

PROJECT

SMASH

SMASH, SMARt SHaring device for mobility

Funding: European (Horizon 2020)

Duration: May 2015 - Oct 2015

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



Call for proposal: H2020-SMEINST-1-2014

[CORDIS RCN : 196455](#)

Objectives:

SMASH is a Smart Sharing Device aiming to improve the access and the fruition of innovative urban mobility, through the combined use of satellite tracking technology and wireless transmission, embedded in a single miniaturized device.

The proposed device, developed by greenspider and available in prototype, integrates in a single ultra-low-power electronic circuit a GNSS receiver, Near Field Communication (NFC), Bluetooth Low Energy (BLE), and GPRS module for connection to the cloud. The supported NFC is compatible with the standard nowadays adopted by major Smartphones manufactures and mobile operators, and it's considered a disruptive technology to enable secure authentication, mobile access and payment via Smartphone. With this characteristic SMASH permits a direct NFC interaction with end-user smartphone, and correlate positioning data retrieved from different positioning device.

SMASH enables access to innovative mobility schemes, thanks to its embedded GNSS and proximity interaction between the user's Applet and the device. The device can be integrated into vehicles and infrastructures, like parking or charging stations, or in general in any resource in a sharing scheme, allowing easy NFC controls and data sharing. Thanks to the NFC connection, the data related to the user's access request and to the available resources, with the relative positions, are exchanged in a safe and reliable way, and shared in the cloud, enabling innovative mobility service and advanced fleet management. The units of fleet management in Europe has risen from 1.5 million units in 2009 to 4 million in 2014, and are expected to grow further in the next years. The penetration of NFC across all handsets is planned to reach approximately 32% by 2017, with more than 1 Billion smartphones with NFC support. In this market scenario the sales forecast for SMASH device reaches several millions of units in a few years, with a target of 5 Million euro in 5 years.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Greenspider Gmbh

Address:

OTTO-WAGNER-STRASSE 2
82110 GERMERING
Germany

EU Contribution: €50,000

Technologies:

Information systems
Sustainable urban mobility planning

Development phase: Research/Invention

STRIA Roadmaps: Smart mobility and services

Transport mode: Multimodal transport

Transport sectors: Passenger transport

Transport policies: Digitalisation

Geo-spatial type: Urban