

Linking space to user needs

EU Space 4 drones

Drone Forum Austria

Vienna, 23rd January 2025

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EU Space Programme

EU Space activities **under one umbrella**



EGNOS

EGNOS “Makes navigation signals more accurate and trustable for Safety-critical applications”

Operational in **480+ airports** & helipads in 26 countries

97% of new tractors with GNSS in Europe equipped with EGNOS



Galileo

Global satellite navigation and positioning system (GNSS)

More than **4 billion Galileo receivers** worldwide



Copernicus

Earth Observation (EO) and monitoring based on satellite & non-space data

Nr. 1 world provider of space data and information (16TB/day)



GOVSATCOM

Secure satellite communications for EU governmental actors

Rapid support over crisis areas



IRIS²

Infrastructure for Resilience, Interconnection & Security by Satellites

Sovereign multi-orbit constellation

Cutting-edge technologies focused on government service



Space Situational Awareness (SSA)

Space Surveillance and Tracking (SST)

Space Weather Events (SWE)

Near-Earth Objects (NEO)

EU Space plays important role in drone segment

NAVIGATION

- Navigation and positioning for drone missions
- Key component of iConspicuity supporting situational awareness
- Contribute to forecast for planning BVLOS missions (ESU)
- Assurance via authenticated messages

COPERNICUS

- Mapping of urban areas, and population density to support safety assessment/SORA
- Support to emergency landing

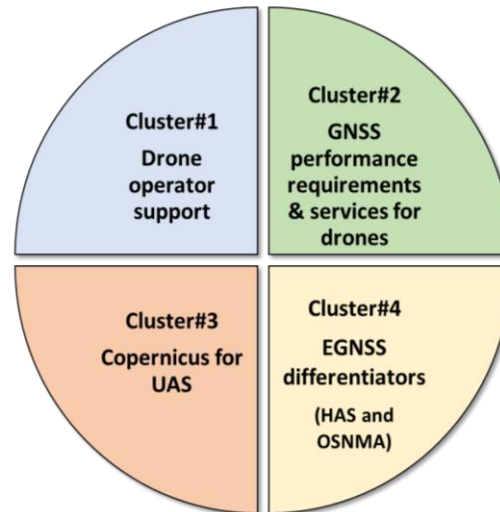
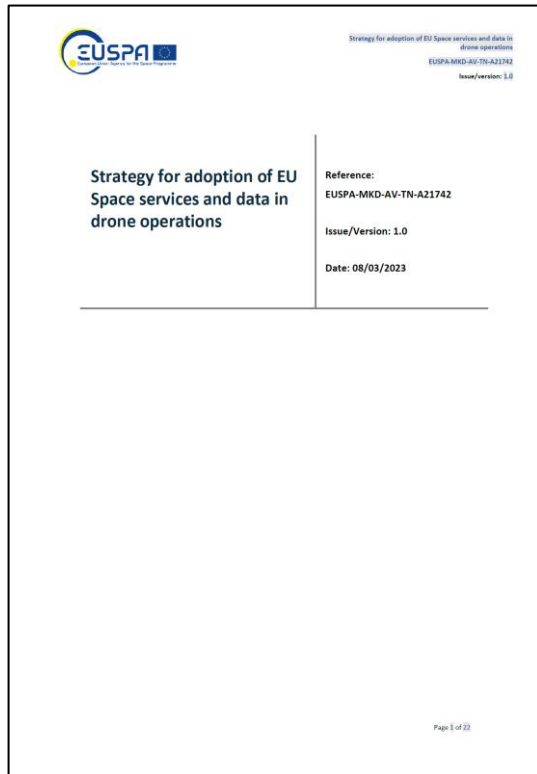


SECURE SATCOM

- Enabling connectivity for UAS operations beyond radio range
- Support to surveillance missions



Strategy for adoption of EU Space in drone operations



- Endorsed by EUSPA Admin board in March 2023
- Aligned with EC Drone Strategy 2.0



- Activities launched in May 2023
- Joint work with many stakeholders & interested entities
- Regular workshop updates

Joining forces with institutions active in the drone ecosystem to boost the use of Space



Regulatory actions
Cooperation with DEFIS/EUSPA in place



Space Programmes management
EGNSS services roadmap



Drone Strategy 2.0
Drone Regulatory framework



Copernicus entrusted entities



MiU with SJU: coordination on R&D



Institutional User of RPAS
EFCA-EUSPA MoU in place



Framework partnership agreement
Joint actions on adoption



Cooperation agreement



Institutional User of RPAS
EUSPA member of the RPAS group



EGNSS Evolution, R&D Coordination

EUSPA AB and National experts



Many tools supporting users, funding developments

FUNDING TOOLS

Horizon Europe Fundamental Elements



GAUSSIAN



CERTIFLIGHT



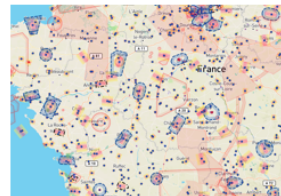
DEGREE

Grants

Pilot projects

Copernicus GHSL for SORA pilot project

- **Helicus & Innov'ATM/Instadrone** implementing the Copernicus GHSL into flight planner SW & for the preparation of SORA for their BVLOS operations.
- Workshops with NAA's
- Demonstration flights



OTHER TOOLS

Training to drone operators



User Consultation



Tools for users for testing



Support to startups



WGs

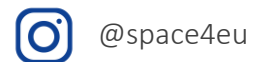




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