Submitted Abstract

ID IMC22-FSAbstr- 532

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Country	Spain
Region	Western Europe
Title	New Network Of Smart Sensors In The Sierra Nevada Natural Park: A Proposal For A More Sustainable And Resilient Tourism.
Keywords	Smart Destinations, Smart Tourism, Resilient Tourism, Digitalisation,
Type	List Of Focus Session
Focus Session ID	60

Abstract

The health emergency that the world is facing as a result of COVID-19 is having a great impact on people's health and way of life, which is why the European Union's industrial strategy highlights the need to accelerate even more ecological and digital transitions, increasing the resilience of industrial ecosystems.

Tourism has been one of the sectors most affected by this crisis, with accommodation, air travel, other international travel, fairs, and cultural events being the hardest hit in this ecosystem. This hard blow for the activity is, in turn, a new great opportunity to learn from experience and rebuild better, in terms of resilience and sustainability, benefiting from digital opportunities and innovation.

In this new scenario, technology is presented as a strategic ally to take into account when developing and managing new recovery plans for the sector, as well as to support and sustain radical changes in the way companies operate and operate intervening parties. Technological solutions must, now more than ever, help contribute and generate confidence in tourists and visitors, offering them pleasant and safe experiences; thereby improving the operational efficiencies of tourism companies.

This work is part of Smart EcoMountains, the Mountain Thematic Center of LifeWatch-ERIC. It also takes as a reference the digitalization to contribute to greater sustainability of the tourist activity in the Natural Park of Sierra Nevada through a sensor network. Additionally, this project seeks to provide the municipalities of Pampaneira, Bubión, and Capileira with a system to improve the management of certain elements such as traffic control, security, flow control, surveillance, visitor counting, as well as to provide air quality data at different points of interest.