



Council of the  
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**ESPACE 31**

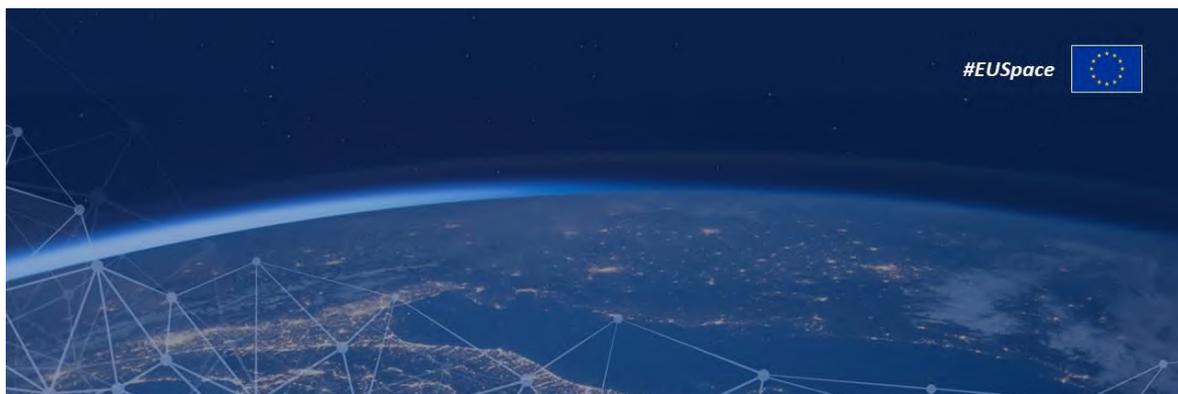
**NOTE**

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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 IRIS<sup>2</sup> 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 IRIS<sup>2</sup>

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## 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



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## 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.



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# GOVSATCOM, IRIS<sup>2</sup> 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 IRIS<sup>2</sup> 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



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# 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

Contributing to:

Disaster-resilient societies



## SARA



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

Contributing to:

Border Management



## AIOSAT



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



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).
  - 10<sup>th</sup> 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



Linking space to user needs

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