

Horizon Europe EGNSS Downstream The European GNSS Downstream Industry Perspective

H2020 Space information Day

Galileo Services

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Why funding for EGNSS applications R&D is needed?

Metrics for Measuring EGNSS Success

- To achieve independence and autonomy for Europe in relation to non-European GNSSs
 - ✓ Achieved if and only if Galileo is widely used with equipment designed and manufactured in Europe, and applications and services developed in Europe
- To win a significant share of the huge and continuously growing worldwide GNSS downstream market
 - ✓ Socio-economic expectations (growth, competitiveness and job creation) will be met if and only if EU industry succeeds in winning a reasonable share of the global GNSS downstream market

The EU GNSS downstream industry must be placed at the heart of EGNSS-based economy to ensure a full return of investments in European GNSS infrastructure

Horizon Europe and its Instruments: Key Pillars to the EU Space Regulation

- They are in particular essential to:
 - ✓ Strengthen the European industry competitiveness
 - ✓ Encourage research in key enabling technologies
 - ✓ Develop critical technologies, applications and services based on end-user requirements, on which European GNSS will have a unique value proposition
 - ✓ Make sure that technology is available to allow Galileo market uptake
 - ✓ Make sure that the specificities of Galileo signals and services design are effectively implemented at user requirement level and used
 - ✓ Contribute to EU policy objectives

A few key recommendations

- EU contribution to GNSS applications and services R&D must reach the required level

EUR 200-300 million per year (EUR 2 billion for 2021-2027)

- Size and frequency of the calls for proposal must be adapted to the application domain
 - ✓ In sectors where the product development phase is long, with rigorous regulations and standards, the two-year call period is considered optimal
- However for fast developing sectors, a flexible, open call would be optimal
 - ✓ Such as LBS and low TRL research
- Simplifying the grant application process
 - ✓ SMEs and start-ups can be discouraged
- Time to grant must be very fast

Priority Technical Research Themes

- Further development of receiver technology
 - ✓ Improvement of power consumption, acquisition time and TTFF
 - ✓ Improved antenna level performance, especially for small, low cost devices
- Requirement for high accuracy is becoming increasingly important
 - ✓ LBS and transport sectors
- Integrity
 - ✓ Required by increasing number of applications in the transport domain
- Increased demand for hybridisation and sensor fusion.
- Authentication provides a clear market advantage for EGNSS
- Multipath is a serious challenge for applications used in urban environments

Complementary funding tools to further develop EGNSS products and applications (1/2)

- Fundamental Elements programme
 - ✓ In view of the continuing evolution of EGNSS services and market sector technologies and requirements, a similar programme should be implemented after 2020
- Demonstrations and pilot projects
 - ✓ Direct and positive impact on market uptake has been demonstrated
- International cooperation projects when favouring European industry interests
- Financial support and business advice for SMEs and start-ups
- Establishment of an IPR policy preserving EU industry interests and guaranteeing reciprocity with other GNSS constellations and associated services

Complementary funding tools (2/2)

PCP and PPI

- Public procurement (PCP/PPI) of EU products and applications in some key sectors
 - ✓ e.g. critical infrastructure, security
- Pre-Commercial Procurement (PCP) & Public Procurement of Innovation Solutions (PPI)
- Create a critical mass, which leads to price reduction/cost savings, and could provide an opportunity for SMEs to commercialise their innovative applications and services
- Foster the uptake of EGNSS in many domains:
 - ✓ Fleet management of public vehicles
 - ✓ PRS market uptake
- Launch of preparatory actions to promote PCP and/or PPI initiatives to public procurement agencies or buyer's groups from different countries and creating networks of public stakeholders ready for coordinated procurement

A fantastic opportunity for Europe

EGNSS R&D funding contribute to EU policy objectives

- Economic growth, high qualified jobs, competitiveness

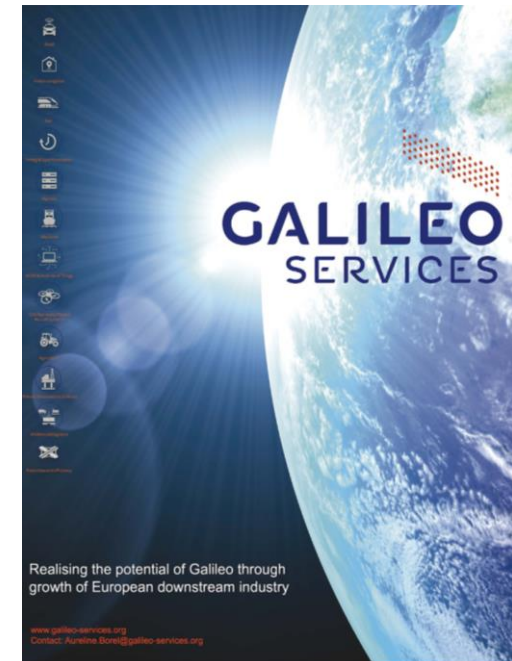


- Achieve independence and autonomy for Europe in relation to non-European GNSSs
- Contribute to tackle some of the most pressing challenges the EU is facing: security, health, food, energy, transport, resource efficiency

Galileo Services

The leading organisation representing the European GNSS downstream industry

- Non-profit organisation founded in 2002
- Work in close collaboration with national and European institutions:
 - ✓ To ensure EGNSS **market uptake**
 - ✓ To develop the **EU GNSS downstream industry** and market
 - ✓ To achieve the **expected socio-economic benefits** of Galileo
 - Growth, employment, enhanced quality of life for EU citizens
- Members are the major GNSS downstream industry players in Europe
 - ✓ Active across the whole GNSS value chain
 - ✓ Experienced in all sectors of applications



Galileo Services community: A network of 180 organisations including OREGIN



Galileo Services – An active and living network

- Regular meetings of GS members
 - ✓ Privileged access to EU decision-makers including EC and GSA
 - ✓ Networking opportunities
 - ✓ Information sharing
- Collaboration with national and European decision makers to foster the development of the European GNSS downstream industry
- Circulation of first-hand information on EGNSS Programmes and opportunities for Members' business
- Coordination of working groups on key subjects
- Promotion of the interest of the European Union, GNSS users and the European GNSS downstream industry

For further information



We are currently redesigning Galileo Services website. In the meantime we keep

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