

BACKGROUND INFORMATION ON WORKSHOP:

Workshop: Consultation of industry and academia on Horizon Europe EGNSS Downstream

4th June 2019, Prague

AGENDA:

1. Welcome and introduction to the consultation (GSA, EC)	09:30- 09:45
2. Success of Galileo: Growth of the European GNSS downstream industry (Galileo Services)	09:45 - 10:00
3. EGNSS downstream R&D – where we are and where we want to be (Fiammetta Diani, Marta Krywanis-Brzostowska, GSA)	10:00 - 10:30
4. Introduction to Horizon Europe (Tina Mede, EC DG GROW)	10:30 - 11:00
5. Coffee Break	11:00 - 11:15
6. Open discussion on Horizon Europe high level priorities (Discussion in groups: Transport market, LBS market, Professional market)	11:15 - 13:00
7. Lunch break	13:00 - 13:45
8. Summary and conclusions of the discussions on Horizon Europe high level priorities (All)	13:45 - 14:45
9. Closing (GSA)	14:45- 15:00

OBJECTIVE:

The aim of this workshop is to **consult with industry and academia the high lever priorities of EGNSS downstream applications, receivers, uptake for Horizon Europe program.**

BACKGROUND:

GSA has **successfully implemented FP7, H2020 and Fundamental Elements R&D programs**, within which a portfolio of **products and advanced prototypes** in the European industry was built. These programs also contributed to ensure a **strong European downstream competence in GNSS**, increasing especially the role of SMEs and contributing to the creation of start-ups.

After 2020, when Galileo will be fully operational, all the differentiators will be available and the new EGNOS version will be approaching, the **development of downstream applications, via new funding tools and leveraging the existing ones**, will become even more important to foster the EGNSS market uptake and to build a competitive EU downstream industry and SMEs.

The following **needs concerning the new EGNSS downstream R&D funding tools** were expressed by multiple stakeholders:

- √ Leverage existing mechanisms- **H2020 and Fundamental Elements**,
- √ Contribute to Public Sector as Galileo Customer- through **Innovation Procurement**,



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Leverage the EU competence in creating mass market applications (characterized by short time to market and high dynamic innovation) and support innovative start-ups to the “expansion phase”- through **Catalyst and support to Venture Capital,**

- √ Build on existing regional/national excellences, creating innovation spill over around Europe- through **Excellence Centres.**

EGNSS DOWNSTREAM R&D BEYOND 2020:

In June 2018 Commission has published its **proposal for Horizon Europe**, an ambitious €100 billion research and innovation programme that will succeed Horizon 2020. Currently the [Horizon Europe \(Framework Programme for Research and Innovation\) – Proposal for a Regulation and Annexes COM\(2018\) 435](#) and the [Horizon Europe \(Framework Programme for Research and Innovation\) – Proposal for a Decision and Annexes COM\(2018\)436](#) are under negotiations. The adoption timeline for Horizon Europe is the following:

- **the Council and European Parliament negotiate and subsequently adopt the programme,**
- **Horizon Europe is launched on 1 January 2021.**

EGNSS related activities are covered within Digital-Industry cluster (proposal of European Parliament and European Council to have Digital-Industry-Space cluster) - Pillar 2: Global Challenges and Industrial Competitiveness. The Broad lines of activities are part of Annexes to ANNEXES to the Proposal for a DECISION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on establishing the specific programme implementing Horizon Europe – the Framework Programme for Research and Innovation and are drafted as following: *European Global Navigation Satellite Systems (Galileo and EGNOS): innovative applications, global uptake including international partners, solutions improving robustness, authentication, integrity of services, development of fundamental elements such as chipsets, receivers and antennas, sustainability of supply chains, new technologies (e.g. quantum technologies, optical links, reprogrammable payloads), towards sustained exploitation of services for impact on societal challenges. Next generation systems development for new challenges such as security or autonomous driving.*

EGNSS related activities could be also included in other clusters and pillars of Horizon Europe.

SCOPE OF THE WORKSHOP:

Now it is the time to **consult the stakeholders and agree on the R&D EGNSS downstream priorities** for the next framework program and also to exploit new funding tools to increase the business impact. The budget for EGNSS downstream applications in Horizon Europe must be secured in order to **foster the EGNSS adoption and build strong EU industry competitiveness.** Scope of this workshop is to consult the industry and academia on their high level EGNSS downstream R&D priorities. GSA is enclosing to this note a



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questionnaire, which aims to support the attendees in getting prepared for the discussion during the workshop.



ANNEX:

***Consultation of industry and academia on Horizon Europe EGNSS Downstream
R&D QUESTIONS***

a. What are the Top 3 applications that are the most promising (with huge market potential) and/or critical/strategic (by market segment)?

b. What are the needs in terms of development of innovative chipset and receiver technologies (by market segment)?

c. What are the 3 main challenges e.g. security, safety, commercial competitiveness, maintenance costs (by market segment)?



d. What is the expected impact of the introduction of the solution (by market segment)?

e. What are the main technical barriers in introducing the EGNSS solutions (by market segment) e.g. accuracy, continuity? What other barriers do you face (e.g. legal, administrative)?

f. Which EGNSS service(s) is/are the more relevant for the top 3 applications (by market segment)? Which differentiators will be used e.g. Galileo OS, CS, EGNOS SoL

g. Are synergies with other technologies foreseen (if so, which technologies)?

h. What type of support is the most relevant in order to develop the solution: grant, innovation procurement, catalyst, support to Venture Capital other?



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- i. Do you prefer smaller calls, on an annual basis, or bigger calls, every two years?

- j. What size would you expect for R&D projects granted by EU Institutions?