

EU Space for Users: User Consultation Platform Plenary

European Commission



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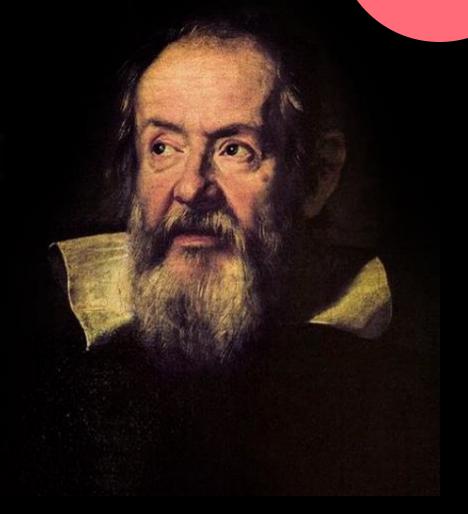
8th November 2023



S P A C E W E E K 2023

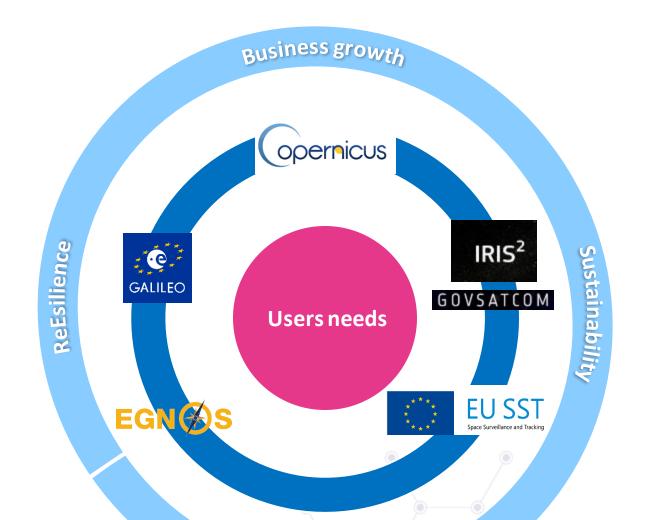
All **truths** are easy to understand once they are discovered; the point is to **discover them.**

– Galileo Galilei



User Consultation Platform: the voice of the users







The User Consultation Platform 2023: needs for all space components for the first time





opernicus



GOVSATCOM













Mass Market **Road Transport** Aviation Rail Maritime Agriculture Surveying & Mapping Timing & Synchronisation.





2018 - UCP 2nd edition

Mass Market **Road Transport** Aviation Rail Transport Maritime and Inland Warerways Agriculture Surveying & Mapping Timing & Synchronisation

2020 UCP 3rd edition (online)

Mass market Road **Aviation & Drones** Rail Maritime & Ocean Monitoring Agriculture & Forestry Geomatics & Urban Planning **Public Transport** Natural Disasters & Emergency Critical Infrastructures Space Users Governmental.

2022 UCP 4th edition (Prague)

Aviation & Drones Maritime & Fisheries **Emergency & Humanitarian Aid** Insurance and Finance Infrastructure including 5G **Energy and Raw Materials** Consumer solutions

2023 UCP 5th edition (Sevilla)

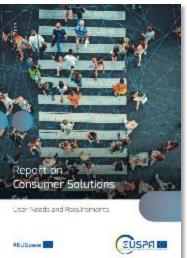
Agriculture and Forestry **Biodiversity and Climate** Road and Automotive Rail Public transport **Resilient Societies** Space SST

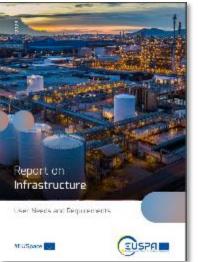


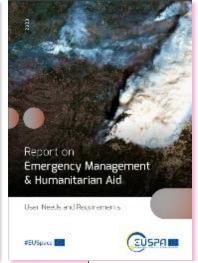


Needs and requirements from UCP are documented as inputs to the programme











6 USER REQUIREMENTS SPECIFICATION

The diagram provides a summation of the explorement cleanith of its series ST and SD respectively as CMS in rection is a retire CD in section (LT). The contact of this section will be explained, completed and numerical by DDPA in the mechanisms of the PDP based on the media of harbon involvations. Socialist are valorated in the finess at the DDP.

6.1 Synthesis of Requirements relevant to GNSS

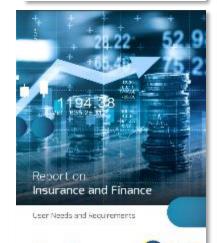
6.1.1 GNSS user requirements for Landstides and terrain deformation monitoring

n n	Envelopina	Type	Anne
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10079 DN ID FMH. 2007	The readings could be righted to local	Technology (manage)	leare

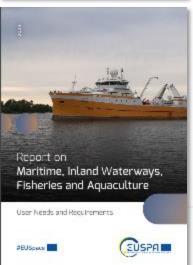
6.1.2 GNSS user requirements for Post-crisis damage assessment and building inspection.

	Envigence	Type	Commo
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CONTRACTOR DESCRIPTION	The fractional diself-entropy recording the indicators that for the or the momentum date places and a second record.	Peromenos tacoursos	PC211
CONTRACTOR DISCORDER	The Forcestal accuracy inductor timm detailed building and research	Perchanos secursos	PC211
DISPARENTE BROKEN	The herbox sociately should be 3-filling distance bunding and stream.	Perchanos secursos	PCH1
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COLOS IDEAS.	The system should be used on a lit subset energies	Forthermone (and drifts)	leant

Point







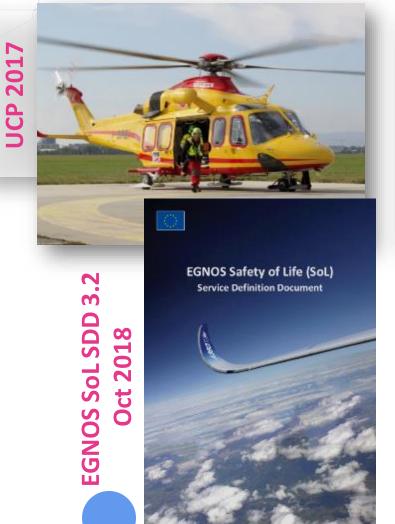


Implemented users needs from UCP: examples



EGNOS for non ATS environments Galileo Remote beacon activation

Copernicus for drone Safety case







User Consultation Platform 2023 8 sessions, 10 market segments

New!







New!

Road and Automotive







Rail



Space



SST



Resilient societies





















UCP 2023 Highlights

Agriculture & Forestry, Environment, Resilient Societies





- Trends: Food security, digitalization, sustainability and climate change
- Regulation compliance: CAP, EU green Deal, EUDR
- All GNSS applications (machinery guidance or automation, livestock) require sub-meter accuracy
- **EO:** need for scalable approaches for forest management



- **Trends:** climate informed decision making, ESG reporting
- Regulation: Green Deal, Corporate
 Sustainability Reporting Directive, EUDR
- Location of assets facing a climate risk,
 GNSS for supply chain traceability
- **EO**: more granular flora and biodiversity mapping, near real time, standardised products tailored to vertical segment.



- Trends: digital transformation of customs, UneXploded Ordnance (UXO) and cultural heritage
- Customs -> authentication, m-level.
- EO supports cultural heritage, m accuracy
- UXO -> Satcom and accuracy better than 10cm

UCP 2023 Highlights Automotive, Rail and Public Transport



- •Trends: Adapting to Climate change, Cooperative, connected & automated mobility, urban mobility
- •GNSS: Integrity, dm accuracy, authentication, high availability for automated vehicles
- **EO** for sustainable infrastructure planning/management, tailored offer
- •Satcom for seamless connected mobility



- Trends: Green Deal and ERTMS.
- EGNOS service rail demonstrator for ERTMS by 2025
- **Copernicus** to support infrastructure optimisation
- **Satcom** for Future Rail Mobile Communication system





- Trends: Green Deal,
 Autonomous shuttles & on demand public transport,
- Meter accuracy and high availability in urban areas.
- EO for infrastructure maintenance

UCP 2023 Highlights Space and SST users







- Trends: New space is driving the market (mega constellative reusable launchers, extra orbital activities) with reduced costs and the increased use of GNSS
- GNSS Needs vary: cm position, sub ns time accuracy for LEO radio occultation, 10m accuracy for GEO and MEO telecom satellites
- Secure satcom supporting safety and security of space infrastructure.
 - **Basic/public services**: additional routine screening, analysis of primary asset information, enhancement of EU SST conjunction analysis
- Advanced/commercial services: enhanced manoeuvres support and active debris removal
- Different points of view on marketplace.
- EU SST as public catalyst for the EU industry
- Results will be shared within the EU Industry and Start-Ups
 Forum on STM (EISF)

The floor is yours





Georg Larscheid Vice President Digital Business CLASS



Laura Moreno EarthPulse



Ana Luz Co-founder and CEOProvincial Head of Trasiistainability Director Traffic General Directorate



Valentín Alfaya Ferrovial



Valentin Barreau **Head of SNCF** Localisation **SNCF**

Rail



Adam Śmiałek **Space System Engineer ICEYE**

Space



Michael Doherty Technology expert CBRA













Road and Automotive



Public Transport





SST



Resilient societies





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