



# Overview of EUSPA funding opportunities & more

The Finnish Transport and Communications Agency Traficom  
The Intelligent Transport and Automation Topical Group meeting  
15 March 2023

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Market, Downstream and Innovation Department



# A new agency for the EU Space Programme

## EU Space Regulation (EU) 2021/696



- To acknowledge the growing role of space in supporting EU priorities in terms of growth, competitiveness, sustainability, and security
- Setting the ground for the creation of EUSPA, officially launched on **12 May 2021**



The user-oriented operational Agency for the EU Space Programme

With the new regulation, **space data is at the heart of a technological revolution**

# EUSPA facts and figures



Around 300 staff from  
the EU Member States

Budget: MFF 2021-2027: ~€9.5B

## **EUSPA HQ**

Prague, Czech Republic

## **GRC**

Noordwijk, Netherlands

## **GSMC**

Saint-Germain-en-Laye, France

## **EGNOS Center**

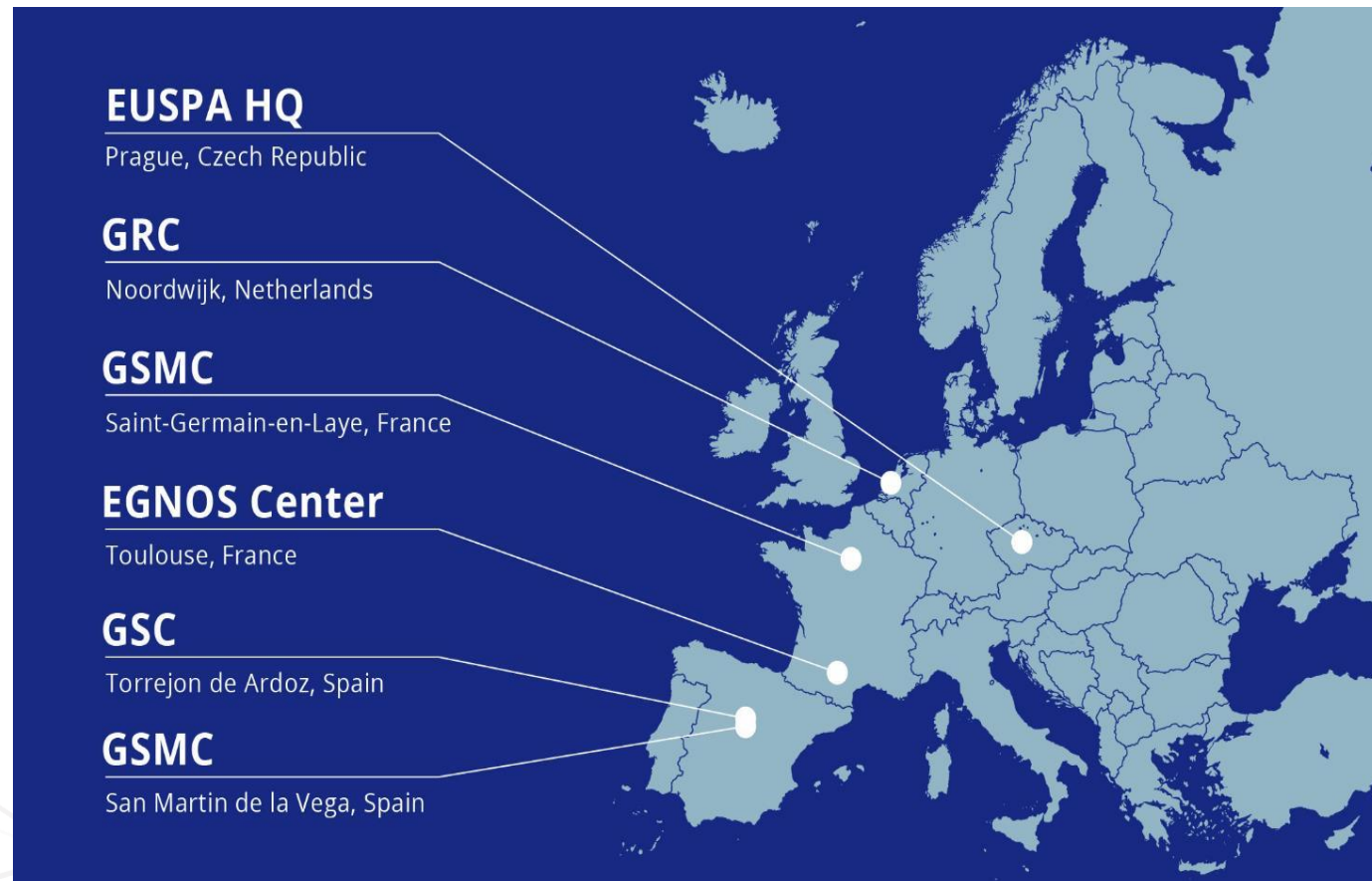
Toulouse, France

## **GSC**

Torrejon de Ardoz, Spain

## **GSMC**

San Martin de la Vega, Spain



# A new EU Space Programme

EU space activities **under one umbrella:**



## EGNOS

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

Operational in **400+ airports** & helipads in 23 countries



## Galileo

Global satellite navigation and positioning system (GNSS)

More than **3 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 (>20TB/day)



## GOVSATCOM

Secure satellite communications for EU governmental actors

Rapid support over crisis areas

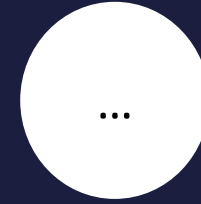


## Space Situational Awareness (SSA)

Space Surveillance and Tracking (SST)

Space Weather Events (SWE)

Near-Earth Objects (NEO)



## Others

Access to Space

Research & Innovation

Entrepreneurship

Certification & standardisation

Capacity building



# 17 segments..... unlimited creativity

AGRICULTURE



AVIATION AND DRONES



BIODIVERSITY, ECOSYSTEMS  
AND NATURAL CAPITAL



CLIMATE SERVICES



CONSUMER SOLUTIONS,  
TOURISM AND HEALTH



EMERGENCY MANAGEMENT  
AND HUMANITARIAN AID



ENERGY AND RAW MATERIALS



ENVIRONMENTAL MONITORING



FISHERIES AND AQUACULTURE



FORESTRY



INFRASTRUCTURE



INSURANCE AND FINANCE



MARITIME AND  
INLAND WATERWAYS



ROAD AND AUTOMOTIVE



RAIL



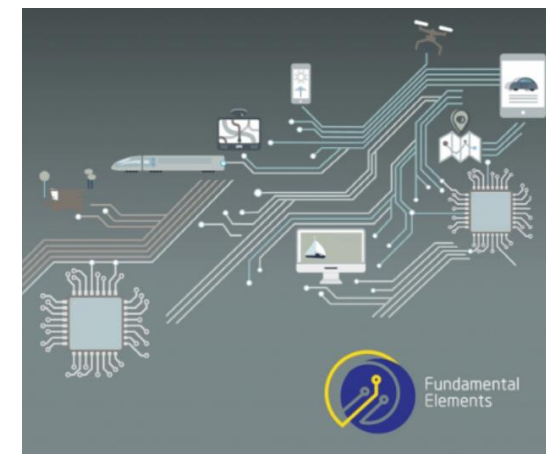
URBAN DEVELOPMENT  
AND CULTURAL HERITAGE



SPACE



# What can EUSPA offer?





# EUSPA Horizon Europe 2023 call



Type of Action	Topic	Indicative budget (EUR mln)
IA	EGNSS - Transition towards a green, smart and more secure post-pandemic society	3.5
IA	EGNSS - Closing the gaps in mature, regulated and long lead markets	8
RIA	Copernicus-based applications for businesses and policy-making	7
RIA	Designing space-based downstream applications with international partners	6
IA	EU GOVSATCOM for a safer and more secure EU	10
Total budget:		34,5

Indicative deadline:  
February 2024

Innovation  
action (IA)

Activities to produce plans and arrangements or **designs for new**, altered or **improved products**, processes or services.

Research  
and  
innovation  
action (RIA)

Activities to **establish new knowledge** or to **explore the feasibility** of a new or improved technology, product, process, service or solution.

(HORIZON-EUSPA-2023-SPACE-01)

3,5  
mEUR

## EGNSS - Transition towards a green, smart and more secure post-pandemic society

TRL 7-9

- Stimulate the development and use of commercial downstream solutions based on **synergies** between the EU space programme components and digital technology
- Foster the development of space technologies that improve the **quality of life** in Europe: **efficient mobility**, energy efficiency and environmental friendliness, green digital transition of the construction industry
- Exploit digitalisation and the **adaptation of business processes** in the post-pandemic environment in order to improve prospects of businesses
- Proposals can also target **personal solutions** such as personal assistance, healthcare, support to the elderly and city dashboards
- They can address the challenge of higher reliance on existing infrastructure, the increased use of remote resources and the associated **cyber-threats**





HORIZON-EUSPA-2023-SPACE-01-42

## EGNSS - Closing the gaps in mature, regulated and long lead markets



TRL 7-9

Broadening the reach of EGNSS by supporting its **adoption in long lead markets** including rail, maritime inland waterways, fisheries and aquaculture, road and automotive, and aviation.

- Development of industry-accepted **certification and standardisation schemes** that exploit the use of EGNSS and its differentiators, as well as addressing certification bottlenecks
- **Rail safety critical applications** that support the rail network efficiency converging towards a pan-European EGNSS-based solution adoption
- **Road and automotive market**
- **EGNSS-supported operations** in coastal, harbour and **maritime** areas, including for energy production
- **Aviation**
  - **Integrations** of Dual Frequency Multi-constellation (DFMC) SBAS & Copernicus
  - **Drones' urban air mobility**, e.g. urban air deliveries trough EGNSS supported by EO data
- Proposals could explore **synergies with Copernicus and/or GOVSATCOM**, addressing the certification and regulatory aspects that their use might bring

Innovation Action

For the full description of the topics please see the Horizon Europe 7. Work Programme 2023-2024



7  
mEUR

## Copernicus-based applications for businesses and policy-making



- Enhance existing applications or develop new applications and products relying on Copernicus data and services
- **Support policy making and implementation** such as for the Green Deal, Destination Earth or the Horizon Europe missions
- Increase the **integration and uptake of Copernicus** data, services and applications in the European economy, in particular the European data economy
- **Emergency** service: anticipatory actions, emergency management and recovery
- **Security** service: support resilience to major pan-European crises
- **Marine** service: biodiversity, spatial planning, fisheries, coastal to shore services and blue carbon farming
- **Climate change** service: forecast and preparedness to counteract extreme climate events, data integration
- **Land** service land use and/or natural resources planning, as well as citizen awareness and reporting
- **Atmosphere** monitoring service: air quality, wildfires monitoring and greenhouse gases

Research &  
Innovation Action

6  
mEUR

## Designing space-based downstream applications with international partners

- **Use of EGNSS and sharing of expertise** with public and/or private entities to introduce EU-space based solutions
- The **use of Copernicus** data, to develop jointly algorithms, services and/or products
- The **combined use of EGNSS and Copernicus** to develop innovative downstream applications
- **Create business-oriented partnerships** between European industry and international partners
- Exploit **integration of EO data with positioning data and ICT** (e.g. cloud computing) from international partner countries
- Proposals dealing with EGNSS are encouraged to **involve relevant organisations on the European side** (e.g. EASA, ESSP, EMSA)
- Participation of a partner from a country that has signed a Copernicus Cooperation Arrangement is required for Copernicus-based applications

*Legal entities established in countries that have signed an administrative cooperation arrangement on Copernicus data access and Earth observation data exchange are exceptionally eligible for Union funding: United States, Australia, Ukraine, Chile, Colombia, Serbia, African Union member states, India and Brazil*

*For the full description of the topics please see the Horizon Europe 7. Work Programme 2023-2024*

**Research &  
Innovation Action**





# EU GOVSATCOM for a safer and more secure EU

TRL 7-9

- **Development of use cases** in the area of surveillance, crisis management and key infrastructure;
- Development and/or improvement of **GOVSATCOM demonstration terminals** enabling end-to-end validation of the first services provided by the GOVSATCOM HUB
- Identify **GOVSATCOM tools** required for the development of the GOVSATCOM terminals
- Demonstrate the access of users to an early EU GOVSATCOM service, showcasing the benefits and **fostering user uptake**

Proposals should select a GOVSATCOM use case and support the adaptation of existing SATCOM terminals to carry out the demonstration and ensure engagement of users:

- ❖ **Disaster response or Emergency services** / ambulances (for Civil Protection)
- ❖ **Rail traffic management** to improve the limitations linked to geographical barriers (e.g. valleys, cities)
- ❖ Telemedicine for **humanitarian aid**

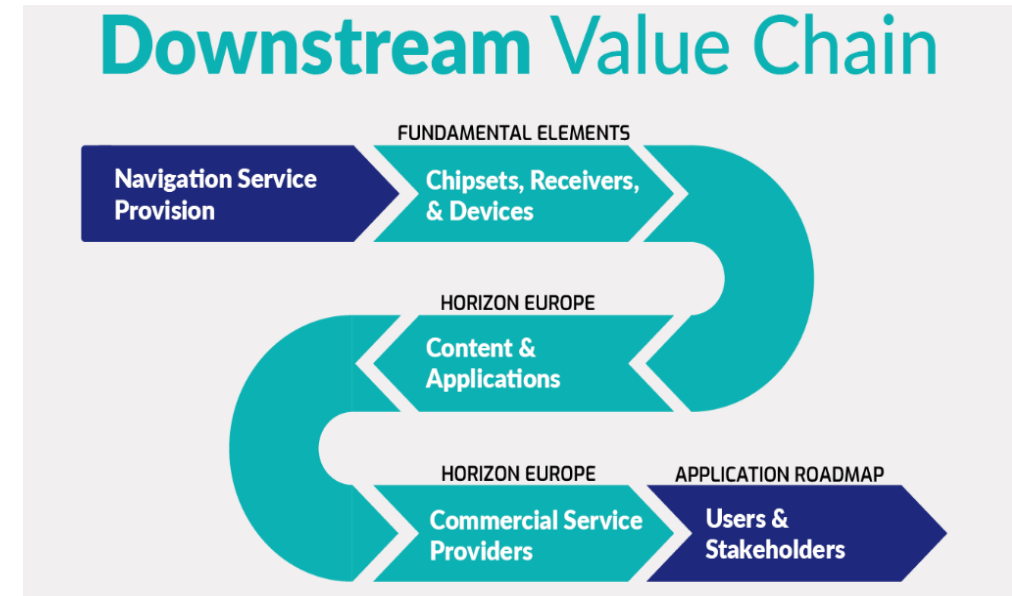
# Fundamental Elements



Fundamental  
Elements



- Budget 2021-2027: EUR 43 million
- Objectives:
  - Facilitating the **adoption of the European GNSS**, building on their innovative services and differentiators;
  - Improving the **competitiveness of EU industry**;
  - **Addressing user needs** in priority market segments;
  - **Maximising benefits** for European citizens.



<https://www.euspa.europa.eu/opportunities/grants>

# CASSINI - Matchmaking Initiative

## Matchmaking Themes for 2023

- 5) Smart Logistics & Transportation
- 6) Smart Cities & Urban Mobility
- 7) Managing and protecting Earth's resources from Space
- 8) Next-gen spacecraft manufacturing and operation

## The next matchmaking events

- 4YFN Barcelona, February 2023
- **Tech Sweden, Stockholm, May 2023**
- **Latitude 59, Tallinn, May 2023**
- Entrepreneurship Day, Prague, June 2023
- EBN Congress, Brno, June 2023

CASSINI Matchmaking -  
Open Call 2023

Register now  
Open until 15 June 2023



The banner features the European Union flag logo and the text 'CASSINI Matchmaking' in the top left. The central text reads 'Connecting Space Business Pioneers' with a background image of a space station. On the right, a list of participants is shown: 'SME Companies (<250 employees, < 50 Mio EUR)', 'Corporates', and 'Investors'. The hashtag '#EUSpace' is in the bottom right corner.

CASSINI Matchmaking

Connecting **Space Business Pioneers**

- SME Companies (<250 employees, < 50 Mio EUR)
- Corporates
- Investors

#EUSpace

<https://www.cassini.eu/matchmaking/topics#newtopics>





# myEUspace competition for startups innovating on the use of EU space data



**Development of commercial solutions**  
(mobile apps, wearables, robotics etc.)  
using **EU space data** and their **synergies**



Open to **entrepreneurs, start-ups, scale-ups** or **university students** coming from EU Member States, Norway, Switzerland or Iceland

## Participants can apply with...

- a **theoretical idea** with a high market potential 🖱️ Deadline for submissions: **30 November 2022**
- OR a **prototype** ready for commercialisation 🖱️ Deadline for submissions: **10 February 2023**
- OR a **product** to scale-up their business? 🖱️ Deadline for submissions: **25 April 2023**

## ...in one of the following innovation areas:

### Space my Life

Consumer solutions addressing everyday life (sports, health, tourism, gaming etc.)

### Our Green Planet

Solutions addressing environmental challenges, sustainable life and the green transformation of corporates

### Dive in Deep Tech

Solutions combining EU space data with deep technologies (AI, quantum, blockchain, metaverse etc.)



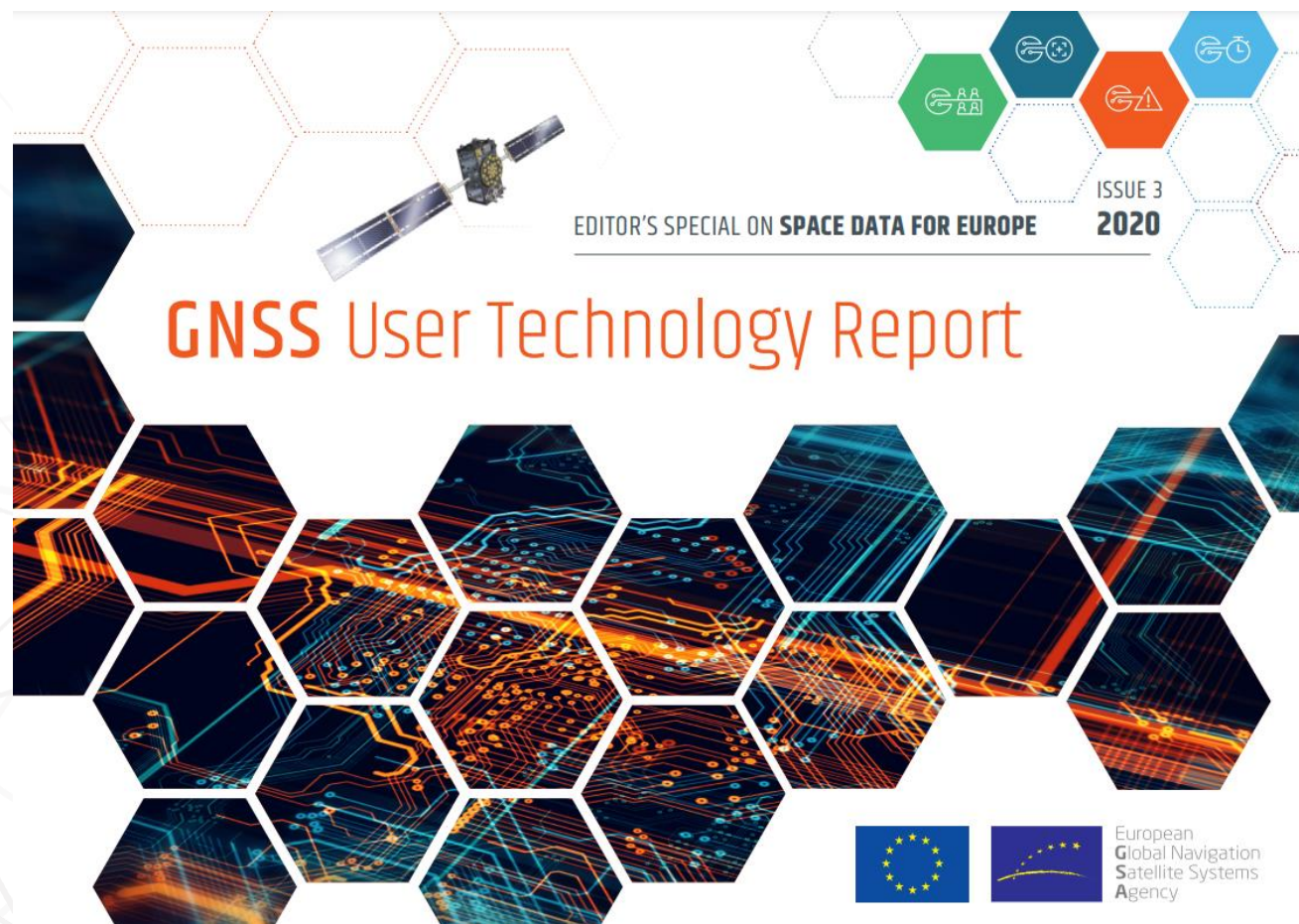
**€ 1.000.000  
PRIZE POOL**



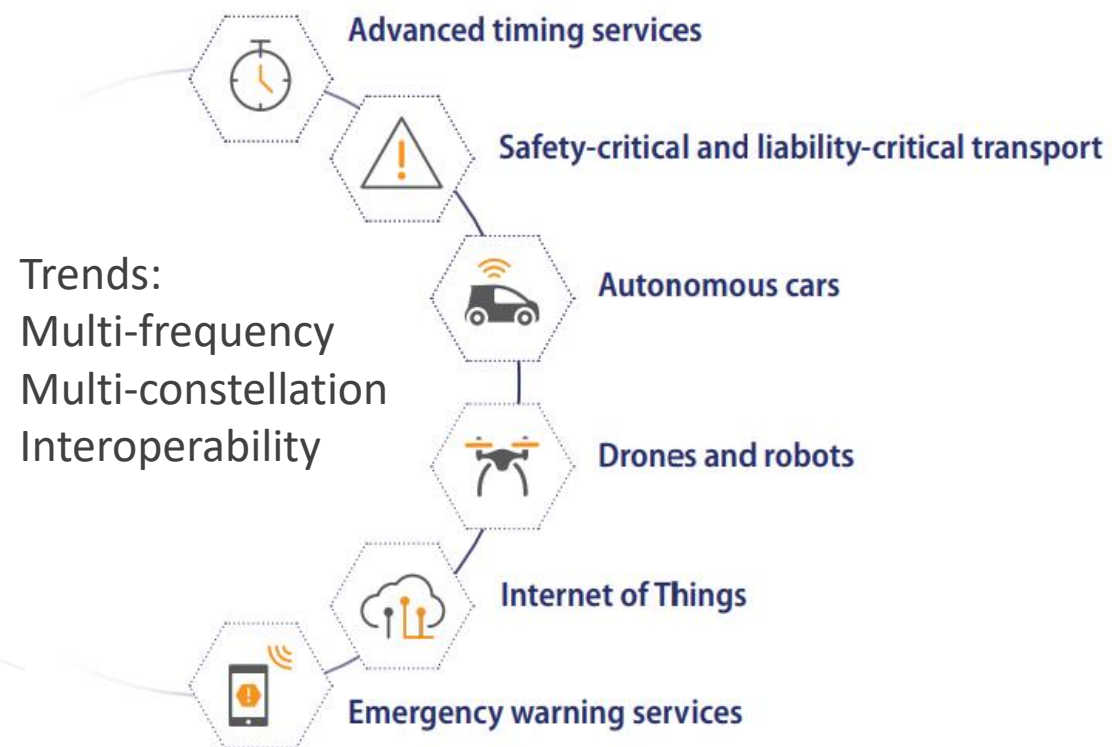
**30  
AWARDS**

[myeuspacecompetition.eu](https://myeuspacecompetition.eu)

# GNSS Technology Report



Emerging applications needs are driving the evolutions of GNSS



# Market intelligence for GNSS and EO



2022 / ISSUE 1

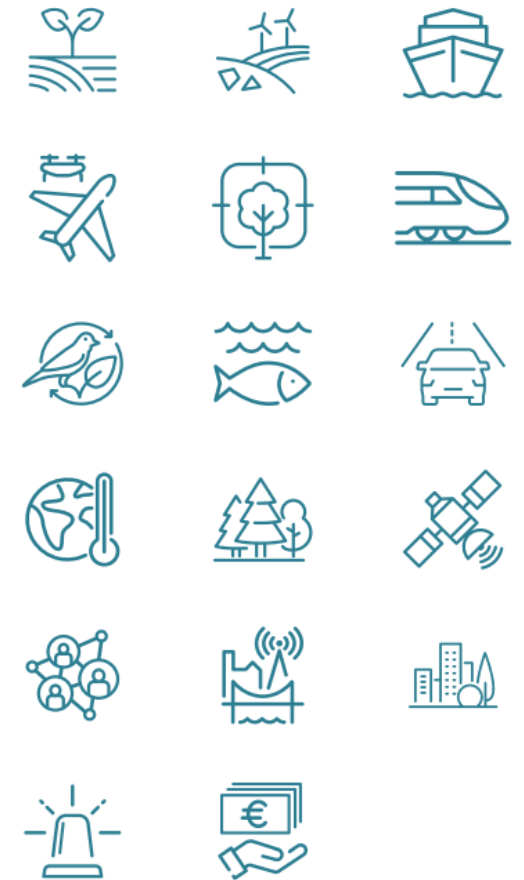
## EUSPA EO and GNSS Market Report

Technology (ENG)

***“The global GNSS downstream market revenues from both devices and services will grow from almost €200 bn in 2021 to €500 bn in 2031 ”***

EDITOR'S SPECIAL

Innovative Solutions for Health



17 different Market Segments for  
GNSS services analysed

Available at EUSPA website:

[https://www.euspa.europa.eu/sites/default/files/uploads/euspa\\_market\\_report\\_2022.pdf](https://www.euspa.europa.eu/sites/default/files/uploads/euspa_market_report_2022.pdf)



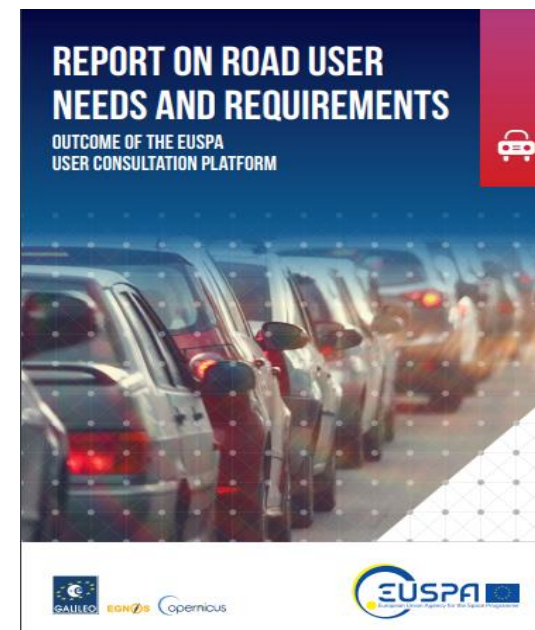
# EUSPA User Consultation Platform (UCP)

Join us!

Regular consultations with the users about their needs and requirements that help shape the evolution of the EU Space Programme

## UCP topics and outcomes

- User needs and requirements discussion (new requirements, suggestions for modifications, corrections, etc.)
- Market and Technology trends
- Use Cases and Success Stories
- R&D&I priorities
- Synergies among EU Space components
- Report on user needs and requirements (RURs)



Next UCP planned for Q4 2023 and will include the road and automotive market segment





Follow what is  
coming up

**WATCH THIS SPACE**

your #EUSpace update

Weekly newsletter:

<https://www.euspa.europa.eu/subscribe-our-newsletter>



Linking space to user needs

Get in touch with us

[www.euspa.europa.eu](http://www.euspa.europa.eu)



The European Union Agency for the Space Programme is hiring!

Apply today and help shape the future of #EUSpace!