



First Secured, Trusted and Resilient GNSS Receiver for ITS applications

2013
GPS spoofing device used by the University of Texas to mislead a \$80 million yacht



2015
Security researchers took **complete access and remote control of a car** and spoofed GNSS data

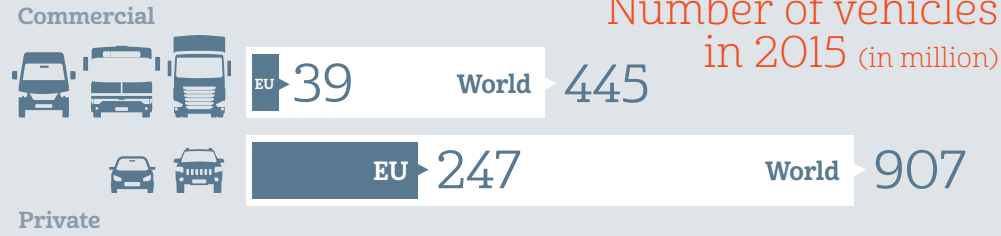
2015
Open source GPS constellation simulator available



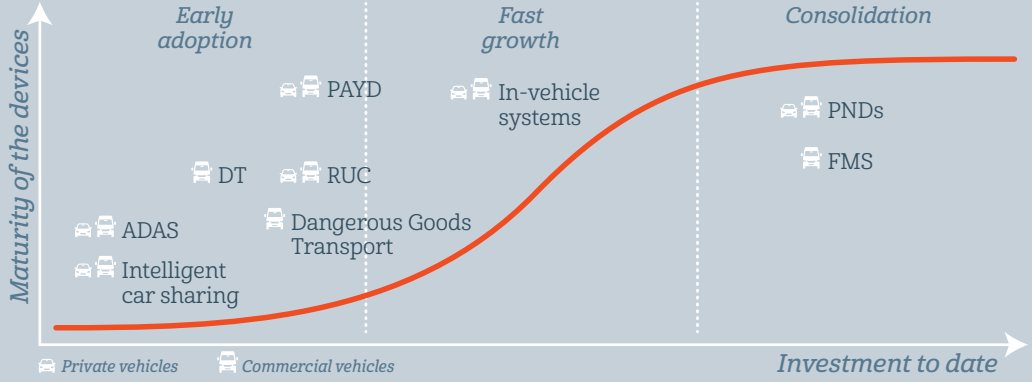
2015
Availability of Low cost RF open hardware able to run a GNSS simulator in real-time



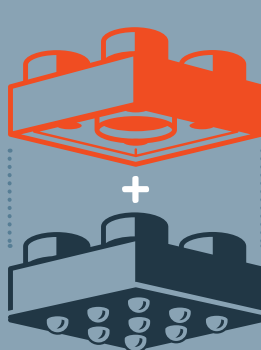
IT and GNSS Security A critical concern for ITS



Current level of maturity of GNSS devices



Applications

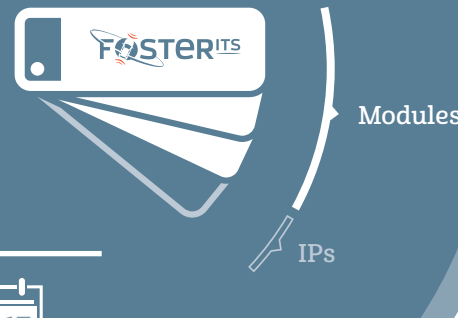


Two-in-One device: GNSS + Secure MCU

- ▷ GNSS replay, spoofing and meaconing attack mitigation
- ▷ GNSS interference and jamming detection
- ▷ Attack identification
- ▷ Galileo OS authentication capability
- ▷ Dead Reckoning
- ▷ Ciphpered or/and signed data delivery
- ▷ Additional IT security services
- ▷ Tamper resistant
- ▷ Automotive grade and common criteria compliance

Embeds STMicroelectronics ST33 GIM2 & TESEO III
Inputs: Odometer/CAN bus/antenna
Outputs: Serial, ISO7816, CAN bus

Products Range



Availability

2016: First Samples
2017: First product

Contact

INFO@FOSTERITS.EU



Created, designed and developed by **FDC** and **ST** (IIS, augmented)
Certification process enabled by **NavCert**
Integrated and full-scale tested by **NOVA.COM SERVICES**

Test and Validation in cooperation with the **EC JRC GNSS LAB**

INFO@FOSTERITS.EU



This project has received funding from the European GNSS Agency under the European Union's Horizon 2020 research and innovation programme under grant agreement No 641492.