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**ESPACE 84
INTER-REP 101**

COVER NOTE

Subject: EUSPA latest activities and achievements for the EU Space Programme
- Powerpoint presentation (Space WP meeting 03.10.2024)

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#EUSpace 

Linking space to user needs

EUSPA latest activities and achievements for the EU Space Programme

Council Space Working Party

Rodrigo da Costa – Executive Director

3 October 2024



EUSPA's Mission: Service and User Oriented Agency with Security at its core



Exploitation

- Galileo and EGNOS services provision and 24/7 operations
- GOVSATCOM hub development
- Contribution to IRIS² preparation
- Space Surveillance and Tracking Front Desk
- Soon: contribution to implementation of Space Law



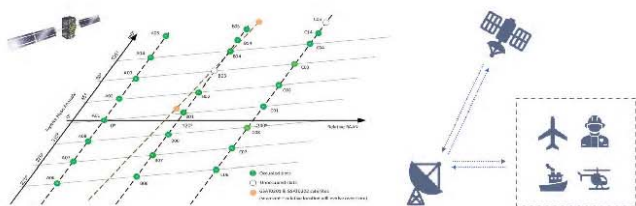
Security

- 24/7 Security Monitoring Center operations (GSMC)
- Provision of Secured Governmental Services to EU Member States
- Security Accreditation
- Key contributor in the EU Space Strategy for Security and Defence implementation



Utilization

- Market development, communications, user uptake, applications, innovation
- For Galileo, EGNOS, commercial use of Copernicus, GOVSATCOM, Space Surveillance and Tracking, and IRIS²



Road to EUSPA



EU Space Regulation (2021/696)

Growing role of space in supporting EU priorities in terms of growth, competitiveness, sustainability, and security, and establishing EUSPA

- **Streamlined linear governance** in place, under delegation of COM and sub-delegation to the European Space Agency without duplication of tasks
- Implementation of **clear chain of command** for operational systems and security-critical functions (e.g. Council Decision 2021/CSFP/698)
- Agency **transformation and ramp-up** achieved: new organisation and working model deployed, growth targets achieved



Core budget
~€80M/year



Delegated budget
2021 – 2027: ~€9.5B

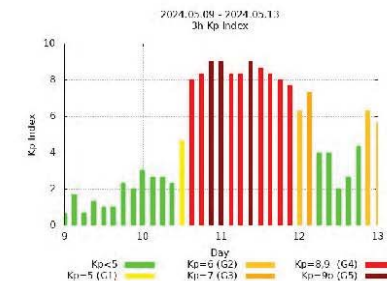
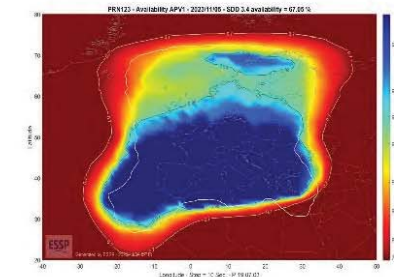
Galileo status: best in class services

- Approx. **4 billion** Galileo receivers deployed around the world
- Seamless, safe and secure **Service Provision**
- **Two launches** and **two new satellites** in the operational constellation in 2024
- New **Public Regulated Service** Signal in Space broadcast since April 2024
- 1st GNSS to deliver **authentication capability** through signal in space (OSNMA test)
- 1st GNSS to deliver **decimeter level position service** globally through signal in space
- **Emergency Warning Satellite Service** test phase ongoing
- Enhanced service commitments for **Search and Rescue SAR/Galileo**
- New **Galileo Sensor Station** in Bonaire (The Netherlands) and new **Galileo telemetry and telecommand** station in Fucino (Italy) under deployment



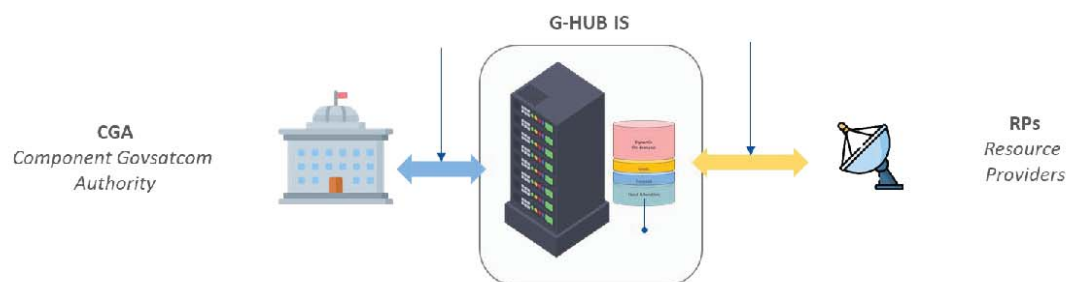
EGNOS status: from aviation to maritime and rail

- Significant **improvement on service performance** and continuity after deployment of new EGNOS V2 (242b) release, due to its higher robustness to solar flux peaks
- Reaching **1000 EGNOS landing procedure** in Europe by end 2024, thanks to dedicated EUSPA grants program
- New service to support **Maritime Safety of Life** applications declared in March 2024
- **EGNOS for rail** in preparation
- More than **30 hosting sites in 15 EU countries** prepared by EUSPA to host the deployment of the new generation, EGNOS V3



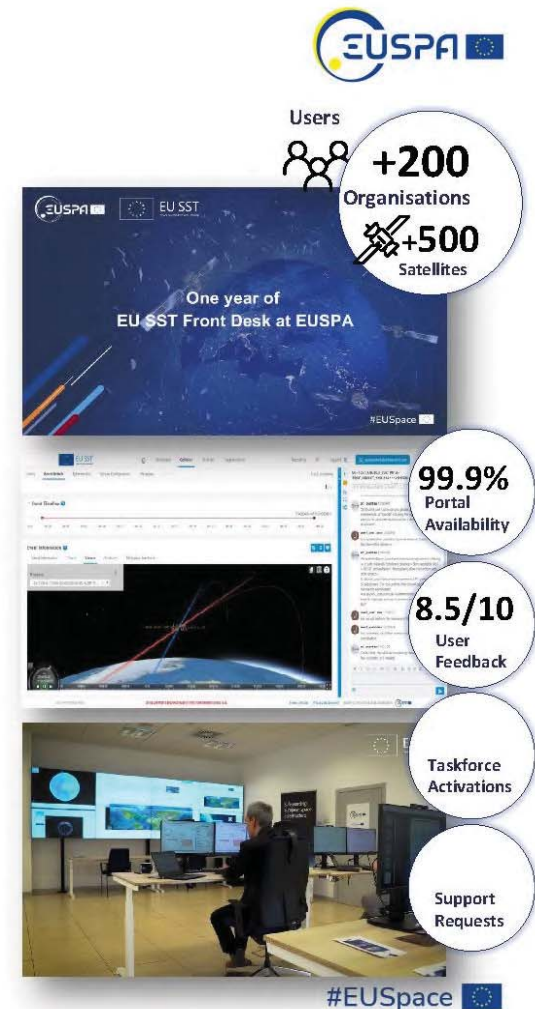
GovSatCom: reliable, secure and cost-effective governmental communications services

- **GovSatCom-HUB pooling and sharing secure infrastructure** development contract Kicked-Off in December 2023, activation of Stage 2 in July 2024
- Preparatory activities for **GovSatCom Initial Services** on-going as expected
- User uptake initiatives: **Horizon Europe** Govsatcom, Govsatcom network of users **EUSpace4Gov**
- Ongoing support to COM for the procurement of **Resource Provider capacity/services**, for onboarding **Competent GovSatCom Authorities** (CGA), and for the selection of hosting sites for **GovSatCom HUB FOC**.
- User User uptake initiatives: **Horizon Europe** Govsatcom, Govsatcom network of users **EUSpace4Gov**



Space Surveillance and Tracking Front Desk

- SST Front Desk **fully operational** in EUSPA at GSMC-ES since the 1st of July 2023
- **Growing user community** with the opening of the SST Collision Avoidance service to non-EU users
- 5 SST **Taskforce activations** for critical and/or media related events
- Service evolving to cope with an **increased number of potential collisions** events, incl. against large constellations
- User satisfaction campaign done in April/May 2024, **overall feedback 8.5**.
- SST for the first time in the **EUSPA User Consultation Platform**
- Preparatory work on security on-going in cooperation with the SST Partnership e.g. **Security Monitoring Strategy Roadmap**



CASSINI: direct impact on the #EUSpace ecosystem



500+
founders supported
along their journey



50+
VCs active the
CASSINI ecosystem



30+
leading corporates
involved in CASSINI



€7+ Mn
direct CASSINI seed
support awarded



€400+ Mn
private funding secured
by portfolio companies

CASSINI Entrepreneurship days

- 2 days of networking and thoughtful discussions about pioneering developments in the sector
- 350 participants representing startups, investors and authorities
- Expo area, matchmaking rooms, pitching competition and expert panels
- 100+ EU startups, 30 investors and accelerators
- CASSINI Challenges – Product Competition winners awarded
 - INFRASPACE (Norway), SKYPUZZLER APS (Denmark), Q.SYSTEM (Italy), SATELLIGENCE (The Netherlands), KANOP (France)



3rd - 4th June 2024, Prague

<https://cassini-ed.eu/>

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Update on Horizon Europe



3rd call

The main part of the scientific evaluations was concluded:




- Deadline: **20 February 2024**
- Number of proposals submitted: **63**
- Number of beneficiaries: **412 unique entities**
- Indicative budget available: **32.5 mil €**
- Total budget requested: **101.05 mil €**
- Number of participants: **466**
- Number of countries: **56 (including all 27 EU MS!)**
- Success rate: **27%**
- Share of beneficiary SMEs: **35 % (budget-wise= 36%)**

Central Evaluation

- April 22nd - 26th 2024
- **11** working sessions working in parallel
- **59** eligible proposals
- **36** expert evaluators involved
 - **43%** women,
 - **26%** new experts and 14% brand new

EU MS Dashboard - test version released



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COUNTRY PROFILE

Example

EUSPA funded projects:	124 project(s)	€28.93M
Horizon 2020	38 project(s)	€15.30M
Horizon Europe	16 project(s)	€9.95M
Fundamental Elements	12 project(s)	€3.10M
Most funded segment:	Rail	
National GDP	€3.51T (2022)	
Population	84.514M (2023)	

SPACE POLICY

The German Federal Government's Space Strategy outlines Germany's space policy objectives and strategies across various areas, emphasising continued support for space research, technology transfer, international cooperation, and talent attraction. Key points include:

- Support for Space Research:** Germany aims to continue excellent space research, support work-sharing between academia and industry, develop small satellites, and ensure German interests in ESA's Voyage 2050 Science Programme.
- Post-ISS Period:** Germany plans to establish options for continued access to low Earth orbits post-ISS and promote technology transfer from it.
- International Space Exploration:** Germany is actively participating in international space exploration efforts, including the Artemis missions to the Moon and robotic missions to Mars, while contributing to technology development and scientific research.
- Space Resource Usage:** Germany supports international efforts to govern space resource utilization and plans to participate in the exploration and use of resources on celestial bodies.
- Public Awareness and Talent Attraction:** Efforts are focused on raising public awareness of the space sector's importance, promoting diversity and inclusion, addressing skill shortages, and enhancing communication and education initiatives to attract talent to the space sector.
- Dialogue and Outreach:** Initiatives include enhancing dialogue with schools, universities, and media, supporting practical experiences for young researchers, and increasing public access to space sector facilities through events like the German Space Day.

The overall goal is to strengthen Germany's position in the global space community, foster innovation, and inspire...

STATES-HOLDERS







Germany

STATES-HOLDERS	MARKET SEGMENTS
ARBEITS- UND ENERGIE-UMWELT	
BEREICH FÜR TRANSPORTATION UND LOGISTIK	
DEUTSCHE RAKETEN	
DLR	
DMT-UMWELT UND LOGISTIK	
ELITE-ALTERNATIVE FÜR RECHENKRAFT UND LOGISTIK	
EUROPEAN SPACE AGENCY	
ESA	
EUROPEAN SPACE AGENCY	

Data and info on three levels:

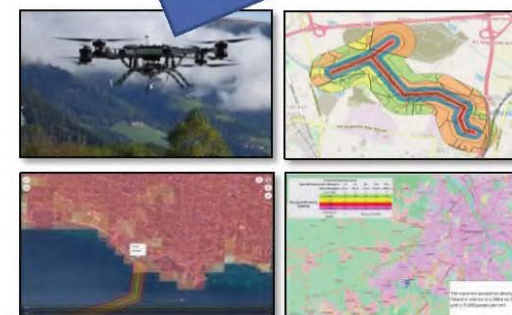
- Member States
- Market segments
- Stakeholders

Copernicus Demonstrators

Market Segment		Use Case	Target users
Aviation		Aircraft emission measurement and monitoring	Environmental inspection agencies, Airport operators
Emergency Management and Humanitarian Aid		Emergency preparedness and early warning of floods	Government/Agencies, Municipalities, Hydropower Companies, Water Utilities, Infrastructure Companies, Grid Operators
Maritime		Autonomous navigation and ship route optimization	Ship owners & operators, Port Authorities and Regulators, Insurance Companies
Renewable Energy		Identification of renewables acceleration areas	Energy companies, National Geology Institutes, environmental authorities...
Insurance and Finance		ESG monitoring for green financing	Insurance and Banking Institutions
Fisheries and Aquaculture		Seaweed farming	Food industry, cosmetics, biofuel

Copernicus for risk assessment - drones flying in populated areas

Completed



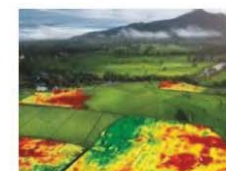
Building up knowhow of the EU Space Ecosystem

- **EU Space Academy** for entrepreneurs deployed
 - 1200 people trained, 250 start-ups, 450 newsletter subscribers, 50 + mentors and lecturers, 86% program satisfaction rate
 - Extension to security ongoing, new modules and lectures to be added soon
- **EU Space Information Sharing and Analysis Centre (ISAC)**
 - Launched in April, 1st general meeting done mid September
 - 12 founding members, 20 members (including 14 SMEs), 6 public partners
 - 3 Working groups starting



An Agency with continuous improvement mindset

- **Increased visibility** of EUSPA, e.g. planned procurements and opportunities
- Workshops on **how to do business with EUSPA** in preparation
- **Procurement planning process** updated, and state-of-the-art tool deployed
 - first results demonstrated, with significant compression of time to contract for the engineering service support contract
- New **organizational structure** strengthening technical horizontal functions (notably in the security domain) and securing the growth in overall staffing
- **Increased resilience** with deployment of new IT datacenter, and operational use of the new GSMC buildings in France and in Spain



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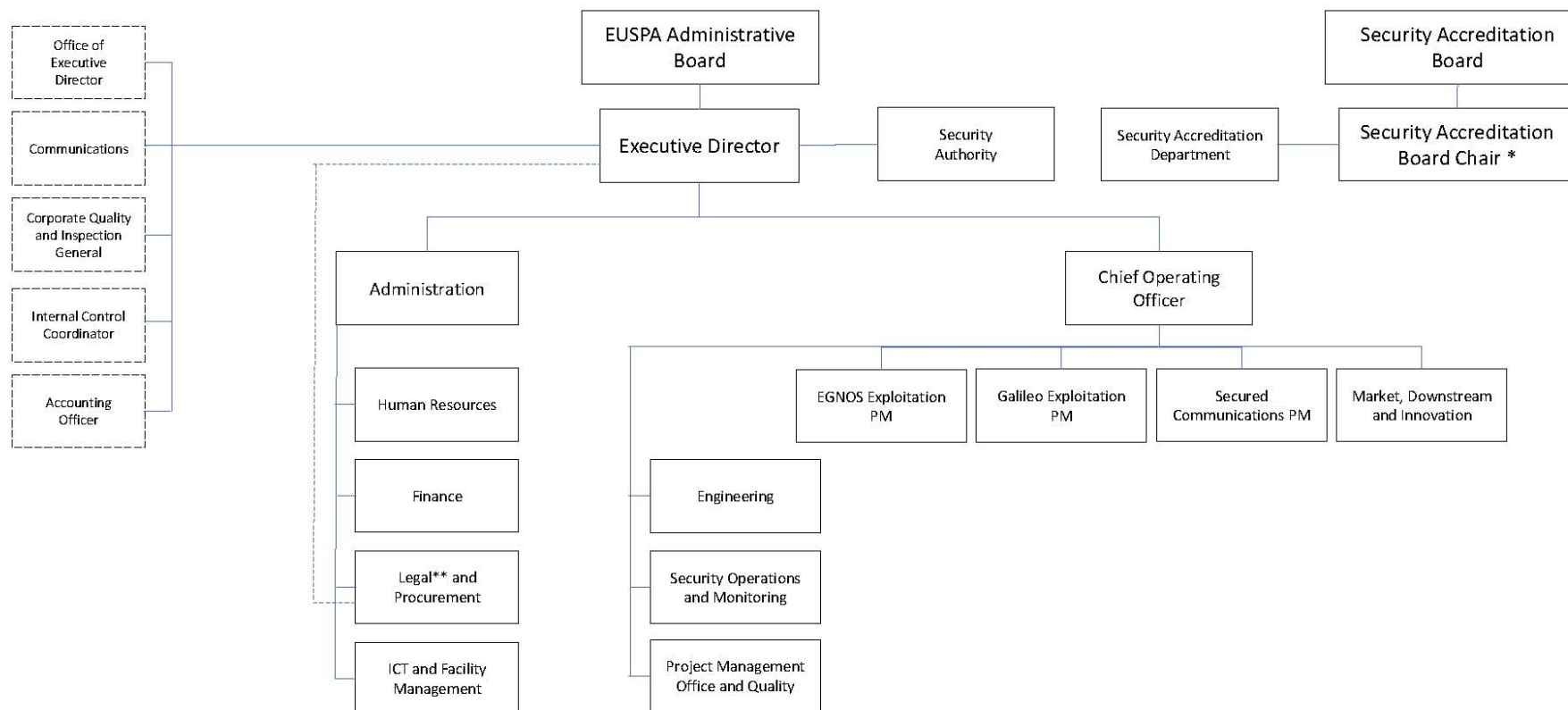
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EUSPA is hiring!

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* In close cooperation with EUSPA ED in accordance with the Space Regulation Art 79

** Legal and procurement advise to the ED