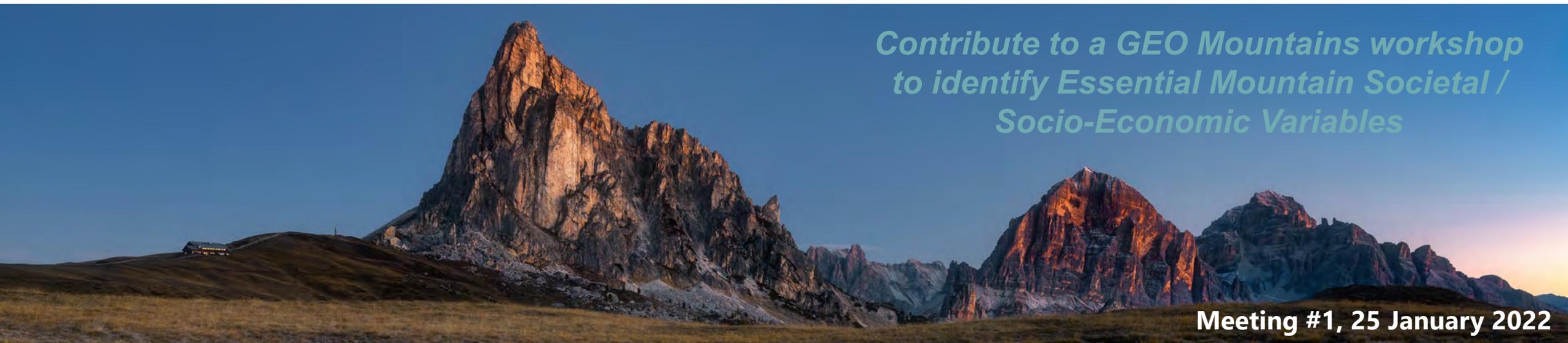


GEO Mountains Task Group 2.3



*Contribute to a GEO Mountains workshop
to identify Essential Mountain Societal /
Socio-Economic Variables*

Meeting #1, 25 January 2022



Housekeeping



- Kindly mute yourselves when not speaking
- Please “raise your hand” to request the floor
- The meeting is being recorded
- Brief notes will be circulated afterwards

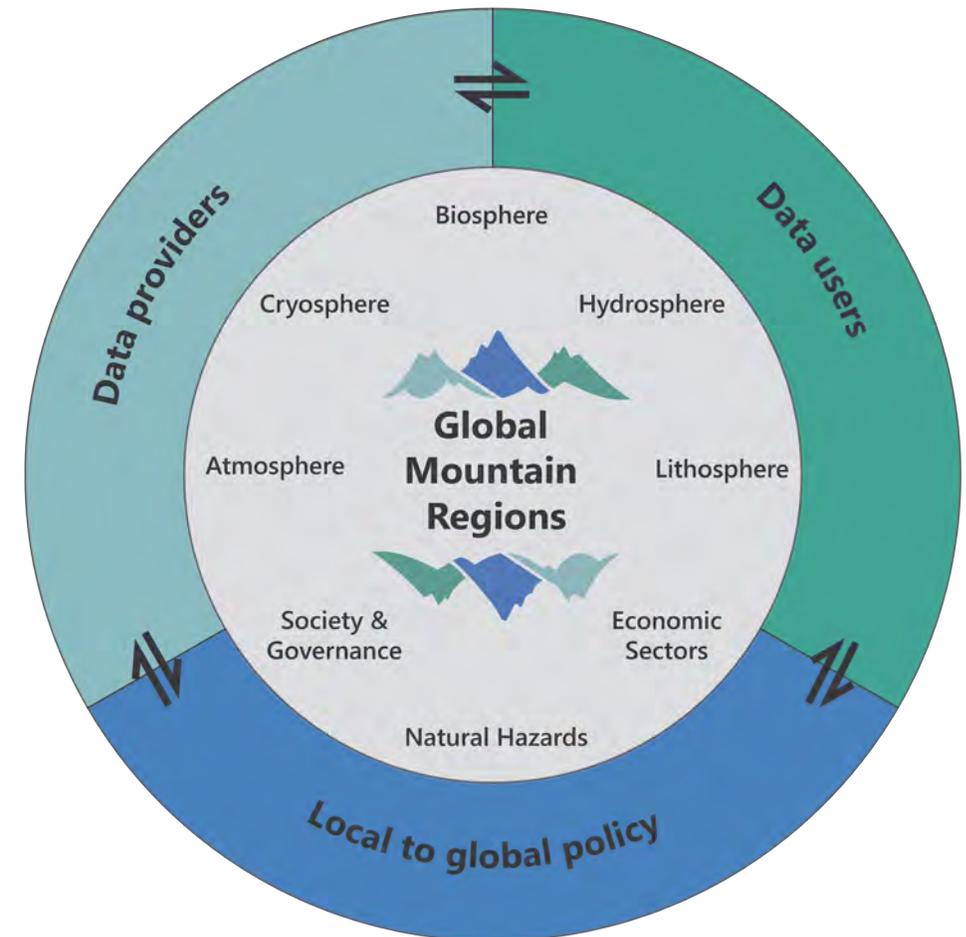
GEO Mountains: an introduction

The Global Network for Observations and Information in Mountain Environments

An Initiative of the Group on Earth Observations (GEO) co-lead by the Mountain Research Initiative (MRI) & the National Research Council of Italy

Objectives:

- ❑ To identify and satisfy the data and information needs of a diverse range stakeholders operating in the mountain sphere
- ❑ To improve monitoring and understanding of mountain processes and phenomena, especially under change
- ❑ To build, connect, and communicate with the community of mountain researchers, practitioners, and policy makers
- ❑ To develop collective reporting capacity that responds to pre-identified assessment and policy needs



Task Groups



| Number | Description | Number of participants |
|--------|---|------------------------|
| 1.1a | Develop, maintain, and share a list of relevant datasets | 31 |
| 1.1b | Develop and maintain a list of interdisciplinary in situ mountain observational infrastructure and associated datasets | 20 |
| 1.2 | Contribute to our series of regional workshops / consultations into data portal requirements and main data needs / gaps | 24 |
| 1.4 | Contribute Knowledge Packages via GEO Mountains to the GEO Knowledge Hub | 20 |
| 2.1 | Analyse the extent to which data from mountain observatories are freely available, and which measurement protocols are followed | 14 |
| 2.2 | Contribute to the MRI's existing Mountain Observatories (MOs) and Elevation Dependent Climate Change (EDCC) Working Groups | 24 |
| 2.3 | Contribute to a GEO Mountains workshop to identify Essential Mountain Societal / Socio-Economic Variables | 34 |
| 2.4 | Develop a global spatial dataset related to mountain socio-economics | 20 |
| 2.5 | Establish links with the paleoscience community to help ensure that paleodata pertaining to mountains are discoverable, accessible, and usable | 8 |
| 3.4 | Develop educational, training, and capacity development materials related to the drivers, processes, and impacts of environmental, ecological, and societal change in mountains | 27 |
| 3.5 | Identify areas in which / how existing resources can be applied to respond to pre-identified policy needs | 28 |

Previous related activities

- ❑ Workshop (2019) and publication (2021): [“Essential Mountain Climate Variables”](#)
- ❑ Workshop (2020) and publication (in prep): “Essential Biodiversity Variables in mountains”
- ❑ Regional consultations into data needs in key mountain focus regions conducted by GEO Mountains under the Adaptation at Altitude Programme
 - ❑ Socio-economic data often identified as a particular challenge / lacking



Main TG objective and scope

- To help plan, conduct, contribute to, and write up a workshop on identifying **critical societal variables** that should be **monitored / obtained as priorities** in order to **track, understand, and better predict the impacts of change** (both climatic and societal) on **mountain socio-ecological systems in an integrated sense**
- Variables influencing climate change adaptation and natural hazard vulnerability, exposure, and risk mitigation (amongst others) are expected to feature prominently
- Having defined such a set of variables, the workshop may proceed to consider the specific attributes that those data / measurements should have (e.g. spatial resolution, temporal coverage, accuracy, etc.) to be useful for general applications in mountains terrain
- And furthermore analyze the extent to which these needs can be presently met by existing data sources
- Also, ensure that societal data are sufficiently represented in the GEO Mountains data inventories

Expected outcomes

- A proposed consensus set of societal variables and associated (minimum) attributes to be prioritized for obtaining in a reasonably consistent fashion across the world's mountains
- Identification of the most critical socio-economic data gaps in relation to climate and other change impacts in mountains
- Recommendations for improving the situation
- Scientific publication**

Practicalities

- We are looking for an individual or a small group to lead this task (please do consider volunteering)
- Possibility to hold the workshop as a side event at the International Mountain Conference 2022 (Innsbruck), or at some later date
- We have funding available to support the workshop (e.g. room hire, catering, etc.) and some attendance (e.g. from less developed countries, ERCs, etc.)
- Some funding may also be made available to support the support the co-leads (dedicated to specific tasks, e.g. workshop design)

Follow on activities

- ❑ Task 2.4 – *Develop a global spatial dataset related to mountain socio-economics*
 - ❑ Idea to develop a novel spatial data layer, potentially integrating many of the newly defined “essential” or “high priority” societal variables (e.g. in the form of an index)
 - ❑ Will be heavily informed by the outcomes of the workshop
 - ❑ Many of you may also like to get involved in this Task Group; if this applies, please just write to me!

Discussion: questions / comments / ideas?



Many thanks for your interest and contributions!

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