

# Background literature review for the research agenda

IRDR 23rd Scientific Committee meeting

16 June 2020

# Background and scope

- Decision to conduct a background lit review to inform the development of the new research agenda/science mission
- ‘DRR or disasters science’ is multi-disciplinary – research spans the natural and social scientific disciplines
- Body of relevant work is too large to review systematically
- Will instead focus in on key themes and concepts, for broad (rather than deep) coverage
  - DRR/DRM/DM
  - Risk, Hazards, Exposure
  - Vulnerability, Resilience
  - Climate change
  - Sustainability
- Emphasis will be on how these themes and concepts **contribute** to knowledge on ‘DRR or disasters’

# Aim and key questions

**What is the current state of scientific (and non-scientific) knowledge on DRR and relevant themes for the development of the new research agenda/science mission?**

The review will look at:

- The development and evolution of relevant concepts and frameworks
- The development and use of relevant methods, tools and approaches
- Key gaps in data, information and knowledge
- Key gaps in science-to-policy engagement, science communications, and research capacity
- Science for key global policy missions – starting with Sendai Framework, also SDGs and Paris Agreement

# Methodology

Literature for review will be identified as follows:

- Title-Abstract-Keyword advanced searches using the Scopus Document search function (search strings to be developed)
- Keyword searches using Google Scholar (results to be cross-referenced with Scopus search results)
- Keyword searches using Google (primarily for non-academic and grey literature)

**Members of the Core Group and Science Committee** are invited to:

- Suggest academic or other literature for review in line with the criteria for inclusion
- Review and analyse literature published in other languages besides English

***A short survey will be sent around ASAP to gather your inputs.***

# Criteria for inclusion

- **Academic literature** with a focus on:
  - Seminal or highly cited journal papers, edited books or chapters published since 2010 on DRR and related themes
  - Journal papers, edited books or chapters published since 2010 which systematically or holistically review the literature to provide a synthesis of the state of knowledge on DRR
  - Journal papers, edited books or chapters published since 2010 which explicitly focus on inter- or trans-disciplinary science for DRR
  - Other peer-reviewed academic literature, e.g. IPCC, GAR Reports
- **Other non-academic or grey literature** published since 2015 which is highly relevant to the research agenda, e.g.
  - Science for Sendai, Paris, SDGs
  - Key institutions and coalitions/networks for DRR (e.g. STAG, GADRI, Risk-KAN)
  - Private sector institutions and coalitions/networks for DRR
  - Non-scientific knowledge e.g. traditional, local, indigenous knowledge

# Background paper outline

- Summary
- Introduction
- Methodology
- Results and Analysis
  - The development and evolution of relevant concepts and frameworks
  - The development and use of relevant methods, tools and approaches
  - Key gaps in data, information and knowledge
  - Key gaps in science-to-policy engagement, science communications, and research capacity
  - Science for key global policy missions – starting with Sendai Framework, also SDGs and Paris Agreement
- Discussion – key insights for the research agenda/science mission
- Conclusions
- References
- Annexes

# Process and timeline

- Literature sourcing and reviewing will be led by Michael, John and the IPO
- A short survey will be sent to **Core Group and SC members**, for responses by 30 June
- **Core Group** members will review a first draft, and may contribute additional analysis (e.g. for publications in other languages besides English)
- A survey or wider consultations may be utilized for additional inputs from key institutions and individuals (note: potential link with ISC call for inputs on SDG science mission) once a first draft has been prepared and reviewed by the Core Group

Concept note and outline agreed by CG - 3 June



Survey sent to CG & SC - responses by 30 June



First draft for CG review - 17 July



Feedback from CG - 31 July



Final draft - 31 August