



What are suitable approaches for assessing climate-related management and Loss & Damage (residual) risks?

Laxenburg | Austria 1. - 3. 12. 2020

Transformational risk

INQUIMUS

INQUIMUS

Integrating quantitative methodologies for multi-dimensional and qualitative phenomena assessment Workshops





INQUIMUS

Workshops Integrating quantitative and qualitative assessment methodologies for multi-dimensional

phenomena

Scope of INQUIMUS Workshops

There is growing demand by policy- and action-oriented users for operational and integrative assessments of complex, multidimensional phenomena such as vulnerability and resilience. In recent years, quantitative and qualitative assessment methods as part of targeted efforts to disaster risk reduction and climate change adaptation have been pushed towards operational levels. Whilst the scientific progress regarding the development of theoretical frameworks and associated definitions has been remarkable, further attention needs to be given to coherent assessment methodologies that evaluates and benchmarks approaches and intervention options. In the context of social-ecological systems and complex and multi-dimensional phenomena, a key issue is the relevance of spatial and temporal monitoring and how it can effectively support decision making.

Against this background, the Department of Geoinformatics - Z_GIS at the University of Salzburg, Austria and Eurac Research in Bozen/Bolzano initiated in 2014 a series of INQUIMUS workshops (lat. "we say") - Integrating quantitative and qualitative assessment methodologies for multidimensional phenomena. The purpose of these highly interactive workshops is to identify common achievements and methodological challenges, which will enable us to identify insights and future ways ahead. Additionally, these workshops will provide the possibility to exchange with practitioners who are active in this field and interested in the application and operationalization of assessments.

- 2014 Spatial indicators and assessment of vulnerability and resilience (Salzburg | Austria)
- 2015 Challenges in Q² methodologies to acquire and integrate data for the assessment of risk, vulnerability and resilience
- (Bozen/Bolzano I Italy)
 2016 Spatial and temporal dynamics of risk and vulnerability
- (Salzburg | Austria) 2017 How can scientific assessments inform decisions for problem solving in practice? (Bozen/Bolzano | Italy)
- 2018 Methods and tools to assess mult-hazard risk, vulnerability and resilience (on-tour: Venice I Italy)
- 2019 Data, methods and tools for dynamic risk assessments: What are the requirements, and how to tackle persisting challenges? (on tour: Bonn | Germany)





risk management once adaptation limits are being exceeded. The IPCC beyond adaptation limits. Moreover, the IPCC's recent report on 1.5C global indicators that inform policy and decision makers about climate-related risks development of comprehensive risk assessment methodologies as well as of socio-ecological systems" defines transformation as "deep, systemic change that requires reconfiguration warming has strongly emphasized the role of, and need for, transformational

Of particular importance for improving the science-policy interface is the

adaptation" - referred to as Loss and Damage - has recently become the third been implemented. Identifying policy solutions for dealing with risks "beyond negative impacts after all feasible mitigation and adaptation measures have

pillar in the international climate policy process next to climate change mitigation

and adaptation.

and tools and to share best practices in different application contexts. different fields will advance in cross-fertilization scientific concepts, methods approaches are reaching their limits when it comes to assessing risks beyond policy. At the INQUIMUS 2020 workshop scientists and practitioners working in adaptation and designing transformational risk management practice and However, concrete research and evidence remains scarce and existing scientific

risk management? of risk management options from incremental to transformational > What are experiences in/case studies that showcase the spectrum context of climate-related risks beyond adaptation limits? > What are the gaps in existing risk assessment methodologies in the climate-related risks that may lead beyond adaptation limits? science perspective for comprehensively assessing and managing > What are the needs of decision advisors and makers and from a Key questions driving the discussion during the workshop will be

does risk science has to transform itself? > (How) can existing risk assessment methods and tools be further developed (or need to be dropped) to address these gaps? And/or



Climate change is accelerating and in combination with other drivers (exposure

Scope of the 2020 workshop

vulnerability) is increasingly turning risks more dynamic (i.e. harder to assess

physical and social adaptation limits, highlighting the need for tackling with standard approaches). There is first evidence of related impacts breaching

'residual climate-related risks'. Residual risks being defined as potential



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Format

The workshop will be **moderated** to foster a **highly interactive** and **generative event**. Conventional presentations will play a minor role. **Invited keynotes** will present the **state-of-theart of particular methods** followed by a **focused discussion on current achievements and challenges**. Case studies will be presented as **posters** and will accompany the workshop to provide further insights into the application of methodologies.

The workshop will take place in Laxenburg, Austria.

Organising Committee for 2020

Stefan Kienberger (University of Salzburg/Z_GIS - Austria) Reinhard Mechler (IIASA - Austria) Thomas Schinko (IIASA - Austria) Stefan Schneiderbauer (Eurac Research - Italy) Marc Zebisch (Eurac Research - Italy)

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Call for abstracts

Participation is mainly by **invitation**. However, we would like to provide room for **additional participants to present their findings**. Interested participants should send an **abstract** (max 400 words), discussing the following issues:

- >> Motivation for application and relevance to guiding questions listed above
- >> Methods applied in transformational risk management
- >> Achievements and challenges
- >> Scientific merit and insights

Please submit your abstract by May 15, 2020 to: inquimus2020@iiasa.ac.at

Successful applications will be informed by June 2020.

Further information: www.inquimus.org







Date

Tuesday, 1. December (late afternoon) until Thursday, 3. December 2020 (mid afternoon)

Location

2361 Laxenburg | Austria Schlossplatz 1 International Institute for Applied Systems Analysis

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