



EU Space for robust UAS operations

Expodronica 2022

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A new EU Agency for the Space Programme



European Union Agency for the Space Programme (EUSPA)

The user-oriented operational Agency of the EU Space Programme, contributing to **sustainable growth, security and safety** of the EU



Exploitation Manager



Management, operation, maintenance, improvement, evolution, and protection of infrastructure

Continuous provision of services

Gatekeeper of security



Security accreditation of all programme components

Operational security of Galileo and EGNOS

Operation of the Galileo Security Monitoring Centre

Market and innovation



User and market uptake

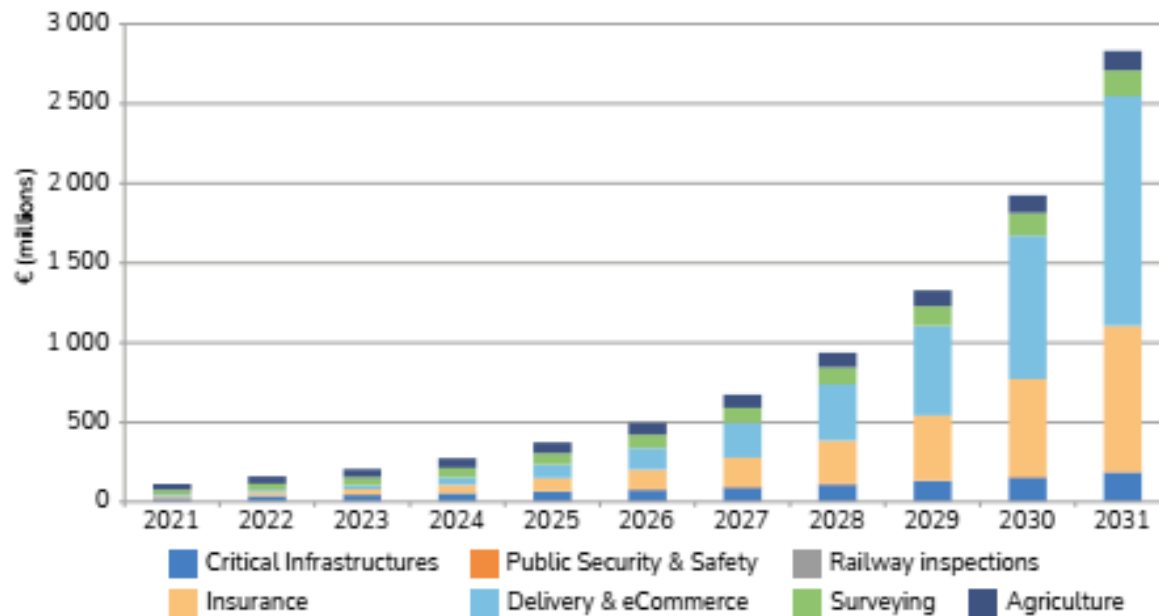
Applications

Innovation

Promotion

More than 11 Million shipments/year of GNSS capable drone in this decade, boosting the market of drone applications

EU27 dependant service revenue by service area



Market and technology trends

- Drones open a **new Global market** for receivers, applications and services
- **Delivery&ecommerce is the fastest growing market**
- **>30% of GNSS receiver models** for drones have Galileo/EGNOS inside
- **All use GNSS** and many Galileo/EGNOS. GNSS is the only choice for demanding applications (e.g. BVLOS - Beyond Visual Line of Sight)

EGNOS and Galileo differentiators support drone operations and implementation of U-Space

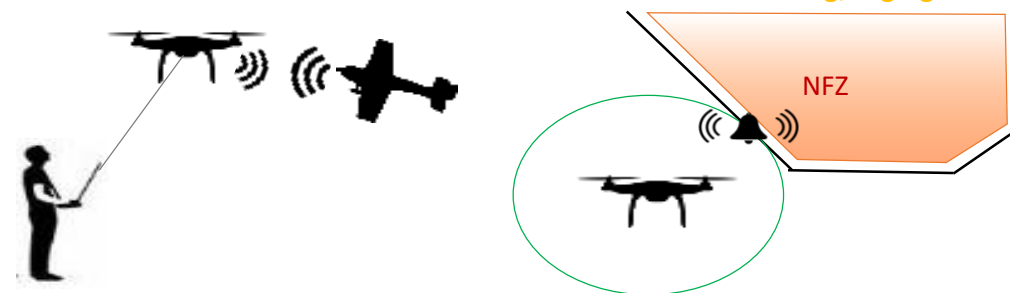
Availability

PVT *available* in challenging environments



Integrity

Reliable PVT performance for the intended operation
- performance monitoring and alerting -
Detect and Avoid
Geo-fencing/caging



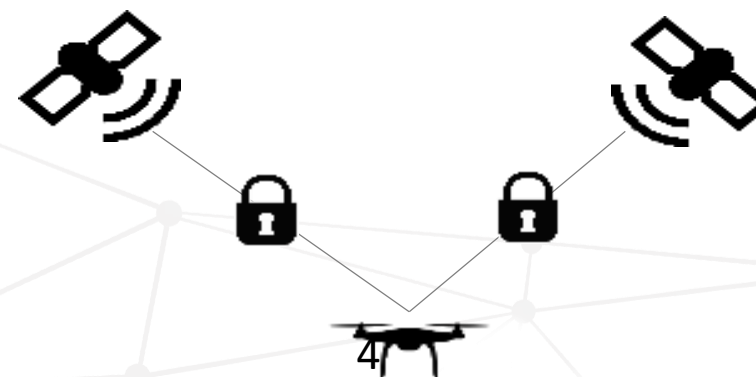
Accuracy

Unprecedented **high accuracy** for demanding applications also in the vertical axis, supporting integration in the airspace



Authentication

Embedded **cybersecurity** features



Horizon Europe WP 2021-2022



Evaluation ongoing

2021

Horizon Europe topics	Indicative budget (mln EUR)	Type of action
EGNSS and Copernicus applications fostering the European Green Deal	14	IA
EGNSS applications for Safety and Crisis management	9.3	IA
EGNSS applications for the Digital Age	9.3	IA

Open for submissions Oct 2022

2022

Horizon Europe topics	Indicative budget (mln EUR)	Type of action
Public sector as Galileo and/or Copernicus user	5.2	PCP
EGNSS applications for Smart mobility	9.5	IA
Copernicus downstream applications and the European Data Economy	9.6	IA
Large-scale Copernicus data uptake with AI and HPC	9.6	RIA
Service developments and demonstrations	9.1	RIA
Designing space-based downstream applications with international partners	5.1	RIA

* Dates are tentative and subject to change

More details on the topics along with the Horizon Europe Work Programme 2021-2022 can be found on the [EUSPA website](#)



Linking space to user needs

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