

Navigation Innovation and Support Programme: navisp

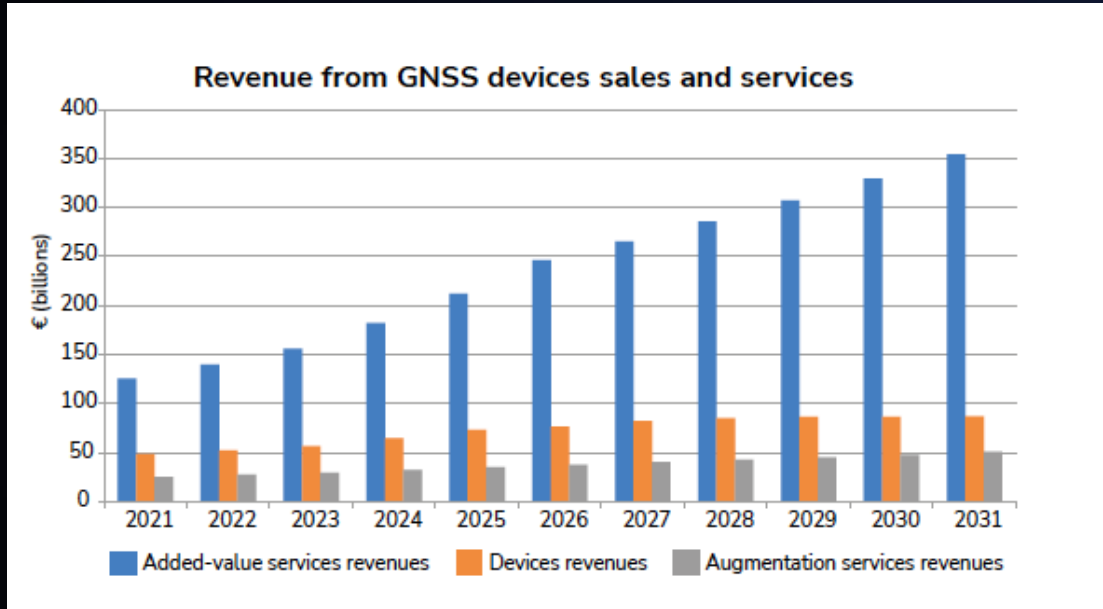
“PNT for CCAM” Thematic Window Information Webinar
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The success of GNSS and the rise of PNT



10 Billion+
GNSS devices will be used worldwide by 2031, for applications in road, automotive, consumer solutions, tourism, health and agriculture, with opportunities for growth in aviation and drones, maritime activities and agriculture

Global GNSS downstream market revenues are expected to reach
€492 Billion
by 2031

PNT = 10%
European economy and growing rapidly

navisp, is designed to foster innovation & competitiveness of European industry to take the upcoming PNT opportunities



European industry needs to:

- Develop cutting-edge PNT technologies & effective products & services
- Maintain & increase competitiveness of their PNT products to keep them competitive w.r.t. existing and emerging non-EU solutions
- Be ready to support PNT national programmes and relevant institutional activities



NAVISP is designed to:

- Improve industrial innovation and competitiveness at all industrial levels and all industrial sizes, and driving growth and jobs
- Be open for non-space industry to capture the full spectrum of PNT innovation and commercialisation
- Enable ESA MS to invest in developing industrial capacity; e.g. qualify new entrants for the market
- Use best practice in terms of responsiveness and fast contracting procedures;
- Allow flexibility for MS to target investments to support national objectives, under MS control
- Avoid any duplication with work funded by the EU/EUSPA



navisp structure: the right tool to support expanding European PNT capabilities

ELEMENT 1

ESA driven

Analyse and develop new
PNT systems technologies

Fully funded

ELEMENT 2

Industry driven

Carry out ad hoc technological
developments and pre-
operational activities

Support the emergence of
innovative PNT services

Co-funded

ELEMENT 3

Member State driven

Support to MS National
Programmes along the whole
value chain

Fully funded



- Projects need the support from national delegation to ESA -



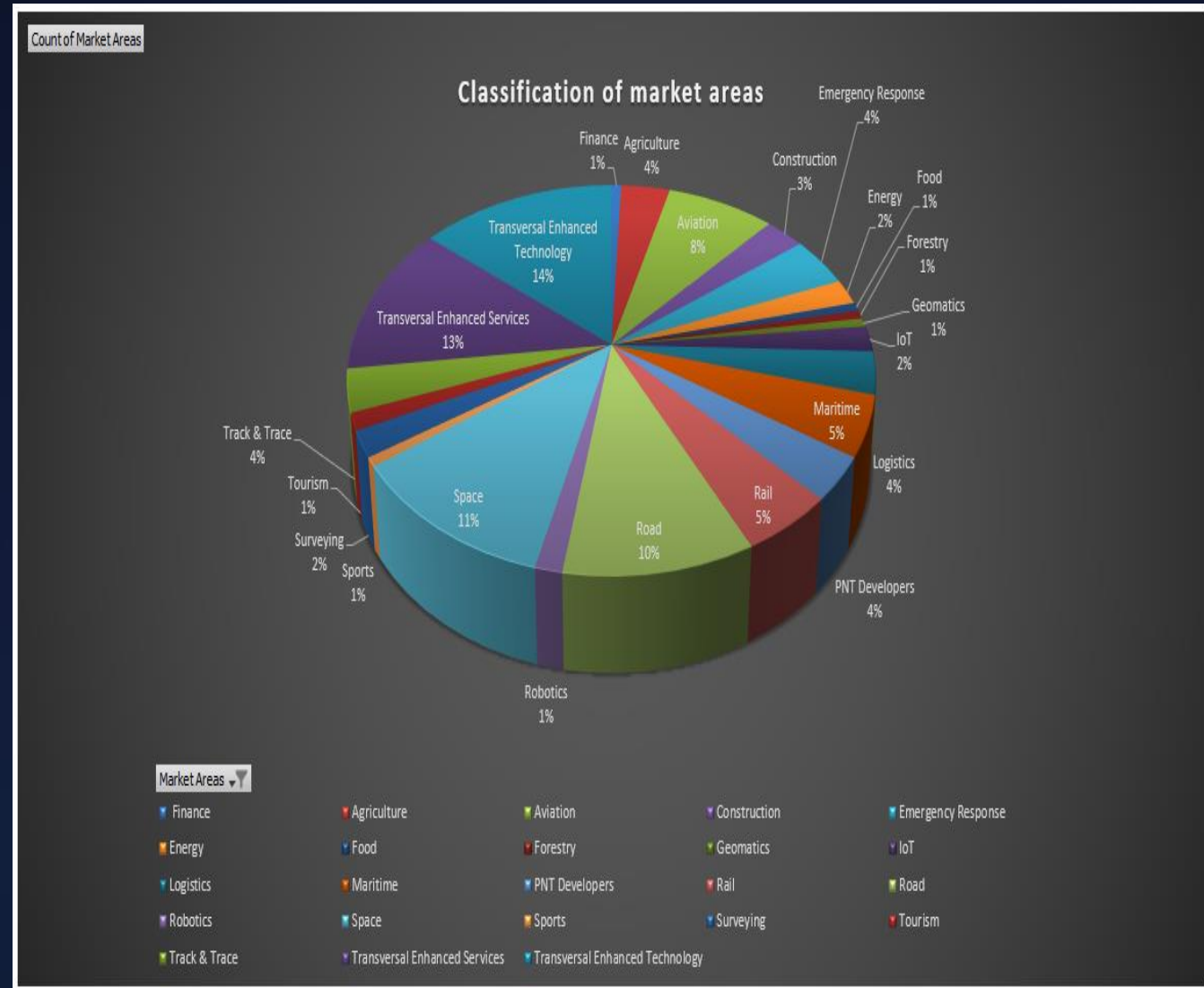
navisp: reality of the space economy and the European PNT ecosystem

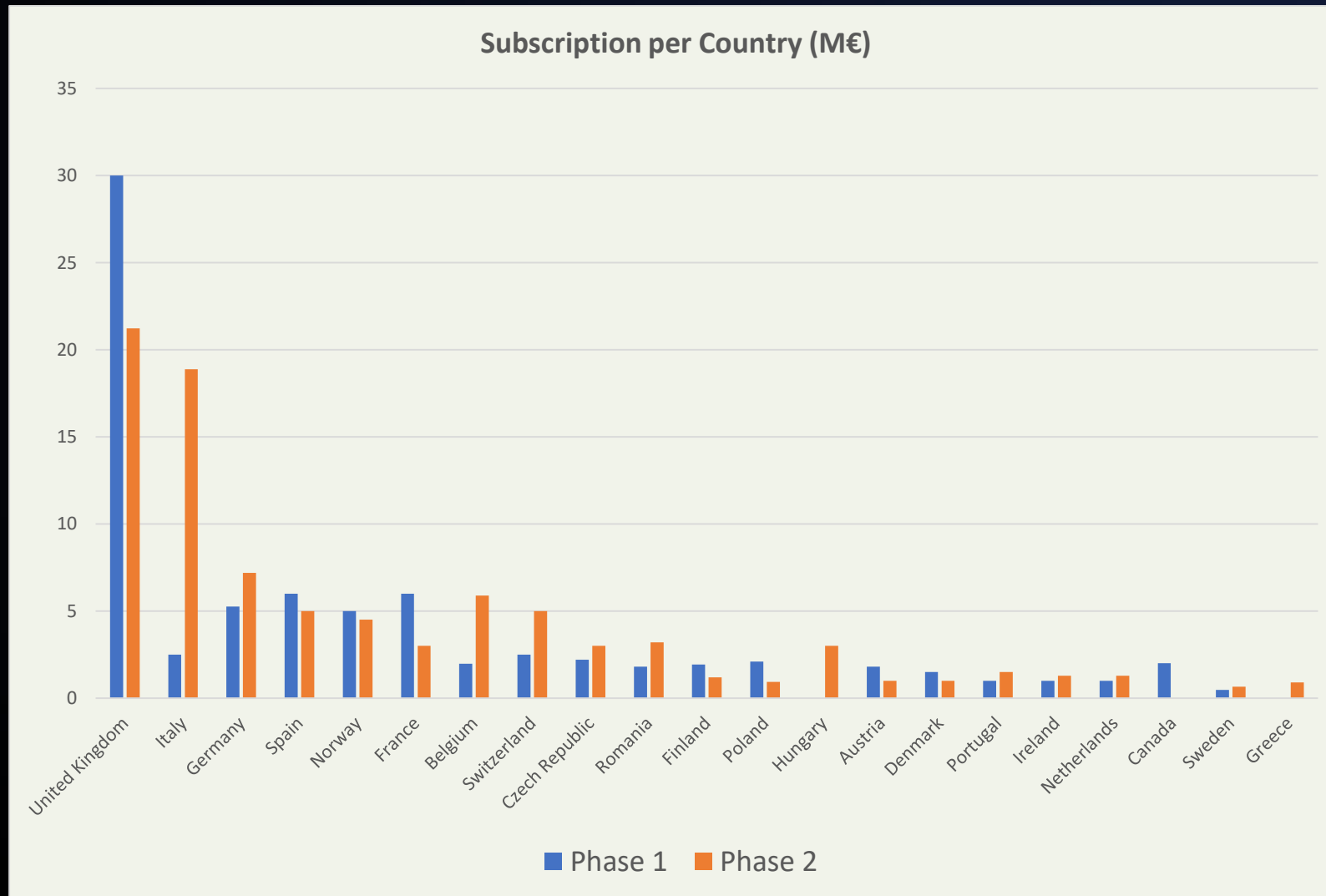
➤ 224 activities with ~ 110 M€ funding from ESA and more than 35 M€ funds from industry

- Close to 30% of projects already related with mobility

➤ More than 200 different actors in all PNT sectors:

- 65% of the Prime are SME
- 62% of the companies are non-space
- 55% have never worked with ESA before





➤ **Phase 1: 2017-2021**

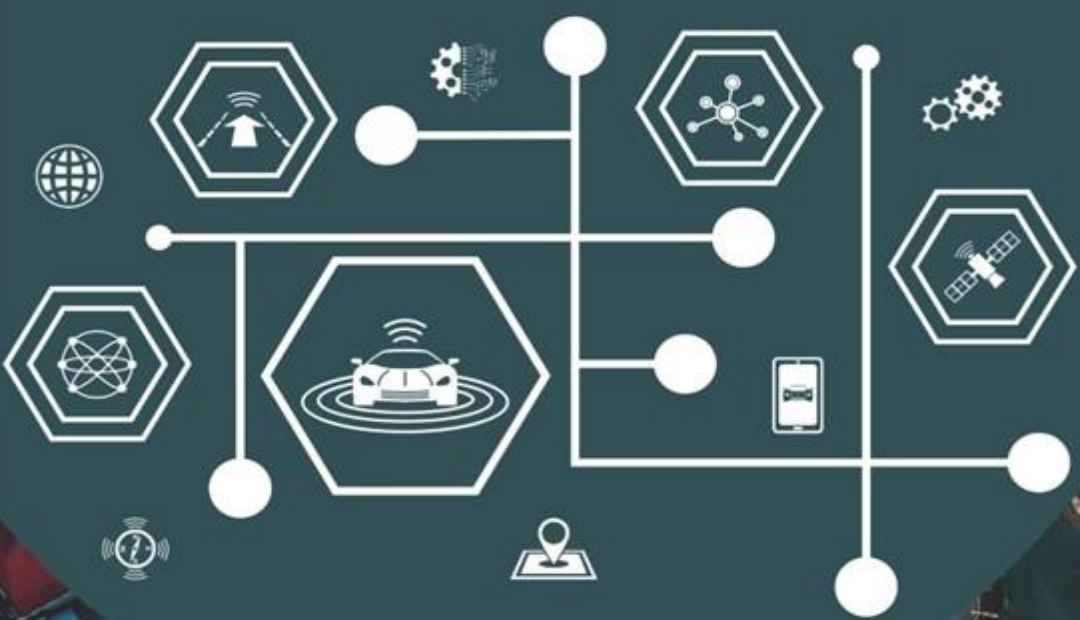
- 5 years
- 76,05 M€

➤ **Phase 2: 2020-2022**

- 3 years
- 89,67 M€

➤ **Phase 3: 2023-2025**

- To be subscribed at CMIN 22 for 120 M€
- Maintain current financial profile: 40 M€ per year



Thematic Window
**Ubiquitous PNT for Connected,
Cooperative and Automated
Mobility for more efficient, safe,
and sustainable roads and
vehicles**

Objective of "PNT for CCAM" NAVISP Thematic Window



- Support and accelerate the transition to a more connected, automated, and sustainable transport sector in line with the ESA strategy "Space for a Green Future"
- Support CCAM technology and commercialization through the various sub-themes
- Aiming to address the whole variety of actors in the PNT, automotive, and ITS domain, as well as public and private stakeholders:
 - Car manufacturers
 - Infrastructure developer
 - Public Authorities
 - Developer/Provider (current or prospective) of PNT/ 5G services
 - Developer of PNT user equipment
 - End-user of the application(s) to be demonstrated



Thank you very much for your attention !

www.navisp.esa.int

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