

WISLINE Activities and progress plan													
Deliverable/Task	2015	2016	2017	2018									
WP1	Improved predictions of atmospheric icing by upgrading the cloud microphysics scheme in MET Norway's operational AROME weather prediction system												
WP1.1	AROME with modified microphysics scheme implemented												
WP1.2	AROME with Thompson scheme implemented												
WP1.3	An improved AROME cloud microphysics scheme, validated against the Thompson scheme and observations												
WP1.4	Paper 1: A comparison of the performance of (i) the current AROME microphysics scheme; (ii) the revised AROME microphysics scheme; (iii) the Thompson scheme; – all running in AROME - against validating observations of icing events												
WP2	Establish high-resolution dataset for past, present and future weather and climate												
WP2.1	First results from high-resolution hindcast at 2.5km forced by global reanalysis data												
WP2.2	Validation of results from alternative 2.5km forcing using new microphysics scheme												
WP2.3	First results from high-resolution surface modelling at 1km forced by data from hindcast 2.5km												
WP2.4	First results from scenario calculation at 2.5km and 1km grids												
WP2.5	Validation of procedure across time scales from historical climate to future scenario												
WP2.6	Establish data archive and interface with impact modelling in WP3 and WP4												
WP3.1	Atmospheric icing												
WP3.1.1	Implement current post processing routines for ice load calculations using AROME data.												
WP3.1.2	Validation with available observations (e.g. Ålvikfjellet in Hardanger) and historically used design values.												
WP3.1.3	Apply the improved AROME and run it for the years 2060-2070 based on output from CMIP5 21 st century runs with NorESM, to obtain a future icing climatology for Norway, and compare with present climate data from WP2												
WP3.1.4	Develop recommendations on the use of AROME data in combination with other downscaling model tools for design ice load calculations.												
WP3.2	Extreme wind in complex terrain												
WP3.2.1	Carry out calculations of extreme wind from the hindcast runs and compare the result with data from selected observational sites												
WP3.2.2	Study different techniques for downscaling of extreme winds from the NWP calculations and their applicability in complex terrain												
WP3.2.3	Develop recommendations and methods to combine different downscaling methods suitable for different terrain												
WP3.2.4	Apply the recommendations to past and future climate simulations.												
WP4	Forest damage from wind and snow												
WP4.1	Data preparation forest												
WP4.2	Model forest damage and wind												
WP4.3	Maps												
WP4.4	Test case extreme event												
WP4.5	Publication: Modelling snow and wind damage risks on forests												
WP5.	Data Services.												
WP5.1	Open data access through a MET operational data portal												