



Council of the
European Union

**Brussels, 19 June 2023
(OR. en)**

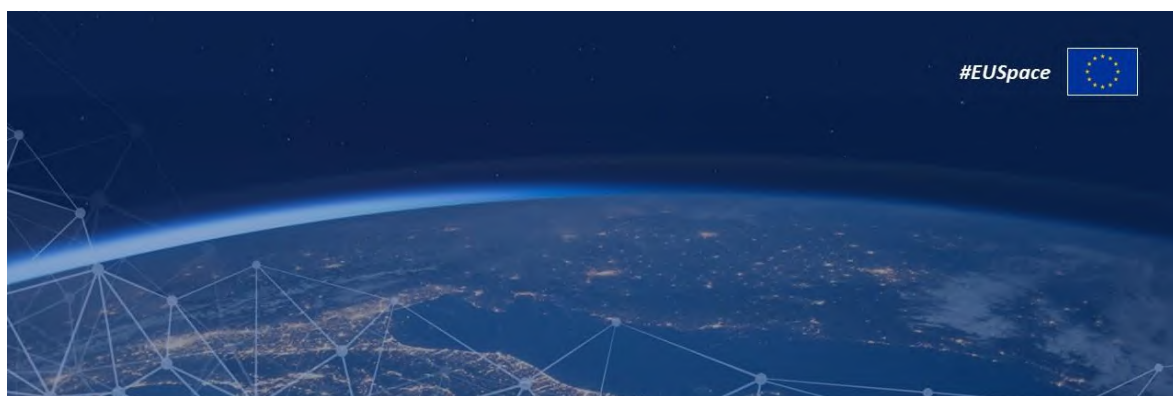
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NOTE

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|----------|---|
| From: | General Secretariat of the Council |
| To: | Delegations |
| Subject: | Update of activities for the EU Space Programme and transfer of EU SST Frontdesk (Powerpoint presentation, Space Working Party meeting on 13.06.2023) |

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EUSPA

Council Space Working Party

Rodrigo da Costa – Executive Director

13 June 2023



Exploitation

- Galileo and EGNOS services provision and 24/7 operations – including management, operation, maintenance, improvement, evolution & protection of infrastructure
- GOVSATCOM hub and IRIS² preparation
- Space Surveillance and Tracking Front Desk as of July



Security

- Security Accreditation
- Security Monitoring Center operations (GSMC)
- Governmental Service Provision
- Key contributor for the implementation EU Space Strategy for Security and Defence



Utilization

- Market development, communications, user uptake, applications, innovation
- GalilFor Galileo, EGNOS, commercial use of Copernicus, GOVSATCOM - and soon IRIS²

2

Galileo services and 24/7 operations

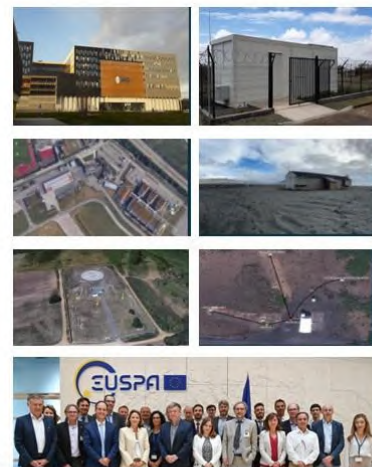
- All Galileo services delivered with state-of-the-art availability and accuracy
- 24/7 security monitoring of Galileo fully operational
- Galileo High Accuracy Service declaration in January 2023, Galileo now offers sub-meter accuracy
- Equipment for Galileo's Public Regulated Service Initial Operational Capability under deployment in control centers
- Testing phase of Navigation Message Authentication with users ongoing
- Emergency warning and remote beacon activation in preparation
- New Galileo stations:
 - Sensor station in Wallis, Medium Earth Orbit Local User Terminal in La Reunion, and Search and Rescue beacon in Kerguelen
- Next Galileo satellite launch in preparation, backup option under analysis and presentation to stakeholders
- Work on next generation (G2G) in progress



3

EGNOS services and 24/7 operations

- EGNOS services delivery ongoing, new service provision contract signed and kicked-off with industry
- Solar and ionospheric activity has increased since September, impacting EGNOS performance - software update to mitigate impacts (V242B) in accelerated development
- EGNOS security monitoring started
- Maritime service in development, rail service within European Rail Traffic Management System in preparation
- 10 new EGNOS sites delivered to industry in 2022, and additional 15 sites being delivered in 2023. 7 additional site contracts to be done this year (on top of the 33 already signed by 2022).
- Work on next generation (V3) in progress.



4

GOVSATCOM, IRIS² and SST Front Desk

- **Governmental Satellite Communications:**
 - GOVSATCOM Hub Industry tenders under final evaluation, start of initial services planned for 2024
 - Governmental user requirements and gap-analysis for governmental SatCom provided through ENTRUSTED, including demonstration of GOVSATCOM use case based
 - First SatCom Downstream Days with more than 100 key industry and governmental players
- **Contributing to EC's IRIS² Task Force on daily basis**
- **Space Surveillance and Tracking Front Desk**
 - To be performed from GSMC Madrid
 - Handover from SATCEN planned for 01 July 2023,
 - Transition progressing as planned



5

Highlights uptake and innovation

- **Downstream applications with Horizon Europe:**
 - Projects from first call kicked off, 40% SME participation.
 - Second call under evaluation, more calls will follow
- **Innovation and entrepreneurship**
 - Creation of EUSPA network of 1000 start-ups and 28 investors
 - Second CASSINI Space Entrepreneurship day on 27/28 June
 - Wide geographic distribution of startups joining myEUSpace
- **EUSpace4Ukraine initiative ongoing, bringing together Non-Governmental Organisations with innovators**
- **Copernicus demonstrator for healthcare and pharma launched with interest from major players**
- **Receiver manufacturers with increasing portfolio of High Accuracy and Navigation Message Authentication capable devices**



EUSPA activities contributing to EU Green Deal



GALIRUMI: Galileo for dairy farming

Integrated solution for **herbicide-free weed control in dairy farming**



2 **EGNSS-powered** electrocuting and laser-based **defoliating weeding robots** and software for mission planning and control

Accelerated adoption of **automation in dairy farming** for **increased efficiency** and **environment protection**



Example



COREGAL: Galileo for forest management

Galileo and UAV technology working together for **forest management**



Aerial mapping to track the status of biomass and empower climate-oriented efforts relying on **carbon maps**

Greatly reduced **cost** and increased **performance** compared to traditional methods



Example

EGNOS, Galileo and Copernicus are in the frontline of Farm to Fork and are the main drivers for the modernisation of CAP

Accelerating the transition to a sustainable food system



Neutral or positive environmental impact

Help to mitigate climate change and adapt to its impacts



Reverse the loss of biodiversity



EUSPA activities in disaster & crisis management

Overwatch



Exploiting Copernicus & Galileo synergies to **shorten the observation & decision-making loop** with **Augmented Reality Holographic interface**



Develop a semi-automatic system for **detecting people lost in the sea**, especially during the hours of darkness



Improve positioning & navigation **availability, reliability, and accuracy** during fire operations, through thick smoke, dense forests, rough terrain and inside buildings

Contributing to:

Disaster-resilient societies



Contributing to:

Border Management



Contributing to:

Disaster-resilient societies



Demonstrator

Nov-2022 to Nov 2023



#EUSpace4Ukraine 1-year **Demonstrator** to validate solutions in NGOs operational environment



3 EU Space-enabled demonstrators

ongoing

Assessing conflict impacts in agricultural fields

Up-to-date maps for fieldwork navigation

Galileo geo-tagging for search operations



In cooperation with Red Cross Ukraine

Resources and capabilities

- Buildings and facilities:
 - New buildings in Saint Germain en Laye (GSMC France) and in La Maranosa (GSMC Spain).
 - 10th anniversary of EUSPA in Prague, works towards new HQ in Prague ongoing.
- Staff and internal matters
 - New organization deployed and implemented
 - EUSPA Contribution to joint office fully operational
 - Planned staffing in place, more than 4200 applications received in 2022



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