PROJECT

IMPLAGUIDE

Smart & Autonomous Guidance System for Citizen Security in Public Transport and large facilities

**Funding:** European (Horizon 2020)  
**Duration:** May 2018 - Aug 2018  
**Status:** Complete  
**Total project cost:** €71,429  
**EU contribution:** €50,000

CORDIS RCN: 217835

**Background & policy context:**

ImplaGuide aims to revolutionize human interaction with signage in metro and public transport stations through a fully autonomous technology, based on Bluetooth low energy (BLE) beacon devices, offering smart localization and guidance services.

At the moment, passenger information display systems in public transport stations include visual and voice media which provide static and real time information. However, guidance in emergency cases and services dedicated to disabled people still lack efficiency, as the existing solutions are not able to offer personalized guidance (in case of an evacuation emergency people is directed to the closest exit and not the safest one). Moreover, they are electricity dependent and mobile coverage is needed (in cases of relevant mobile apps providing live information) which can be an issue in various underground stations in the world.

**Objectives:**

ImplaGuide is a smart, autonomous, safety signage system, which creates an accessible environment and provides enhanced guidance for secure evacuation to all public transport users in case of an emergency. It also constitutes an advanced monitoring tool to facilitate the working environment for all metro and public station professionals. Our system uses BLE beacon technology, where each beacon chip is embedded into a specialized emergency exit sign, transmitting data to the station’s control centre and to each user through an easy-to-use mobile app based on pictogram technology to eliminate the language barrier. Our technology is bi-directional – user can both receive/send information – and dynamic. On top of that, it is the most cost-effective option (45%) compared to existing signage solutions.

Implaser is an expert SME in security signage, with a strong team of 51 specialists and its own facilities in Zaragoza. Through this project, we aim to create €15.59M revenues in the fifth year of commercialization. With a Phase 2 investment of €1.65M, we aim to generate a ROI of 3.61 and create 20 new jobs.

**Parent Programmes:**  
H2020-EU.2.3. - Horizon 2020: INDUSTRIAL LEADERSHIP - Innovation In SMEs  
H2020-EU.2.1. - Horizon 2020: INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies

**Institute type:** Public institution  
**Funding type:** Public (EU)  
**Other programmes:** EIC-SMEInst-2018-2020 SME instrument

**Lead Organisation:**

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EU Contribution: €50,000

Technologies:
Safety systems
Vulnerable road users' protection systems
Development phase: Research/Invention

STRIA Roadmaps: Smart mobility and services
Transport mode: Multimodal transport
Transport sectors: Passenger transport
Transport policies: Safety/Security
Geo-spatial type: Urban