

PROJECT

GATEMAN

GNSS NAVIGATION THREATS MANAGEMENT

Funding: European (Horizon 2020)

Duration: Jan 2018 - Dec 2019

Status: Complete

Total project cost: €565,744

EU contribution: €565,744



Call for proposal: H2020-SESAR-2016-2

[CORDIS RCN : 213192](#)

Background & policy context:

GNSS will become the primary means of navigation in the mid and long-term. However, GNSS signals are vulnerable to threats, especially to jamming and spoofing, which may cause the total loss of navigation, and hence the management of those threats is a safety must.

Objectives:

This project will research multiple measures that could be deployed on most aircraft to enable the management of those threats, either on their own or in a collaborative fashion with other aircraft.

The measures to be researched will cover the threat's detection, localisation and mitigation - the latter either to keep the GNSS-based navigation operative or to revert to an alternate PNT technology based on 5G cellular stations networks.

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:

Gmv Aerospace And Defence S.a.

Address:

Isaac Newton - P.T.M. 11
28760 Tres Cantos - Madrid
Spain

Organisation Website:

<http://www.gmv.es/>

EU Contribution: €209,245

Partner Organisations:

Tty-Saatio

Address:

Korkeakoulunkatu 10
33720 Tampere

Finland

EU Contribution: €174,999

Istituto Superiore Mario Boella Sulle Tecnologie Dell' Informazioni E Delle Telecomunicazioni

Address:

Via P. C. Boggio 61
10138 Torino
Italy

Organisation Website:

<http://www.ismb.it>

EU Contribution: €181,500

Technologies:

Aircraft operations and safety
Intelligence and surveillance systems

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems

Transport mode: Air transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other