

## **Call for expressions of interest**

### **Operating an autonomous vehicle pilot on open road**

Self-driving, or autonomous, vehicles (AVs) are currently being tested in different areas and some are currently in use in restricted zones. However, the operation of AVs on roads that are open to traffic is still very limited.

To address this issue, the European Global Navigation Satellite Systems Agency (GSA) and the EU-funded project Galileo4Mobility are launching a joint call for Expressions of Interest **aiming to select an AV (POD) to operate a public transportation service within a predefined but open to traffic area.**

#### **Pilot specifications:**

The service will be carried out in Barcelona. The exact pilot area and pilot duration will be decided by the GSA and the Galileo4Mobility project, in collaboration with the AV supplier (tentative 2 to 4 months).

**The selected company will have to provide the vehicle (POD) for the pilot duration and the technical development needed in order to enable the vehicle to run autonomously within the pilot area.**

The procurer is open to evaluate a phased approach towards fully autonomous operation within the pilot area, or partial fulfilment of the expected operational specifications. **This means that also providers who cannot (yet) provide a fully autonomous solution in open roads, but are close to that goal and are willing to experiment, are invited to apply.**

#### **POD specifications:**

- Fully autonomous POD (level 5). A steward from the Galileo4Mobility team will be inside the vehicle during the pilot, and could take monitoring and control actions if agreed with the selected supplier and after the necessary training.
- Registered plate by an EU Traffic Administration.
- Capable of recognising vertical and horizontal signage (pedestrian crossings, detention lines, speed humps, etc.) and driving by roundabouts (with very little traffic).
- Capable to overcome unexpected events (works in the road, obstacles...).
- Capable to work on roads with slopes of 12%.
- Equipped with a GALILEO enabled satellite navigation receiver or possibility for retrofit installation.

**The maximum budget for the selected supplier is €50.000.**

Expressions of interest must be send to the Galileo4Mobility Coordinator, Martí Jofre:  
**[marti.jofre@pildo.com](mailto:marti.jofre@pildo.com)**.

Pictures of an example route in UAB campus (to be confirmed):



**About Galileo4Mobility:**

Galileo4Mobility ([www.galileo4mobility.eu](http://www.galileo4mobility.eu)) is an H2020 project, funded by the GSA, aims to validate the usage of Galileo satellite technology for the new mobility services context, by demonstrating its benefits through pilot demonstrators of shared mobility services.

The main benefits of Galileo for Mobility as a Service (MaaS) are:

- Increase of signal availability in certain areas of the city (deep urban).
- Better positioning accuracy.
- Lower Time-to-first-fix (TTFF)

The three main objectives of Galileo4Mobility are:

- To understand, define and validate which are the requirements for GNSS-Galileo in MaaS.
- To develop the key elements to exploit Galileo benefits within the MaaS sector.
- To disseminate the project results and support their exploitation after the project lifetime.

**Galileo4Mobility Consortium:**

