And

ISC GeoUnions Standing Committee on Disaster Risk Reduction
Beijing University of Civil Engineering and Architecture No. 1,
Zhanlanguan Road, Beijing 100044, P.R. China.

Integrated Research on Disaster Risk International Programme Office ("IRDR IPO") is represented for the purposes of the Memorandum of Understanding ("the MoU") by Professor Qunli HAN, Executive Director of IRDR IPO.

The ISC GeoUnions Standing Committee on Disaster Risk Reduction ("ISC-GSC DRR") is represented for the purposes of the MoU by Professor Orhan ALTAN, Former President of the International Society for Photogrammetry and Remote Sensing and Chair of the ISC-GSC DRR.

Hereinafter referred to individually by their respective abbreviations or collectively as "the Parties",

WHEREAS:

1. IRDR is an international scientific programme co-sponsored by the International Science Council (ISC) and the United Nations Office for Disaster Risk Reduction (UNDRR), with IRDR IPO serving as the Secretariat. IRDR's mission is to mobilize science for the reduction of all types of disaster risk; to build resilience and reduce vulnerability by integrating risk science with climate change adaptation and mitigation, to achieve the Sustainable Development Goals (SDGs). IRDR leads for the implementation of the "A Framework for Global Science in Support of Risk-informed Sustainable Development and Planetary Health" (referred to as the Research Framework below) toward 2030 and beyond.
2. IRDR fulfils its mission by improving knowledge and understanding of risk and uncertainty that hamper progress toward inclusive, safe and sustainable development; promoting innovation in research and action and exploring effective solutions in disaster risk reduction (DRR); and building institutional capacity required under various socio-economic and cultural settings and development contexts for risk-informed sustainable development. To this end, IRDR seeks to develop strong partnerships with the stakeholders committed to Sendai Framework for Disaster Risk Reduction.





Gi4DM 2024 Conference Preparations

SELPER SYMPOSIUM ISPRS SYMPOSIUM GI4DM

isprs
Information from Imagery

ISPRS TECHNICAL COMMISSION III
MID-TERM SYMPOSIUM ON REMOTE SENSING
4-8 November 2024 Belém, Brazil

Home Venue Committees Calendar Programme Submission Registration Logistics Tutorials Sponsoring Contact

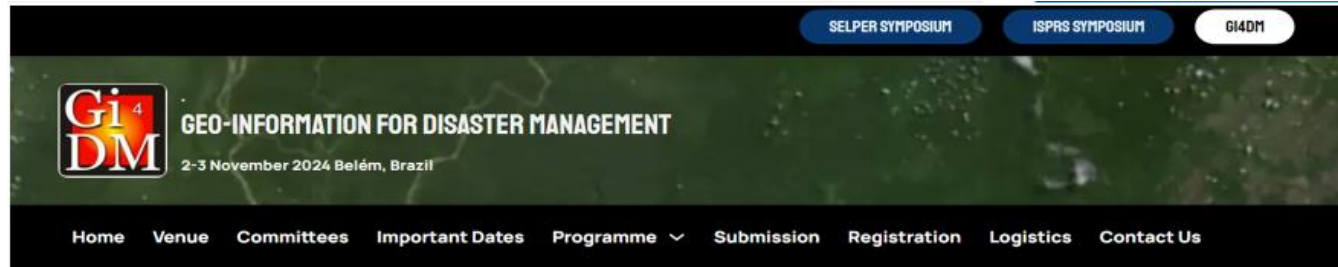
BEYOND THE CANOPY

TECHNOLOGIES AND APPLICATIONS OF REMOTE SENSING

Welcome to Belém for a great scientific conference on remote sensing



Gi4DM 2024 Conference Preparations



GI4DM

Geo-Information for Disaster Management

Geospatial Intelligence: Bridging AI, Environmental Management, and Disaster Resilience

The number and severity of disasters is increasing. Annual global economic losses from geophysical, hydro-meteorological, and climatological events could almost double from their 2005 levels by 2030 to exceed US\$300 billion if the past decade's trend continues. The figures may worsen as climate change, globalization, technological change, urbanization, and political and economic instability put more people and assets at risk.

Improved disaster-risk management and resilience are essential for sustainable societies. However, the science of natural hazards is too fragmented to influence policy effectively. Seismologists, for example, had long warned in specialist journals that Turkey's South-East region was due a large earthquake and it caused a death toll of more than 50,000 people deaths. Local politicians did not strengthen construction codes, reinforce old buildings, or inform the population about potential risks. Had such measures been implemented – as they have in Japan, California, and Chile – the death toll would have been lower (see 'Three lessons yet to be learned'). Similarly, floods cause considerable damage, and in the longer term, the inexorable rise in sea levels and extreme weather events threaten major coastal cities. Structures in flood-prone areas can be elevated; those in cyclone zones wind-proofed; and the public educated about such possibilities.

Given the potential of geographic information and remote sensing to help manage disasters, from prevention to relief organization, the Gi4DM workshop will bring together geo-specialists and disaster managers, to discuss recent innovations and make recommendations for future research. The Gi4DM workshop is intended to target political and administrative decision-makers as well as administrative emergency practitioners, but also technical experts from different disciplines including computer science, information technology, engineering, and disaster management.

Gi4DM is organized by ISPRS with the support of the IRDR (Integrated Research on Disaster Risk) and the ISCGDRR (ISC GeoUnions Standing Committee on Disaster and Risk Reduction, continuing the series of workshops organized annually since 2005 (<https://gi4dm.net/>)).

Gi4DM will take place in Belém, Brazil, on November 2-3, 2024, alongside the **ISPRS Technical Commission III mid-term symposium**.

Save the date! Let's build a safer and more resilient world together.

For registration and more information, visit this website.





Sendai framework for Disaster Risk Reduction 2015-2030



Sendai Framework
for Disaster Risk Reduction
2015-2030



A Number of deaths, missing persons and persons affected by disaster per 100,000 people



B Direct disaster economic loss in relation to global gross domestic product (GDP)



C Direct disaster economic loss in relation to global GDP, including disaster damage to critical infrastructure and disruption of basic services



D



E Number of countries with national and local disaster risk reduction strategies



F Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030



G

SUSTAINABLE DEVELOPMENT GOALS

Goal 1.
Target 1.5

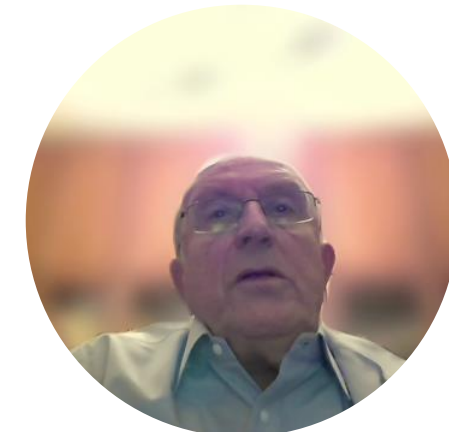


Goal 11.
Target 11.5



Goal 11.
Target 11.b

Goal 13.
Target 13.1





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THANK YOU

