Step 1: Permafrost distribution model

Multiple Linear Regression

Exclusion of areas from further steps, where $P(\text{PF}) = \text{unlikely}$

Step 2:
- Refraction Seismic Tomography
- Electrical Resistivity Tomography
  - if both are available
  - if only ERT is available

Four Phase Model (4PM)

Ice Content Estimation of each profile

Step 3:
- Surface Type Mapping
- Slope and Aspect Maps

Study site classification: Definition of upscaling classes

Selecting representative profile for each upscaling class

Step 4:
Establishment of a conceptual soil stratigraphy model for each upscaling class:
- number of layers
- thickness of layers
- ice content (min, mean, max)

Step 5:
Ground ice content calculation of the entire study site areas:
Conversion to water equivalent (w.e)