

# GEO Mountains Task Group 1.1a



*Developing, maintaining, and sharing a list  
of relevant gridded datasets and other tools*



Meeting #1, 18 January 2022



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Agency for Development  
and Cooperation SDC

# 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

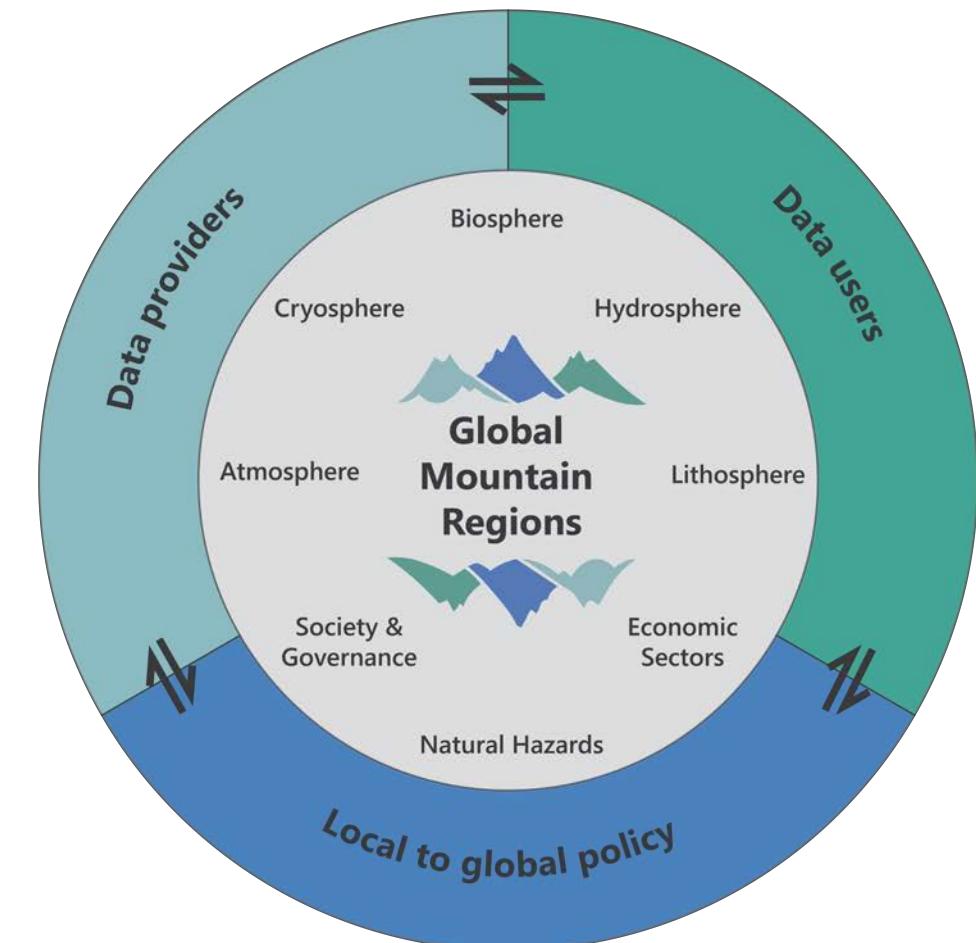
# GEO Mountains: an introduction

## *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

# Main Objective

- To contribute to the development of the GEO Mountains General Inventory by providing links to (and key metadata of) relevant / useful / important free and open datasets

## Scope

- Broad range of disciplines / themes
- All mountain regions globally (broadly/inclusively defined)
- Will also include some datasets with global coverage\*, which users can clip to mountain extents / AOIs
- Emphasis on remotely sensed and modelled (i.e. gridded) datasets; in situ sites and associated datasets should be contributed to the In Situ Inventory
- But will also include simulation codes and other “tools”
- For now at least, we are not conducting extensive assessment / QC of the datasets contributed (e.g. checking that metadata is sufficient); \*responsibly a dataset is suitable for a given application rests with the user
- Also, no direct geospatial capabilities in first version

## Foreseen impact of the General Inventory

- Data provider side: “showcase” your datasets to a potentially wider community, favouring reuse
- User side: Increase i) the discoverability/findability, and ii) the ease of access of mountain datasets
- Complement the GEO Mountains In Situ Inventory (e.g. enable the MRI’s Mountain Observatories Working Group to identify sites rich in both in situ and remotely sensed data to form a global network of mountain observatories)
- Form a basis for “gap analyses”, informing assessment exercises (e.g. IPCC reports) and establishing future priorities (regions / disciplines / data types)
- Form a basis for capacity building activities; use / combine various datasets to respond to policy and practical applications (e.g. Sendai Framework, SDGs, etc.)

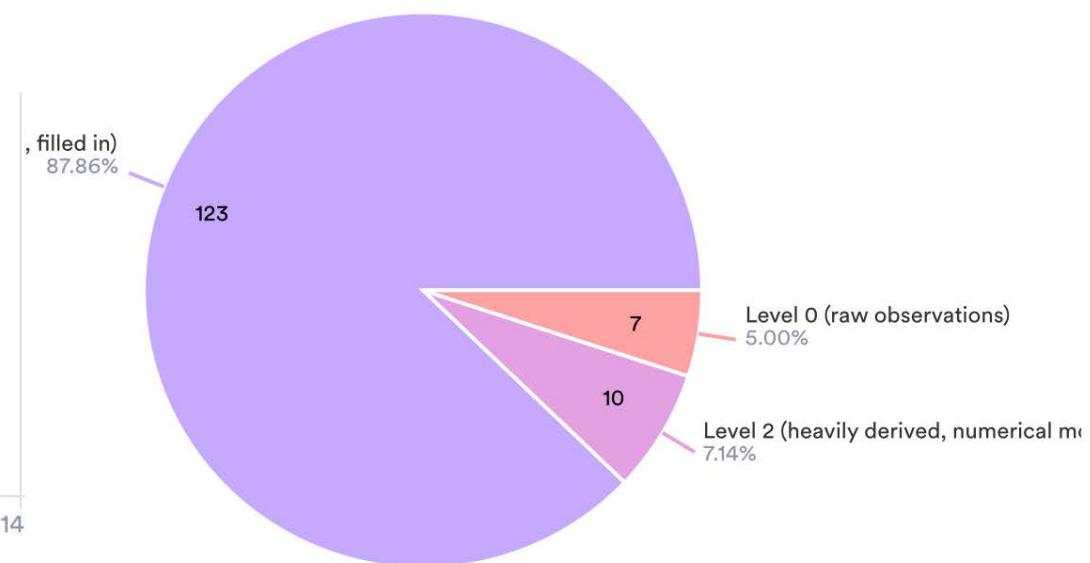
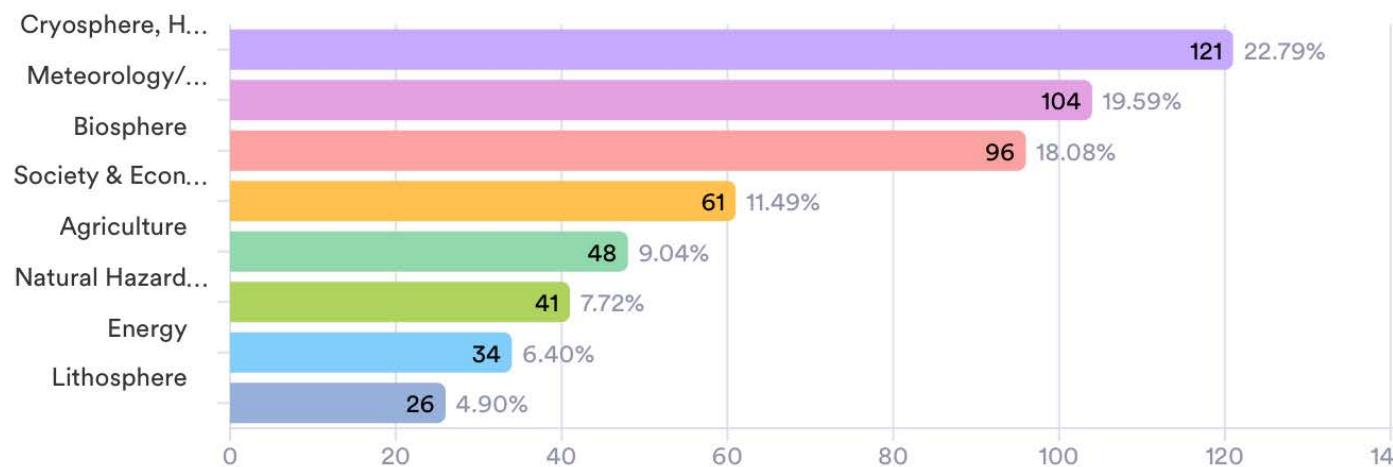
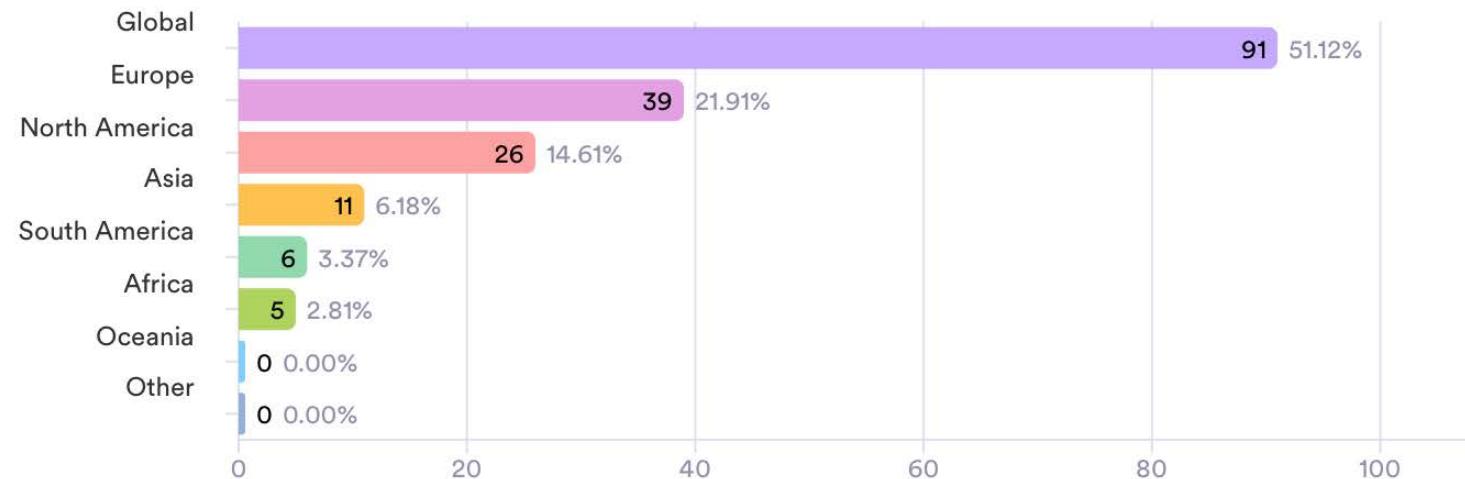
## Timeline

- We are planning to make an initial release (v1.0) ~end February 2022
- As such, any datasets or other resources that you can contribute in the coming weeks will appear in this initial release
- Periodic updates thereafter, depending on the frequency of further submissions (no “live” update process)

# How to make a submission

- Via [this form](#)
- Demo
- For now, we are talking exclusively about adding new datasets / resources (we will ensure no duplicates in first release)
- Then, after the first release has made, contributors will have the option to either add a new entry or provide updated / improved information about an existing entry (making the link in the submission form via a “GEO Mountains ID” field)

# What we have so far



# What could the front end look like?

Perhaps two main possible approaches:

1. Something simple and functional set up by me (quick, cost effective) > Demo
2. Sub-contract the project to a web developer (more “bells and whistles”, higher cost, will probably take longer too)
3. Or maybe one of you has the capabilities and interest to take on something more advanced?



# Comments & Questions

**Many thanks for your interest and contributions!**

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