

INQUIMUS

Workshops

Integrating quantitative
and qualitative
assessment
methodologies for
multi-dimensional
phenomena

INQUIMUS

21. - 23. 9. 2016

Salzburg | Austria

Spatial and temporal
dynamics of
risk and vulnerability

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and qualitative
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Scope of INQUIMUS Workshops

There is growing **demand by policy- and action-oriented users** for **operational and integrative assessments** of **complex, multi-dimensional 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 methods**. Therefore we need a **critical scientific discussion on assessment methodologies** that evaluates and benchmarks approaches and intervention options. Another key issue is the relevance of **spatial and temporal monitoring** in the context of social-ecological systems and complex and multi-dimensional phenomena and how it can effectively support decision making.

Against this background, the **Department of Geoinformatics - Z_GIS** at the **University of Salzburg**, Austria and the **European Academy of Bozen/Bolzano (EURAC)** initiated in 2014 a series of **INQUIMUS workshops** (lat. "we say") - **Integrating quantitative and qualitative assessment methodologies for multi-dimensional 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 | Italy)

Scope of the 2016 workshop

The thematic scope of this year's INQUIMUS workshop is on **scenarios** relevant for **assessments of risks and vulnerabilities**. **Data gaps** regarding the environmental and socioeconomic drivers of risk and vulnerability combined with **methodological challenges** hamper the development of such scenarios. This is particularly problematic given **the need for scenarios** by planners and decision-makers in the context of **climate change adaptation** as well as in **disaster risk reduction**. INQUIMUS 2016 will reflect on the following topics and welcomes abstracts covering one or more of the following questions:

- > How do we build scenarios relevant for risk and vulnerability in disaster research and/or climate change adaptation?
- > How do we build on existing socio-economic and environmental data to produce integrated scenarios?
- > How do we bridge the gap between quantitative and qualitative scenarios?
- > How can we integrate our knowledge from the past into future projections?
- > How can scenarios for risk and vulnerability assessments support better decision-making?
- > What are the requirements for scenario-based approaches to be used in practice?
- > What specific challenges exist in the development of scenarios and projections, for example regarding economic or population growth or anthropogenic activities (e.g., unrest, urbanization, land use/cover changes)?

INQUIMUS 2016 aims to provide a setting for **generative conversations**. In addition to the thematic questions above, we are interested in exploring the following guiding questions throughout the workshop:

- > Why do we develop and use scenarios?
- > What future possibilities of practice we want to serve with the development of scenarios for risk and vulnerability assessments?
What are we trying to create?

As an outcome of this workshop, we will generate **recommendations** for the development of **policy-relevant risk and vulnerability scenarios** that are **useful, useable, and used**.

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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-the-art 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 **Salzburg, Austria**.

Scientific Committee - INQUIMUS

Marion Borderon (Z_GIS, University of Salzburg - Austria)
Stefan Kienberger (Z_GIS, University of Salzburg - Austria)
Stefan Schneiderbauer (EURAC - Italy)
Marc Zebisch (EURAC - Italy)
Peter Zeil (Z_GIS, University of Salzburg - Austria)

Extended Scientific Committee

Susan Cutter (HVRI, University of South Carolina - USA)
Melanie Gall (HVRI, University of South Carolina - USA)
Matthias Garschagen (United Nations University - UNU-EHS)
Michael Hagenlocher (United Nations University - UNU-EHS)

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 scenario development**

>> **Achievements and challenges**

>> **Scientific merit and insights**

IMPORTANT: We particularly welcome participation from researchers contributing to methodological advancements such as demographers, statisticians, and other related disciplines.

Please submit your abstract by **June 15, 2016** to:
markus.kerschbaumer@sbg.ac.at

Successful applications will be informed by mid-July 2016.

Further information: **www.inquimus.org**

Date

Wednesday, 21. September (late afternoon) until
Friday, 23. September 2016 (mid afternoon)

Location

University of Salzburg
Edmundsburg - Mönchsberg 2
5020 Salzburg | Austria

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