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GoT

Galileo of Things

Key facts

Full name Galileo of Things

Project call number GSA/GRANT/08/2017

Project call

Development of GNSS receiver technologies for Premium and General mass market **Funding** 1 272 498, 00 EUR

EU contribution 890, 748,60 EUR

Topic Mass Market

Market segment Location Based Services

Project start/end 01/11/2019 - 30/04/2022

Context and motivation

The Internet of Things (IoT) is one of the world's largest application markets for Global Navigation Satellite Systems (GNSS). Real-time geolocation and timing information are crucial for IoT applications to connect physical objects to the network and improve the lifecycle in a sustainable, efficient way.

In this context, the **Galileo of Things (GoT) project proposes an innovative approach to enforce Galileo for IoT trackers by developing a low-power and cost-efficient semiconductor-IP core** that mates with Narrow Band – Internet of Things (NB-IoT) Internet Protocol (IP) for low-power consumption solutions. As a result, the GoT project delivers a breakthrough solution, **making Galileo's benefits affordable for the mass-market.**



Targeted GNSS innovation GNSS LPWA

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Targeted Product GNSS and NB-IoT tracking device

Scope

The GoT project aims to support general mass-market reach for Galileo-enabled trackers by delivering a ΙοΤ breakthrough combination of GNSS and Low-Power Wide-Area network (LPWA) connectivity. As an output of the project, the final developed product is a single-chip Galileo+NB-IoT tracking device. The target usages cover location trackers for consumer applications, such as people safety, goods protection, connected sport devices and/or pet tracking; furthermore, they also include professional markets, such as smart cities and smart farming.

Challenge & technical solution

In the IoT domain, size and affordable costs often pose key challenges.

The solution developed with the GoT project was especially thought and tailored for those IoT applications where power consumption and cost are the main design drivers.

The GoT developed solution enables next-generation System-On-Chip, including Galileo capability with the NB-IoT connectivity, empowering a plethora of applications in the massmarket.



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