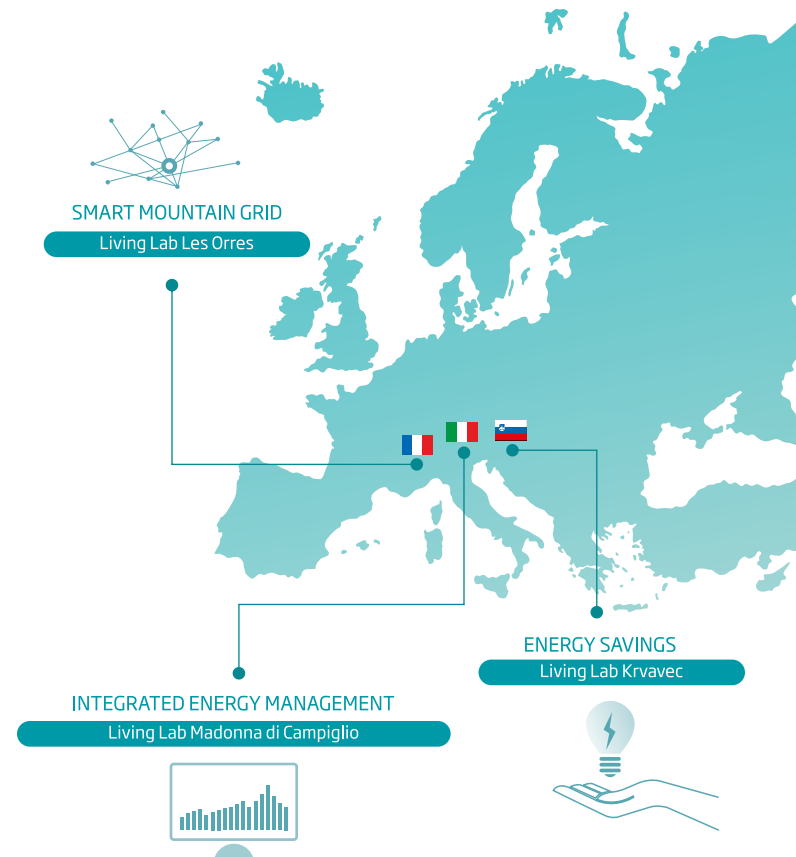


LIVING LABS

A network of 3 ski resorts experimenting innovative solutions for a low-carbon, high-impact and resilient future



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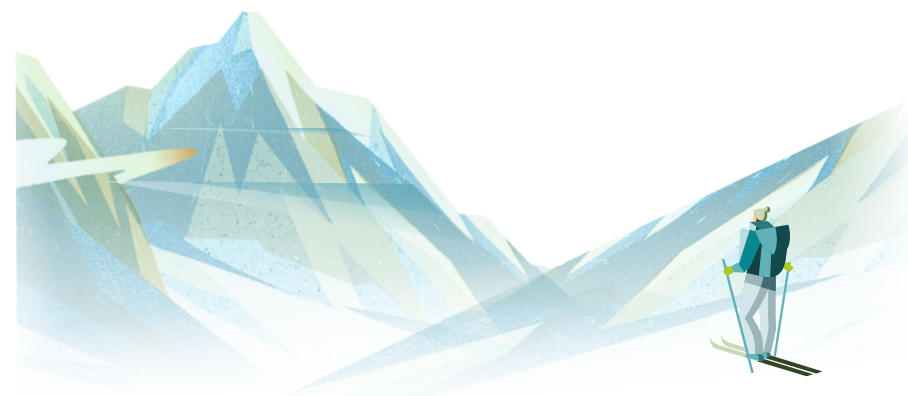


This project is co-financed by the European Regional Development Fund through the Interreg Alpine Space program



SMART ALTITUDE

OUR MISSION ZERO EMISSION



LIVING LAB MADONNA DI CAMPIGLIO
Integrated Energy Management



The Smart Altitude project aims at developing and implementing new solutions and policies to improve the use of energy in Alpine ski resorts

Smart Altitude results are:



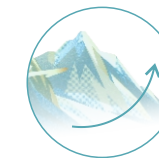
WebGIS:
for visualizing renewable energy potential and energy performance



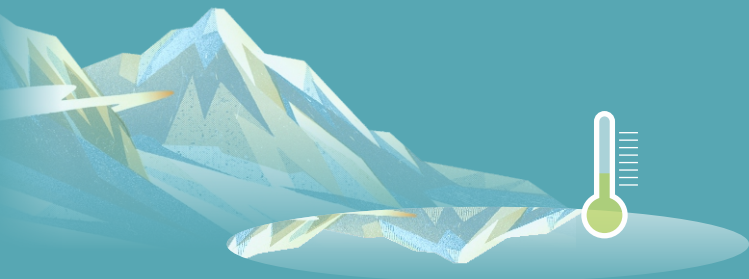
Living labs:
for testing clean energy innovation in mountain tourism territories



Toolkit:
for planning, optimizing and implementing new strategies



Replication:
for transferring knowledge and solutions over the Alpine Space



MONITORING LAGO MONTAGNOLI

- WHAT IS IT?
- A set of **hi-tech sensors** installed in the artificial lake that feeds the snow production system.

- WHAT DOES IT DO?
- **Data gathering** on water temperature at different depths, water surface and weather conditions.

- WHY?
- **Optimize** the artificial snow production process through **energy** and **water savings** and **heat recovery**.



TESTING AN INTEGRATED ENERGY MANAGEMENT SYSTEM



MONITORS



WARNS



FORESEES



www.ski.it/en/zeroemission2026

Electric grid Energy consumption from the medium voltage grid	Snow production Water, compressed air and energy consumption	Lake monitoring Water temperatures and water surface	Snow grooming Operational data, diesel consumption and snow-depth	Meteo Meteorological conditions and weather forecasts	Ski lifts Energy usage, n° of entrances, photovoltaic integration	Skiers data Analysis of skier days
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INTEGRATED ENERGY MANAGEMENT SYSTEM FOR THE SKI RESORT MADONNA DI CAMPIGLIO

- WHAT IS IT?
- **A digital platform** for the mountain environment and ski infrastructures.

- WHAT DOES IT DO?
- **It monitors** plants' operations and the consumption of energy and water.
Generate report, send notifications, make forecasts.

- WHY?
- **To have an integrated decision support system** for eco-sustainable choices.