

Climate change and thawing permafrost - Environmental and socioeconomic impacts and adaptation and mitigation strategies H2020-BG-2017



This project is funded by
the European Union

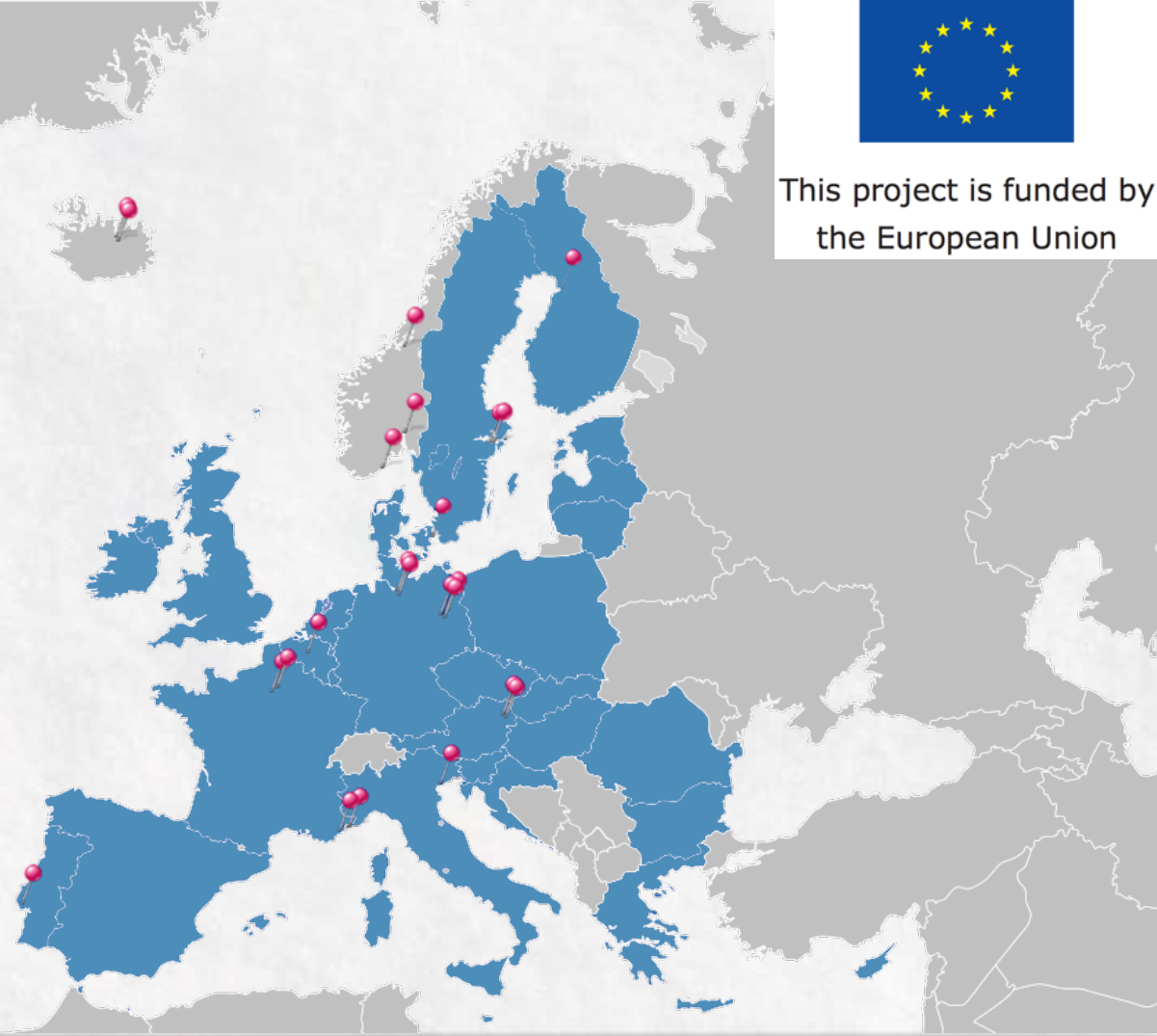


NUNATARYUK

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Physical science activity

Terrestrial, Subsea and
Coastal Permafrost &
Coastal Waters

Social science activity

Health and Pollution
Coastal Infrastructure
Natural resources,
economy and coastal
community planning

Integration activity

Modelling
Adaptation and
Mitigation

Ethics

CBPR

Indigenous advisory board

The main goal of Nunataryuk is to determine the impacts of thawing permafrost on the global climate and on humans in the Arctic and to develop targeted and co-designed adaptation and mitigation strategies.

- Assess the vulnerability of coastal and subsea permafrost systems
- Determine the contribution of greenhouse gases released from organic matter along Arctic coasts
- Determine the impact of permafrost thaw on the health of Arctic coastal communities
- Assess risks to local infrastructure, as well as the state of local societies, economies and cultures



The Nunataryuk focal areas and the Nunataryuk sites (blue dots)

Nunataryuk “land-to-sea” in Inuvialuktun, the traditional language spoken by the Inuvialuit in the western Canadian Arctic.

WP 5 - Health and Pollution

D5.1 Map on the state of human health in the Arctic coastal communities

- Abass K, et al. Temporal trends of contaminants in Arctic human populations. *Environmental Science Pollution Research* (2018) 25:28834-28850.
- Waits A, et al. Human infectious diseases and the changing climate in the Arctic. *Environment International* 121 (2018) 703-713.
- Waits A et al., Review and meta-analysis of infectious diseases in wild-life animals and fish, in process.

D5.2 Risk assessment of pollutants found in permafrost

D5.3 Modelling of anthrax

D5.4 Mental health aspects, good quality of life

D5.5 Risks of permafrost thaw for human health

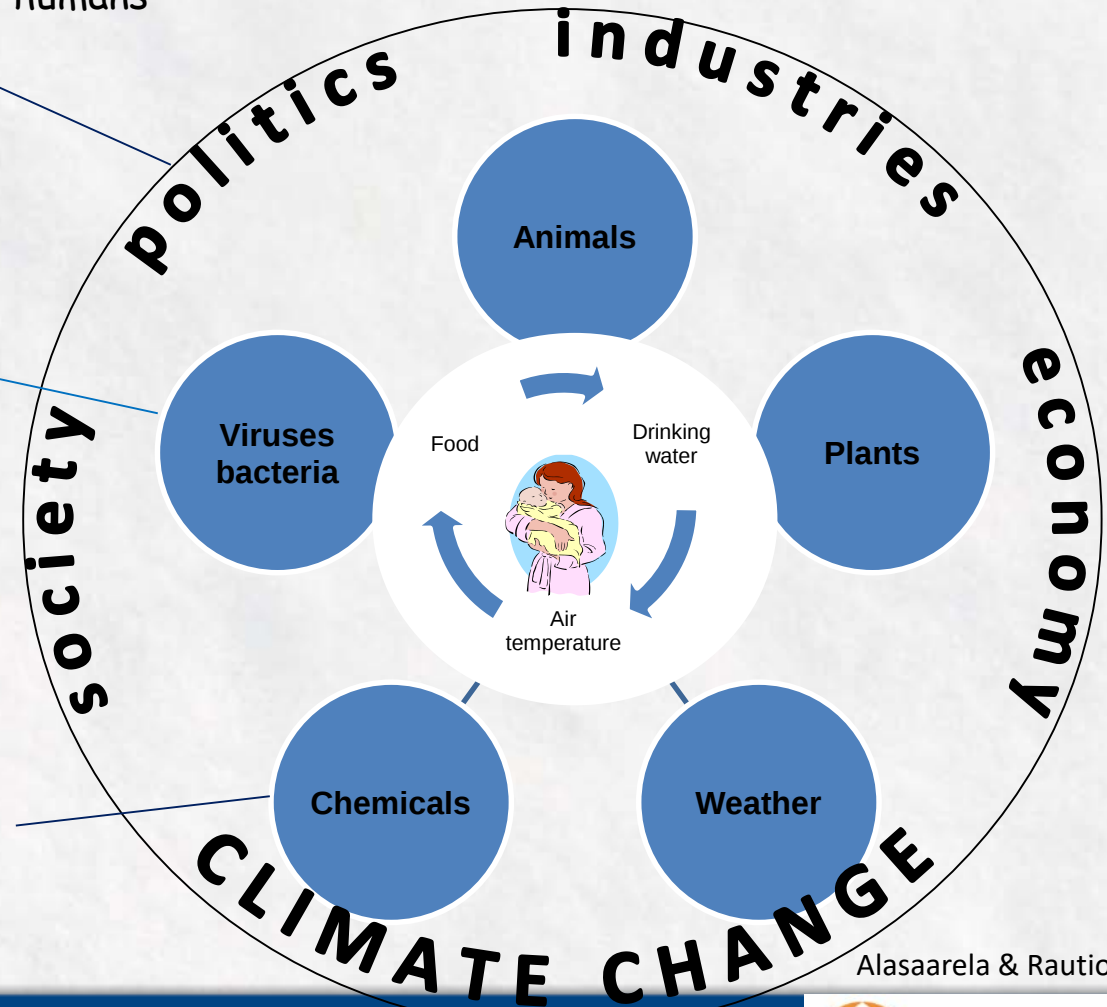
Task 5.1 One health; environment, wild-life and humans

Task 5.4 Mental wellness
- quality of life

Task 5.3
Anthrax modelling

Task 5.2 Pollutants in
permafrost

Task 5.5 Risk for human health



Alasaarela & Rautio, 2008