



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

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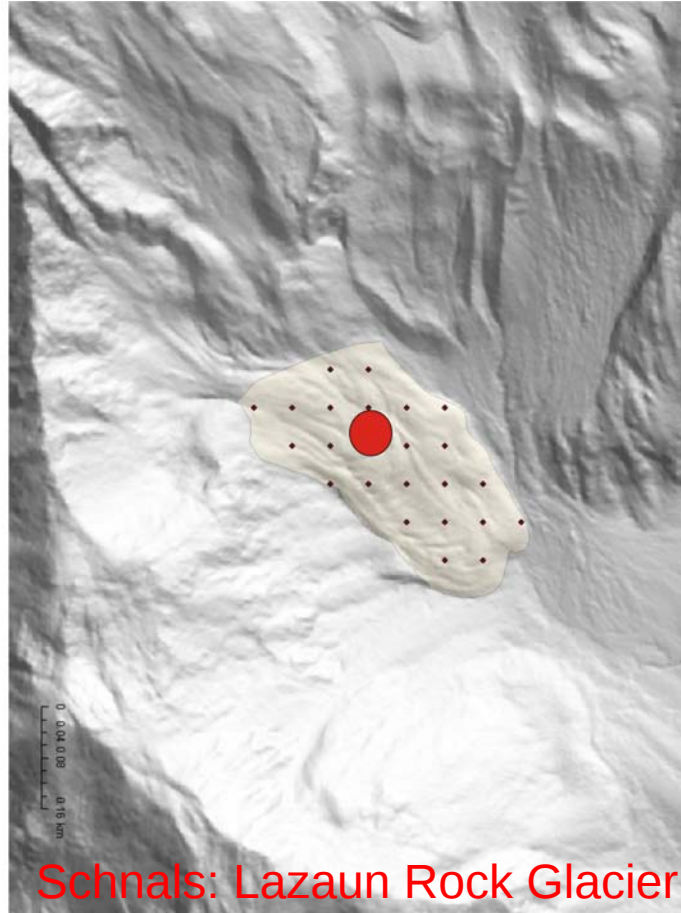
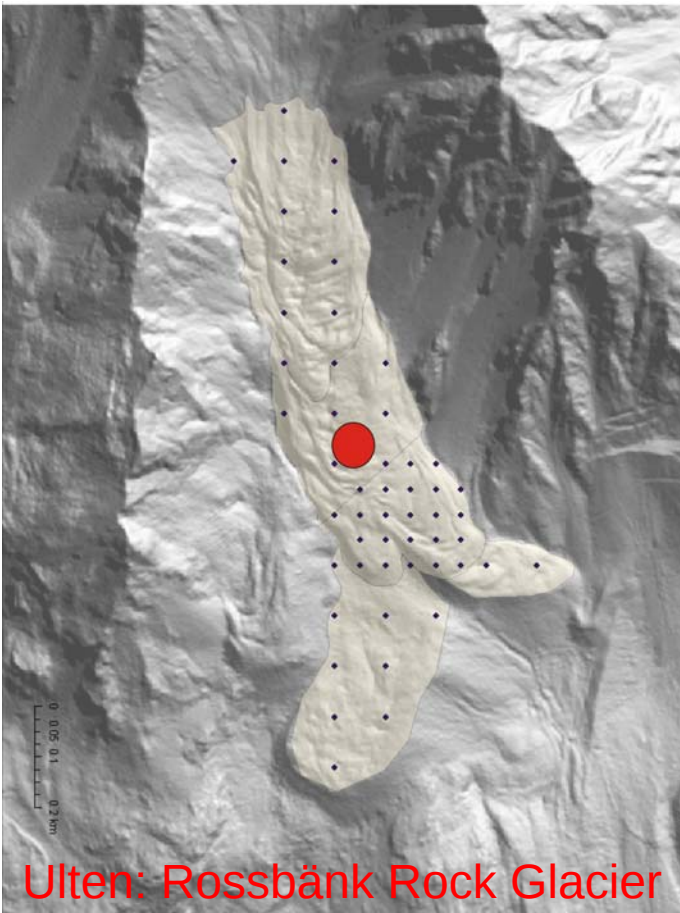
Location of the pilot regions

- 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

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Example: Location of the pilot regions

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



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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

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Upcoming events on Climate change

April 2009

EGU 2009 – Vienna:

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

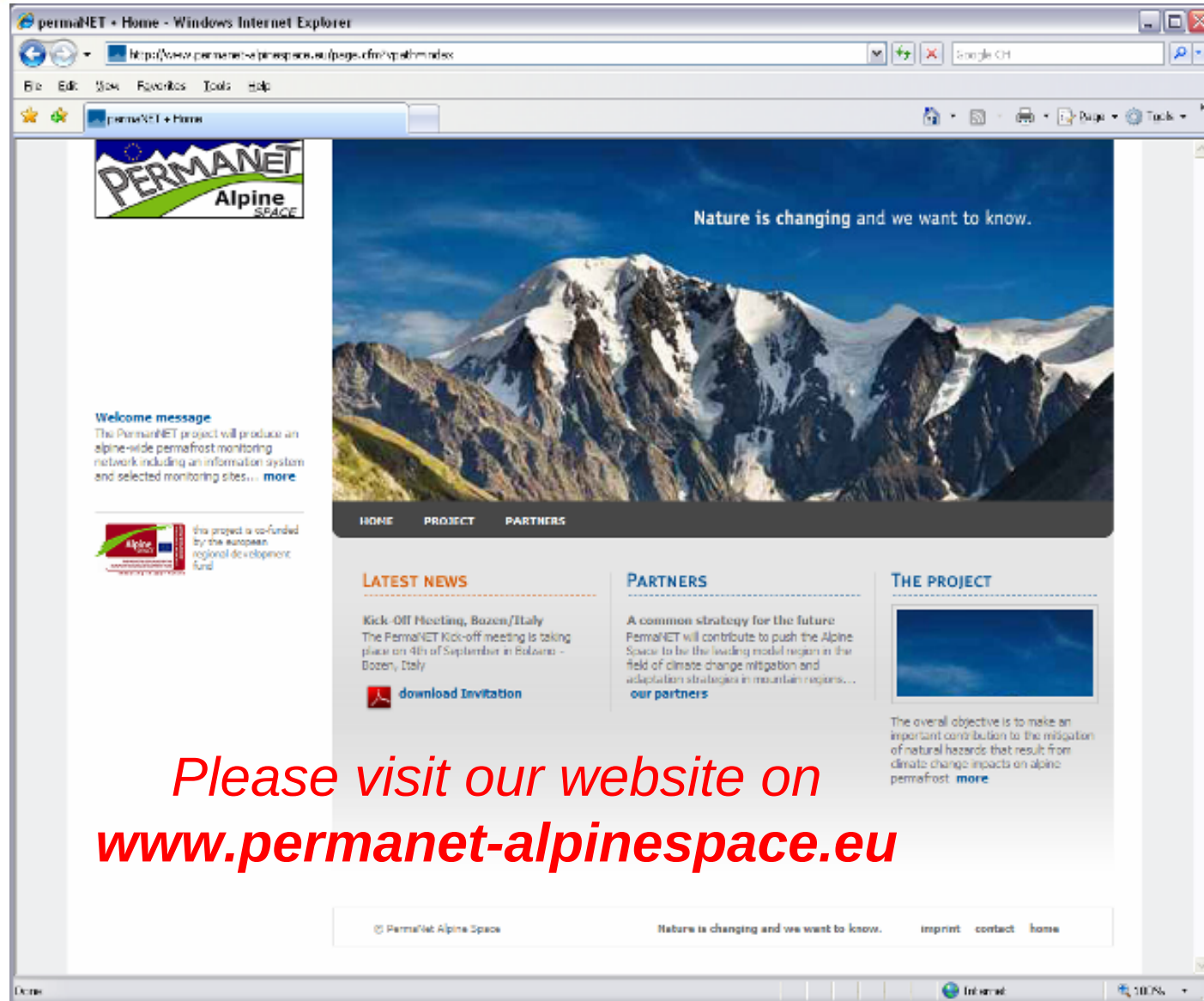
Assessment of the thermal and dynamic reaction scenarios of different permafrost typologies in the European Alps: A PermaNET initiative

September 2009

Regional Congress of geologists at Bolzano:

main focus on Permafrost and related natural hazards

Thank you for your attention!



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