



Content & objectives

Contents of the Work packages:

- **WP4:** Permafrost monitoring network (facts about the actual thermal status of permafrost and to close information gaps)
- **WP5:** Permafrost and climate change (permafrost inventory and permafrost map for the whole Alps)
- **WP6:** Related natural hazards (state-of-the-art report and recommendations for the consideration of the effects of climate changes to permafrost and resulting hazards in hazard zone mapping and risk management)
- **WP7:** Water resources (informations about the relevance of PF ice to the hydrological water regime, special focus on heavy metal contribution)

Content & objectives

Objectives:

- common strategy for dealing with permafrost and related hazards under changing climatic conditions
- Alpine-wide permafrost monitoring network
- Alpine-wide permafrost map and database

PermaNET

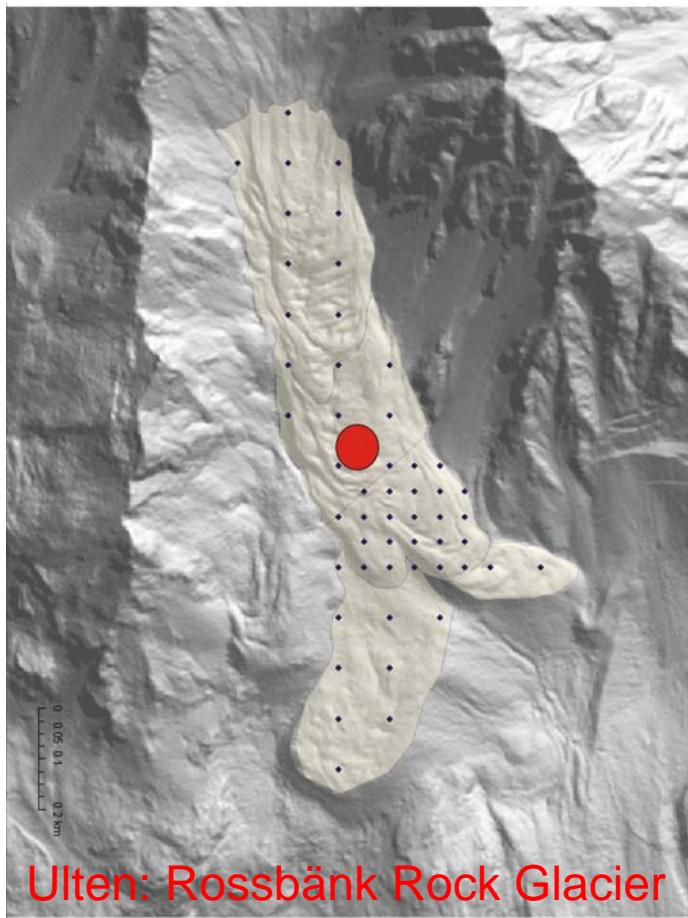
Location of the pilot regions

- The model regions are the regions of the project partners:
Northern Italy – France – Switzerland – Southern Germany – Austria
- By cooperation with the non-participating regions, the project will represent the high mountain areas of the whole Alpine Space

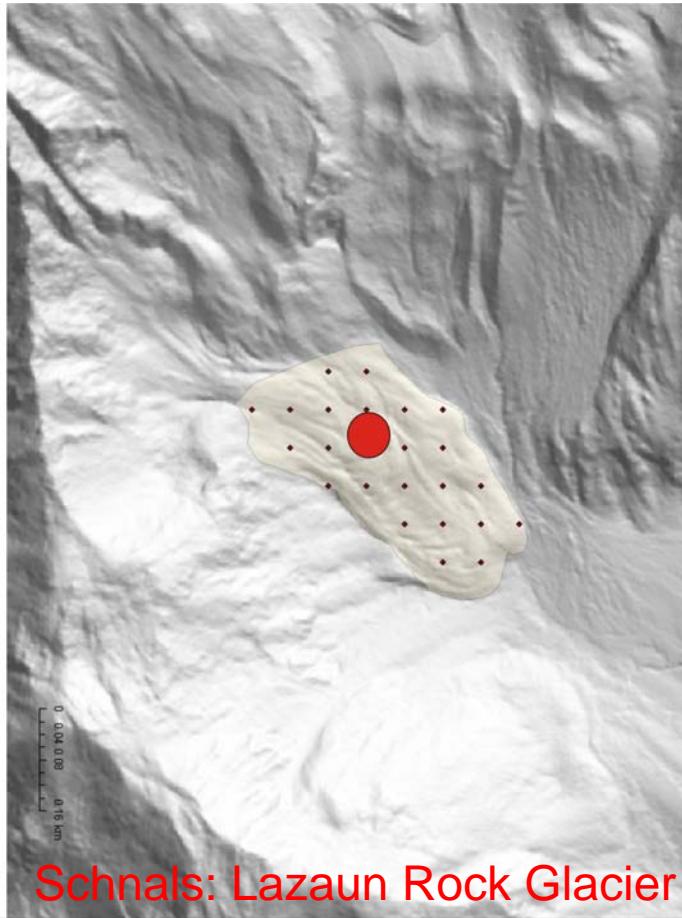
PermaNET

Example: Location of the pilot regions

Northern Italy (South Tyrol): 2 deep boreholes each instrumented as key monitoring site (Ulten and Schnals Valley)



Ulten: Rossbänk Rock Glacier



Schnals: Lazaun Rock Glacier

Results & products foreseen

- Alpine-wide permafrost monitoring network
- Permafrost inventory of the Alps
- Permafrost distribution map of the whole Alps
- Common strategy for dealing with permafrost and related hazards under changing climatic conditions
- Recommendations for the consideration of permafrost in drinking water resources management
- Handbook for mountain permafrost detection and mapping

PermaNET

Upcoming events on Climate change

April 2009

EGU 2009 – Vienna:

Session CR10.1. - Climate change impacts on glaciers, permafrost and related hazards

Assessment of the thermal and dynamic reaction scenarios of different permafrost typologies in the European Alps: A PermaNET initiative

September 2009

Regional Congress of geologists at Bolzano:

main focus on Permafrost and related natural hazards



Thank you for your attention!

permAnET + Home - Windows Internet Explorer

https://www.permenet-alpinespace.eu/page/home/index

File Edit View Favorites Tools Help

permAnET + Home

PERMANET
Alpine
SPACE

Nature is changing and we want to know.

Welcome message

The PermaNET project will produce an alpine-wide permafrost monitoring network including an information system and selected monitoring sites... [more](#)

HOME PROJECT PARTNERS

 this project is co-financed by the european regional development fund

LATEST NEWS

Kick Off Meeting, Bozen/Italy
The PermaNET Kick-off meeting is taking place on 4th of September in Bolzano - Bozen, Italy

[download Invitation](#)

PARTNERS

A common strategy for the future
PermaNET will contribute to push the Alpine Space to be the leading model region in the field of climate change mitigation and adaptation strategies in mountain regions... [our partners](#)

THE PROJECT

The overall objective is to make an important contribution to the mitigation of natural hazards that result from climate change impacts on alpine permafrost. [more](#)

Done

PermaNET Alpine Space Nature is changing and we want to know. imprint contact home

Internet 100%

Alpine SPACE