

Beacon Südtirol - Alto Adige

The project

The Beacon Südtirol - Alto Adige project is financed by the **ERDF** (European regional Development Fund) funding program, and managed by the **Autonomous province of Bolzano** in cooperation with **NOI Techpark**. Through the installation of a beacon network and an IoT test network, the project aims to create a favourable environment for the development of new and innovative ideas, projects and products.

The purpose of the project, aligned with the “Europe Strategy 2020” EU directive, the “Italian Digital Agenda” and the local “Digital Alto Adige 2020”, is to establish South Tyrol as a reference point in the development and integration of innovative services, and to create the prerequisites for the aggregation of a community within South Tyrol which will promote the development of ICT (*Information and communications technology*).

In order to achieve these goals, Beacon Südtirol - Alto Adige will implement an open, standardised, **provincial network of beacons** which will enable the detection of a series of **points of interest** throughout the Province of Bolzano. **A trial LoRaWan (Long Range Wide Area Network) network**, a connection network dedicated to the IoT (Internet of Things) will also be launched, with open, standardised protocols, to make the sensor data gathered from the various devices reachable in the geographical area. Where possible, the data gathered by LoRaWan will be accessible via open interfaces, in order to promote cooperation. Companies can use this open infrastructure to develop innovative services to launch in the market.

The Beacon Südtirol - Alto Adige foresees the involvement of the main organisations in the geographical area, starting with the municipalities and local authorities, in order to identify the points of interest for installation of the Beacon network and the areas where the LoRaWan network can be trialled. Potential fields of use (e.g. management of green areas, traffic management, road maintenance, civil protection etc.) will be analysed in the initial phase of the project. All local authorities involved in the development of the project from the beginning will be able to reap the benefits of the results, enhancing the quality of services on offer to citizens. Furthermore, apps developed for citizens can also provide a form of market test to companies who are working on new products.

The Beacon Südtirol - Alto Adige project will be developed in line with the **Open Source** philosophy and will, wherever possible, use open, standardised interfaces in order to encourage collaboration and reutilisation of the results on the part of local companies. The involvement of local, national and international experts and companies will help to boost skills at a local level, and promote the development

of a highly-qualified environment in the IoT field, thus enhancing the competitiveness of companies in South Tyrol.