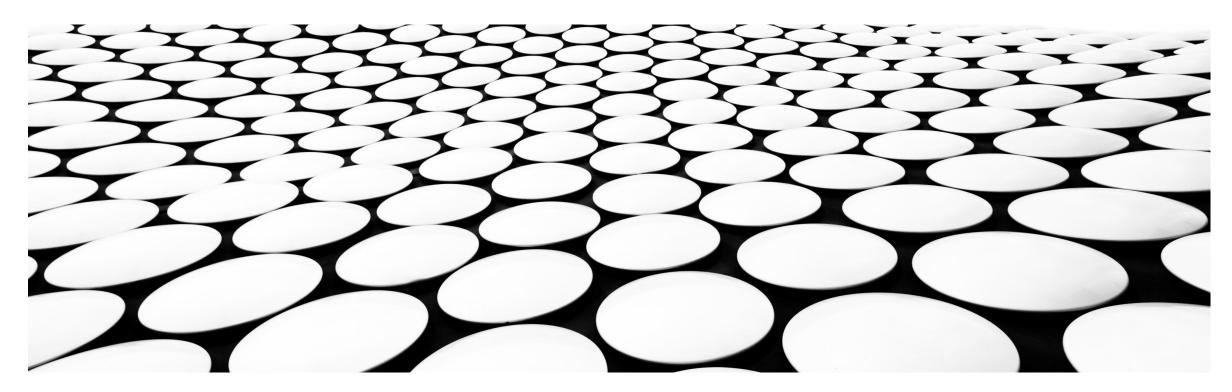


IRDR UPDATE

2 JULY 2024 HAN Qunli, Executive Director

















Vision, Mission and Objectives

Toward inclusive, safe and sustainable development



Improve
knowledge and
understanding of
risk and
uncertainty



Promote
innovation in
research and
action, and
explore effective
solutions in DRR



institutional capacity required for risk-informed development





Main Functions and Deliverables

Coordinating international research

Working at the science-policy-practice interface

As an international hub of centres of excellence for risk research and capacity building

IRDR Main Deliverables will contribute to Open Science and Open Access



IRDR Special Reports



IRDR Lectures



Service in organising DRR Science and Policy Forums



IRDR Working Paper Series



IRDR Trainings and Courses



Promotion of risk science development and best examples



IRDR: a science community for research and actions

Coordination, oversight and institutional support by Co-sponsors, Donor and Host



13 National Committees, 1 Regional Committee

IRDR Australia	Bushfire & Natural Hazards Cooperative Research Centre (BNH CRC)	IRDR New Zealand	Natural Hazards Research Platform (NHRP)
IRDR Canada	Science and Technology Working Group, Canada's Platform for Disaster Risk Reduction	IRDR USA	Natural Hazards Center (NHC), Institute of Behavioral Science, University of Colorado at Boulder
IRDR China	China Association for Science and Technology (CAST)	IRDR Iran	A group of eight Iranian research institutes and scientific associations
IRDR Colombia	National Committee of Disaster Risk Knowledge, National Unit for Disaster Risk Management of the Presidency of the Republic of Colombia	IRDR Indonesia	Indonesia Institute of Sciences (LIPI)
		IRDR Japan	Science Council of Japan (SCJ)
IRDR France	Scientific Council, Association Française Pour la Prevention des Catastrophes Naturelles (AFPCN)	IRDR Republic of Korea	National Disaster Management Research Institute (NDMI) in Ministry of the Interior and Safety
IRDR Germany	German Committee for Disaster Reduction	IRDR Nepal	National Reconstruction Authority of Nepal

IRDR Regional Committee

ISC Regional Office for Latin America and the Caribbean

18 International Centres of Excellence

Community-based Resilience, New Zealand	ICoE- CR	Risk Education and Learning, South Africa	ICoE- REaL
Risk Interpretation and Action, UK	ICoE- RIA	Capacity building, research, Chinese Taipei	ICoE- Taipei
Understanding Risk & Safety, Colombia	ICoE- UR&S	Vulnerability & Resilience Metrics, USA	ICoE- VaRM
Critical Infrastructure & Strategic Planning, Germany	ICoE- CI&SP	Disaster Resilient Homes, Buildings, and Public Infrastructure, Canada	ICoE- DRHBPI
National Society for Earthquake Technology, Nepal	ICoE- NEST	Disaster and Medical Humanitarian Response, Hong Kong, China	ICoE-CCOUC
Disaster Risk and Climate Extremes, Malaysia	ICoE-SEADPRI- UKM	Spatial Decision Support for Integrated Disaster Risk Reduction, the Netherlands	ICoE-SDS IDRR
Transforming Development and Disaster Risk, Sweden/Thailand	ICoE-TDDR	Integrated Research on Disaster Risk Science, Australia	ICoE-IRDRS
Resilient Communities & Settlements, India	ICoE-RCS	Disaster and Climatic Extremes, Pakistan	ICoE-DCE
Risk Interconnectivity and Governance on WEather/Climate Extremes Impact and Public Health , Shanghai, China	ICoE-RIG- WECEIPHE	Coherence among Disaster Risk Reduction, Climate Change Adaptation, and Sustainable Development, Tokyo, Japan	ICoE - Coherence

IRDR'S GROWING PARTNERSHIP













ISC GeoUnions Standing Committee on Disaster Risk Reduction









Culture Sector, Science Sector, IKCEST, HIST, MAB China, UNESCO Chair UK,...

Technologies and database, Open Science and knowledge service, MHEWS, ICH and Climate Change, UNESCO Sites, Youth

Empower Youth and Young Professionals

IRDR Young Scientists Programme

- ➤ Since 2016
- > 5 batches
- ➤ 208 young researchers
- ➤ Over 40 countries
- ➤ Over 30% female researchers
- Multi-disciplinary
- ➤ Integrated research



IRDR Youth Podium

Seismic Performance Evaluation of Indigenous Brick Masonry Infill Panel Walls in Reinforced Concrete Structures

06 February 2024

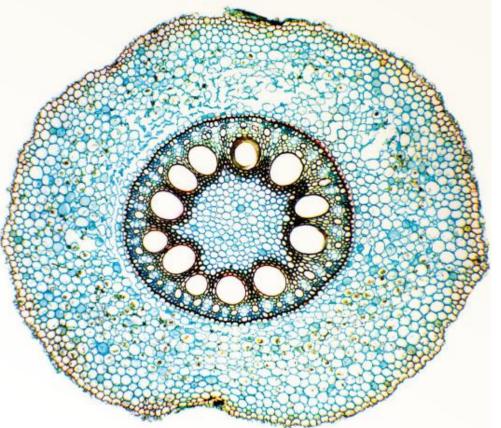
This is the first product of IRDR Youth Podium.





SCIENCE AND SOCIETY IN TRANSITION

ISC ACTION PLAN: 2022-2024





Theme 1.3: Systemic risk and global emergencies

Preparedness is crucial in the face of cascading, systemic risks, involving new, complex, interacting threats that disrupt the fabric of social life and undermine attempts to achieve both global sustainability and human-centred development. These risks and potential crises demand more effective anticipatory responses from both science and

SOC Priority theme 1.3: Systemic risk and global emergencies

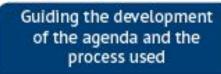
Activities	ISC role and partnerships	Status	Time- frame
Development and implementation of a global risk research agenda for 2030	ISC role: Partner Partners: IRDR (Lead), UNDRR, The Risk Knowledge Action Network, CAST, and others to be determined	Ongoing	Ongoing

The Development of Research Framework









With representatives of:







Science Committee
 Executive Director
 External Members

Providing review and commentary from diverse perspectives

Core Group members

Representatives with expertise in:

- DRR climate
- sustainability development
- the private sector

- **W**UNDRR
 - Science and Technology Advisory Groups



International Centres of Excellence National Committees Ensuring inclusion of sectors and sources of knowledge often excluded

indigenous knowledge

private sector

early career science communities

 information and communication technology



Priorities in Global Research Framework

(ISC, IRDR, UNDRR, Nov 2021)

1. Understand risk creation and perpetuation in the present risk landscape

- 2. Address inequalities, injustices and marginalisation
- 3. Enable transformative governance and action
- 4. Understand the implications of new thinking on hazards
- 5. Harness technologies, data and knowledge for risk reduction
- 6. Support regional and national science and knowledge for policy and action
- 7. Support just and equitable transitions, adaptation and risk reduction
- 8. Measurement to help drive progress
- 9. Foster interdisciplinary and multi-stakeholder collaboration



Clusters of Actions and Deliverables

Enabling a full operation of IRDR Phase II

Coordinat
ion and
facilitation
of
internation
al research
cooperatio
n

Knowledgeproductionandoutreach

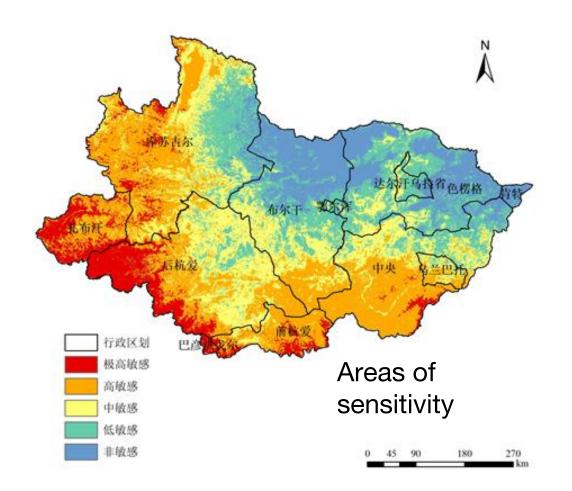
Empower young DRR professiona Is

IRDR Pilot Studies (examples)

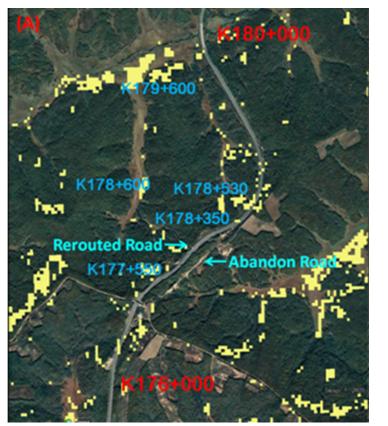
Host	Topic
UNESCO-IKCEST DRR	Ecological Safety Assessment in the Selenge River Basin on the Mongolian Plateau
Horizon Programme	Empower young professional in DRR innovation and network
IRDR ICoE Fudan	Research themes, trend and future priorities in the field of climate change and health
ICL/IPL WCoE	The impact of mountain landslides on major infrastructures in the degraded permafrost region in the northwest of the Lesser Khingan Mountains
ICRG	Towards Post-Normal Science: The Science-Policy-Society Interactions in Emergency Management Research
CODATA GOSC	Open Science Cloud for Disaster Risk Reduction
iNED	Landscape and challenges of digital industry in Disaster Risk Reduction
CBAS	SDGSAT-1 data products and service for Disaster Risk Reduction

IRDR Pilot Studies (examples)

Ecological Safety Assessment in the Selenge River Basin on the Mongolian Plateau



The impact of mountain landslides on major infrastructures in the degraded permafrost region in the northwest of the Lesser Khingan Mountains



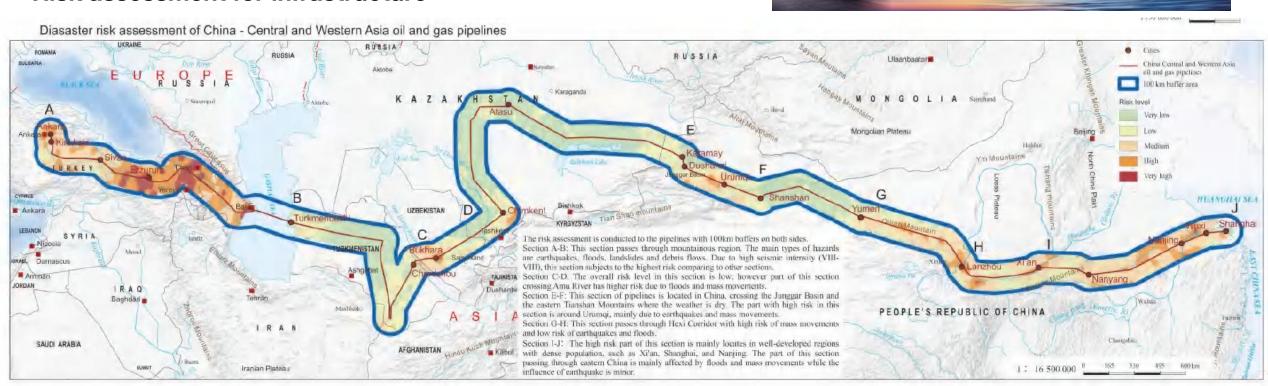
Roads affected by landslides triggered by permafrost

IRDR Flagship Project Silk Road Disaster Risk Reduction

(SiDRR)

- Risk information of multi-hazards and infrastructures along the silk road region
- Cases on the solutions and experiences of disaster events

Risk assessment for infrastructure



IRDR Work Streams and intended themes

Work Streams (WS)

Deliver under the research priorities of the **Objective** Framework 2) Act as international think tank Led by Principal Investigator (PI) Lead and DRR partners and stakeholders including IRDR participation members jointly work as a group **Application** Research Proposal approved by SC and approval Multi and collective sources **Funding** IPO can provide € 10,000-20,000 per year for each WS Duration 3-5 years Focus and Theme oriented orientation

- Climate extremes and public health (ongoing)
- Landscape of 4D risk and climate change adaption in Mongolian Plateau (ongoing)
- Systemic, compound and cascading risk
- New data technologies and DRR
- Build back better with resilience in the context of post Covid–19
- DRR education
- Integrated DRR in IDAs
- DRR financing

Deliverables Research papers, policy briefs, IRDR Special Reports

PREPARATION OF IRDR SC27 AND IRDR 2024 CONFERENCE

SC TO TAKE ROLES FOR CONFERENCE PLANNING
TOGETHER WITH IPO

PRE-SESSIONS FOR IRDR 2024 CONFERENCE

Workshops/Conferences as Pre-sessions	Organizer(s)	Place
New Technology vs Disaster Risk Reduction: Opportunities and Emerging Risks	IRDR IPO CODATA GOSC	Online
Harness technologies, data and knowledge for disaster risk reduction of UNESCO-designated sites	IRDR IPO UNESCO HIST	Huangsha n, China
International Conference on Science and Technology for Sustainability 2023	IRDR ICoE-Coherence IRDR NC Japan	Tokyo, Japan
Disaster Risk Reduction session of the 6th World Philanthropy Forum	IRDR ICoE CCOUC	HK, China
New data technologies for DRR early warning and early actions	IRDR IPO DBAR DRR WG CAST-UN Consultative Committee on DRR	Beijing, China
1st Intl. Conference of Chemical Weather and Chemical Climate	WMO IRDR Fudan ICoE	Shanghai, China
Open data and open service for disaster risk reduction	IRDR IPO CODATA GOSC	Salzburg, Austria

SAVE THE DATE

	AM	PM
21 Oct	IR	DR SC Meeting
22 Oct	IRDR SC Meeting	IRDR 2024 Conference: Opening Session and Plenary Session
23 Oct	IRDR 2024 Conference: Parelle Sessions	
24 Oct	IRDR 2024 Conference: Plenary Session and Closing Session	Special Event Thematic Session of 2024 World Science and Technology Development Forum: Science and Technology for Risk-informed Sustainable Development



THANK YOU!

IRDR Compilation 2010–2020

Global Research Framework

