

Smart Altitude Project

Project objective and aims

Smart Altitude aims at enabling and accelerating the implementation of low-carbon policies in winter tourism regions. Technical solutions for the reduction of energy consumption and GHG emissions in mountain settlements relying on winter tourism today exist, with up to 40% reduction potential. However, key trade-offs are at the heart of their slow uptake: they require stronger and innovative involvement to overpass strategic (goals, priorities, risks), economic (costs, financing) and organizational (partnership, stakeholder involvement) challenges.



Smart Altitude will demonstrate the efficiency of a decision support tool integrating all challenges into a step-by-step approach to energy transition. The approach is implemented in three case study sites and prepares for replication in 20 other tourist settlements in the Alpine Space. The project targets policymakers, infrastructure operators, investors, tourism associations and entrepreneurs organisations. Its outputs are a spatial diagnosis method, an online Smart Altitude Toolkit, Living Labs, a planning model for adaptation strategy implementation, a “replication roadmap” and a network of low-carbon winter tourism regions. The partnership and activities ensure the suitability of the approach across the Alpine Space, promote innovations and skills, and enable policymakers to plan and prioritize measures increasing the resilience of mountain areas.

Project partners

Eleven project partners from six Alpine countries, led by the municipality of Les Orres, participate in the Smart Altitude project.

- [Municipality of Les Orres](#) (FR) (Lead Partner)
- [Association Européenne des Élus de Montagne](#) (FR)
- [Business Support Centre Kranj](#) (SI)
- [Centre de Recherches Energétiques et Municipales](#) (CH)
- [EDF Electricité de France](#) (FR)
- [Fondazione Bruno Kessler](#) (IT)
- [Institute for Interdisciplinary Mountain Research, Austrian Academy of Sciences](#) (AT)
- [Rekreacijsko turistični center Krvavec](#) (SI)
- [Steinbeis 2i](#) (DE)

- [Trentino Sviluppo](#) (IT)
- [UNIMONT, University of Milan](#) (IT)

Smart Altitude Living Labs

- [Les Orres, France](#)
- [Madonna di Campiglio \(Pinzolo\), Italy](#)
- [Krvavec \(Cerklje na Gorenjskem\), Slovenia](#)
- [Verbier, Switzerland](#)

Project results

Work package Measuring & Visualizing Performance

- [Project screening results](#)
- [Description ski resort KPIs as output of the Winter Energy Management Tool\(Wi-EMT\)](#)

Work package Smart Altitude Living Labs

- [Report on "Integrated Energy Management" \(Living Lab Madonna di Campiglio\)](#)
- [Report on "Developing and validating adaptation measures: Smart mountain grid" \(Living Lab Les Orres\)](#)
- [Report on "Energy efficiency in Verbier" \(Living Lab Verbier\)](#)

Work package Smart Altitude Toolkit

- [Smart Altitude Decision-Making Tree](#)
- [Smart Altitude Toolkit online interface](#)
- [Real-time dynamic display of energy and greenhouse gas emission reduction in public information platforms](#)
- [Territorial Maximization report](#)
- [Territorial Stakeholder Engagement](#)

Work package Replication and Knowledge Transfer

- [Replication Roadmap](#)

Additional resources

- [requirements_SmartAltitude_WebGIS_Analysis of requirements for Smart Altitude web-based data publication and visualisation](#)
- [pictures](#)

Smart Altitude Report

- *Smart Altitude: A low-carbon, high-impact and resilient future for Alpine winter tourism territories.* Click here to access the [Smart Altitude Report](#)

* *"This project is co-financed by the European Regional Development Fund through the [Interreg Alpine Space programme](#)".*

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Last update: **2021/09/22 09:49**

