



## **Dynamics and Landscape Formation in Cold Environments: The DYN AFLUX / DYNACOLD Network**

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Within Europe there is a wide array of high-latitude and high-altitude landscapes, covering a significant proportion of the total land area. These cold climate landscapes represent a variety of stages of deglaciation history and landscape formation. We find landscapes at different levels of postglacial stabilization providing the unique possibility to study the interactions between geo-, bio-, social and socio-economic systems at the land surface. The DYN AFLUX / DYNACOLD Network bridges across geo-, bio-, social socio-economic sciences in order to investigate the complex dynamics of stabilization, succession and landscape formation during and after ice retreat and under human impact.

DYN AFLUX / DYNACOLD provides a multidisciplinary forum where skilled research groups come together. The integrative approach provides - in addition to newly generated disciplinary knowledge - the qualitative and quantitative linkages of findings from the geo-, bio- and socio-partner groups to develop a systems-based holistic level-of-understanding about the dynamics of environmental fluxes in high-latitude and high-altitude geocosystems and landscapes. This knowledge will be used to assess the risks and potentials of the future development with reference to land use intensity / changes and climatic dynamics.

DYN AFLUX / DYNACOLD is linking and integrating a number of large-scale networks and programmes and creates an innovative umbrella programme and a forum for sharing knowledge.

The outcomes of the Network are highly relevant for a wide array of end users, including risk and vulnerability assessment, sustainable land use, land management and conservation. Also questions with regard to Global Change are addressed (hazards, permafrost degradation, loss of biodiversity, etc.).