



Shield your business with a Secure GNSS solution

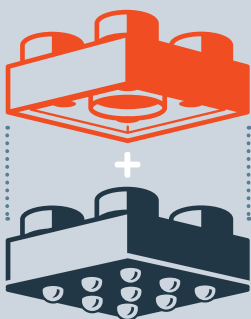
Cybersecurity is a growing concern for the entire automotive industry across the whole value chain. With the advent of connected vehicles, geolocation technologies are increasingly concerned with this challenge: **vehicle location jamming and spoofing** are widespread rising threats, potentially leading to a complete loss of positioning or fake positioning, and therefore severe impacts on delivered services.



Our Ambition

To develop a new generation of GNSS receiver, designed to improve **Resilience** and **Trust** in position, navigation and timing.

Main Result



Embeds STMicroelectronics ST33
GIM2 & TESEO III

Inputs: Odometer, CAN bus,
antenna, I2C

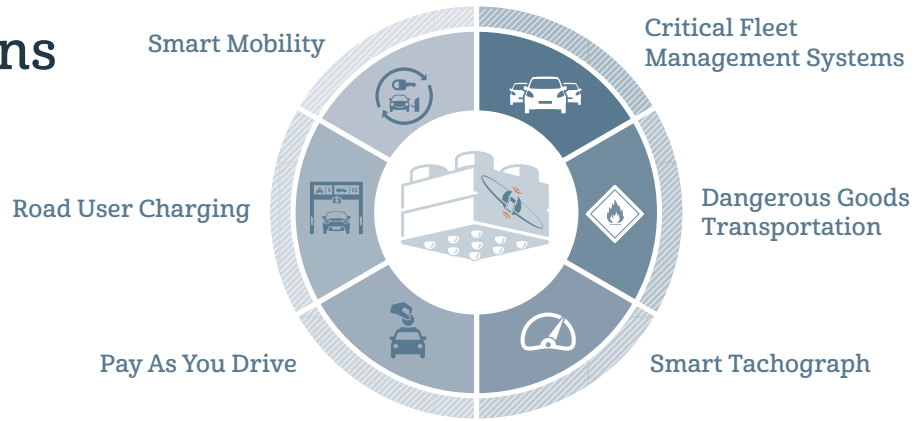
Outputs: Serial, USB, ISO7816

Highly Secure GNSS Receiver for ITS

Two-in-One device: GNSS + Secure MCU

- ▷ State-of-the art multi-constellation GNSS and crypto processors
- ▷ GNSS, security and motion sensors embedded in a single casing
- ▷ GNSS spoofing, replay and jamming attacks detection and identification
- ▷ Resilient during GNSS attacks with powerful dead reckoning navigation
- ▷ Designed to support Galileo OS authentication capability
- ▷ Authenticity and integrity of receiver information warranted
- ▷ Tamper resistant, easy to integrate and operate

Applications



Key Activities

- ▷ GNSS module specification, design and development - HW and SW
- ▷ Module tests and validation campaigns
- ▷ Certification preparation: RED, EMC and UNECE AECS (eCall) type-approval pre-testing
- ▷ Module integration into a geo-location OBU and installation in vehicles for in-field pilots



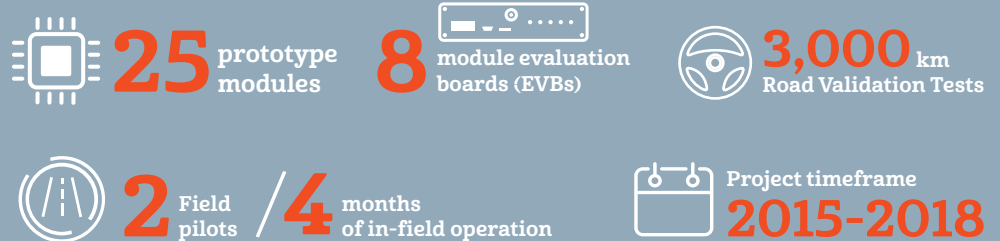
▷ Pilot 1: Dangerous goods transportation in France



▷ Pilot 2: Humanitarian missions in Afghanistan

- ▷ Pilots running from May 2018 (data collection and analysis)
- ▷ Prototype module promotion and demonstration

Facts & Figures



Samples and Evaluation Kit Available

 Commercialisation in 2019

FOSTERITS

Created, designed and developed:



and  **ST**
life.augmented

Integrated and full-scale testing:


NOVACOM
SERVICES

Certification process enabled:


NavCert

Test and Validation in cooperation with the EC JRC GNSS LAB



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HORIZON 2020