



# IRDR Updates

Dr. Prof. Saini Yang  
Executive Director

Toward inclusive, safe and sustainable development

# IRDR IPO

**Saini Yang**  
Executive Director



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Science Officer



**Kerry-Ann Morris**  
Science and  
Communication  
Officer



**Lang Lang**  
Administrative  
Officer



**Zhihao Wang**  
Office Assistant



## Interns





# IRDR Action Plan 2025-2027

Enabling a  
full operation  
of IRDR  
Phase II

Coordination  
and  
facilitation of  
international  
research  
cooperation

Knowledge  
production  
and outreach

Empower  
young DRR  
professionals

# Enhancement of NCs and ICoEs

## Review the status of ICoEs in Phase I

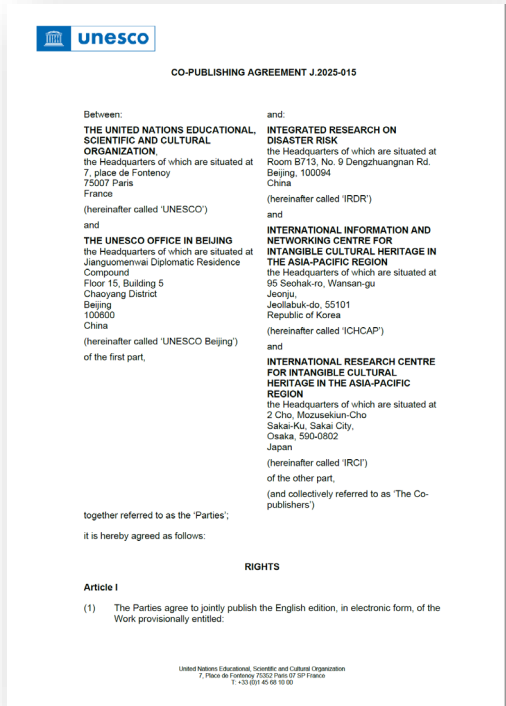
- After consultation with the IRDR co-sponsors, the ISC and UNDRR, it was decided **not to review** NCs for the time being.
- The **14 ICoEs** have passed this round of review and retain their membership in the IRDR scientific community.
- It is expected to have Letter of Agreement between IRDR IPO and host institute of IRDR ICoE been approved at SC28.

## Applications for new ICoEs

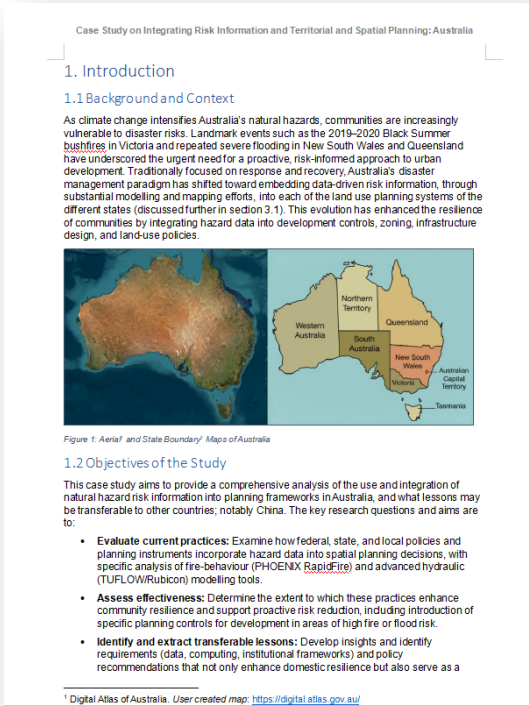
- IPO received **6 applications** of new ICoEs by the end of September, mainly from UK (2), Nepal (2), China and Greece.
- It is expected to decide the evaluation process at SC 28.

# New partnership development

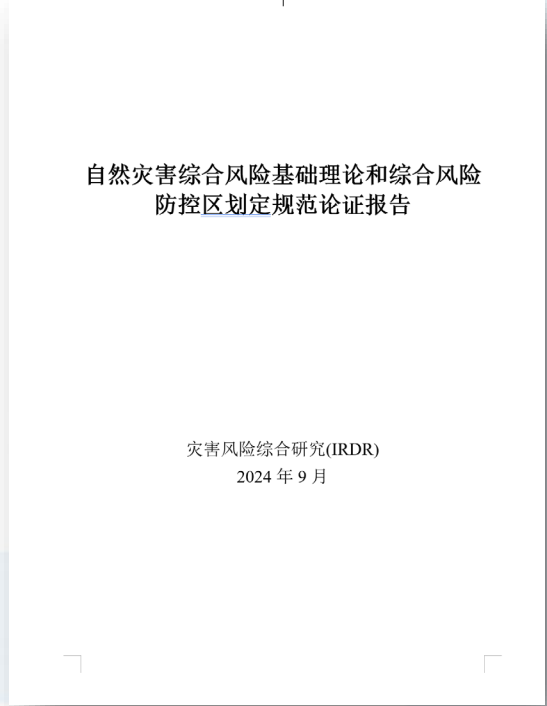
UNESCO East Asia Office:  
ICH and climate resilience



World Bank:  
Risk-informed territorial planning



China MEM:  
Integrated risk assessment and zoning



A MoU with GADRI will be signed this year to address the collaboration on DRR education and joint research initiatives among universities and institutes.

# International and regional dialogues

- COP29 Baku
- World Science Forum
- ISC Third General Assembly 2025 and Muscat Global Knowledge Dialogue
- Global Platform for Disaster Risk Reduction (GP2025)
- World Association for Disaster and Emergency Medicine (WADEM) Biennial Congress
- 7th Global Summit of GADRI: Converging Disaster Research and Stakeholder-Engagement for Resilience
- IRDR-UNESCO Forum on International Cooperation for Climate Change
- The International Symposium on Open Science Clouds 2025 (ISOSC 2025)
- 5th International Forum on Big Data for Sustainable Development Goals (FBAS 2025)
- AI Enabling International Urban Sustainable Development Implementation Seminar
- ASEAN Sustainable Urbanisation Forum (ASUF)
- The Global Sustainable Islands Summit (GSIS) 2025

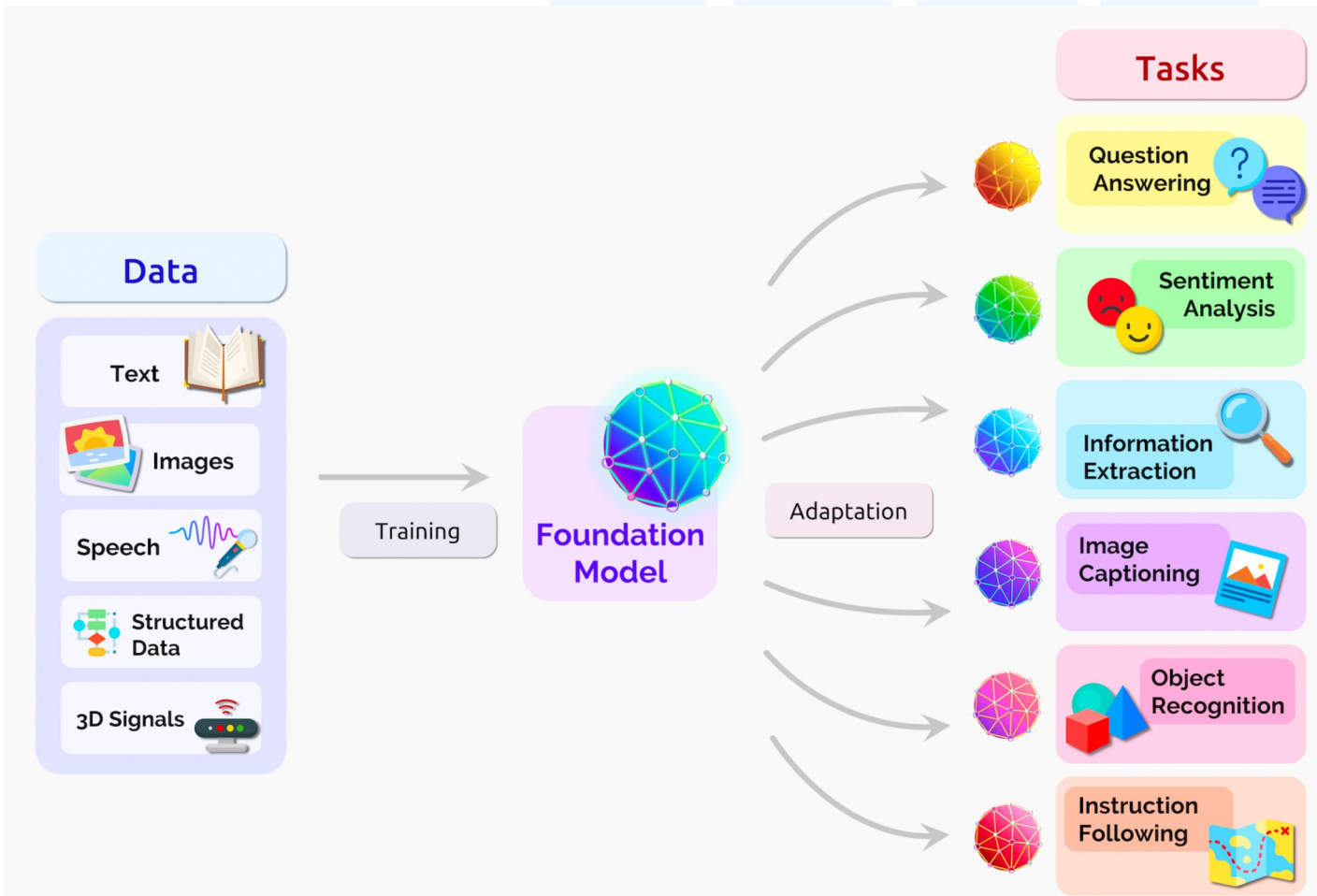
# Development of IRDR Work Streams and Pilot Studies

## IRDR Pilot Study: Large language model (LLM) on DRR

### Objectives:

1. Open Access Publications
2. Open Model
3. Research Toolbox
4. Capacity Building

- ### Scenarios:
- disaster early warning
  - emergency response
  - loss assessment
  - risk assessment
  - capacity building for disaster risk reduction



# Development of IRDR Work Streams and Pilot Studies

## Propose IRDR Work Stream: Climate Change and Public Health

### Identifying and assessing the health impacts of climate change

Conduct a comprehensive review of the existing literature on the health impacts of climate change, including both direct impacts (such as heat stress, vector-borne diseases, and air pollution) and indirect impacts (such as food and water insecurity, displacement, and mental health).

### Strengthening research and data collection

Prioritize research that can help fill knowledge gaps and support evidence-based policy making. This may include studies on the effectiveness of interventions, the health impacts of specific climate change events, and the social and economic determinants of vulnerability.



### Developing adaptation and mitigation strategies

Work with experts from various fields to develop strategies and policies that can help mitigate and adapt to the health impacts of climate change. This may include interventions to reduce greenhouse gas emissions, improve public health infrastructure, and promote resilience and adaptive capacity.

### Building partnerships and networks

Collaborate with relevant stakeholders, including governments, civil society organizations, and the private sector, to build networks and partnerships that can support the development and implementation of effective strategies and policies.

Overall, this IRDR work stream aims to generate knowledge and evidence that can inform policymaking and contribute to the global effort to address this urgent challenge. By bringing together experts from various fields and building partnerships across sectors, the workstream seeks to develop holistic and integrated approaches that can promote human health, environmental sustainability, and planetary health.



# Risk KAN

- Dr. Kai Kornhuber, Co-Chair of the Steering Committee of Risk KAN, visited IRDR IPO on 4 July 2025.
- IRDR will attend the upcoming Risk KAN SC meeting after the new members are selected and announced.



# Contribution to Global Assessment Report (GAR) series and its special reports

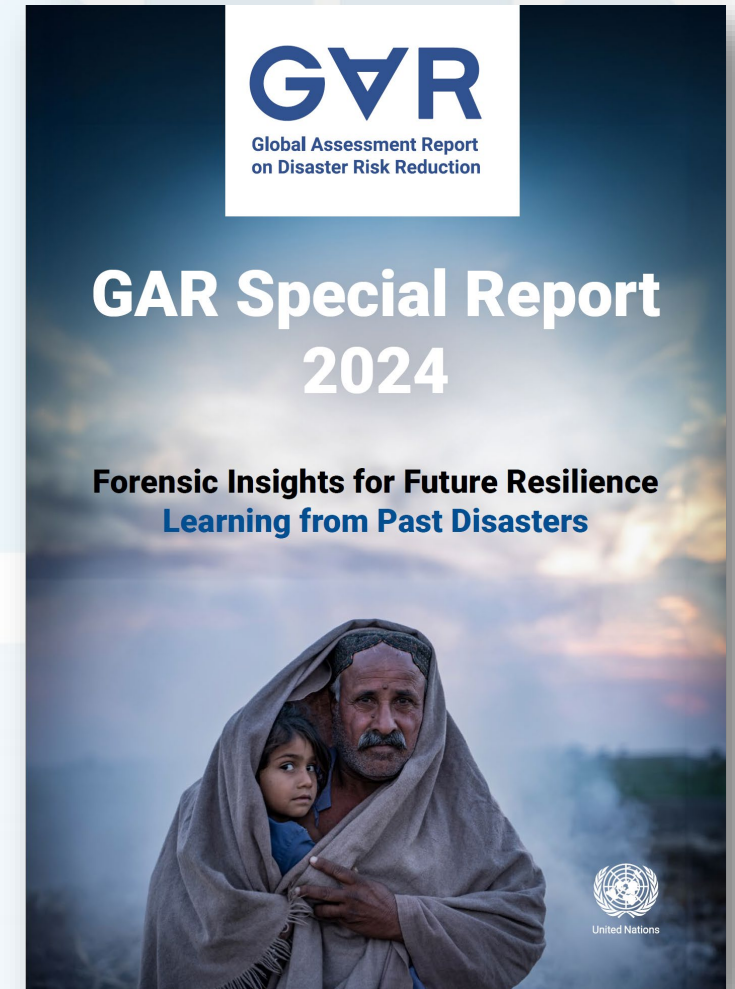
IRDR Community contributed to the GAR2025 by providing advisory and case studies. Specially:

## Advisory Board:

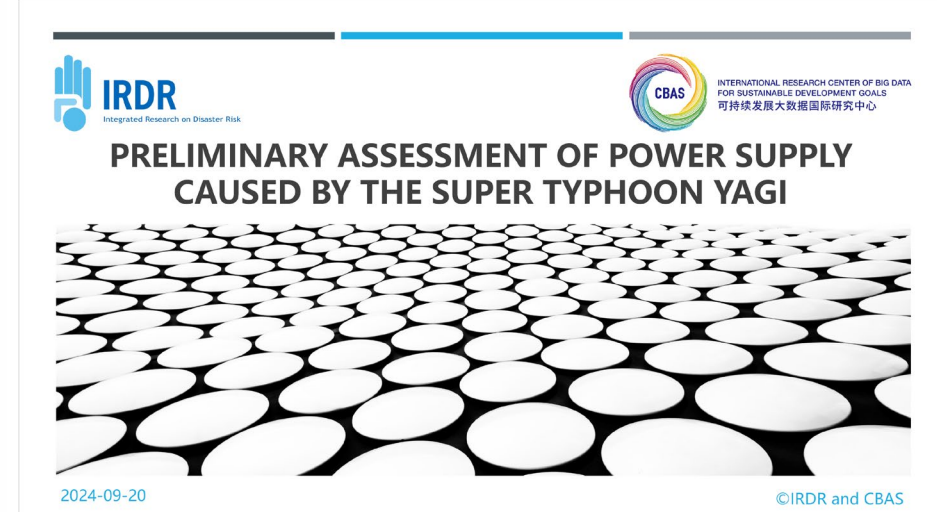
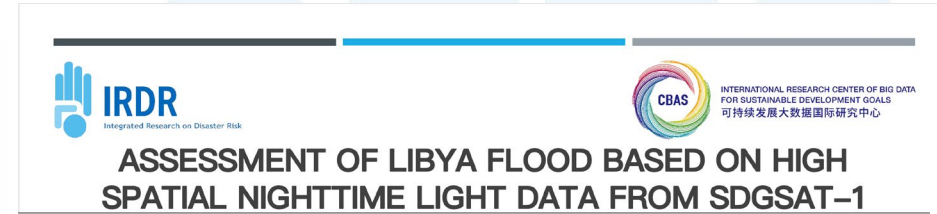
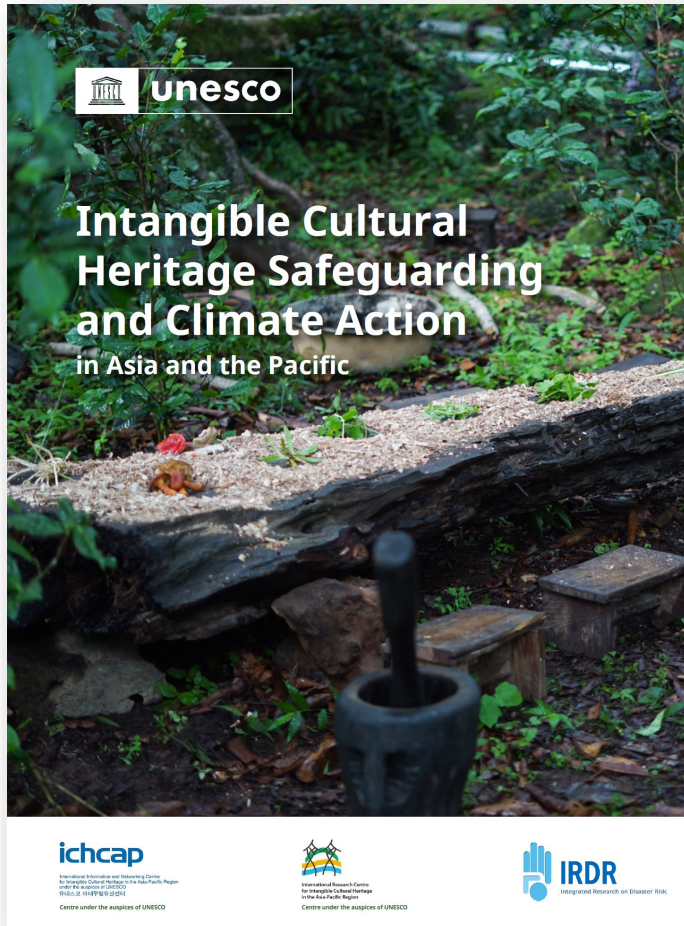
- Nesreen Alhmoud, IRDR Fellow, Former IRDR Scientific Committee Member
- Haruo Hayashi, IRDR Fellow, Former IRDR Scientific Committee Member
- Allan Lavell, Former IRDR Scientific Committee Member, Former Chair of IRDR Working Group on FORIN
- Shuaib Lwasa, Former Chair of IRDR Scientific Committee
- Saini Yang, IRDR Executive Director

## Case Study Authors:

- Kaoru Takara, IRDR Scientific Committee Member, IRDR ICoE Coherence
- Suman Chapagain, IRDR Young Scientists, IRDR ICoE NSET



# IRDR Special Reports





# IRDR Trainings

- ICoE Taipei: 2025 Advanced Institutes
- ICoE Fudan: 2025 International Summer School on Climate Change and Related Risks
- International Training on Resource & Environment Scientific Data Sharing and Disaster Risk Reduction Knowledge Service along the Belt and Road (organized by UNESCO IKCEST)





# IRDR Outreach

- IRDR Website & IRDR Quarterly Newsletters: call for contributions from IRDR community
- IRDR activities promoted via ISC newsletters
- IRDR publications featured at PreventionWeb

**IRDR**  
Integrated Research on Disaster Risk

Co-Sponsors: International Science Council, UNDRR, Donor

**TOWARDS INCLUSIVE, SAFE AND SUSTAINABLE DEVELOPMENT**

**Research Priorities**

- 1. Improve knowledge and understanding of risk and uncertainty that hampers progress toward inclusive, safe and sustainable development.
- 2. Promote innovation in research and action, and explore effective solutions in DR.
- 3. Build institutional capacity required under various socio-economic and cultural settings and development contexts for risk-informed sustainable development.

**Objectives**

**The IRDR Community**

- Coordination, oversight and institutional support by Co-Sponsors, Donor and Host
- Scientific and policy guidance by Scientific Committee (SC)
- Programme Operation and Reporting International Programme Office (IPO)
- Network Centres
- Theme-Specific Programmes
- International Centres of Excellence
- Work Streams
- Risk Projects and Studies
- DRR Partners

UN Sustainable Development Goals, Sendai Framework for Disaster Risk Reduction, IRDR logo

Integrated Research on Disaster Risk (IRDR)

Newsletter

October 2025/Issue 2

June 2025/ Issue 1

**Integrated Research on Disaster Risk (IRDR) PROGRAMME**

**DISASTER RISK REDUCTION: PRODUCTS AND PROCESSES. FROM RESEARCH TO POLICY AND COMMUNITY FOR RISK-INFORMED SUSTAINABLE ACTIONS**

**Integrated Research on Disaster Risk 2024 International Conference**

Science for an inclusive, safe and sustainable world: ACTIONS OF IRDR Global Community Beijing, China 22-23 October, 2024

Integrated Research on Disaster Risk (IRDR)

Newsletter

October 2025/Issue 2

**IRDR**  
Integrated Research on Disaster Risk

Photos of IRDR community members and events.

**PreventionWeb**

Home Understanding disaster risk Knowledge Base Community Sendai Framework

Home > Organization directory

**Integrated Research on Disaster Risk**

IRDR China Academic & Scientific

Program on edit Upload your content

**Mission**

An integrated research programme co-sponsored by the International Council for Science (ICSU), the International Social Science Council (ISSC), and the United Nations Office for Disaster Reduction (UNDRR). IRDR fosters a global, multi-disciplinary approach to dealing with the challenges brought by natural disasters, mitigating their impacts, and improving related policy-making mechanisms. IRDR is hosted by the Institute of Remote Sensing and Digital Earth (IRSDI), Chinese Academy of Sciences.

**Disaster Reduction Goal**

The IRDR Programme has three research objectives, the first of which deals with the characterization of hazards, vulnerability, and risk. The identification and assessment of risks from natural hazards on global, regional, and local scales, and the development of the capability to forecast hazardous events and their consequences is, of necessity, interdisciplinary. Understanding of the natural processes and human activities that contribute to vulnerability and community resilience should be integrated to reduce risk. This objective addresses the gaps in knowledge, methodologies, and tools for characterizing risk and assessing the relative contributions of various hazards, elements and vulnerability.

**Latest additions**

Items: 123

Search

Themes Hazards Country and region

Content type Publication year

Apply

**Meetings and conferences** Online 26 April 2025

**Pre-Event for 2025 GPDRR & 2025 IRDR Young Scientists Lumos "From Data to Action: DRR solutions from young professionals"**

IRDR and IHSPIRE will organise an online workshop entitled "From Data to Action: DRR solutions from young professionals" which serves as a pre-event for the 2025 GPDRR and also the 1st 2025 IRDR Young Scientists Lumos.

**News** 25 March 2025

**World Meteorological Day 2025: IRDR highlights "Early Warnings for All"**

As the world celebrates 75 years of the World Meteorological Organization (WMO) on World Meteorological Day (March 24th), the Integrated Research on Disaster Risk (IRDR) reaffirms its commitment to climate action.

**News** 24 March 2025

**Call for contributions: YYP Innovation Lab @ GP2025**

IRDR invites youth and young professionals (YYP) from diverse stakeholders worldwide to share their innovations to address the pressing challenges of disaster risk reduction (DRR).

**News** 10 March 2025

**IRDR survey on assessing progress toward gender equality in disaster risk reduction (DRR)**

This year, we seek broader perspectives: Is the status improving? Are inequalities being observed, addressed, and resolved? Your feedback will guide actionable strategies to foster inclusive, equitable DRR practices.

**Publication** 23 January 2025

**Assessment of Los Angeles wildfire based on multisource remote sensing data**

This study provides critical data for disaster assessment and management to assess the devastating fires that broke out in southern Los Angeles County, California, USA, on 7 January 2025.

**Publication** 21 January 2025

**Assessment of Xizang earthquake based on high spatial remote sensing data**

Comparisons of post-disaster GLI images (7 & 12 Jan 2025) with pre-disaster images (27 Dec 2024) reveal the impact of a 6.8 magnitude earthquake in Tengi County, Tibet, which caused 126 deaths, 188 injuries, and 3,609 house collapses.

**Research** In person Published on 9 January 2025

**Tropical cyclone storm surge-based flood risk assessment under combined scenarios of high tides and sea-level rise: A case study of Hainan Island, China**

This framework integrates impacts of storm surges, high tides, and sea-level rise using a hybrid of statistical and dynamic models. It incorporates economic and demographic factors for a deeper understanding of risk composition.

**Meetings and conferences** Online 06 September 2024

**Call for Registration: Climate Change and Cities: Advancing Science and Engaging with the IPCC**

The Asian Network on Climate Science and Technology (ANCSST) and the Singapore Management University are organising an online session to discuss means of advancing science in the Asia Pacific and engaging with the IPCC.

More content for this organization may be available on the site search.

**Voluntary Commitments**

The organization has no registered commitments.

The Sendai Framework Voluntary Commitments (SFVC) online platform allows stakeholders to inform the public about their work on DRR. The SFVC online platform is a useful tool to know who is doing what and where for the implementation of the Sendai Framework, which could foster potential collaboration among stakeholders. All stakeholders (private sector, civil society organizations, academia, media, local governments, etc.) working on DRR can submit their commitments and report on their progress and deliverables.

Is this page useful? Yes No Report an issue on this page

PreventionWeb is the global knowledge sharing platform for disaster risk reduction (DRR) and resilience.

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**UNDRR**  
UN Office for Disaster Risk Reduction

UNDRR is the lead UN agency for the coordination of disaster risk reduction. We help decision makers across the globe better understand and act on risk.

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PreventionWeb Understanding risk Risk data International Recovery Platforms (IRP)  
ARISE Private Sector Alliance Sendai Framework Voluntary Commitments (SFVC) MDR2030  
Sendai Framework Monitor (SEM) Training Events Research and publications

# IRDR Young Scientists Lumos

## DRR SOLUTIONS FROM YOUNG PROFESSIONALS

PRE-EVENT FOR 2025 GPDRR & 2025 IRDR YOUNG SCIENTISTS LUMOS (1ST)

**26 APRIL 2025**  
**UTC 8:00-9:30 (16:00-17:30 BEIJING TIME)**

**Organisers**  
  **Supporter**  


**Program Outline**

Time (UTC)	Session	Speaker(s)
8:00-8:05	Welcome & Introduction	- Brief introduction to IRDR Young Scientists Lumos - Objectives of the session
8:05-8:15	Case 1: <i>From Preparedness to Early Action: The Role of DASTAA in Nepal's 2024 Cloudburst Event</i>	Suraj Gautam (Institute of Himalayan Risk Reduction)
8:15-8:25	Case 2: <i>From Fault Lines to Front Lines: Bridging Research, Policy, and Action for Earthquake Resilience in Java's Urban Centres</i>	Sonny Aribowo (BRIN)
8:25-8:35	Case 3: <i>Unleashing the Power of Intelligence: Revolutionising Malaria Outbreak Preparedness with an Advanced Warning System in Benin</i>	Gouvidé Jean Gbaguidi (WASCAL)
8:35-8:45	Case 4: <i>Quantification of Extreme Climate and Weather Events Risks to Agricultural Production and Livelihoods in South Asia</i>	Adnan Arshad (Lanzhou University China)
8:45-8:55	Case 5: <i>Applications of SDGSAT-1 in Disaster Response and Management</i>	Nijun Jiang (CBAS)
8:55-9:25	Open Discussion & Q&A	- Moderated discussion - Reflections from the commentator
9:25-9:30	Wrap-up & Closing	- Key takeaways - Announcement of next Lumos session

**Key Discussion Themes**

- How can young professionals bridge the gap between data-driven research and actionable DRR solutions?
- What role do emerging technologies (AI, remote sensing, big data) play in equitable and scalable DRR?
- How can innovations align with local and global resilience agendas?

**Registration link** [https://zoom.us/meeting/register/mmcu761sT9GZf5HXjC9Fg](https://zoom.us/join/joinMeeting?mtm=1&mtm=2&mtm=3&mtm=4&mtm=5&mtm=6&mtm=7&mtm=8&mtm=9&mtm=10&mtm=11&mtm=12&mtm=13&mtm=14&mtm=15&mtm=16&mtm=17&mtm=18&mtm=19&mtm=20&mtm=21&mtm=22&mtm=23&mtm=24&mtm=25&mtm=26&mtm=27&mtm=28&mtm=29&mtm=30&mtm=31&mtm=32&mtm=33&mtm=34&mtm=35&mtm=36&mtm=37&mtm=38&mtm=39&mtm=40&mtm=41&mtm=42&mtm=43&mtm=44&mtm=45&mtm=46&mtm=47&mtm=48&mtm=49&mtm=50&mtm=51&mtm=52&mtm=53&mtm=54&mtm=55&mtm=56&mtm=57&mtm=58&mtm=59&mtm=60&mtm=61&mtm=62&mtm=63&mtm=64&mtm=65&mtm=66&mtm=67&mtm=68&mtm=69&mtm=70&mtm=71&mtm=72&mtm=73&mtm=74&mtm=75&mtm=76&mtm=77&mtm=78&mtm=79&mtm=80&mtm=81&mtm=82&mtm=83&mtm=84&mtm=85&mtm=86&mtm=87&mtm=88&mtm=89&mtm=90&mtm=91&mtm=92&mtm=93&mtm=94&mtm=95&mtm=96&mtm=97&mtm=98&mtm=99&mtm=100) **Register via QR code** 

**Contact** IRDR: [connect@irdrinternational.org](mailto:connect@irdrinternational.org) U-INSPIRE: [uinspire.alliance@gmail.com](mailto:uinspire.alliance@gmail.com)





*Pre-Event for 2025 GPDRR & 2025 IRDR Young Scientists Lumos (2<sup>nd</sup>)*  
 UTC 8:00-9:00 (16:00-17:00 Beijing time), 1 June, Online

### Localization of the Global Agenda: DRR solutions from young professionals

#### Concept Note and Agenda

**Registration link:**  
[https://zoom.us/webinar/register/WN\\_xippKqDL5y2Ptz7eKo5xtw](https://zoom.us/webinar/register/WN_xippKqDL5y2Ptz7eKo5xtw)

## 1. Rationale

To enhance the connection and promote the innovations and actions of IRDR young scientists, IRDR IPO designs a mechanism of "IRDR Young Scientists Lumos", which will be webinars, sessions, meetings, or discussions mainly organized and participated in by young scientists and young professionals in the global disaster risk reduction (DRR) community.

In order to contribute to the *2025 Global Platform on Disaster Risk Reduction*, IRDR will co-organize several online workshops with DRR partners to present the innovations of young professionals from multi-stakeholders.

The topic of this Lumos is "Localization of Global Agenda: DRR solutions from young professionals". It highlights how young scientists and professionals translate global disaster risk reduction frameworks, such as the Sendai Framework for Disaster Risk Reduction, into concrete, practical actions at the local and community levels. It emphasizes innovative approaches tailored to local contexts, such as community-based

<sup>1</sup>Lumos: a wand-light charm in Harry Potter series. This charm is used to create light and reveal hidden things. Lumos here means that the young scientists create innovations and generate the impacts to the world.

2025 IRDR Young Scientists Lumos (3<sup>rd</sup>)

## Cultural Heritage Meets Resilience

### Youth Innovation for DRR

UTC 8:00-9:30, 18 August

**Speakers**



**Kazi Warisa Tabassum**  
 Blending Instinct and Intelligence: A Study of Traditional and Digital Weather Forecasting



**Youjing Li**  
 Collective Memory of Disasters in Baishi, China: Temporal Displacement, Risk Perception, and Social Resilience



**Bikansobera Patrick Amooti**  
 Traditional Knowledge for Climate Resilience and DRR in Uganda



**Wenqian Gan**  
 Cultural Heritage, and Environmental Awareness and Protection (CHEAP) Video Game

**Senior Experts**

- Chris Ballard, Australian National University
- Maria Soledad Garcia Ferrari, University of Edinburgh

**Registration** 

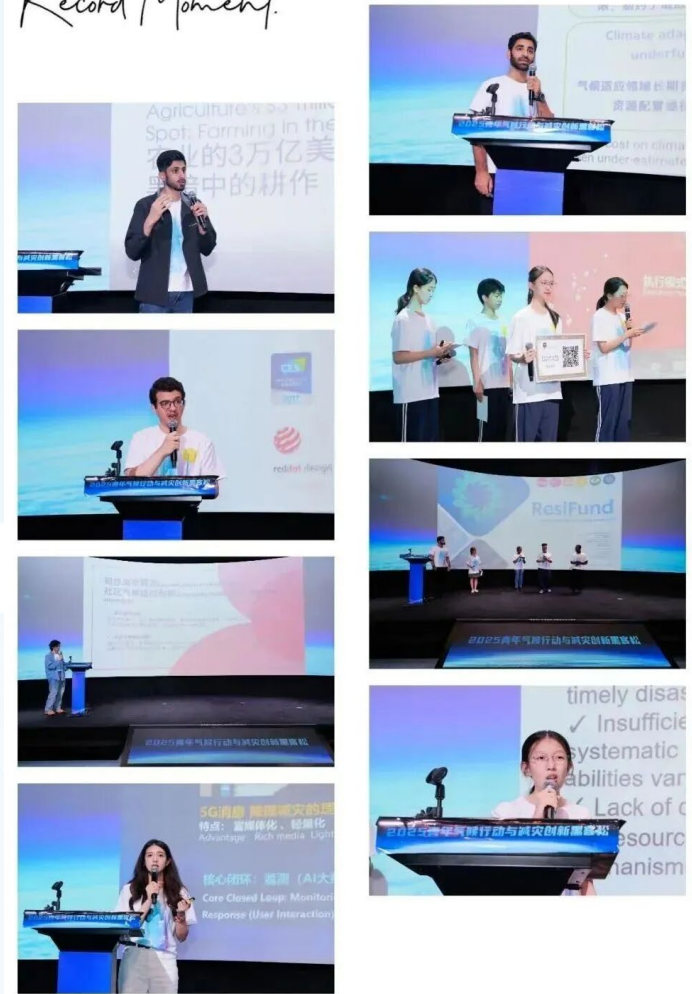





# Promoting best examples of young professionals

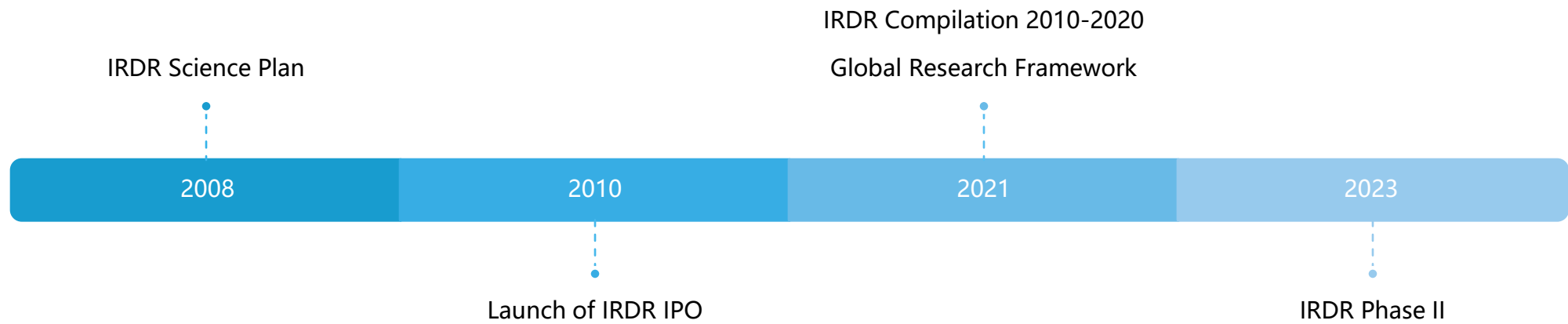
- **2025 Youth Climate Action and Disaster Risk Reduction Hackathon:**
  - Co-organized with UNESCO, the Horizon Global Youth Development Program and other partners, the hackathon, under the theme “Empowering Youth for a Healthy Planet”, brought together over 300 young innovators from 15 countries to co-develop solutions to urgent environmental challenges. 16 innovations were awarded at the closing ceremony.
- **IRDR Youth Podium:**
  - Seismic Performance Evaluation of Indigenous Brick Masonry Infill Panel Walls in Reinforced Concrete Structures;
  - Applying Disaster Risk Assessment Results in Territorial Planning and Development Policies;
  - Nyamwamba or the People;
  - Empowering Communities and Protecting Lives: Trona Bay Enterprise’s Hygiene Solution

*Record Moment.*





# THANK YOU!





# Applications of IRDR ICoEs

Name of Proposed ICoE	Host Institute	Focal point
Hydroclimatic Disasters and Infrastructure Resilience	School of Engineering, Newcastle University, UK	Sean Wilkinson
Resilience Economics and Sustainable Risk Transitions	Department of Economics, National and Kapodistrian University of Athens, Greece	Stella Tsani
Resilience and Disaster Risk Innovation	School of Environment and Civil Engineering, Chengdu University of Technology, China	Homa Bahmani
Himalayan Disaster Risk and Resilience Studies	Centre for Disaster Studies (CDS), Institute of Engineering - Tribhuvan University, Nepal	Basanta Raj ADHIKARI
Interdisciplinary Research on Himalayan Risk and Resilience	Institute of Himalayan Risk Reduction, Nepal	Suraj Gautam
Informatics for Multi-hazard Risk Reduction	School of Architecture, Building and Civil Engineering (ABCE), Loughborough University, UK	Qihua Liang

# IRDR @ ISC GA

- IRDR participated in the discussions during the pre-event workshops on 26 January and the "Muscat Global Knowledge Dialogue" on 27 - 28 January.
- IRDR participated in the 3<sup>rd</sup> General Assembly on 29-30 January, and the following pre-events:
  - Internal meeting: Central Asia/Transcaucasia
  - Meeting of ISC Affiliated Bodies
  - Forum of Category 3 Members – Young academies and associations
  - Early- and Mid-Career Researchers' Roundtable
- Alik Ismail-Zadeh was selected as the member of Resolution Committee.
- Saini Yang read the statement of ISC Affiliated Bodies to ISC Strategic Plan 2025 – 2028.



# Statement of ISC Affiliated Bodies

Affiliated Bodies of the ISC advance priority and policy-relevant science in a diversity of disciplinary, interdisciplinary, and transdisciplinary areas through the coordination of international scientific communities.

Such bodies are crucial for the implementation of the 2025-2028 strategic plan of the ISC. Affiliated Bodies invite further engagement, communication, and participation from all ISC members and scientists globally.

# Activities after GA

- IRDR contributed to ISC AB newsletters.
- IRDR SC members Josephine and Soledad contributed to ISC AB *Safeguarding and Enhancing International Scientific Collaboration for Climate Action* for COP30.





# Mapping IRDR Action Plan 2025-2027 with ISC Strategic Plan

## 1. International Science Agenda Setting

ISC Aspect	IRDR Alignment	Relevant IRDR Actions
Identifying and acting on emerging issues of global concern	Focus on dynamic risk landscapes, technological innovation, and interdisciplinary collaboration.	<p>Action 6: Development of IRDR Work Streams and Pilot Studies</p> <ul style="list-style-type: none"> <li>- "Climate change and public health"</li> <li>- "End-to-end Early Warning"</li> </ul> <p>Action 11: Production of IRDR Working Papers and IRDR Special Reports</p> <ul style="list-style-type: none"> <li>- IRDR working papers and Special Reports are produced on emerging, pertinent and integrated issues of DRR</li> </ul>
Sustainability agenda	Integration with SDGs, climate adaptation, and risk-informed development.	<p>Action 6: Development of IRDR Work Streams and Pilot Studies</p> <ul style="list-style-type: none"> <li>- Risk-informed development</li> </ul> <p>Action 10: Contribution to Global Assessment Report (GAR) series and its special reports</p>
Human and societal development	Addressing inequalities, education, and youth empowerment.	<p>Action 6: Development of IRDR Work Streams and Pilot Studies</p> <ul style="list-style-type: none"> <li>- DRR Education</li> </ul> <p>Action 15: IRDR Young Scientists Programme</p>
Fundamental science as a route to development	Interdisciplinary research and capacity-building.	IRDR's mission

# Mapping IRDR Action Plan 2025-2027 with ISC Strategic Plan

## 2. Evidence-Based Policymaking

ISC Aspect	IRDR Alignment	Relevant IRDR Actions/Documents
<b>Delivering science advice to the multilateral system</b>	Direct engagement with global policy platforms.	Action 5: IRDR support to international and regional dialogue and exchanges Action 8: Participation in the work of 'Hazards Definition and Classification' and 'Hazard Information Profiles' (HIPs) Action 12: Compilation of DRR Policy Briefs Outcomes of work streams and pilot projects
<b>Enhancing science advice capabilities of ISC Members</b>	Capacity-building through training and mentorship.	Action 14: IRDR online lectures and training Action 15: IRDR Young Scientists Programme
<b>Shaping the science-policy interface</b>	Bridging research and decision-making.	Action 5: IRDR support to international and regional dialogue and exchanges Action 12: Compilation of DRR Policy Briefs

# Mapping IRDR Action Plan 2025-2027 with ISC Strategic Plan

## 3. Science Diplomacy

ISC Aspect	IRDR Alignment	Relevant IRDR Actions/Documents
<b>Multilateral science diplomacy</b>	Partnerships with global institutions and UN bodies.	Action 4: New partnership development - Partnership with UN agencies and international organisations Action 5: IRDR support to international and regional dialogue and exchanges
<b>Regional and country-level science diplomacy</b>	Engagement through regional networks and local capacity-building.	Action 3: Enhancement of IRDR NCs and ICoEs Action 5: IRDR support to international and regional dialogue and exchanges Action 16: Alliance with DRR youth initiatives and networks



# IRDR @ GPDRR2025

- Policy Brief
  - Disaster Risk Reduction Products and Processes: Knowledge Sharing for Place- and Context- Specific Action
- IRDR Pre-events for GP (IRDR Young Scientists Lumos)
  - From Data to Action: DRR solutions from young scientists
  - Localization of the Global Agenda: DRR Solutions from Young Professionals



## DISASTER RISK REDUCTION PRODUCTS AND PROCESSES: KNOWLEDGE SHARING FOR PLACE- AND CONTEXT-SPECIFIC ACTIONS

**Authors:** Naxhelli Ruiz-Rivera (Mexico), Maria Soledad Garcia Ferrari (United Kingdom), Alik Ismail-Zadeh (Germany), Saini Yang (China), Christopher Garimoi Orach (Uganda), Khamarrul Azahari Razak (Malaysia), Josephine Ngaira (Kenya), Fang Lian (China)  
**Reviewers:** John Handmer (Australia), Allan Lavell (Costa Rica), Virginia Murray (United Kingdom), and Coleen Vogel (South Africa)



# IRDR @ GPDRR2025

- IRDR& U-INSPIRE Alliance Innovation Platform: Actionable Science for Disaster Risk Reduction: Transformative, Actionable scientific solutions through Youth, Young Scientists, and Young Professionals' contribution for DRR
- IRDR ICoE Coherence (NIED) Innovation Platform: E-Defense: The World's Largest Three-Dimensional Full-Scale Earthquake Testing Facility
- Stakeholder Forum on DRR: Implementation of Sendai Framework for DRR: Role of Science and Technology in strengthening implementation at local level
- World Resilient Recovery Conference (WRRC) TS6: Turning Experience into Action: Learning from Large-Scale Disasters
- WRRC Plenary 2: From Commitment to Action: Leadership for Resilient Recovery

# IRDR @ GPDRR2025

- Learning Lab: Local public services and **urban resilience**: Science-based participatory approaches for inclusive risk-sensitive planning
- Learning Lab: The **Disaster Forensic Investigations Approach** – Understanding root causes and disaster risk drivers to enhance DRR
- TS1-2: **From data to action**: Strengthening the understanding of disaster impact data and its application in decision-making
- TS1-3: Development and adoption of technologies to accelerate disaster risk reduction
- TS4-1: Inclusive and multisectoral approach to effective preparedness
- Ignite Stage: The multi-hazard platform for Early Warning Systems for All (Speaker: Nurfashareena Muhamad, IRDR ICoE SEADPRI-UKM)
- Ignite Stage: Strengthen disaster risk reduction in urban resettlement processes (Speaker: Emmanuel Raju, **IRDR Young Scientist**)



# Applications of IRDR Pilot Studies

Overall Application Statistics: 73 Applications in total

Continent	Country
Africa (53)	Ethiopia (18), Tanzania (6), Nigeria (5), Madagascar (4), Mozambique (3), Uganda (3), Mali (3), South Africa, Burkina Faso, Cameroon, Côte d'Ivoire, Ghana, Kenya, Zimbabwe, Botswana, Algeria, Benin
Asia (14)	India (3), Nepal (3), Georgia (2), China, Indonesia, Japan, Malaysia, Bangladesh, Jordan
Europe (3)	Greece (2), Belgium
North America (2)	Canada, Trinidad and Tobago
Oceania (1)	New Zealand

*Incomplete Applications (Missing Research Areas or Summary): 4*

## IRDR NC and ICoE Applications: 51

- ICoE REaL (Risk Education and Learning) – 46
- ICoE CR (Community Resilience) – 1: Citizen Science Research
- ICoE-NSET (National Society for Earthquake Technology-Nepal) – 1: DRR Education
- ICOE-SEADPRI-UKM (Malaysia) – 1: Risk-informed Development and Citizen Science Research
- ICoE Coherence (Japan) – 1: Climate Change and Public Health
- NC Iran – 1: Risk-informed Development, DRR Education and Citizen Science Research

## Applications by Research Theme:

- Risk-informed Development (29), Climate Change and Public Health (27), Citizen Science Research (25), DRR Education(21), DRR Finance (2)

# Applicants of IRDR Young Scientists Programme

Applicants: 41 (17 Female, 24 Male)

- Bachelor 1
- Master Student 3
- Master 8
- PhD Candidate 18
- PhD 10
- Post Doc 1

Continent	Countries
<b>Asia (19)</b>	Pakistan (6), China(4), India(2), Japan, Oman, Türkiye, Afghanistan, Nepal, Indonesia, Bangladesh
<b>Africa (12)</b>	Uganda (4), Kenya (2), Ethiopia (2), Zambia, Zimbabwe, Lesotho, Rwanda
<b>Europe (6)</b>	Germany, Portugal, Italy, United Kingdom, Switzerland, France
<b>Oceania (3)</b>	New Zealand (3)
<b>South America (1)</b>	Brazil (1)

# IRDR IPO Action Plan for 2026

- **Enabling a full operation of IRDR Phase II**
  - SC29, establishment of new ICoEs ( $\geq 2$ ), new batch of YSP, new partners ( $\geq 3$ )
- **Coordination of international research cooperation**
  - Development of IRDR Work Streams ( $\geq 2$ ), organization and participations in international and regional dialogues ( $\geq 10$ )
- **Knowledge production and outreach**
  - Special reports ( $\geq 2$ ), policy briefs ( $\geq 2$ ), promotion of IRDR on the portal of partners
- **Empowerment of young DRR professionals**
  - IRDR YS Lumos ( $\geq 4$ ), IRDR Youth Podium ( $\geq 4$  cases), training workshops ( $\geq 2$ )