The EU Space Programme Horizon Europe, a programme of the European Union

The EU Space Programme

The EC implements the EU Space Programme, covering Galileo, EGNOS, Copernicus, Space Situational Awareness (SSA) and EU Govsatcom

THE EUROPEAN SPACE PROGRAMME

Copernicus

Earth Observation (EO) and monitoring based on satellite and non-space data.

Nr.1 world provider of space data an information.

Galileo

Global satellite navigation and positioning system (GNSS).

10% of the EU GDP is enabled by satellite navigation.

EGNOS

Makes
navigation
signals
more accurate
and reliable.
Operational in
300+ airports
in 23 countries.

SSA

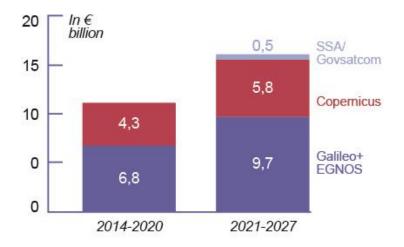
Space situational awareness, monitors and protects space assets. Providing surveillance and tracking services to 129 European satellites.

EU GOVSATCOM

Secures satellite communications for EU security actors.

Cross cutting activities:

- ☐ Access to space
- ☐ Foster uptake
- **□** Governance
- ☐ Security and autonomy
- ☐ International Cooperation

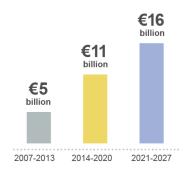


The EU Space Programme boosts the EU economy

30+ EU-ownded satellites in orbit for **EO** and **GNSS**



EU Investment in space



proposed
budget for
2021-2027,
commitment
of €14.6
billion

European space industry supports **250.000+ jobs**



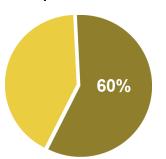
Global GNSS and EO enabled revenues €200 billion in 2021 - Set to reach

- Set to reach almost **€500** billion over the next decade

3+ billion Galileoenabled
Smartphones



Copernicus data is used by 60% of the European EO companies



2021 gobal turnver for EO-derived data and services is €2.8 billion

It also fosters a strong and innovative spacebased industry

The EU Space Programme provides established space technology, data and services indispensable in the lives of Europeans today. In the future, it will address an increasing range of EU ambitions and priorities:



Competitive edge:

Completion of current satellite constellation, development and launch of next-generation satellites



Research & innovation:

the ambitious research and innovation programme Horizon Europe



Fighting Climate

Change:

Monitoring biodiversity, environmental compliance and CO2 emissions (Paris Agreement)



EU as a global actor:

Support disaster relief, humanitorian assistance and security operations

Some concrete areas of application

Agriculture



EU Space enables precision agriculture and integrated farming solutions.

It helps farmers increase yields by 10%+ and save 20%+ on fertiliser, fuel and pesticides.

It enables safe landings and autonomous machines.

Response to Natural Disasters



EU Space supports rescue operations during floods, fires, earthquakes and hurricanes as well as man-made disasters.

Smart Cities



EU Space is crucial for urban mapping, planning and infrastructure monitoring, notably enabling better urban transport and smart waste management.

Renewable Energies



EU Space supports the siting of renewable energy facilities assessing potential energy generation and environmental impacts.

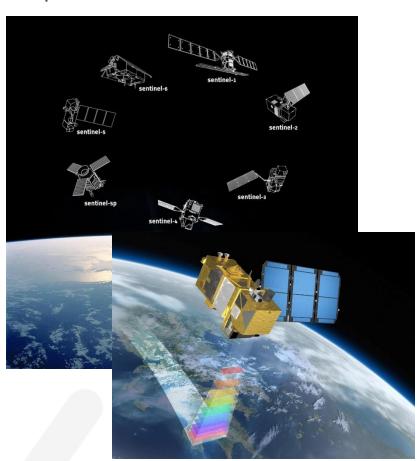
Health



EU Space helps to forecast air quality and UV radiation having an impact on our health.

Copernicus

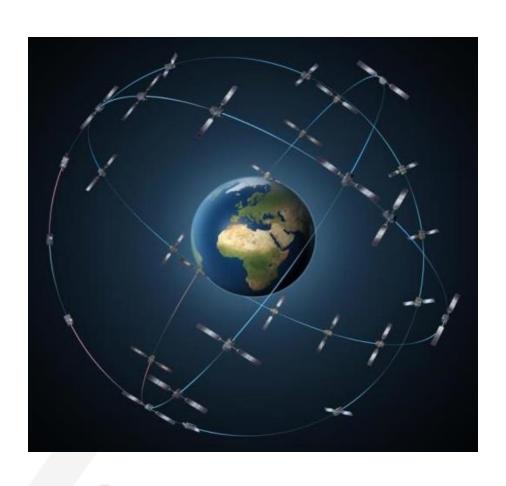
Copernicus' Satellites: the Sentinels



- Land Monitoring Service
- Marine Environment Monitoring Service
- Atmosphere Monitoring Service
- Climate Change Service
- Security Service
- Emergency Management Service

free, full and open data policy

Galileo: EU's positioning, navigation and timing capability

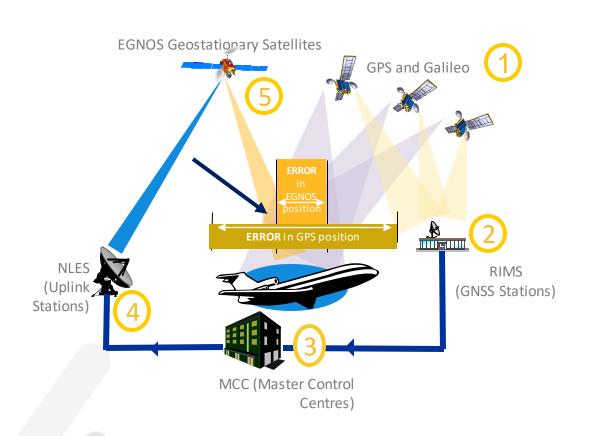


- Open Service
- High-accuracy service
- Signal authentication service
- Public regulated service (PRS)
- Emergency service
- Timing service
- Search and rescue support service (SAR)
- Integrity monitoring services
- Space weather information

(Available - In development)

EGNOS enhances GPS and Galileo in Europe

EGNOS improves position accuracy and provides integrity



Fields of application

- Landing approaches of aircraft
- Precision agriculture
- Toll systems (e.g. Slovakia)
- Aviation and maritime (incl. ports)
- Tracking the transport of hazardous materials
- Surveying

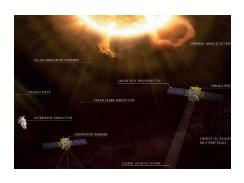
SSA: An autonomous capability to monitors and protects space assets

Space Surveillance and Tracking (SST)
Services



- Risk assessment of collision, collision avoidance
- Detection and characterisation of in-orbit fragmentations, break-ups or collisions
- Risk assessment of the uncontrolled re-entry of space objects and space debris
- Space debris mitigation and remediation

Space Weather Activities



 Space Weather services for civil protection and protection of various sectors (e.g. transport)

Near Earth Objects Activities



- Mapping and pooling Member States capacities
- Development of a routine rapid response service
- Creation an European catalogue

Govsatcom: EU's secure access to space communication for public service



- Will provide government-authorised users a reliable and secure access to space communication with emphasis on emergency and security related activities
- Ensuring long-term secure, reliable and cost-effective SATCOM services to EU and Member State authorities
- ... through pooling and sharing of governmental and commercial SATCOM capacities, assembling users and by seeking civil-military synergies
- ... enhancing the EU's strategic autonomy and its non-dependence on third parties

IRIS2: EU space-based secure connectivity system

Ensure reliable, secure and cost-effective communications services for the protection of critical infrastructures, surveillance, external actions and crisis management



- Innovative multi-orbital space-based connectivity system
- Governmental infrastructure: for **reliable**, **secure and cost-effective communications** services
- © Commercial infrastructure: high-speed broadband and seamless connectivity throughout Europe, removing dead zones

IRIS² missions & use cases





Connecting key infrastructures

Command and control of smart grids (energy, finance, health, data centres...)

Management of Infrastructures (air, rail, road, traffic management)

Galileo (signal augmentation), Copernicus (data relayer)

Institutional communications (Embassies, EUROPOL,...)

Telemedicine



Crisis Management and external actions

Civil protection

Common Foreign & Security Policy -Common Security & Defence Policy

Humanitarian aid

Maritime emergencies (search and rescue)



Surveillance

Border and remote areas surveillance

Remote Piloted Aircraft systems

Maritime surveillance

> Arctic region coverage

Complement to military missions SECURE CONNECTIVITY INITIATIVE: MULTI-ORBITAL SPACE-BASED STATE-OF-THE-ART CONNECTIVITY SYSTEM



Allow Mass-market service

Mobile Broadband

Fixed Broadband

Satellite Trunking for B2B services

Satellite access for transportation – for ships, airplanes, drones, connected cars

Reinforcement of terrestrial networks (resilience) – as an alternative in cases of disruptive events

Cloud based services

EUROQCI



Encryption capability

Government and institutional users

Data centres

Satellite communication networks

Terrestrial communication networks

Banking industry

Other industries

Students

Opportunities relevant to students

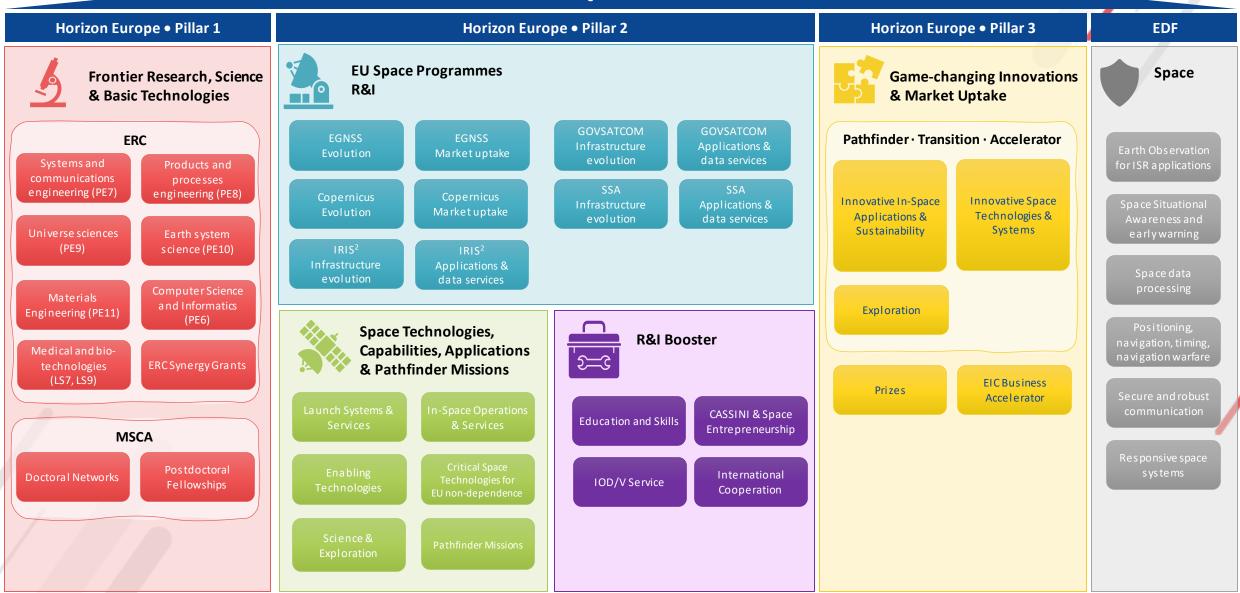
- Joining the EU: all competitions are available here: https://eu-careers.europa.eu/en
- The IOD/IOV opportunities : see https://defence-industry-space-ec.europa.eu/eu-space-policy/eu-space-research/orbit-demonstration-and-validation-iodiov_en
- CASSINI Hackatons: https://www.cassini.eu/cassini-initiative
- EUSPA Space Academy: free of charge, online course, open to everyone to learn more about the EU Space Programme:

https://www.euspa.europa.eu/spaceacademy/

Space R&I under Horizon Europe Horizon Europe, a programme of the European Union

Space in Horizon Europe

EU Space R&I



Pillar I – ERC grants

Life Sciences

- LS1 Molecules of Life: Biological Mechanisms, Structures and Functions
- LS2 Integrative Biology: From Genes and Genomes to Systems
- LS3 Cell Biology, Development, Stem Cells and Regeneration
- LS4 Physiology in Health, Disease and Ageing
- LS5 Neuroscience and Disorders of the Nervous System
- LS6 Immunity, Infection and Immunotherapy
- LS7 Prevention, Diagnosis and Treatment of Human Diseases
- LS8 Environmental Biology, Ecology and Evolution
- LS9 Biotechnology and Biosystems Engineering

Physical Sciences & Engineering

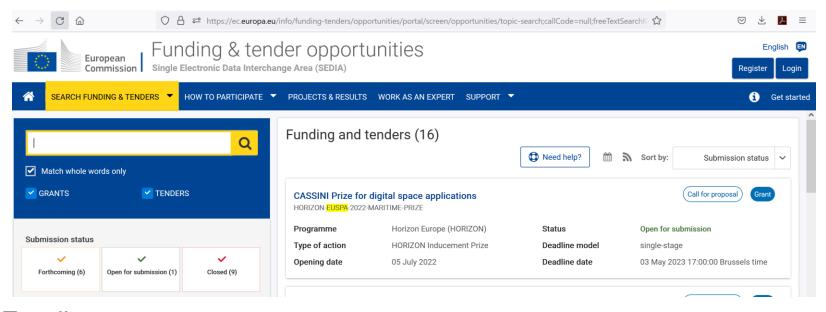
- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical and Analytical Chemical Sciences
- PE5 Synthetic Chemistry and Materials
- PE6 Computer Science and Informatics
- PE7 Systems and Communication Engineering
- PE8 Products and Processes Engineering
- PE9 Universe Sciences
- PE10 Earth System Science
- PE11 Materials Engineering

Social Sciences and Humanities

- SH1 Individuals, Markets and Organisations
- SH2 Institutions, Governance and Legal Systems
- SH3 The Social World and Its Interactions
- SH4 The Human Mind and Its Complexity
- SH5 Texts and Concepts
- SH6 The Study of the Human Past
- SH7 Human Mobility, Environment, and Space
- SH8 Studies of Cultures and Arts

Pillar II

Publication (HaDEA & EUSPA calls) on the <u>EU Funding & Tender Portal</u> at https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home



- Funding rates
 - ➤ Research and Innovation Actions (RIA): 100%
 - ➤ Innovation Actions (IA): up to 70%
 - ➤ Coordination and Support Actions (CSA): 100%
- Consortia: must include min 3 entities from min 3 countries (countries: see
 https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/list-3rd-country-participation horizon-euratom en.pdf)

WP 2023-2024 – Cluster Digital, Industry, Space – Destination 5 Space

"Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data"

Implemented through:

- 1. Calls from HaDEA
 - Call HORIZON CL4 2023 SPACE 01: will open on 22 Dec 2022, with deadline 28 March 2023
 - Call HORIZON-CL4-2024-SPACE-01: will open on 21 Nov 2023, with deadline 21 March 2024
- 2. Calls from EUSPA
 - Call HORIZON-EUSPA-2023-SPACE: will open on 24 Oct 2023, with deadline 14 Feb 2024
- 3. Tenders from ESA
- 4. Tenders from the European Commission

Published at: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-7-digital-industry-and-space_horizon-2023-2024/en.pdf

1- Competitiveness

The **Future EU Space Ecosystem** is a highly automated, flexible, sustainable and economically viable space infrastructure enabling growth of innovative applications and competitive services

Resilience of space assets

- ✓ Establishment of services for maintenance & upgrade
- Enhanced flexibility, security and scalability

Non-dependence on technology & capability

- ✓ Key technology maturation
- ✓ Support to game-changing approaches and solutions
- ✓ Contribution to standardisation activities



Sustainability & protection of the space environment

- ✓ Reduction of space debris and use of resources
- ✓ Active debris removal.
- ✓ Promotion of re-usability

Competitiveness

- ✓ Support to customer-drive ideas and NewSpace actors
- ✓ Creation of confidence in & visibility for EU actors
- ✓ Fostering of new commercial and value-added services

2 – Access to Space

- Access to space is strategic for Europe
- (Micro-) Launcher are a globally ultra-competitive environment
- Necessity to support a cost-efficient, responsive and flexible access to space
- Horizon Europe programme has four R&I priorities:
 - Innovation for launcher competitiveness targeting initial operational capability by 2030
 - Disruptive concepts for access to space starting at low technological readiness levels
 - Fostering and enabling new commercial space transportation solutions
 - Modern, flexible and efficient European test, production and launch facilities, means and tools



Rapidly improve launch competitiveness, in terms of cost and increased flexibility



Stimulate the development of new space transportation solutions, including through the emergence of new launch systems



3 - Quantum

- Quantum theory explains the nature and behaviour of matter and energy on the atomic and subatomic levels
- "Atom interferometry" can be used to make highly sensitive gravity detectors, accelerometers and gyroscopes
- A whole range of applications has emerged in science but also for our daily life like laser, electronics and medical imagery
- The EU must seize this opportunity and make the best and most strategic use of quantum technologies for space
- Promotion of developments for
 - Secure communication, time and frequency services
 - Earth sensing and observation
 - Use of quantum computing for space data processing and mission planning



Support the EU space policy and the EU Space Programme



Reinforce EU non-dependence for the development of EuroQCI (the EU Quantum Comm. Infrastructure)



Build a dynamic and innovative industrial ecosystem in Europe

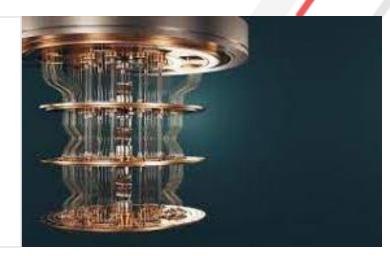
"Europe should invest massively in quantum technologies. This is a matter of technological sovereignty. Quantum could have important applications in the space domain like in encryption or in the mapping from space of the underground landscape."

> Commissioner T. Breton, 22 January 2020

3 – Quantum

Quantum Space Gravimetry

- Satellite gravity missions provide unique observations not yet covered by other Earth observation missions
- Quantum technology is a game-changer to monitor the Earth and predict climate change and future disasters
- HE project CARIOQA develops an engineering model of the atomic accelerometer for a future mission



Quantum Key Distribution

- European Quantum Communication Infrastructure (QCI) develops a terrestrial and space segment
- The **space segment based on satellites** to overcome the limitations of ground-based segments
- Objective is to mature the new technologies and perform the qualification for space and ground



4 – Copernicus Services

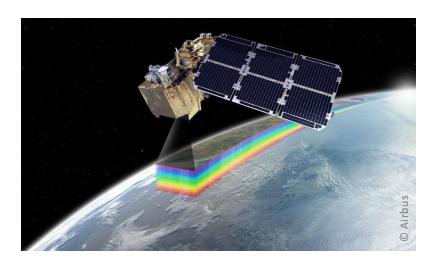
- Through Earth Observation (EO) satellites the status of and changes in Earth's systems can be monitored and assessed
- Copernicus serves as an independent and powerful European
 EO solution with services to benefit all European citizens
- Its own fleet of Earth observation satellites (Sentinels)
 provides global data free of charge
- Additionally, the commercial market demand for EO products is expected to grow quickly in the next years with a focus on
 - Advanced, very high-resolution satellite imagery and
 - Affordable, high-resolution, high-revisit products



Preparing the evolution and expansion of Copernicus to address EU policy and user needs



Underpin competitiveness and contribute to the integration of space into society and the economy



5 – Space science & technological non-dependence

- Space increasingly represents an invaluable asset in many sensitive and high-stakes matters
- COVID-19 pandemic has shown the necessity to strengthen Europe's industrial base
- Space-grade electronic devices and other space systems are often subject to restrictive trade rules
- To be non-dependent with a resilient and flexible supply chain, Europe has to develop its own domestic production of critical technologies

Achieving strategic autonomy while preserving an open economy is a key objective of the EU and calls for developing EU autonomy in the space sector.

(EU Council conclusions, EUCO 13/20 Oct 2020)



Reduce the dependence on critical technologies and capabilities



Develop or regain in the medium term the EU capacity to **operate independently** in space



Enhance the technical capabilities and overall competitiveness of European space industry



Open new competition opportunities for European manufacturers



Improve the overall European space technology landscape and complement and create synergies

6 - Space Situational Awareness (SSA)

- SSA is a component of the **EU Space Programme** (Regulation (EU) 2021/696)
- SSA means a holistic approach, including comprehensive knowledge and understanding, of the main space hazards, encompassing:
 - collisions between space objects
 - fragmentation and re-entry of space objects into the atmosphere
 - space weather events
 - near-Earth objects



<u>Space Situational Awareness (europa.eu)</u>

7 – Applications for Galileo, EGNOS and Copernicus, including Galileo PRS & GOVSATCOM

- R&I is necessary to strengthen and evolve European space assets and value-added services using their synergies
- Activities target innovative applications in



Agriculture: Optimisation of fertiliser, fuel, pesticide and water use, assurance of food security and traceability



Security and emergency: Provision of crucial information and assistance in disaster mitigation, prepardness & recovery,



Digital innovation: Applications supporting smart cities, urban planning, smart waste management



Climate change: Monitoring Earth's changes and support the supply of clean, affordable and secure renewable energy



Health: Forecasting UV radiation or air pollution levels enable the use of autonomous robots in support of humans



Provide Europe with cutting-edge space-based services



Evolve and improve to continue responding to today's evolving challenges and market needs



Build a dynamic and innovative downstream ecosystem in Europe





8 - Cassini (see https://www.cassini.eu/cassini-initiative and www.cassini.eu/cassini-initiative and www.cassini.eu/cassini.e

The **CASSINI Actions** covers the whole entrepreneurship cycle:

- Cassini Facility deploys a 1€ B investment for Venture Capital funds interested in investing in EU-based companies in the space sector (up- and downstream)
- CASSINI Matchmaking supports start-ups, scale-ups and SMEs by connecting them with potential investors and/or corporate partners
- The IOD/IOV service enables new technologies to be tested in orbit
- CASSINI Business Accelerator seeds grant and six months of business acceleration for space-based start ups
- CASSINI Prizes trigger entrepreneurs to develop close-to-market digital applications based on EU space data
- EU-wide **CASSINI Hackathons**: an opportunity to stimulate entrepreneurship and to develop ideas for digital applications building on space data



The **EIC Actions** identifies & develops breakthrough technologies:

- The EIC Pathfinder & Transition programmes support research teams exploring bold ideas at low TRLs for radically new & emerging breakthrough technologies, with grants of up to 4€ M
- Providing grant funding and equity investments for individual start-ups and small companies with TRLs above 5 to develop and scale up innovations



9 – EGNSS Upstream

- Today, the use of a Global Navigation Satellite System (GNSS)
 is deeply ingrained in our everyday lives
- The European GNSS encompasses
 - Galileo, a state-of-the-art global satellite navigation system
 - EGNOS, a regional satellite-based augmentation system
- Both services create extensive socio-economic benefits through a range of applications spanning numerous markets
- The Galileo infrastructure evolves with the arrival of the second generation of Galileo (G2G) satellites
 - Enabling diversification of downstream applications
 - Strengthening the robustness with frequency diversity, increased power, signal encryption & authentication features
 - Increasing the accuracy in time and position



Preparing the new generations on a user-driven basis, considering the technological progress



Addressing the vulnerability of the European supply chain by supporting the R&I of critical space components and technologies



9 – EGNSS Upstream

GALILEO TODAY



- 28 satellites in orbit
- Remarkable performance
- Strong link with users, market and industry
- Modernization on-going

10 – Secure Connectivity – IRIS²

Why IRIS²?
New satcom needs cannot be fulfilled by current EU assets



Increased level of threats of hybrid nature, incl. cyber



growing governmental satcom needs for secure, reliable and diverse services



need for EU based available solutions

11 - IOD/IOV

See https://defence-industry-space.ec.europa.eu/eu-space-policy/eu-space-research/orb/t-demonstration-and-validation-iodiov_en

- Validating concepts and testing innovative technologies in real conditions accelerates their entry into the market
- In-orbit testing is a costly and complex endeavour resulting in the infamous "valley of death" for many innovatiors
- This is why the EU started the IOD/IOV initiative enabling new technologies to be tested in orbit
- 1st call 2018, 2nd call 2020
 - 100+ proposals from various European entities
 - Technology innovation for EO, PNT, SatCom, STM and more
 - The first selected IOD/IOV experiment **UPMSat-2** was launched incl. six innovative payloads



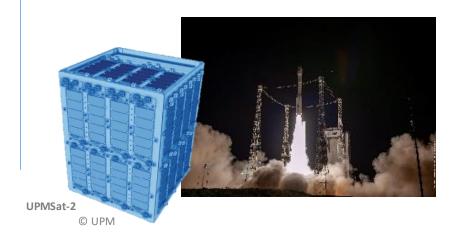
Ensure the global competitiveness by allowing technologies to be effectively tested in orbit



Provide cost-effective services based on EU solutions



Prepare a generation of European engineers with hands-on experience



Pillar III - EIC

Pathfinder (TRL1-4)

- For consortia
- Early stage research on breakthrough technologies
- Grants up to €3/4 million

Transition (TRL 4-6)

- For consortia and single entities
- Technology maturation from proof of concept to validation
- Business & market readiness
- Grants up to €2.5 million

Accelerator (TRL 6-9)

- For individual SMEs
- Development & scale up of deep-tech/ disruptive innovations by startups/ SMEs
- Blended finance (grants up to €2.5 million; equity investment up to €15 million or above)

- Focus on breakthrough, game-changing, market-creating, deep-tech
- Mainly bottom up complemented by targeted funding on strategic technologies/ challenges
- Steered by EIC Board of leading innovators (entrepreneurs, investors, researchers, ecosystem)
- Business Acceleration Services (coaches/ mentors, corporates, investors, ecosystem)
- **Pro-active management** (roadmaps, reviews, reorientations, etc) with EIC Programme Managers
- Fast track access to Accelerator for results from EIT, EIC Pathfinder

The Large Scale Skills Partnership in the space sector

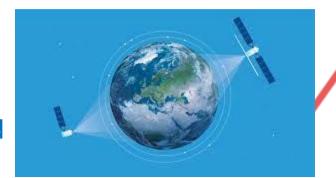


Background

- The EO4GEO Alliance (<u>www.eo4geo.eu</u>) was established in 2022
 - Governance based on a Network Agreement.
 - Objectives defined in the EU Sector Skills Strategy
- It evolved towards the new Large Scale Partnership on Space Data, Services and Applications – SPACE4GEO, with official launch on 25 April 2023
- SPACE4GEO is complementary with the existing LSP on Aerospace and Defence and with the LSPs representing other vertical sectors e.g. agriculture, tourism, health, insurance and finance, ...







Objectives

According to the EU Sectoral Skills Strategy



GOALS



market intelligence



mapping of skills needs



ESCO coordinated effort



curricula design & training offer



inspiring & innovative context



political commitment



strategic collaboration



Awareness engagement

STRATEGIC OBJECTIVES

OPERATIONAL

OBJRECTIVES

Understand evolving needs

Set up a skills intelligence mechanism to identify the skills and competences required and provide feedback on the evolving sector needs

To monitor the evolution of supply of and demand for education and training on a regular basis

To establish a trends watch system that alerts the community on emerging developments (e.g. technological, policy, economic, societal)

To assess supply and demand at regular intervals with the view to draw recommendations for the stakeholders of the sector

Harmonized curricula & user support

Develop a system to help and guide candidate learners in their skilling, upskilling and reskilling efforts

To design and regularly update a series of curricula and training materials, notably for added-value services and applications, covering different occupational profiles, and make them accessible to all stakeholders through a one-stop portal

To establish and operationalize a certification and accreditation mechanism for the training offered

To provide guidance for learners to define their own learning paths and to follow training actions

Engagement citizen

Encourage citizens' engagement, citizens' science practices and hands on activities enhancing the inclusion/ recognition of EO/GI applications value in everyday aspects of life

To promote and outreach to 'enduser' communities and to engage citizens through various events, especially at the local level, on job opportunities, internships and apprenticeships, roadshows

To provide a platform/forum for collecting and testing ideas from 'end-user' communities

To increase efforts to develop skills and stimulate innovation and entrepreneurship, to foster an attractive work environment.

Skills development in business sector & value chains

Facilitate and stimulate a more integrated approach on skills development across different value chains

To identify new vocational training initiatives to penetrate other sectors and application domains with a focus on societal challenges and the needs of citizens' daily life

To improve the uptake of EO/GI data and technologies through the upskilling and reskilling of professionals

To foster industry forums with other business sectors where skills development and transfer are considered (including digital skills, (big) data and analytics

Reinforce cooperation

Reinforce cooperation among stakeholders from the academic, private and public sectors on skills development and requirements

To keep a Body of Knowledge (BoK) for EO/GI operational, feed it with the results of the Technology Trends Watch and link it with other relevant BoK's, vocabularies and ontologies

To expand and maintain a rich toolset to support skills development, and to make it accessible and re-usable for all stakeholders

To animate and enhance a network of network approach and avoid fragmentation negative-side effects, bringing together stakeholders and user communities

Details



- The Sector Skills Strategy and Long-term Action Plan were released within the EO4GEO project
 - Embrace the full downstream ecosystem, including: Positioning, Navigation & Timing, satellite communications and, in general, all skills needed to implement current and future policies, i.e. EC Communication on Space Security and Defence.
- The LSP aims to raise awareness and attract talent to apply for jobs in a segment of the space economy which is recognised to have a strong growth potential for next decade(s).
- It currently has 49 members from 14 EU countries
 - Public Agencies, Academia, VET providers, companies, sectoral associations
 - Open to all key stakeholders in the sector (and beyond).

Members



















coordinator































































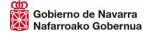














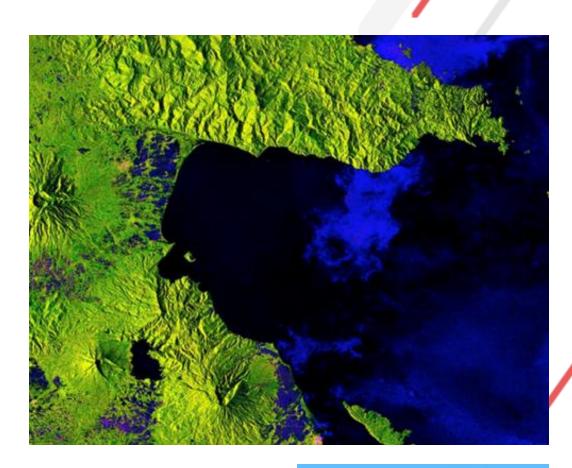




General commitments of Large-Scale Partnerships



- Ensure continuous exchange and cooperation among stakeholders on skills development and requirements
- Establish a shared understanding of the type and amount of skills needs and capacity requirements to achieve the high level vision of a successful space downstream and geoinformation sector
- Bridge the skills gaps and mismatches and an improved user uptake of space data, services and applications



Mount Mayon, Philippines
Copernicus Sentinel-1 data (2018)

Specific commitments of Large-Scale Partnerships

- space4geo
 Empowering space data users
- To monitor the occupational supply and demand to identify the skills and competences required and provide feedback on the evolving sector needs.
- To help and guide candidate learners in their skilling, upskilling and reskilling efforts, supporting them to access quality training.
- To facilitate and stimulate a more integrated and inclusive approach on skills development across different value chains (vertical sectors), at different levels, including local and regional level.
- To encourage citizens' engagement, citizens' science practices, recognizing the space & geoinformation applications' value in everyday aspects of life, and attracting new talents for emerging professions

Benefits of joining SPACE4GEO



Members of the Partnership have access to knowledge on upskilling and reskilling needs, advice on relevant funding instruments to boost the skills of adults in their regions and countries, and partnership opportunities within a growing community

By joining SPACE4GEO you can also:

- Participate in key discussion panels at the EU level
- Be part of a dynamic international partnership allowing you to access expertise to:
 - ✓ Set-up strong transnational consortia to submit proposals for funding
 - ✓ Participate to **tenders and procurements** with the right partners
 - ✓ Submit offers for commercial exploitation of added value services and training
 - ✓ Propose and develop initiatives to mainstream the results at national and regional level
- Be part of a recognised brand acting collectively towards relevant institutions and reaching out to key stakeholders with a stronger impact
- Have visibility on the Partnership website and promote your activities via the channels operated by the Partnership, including social media, newsletters, sectoral events of interest

How to join?

space4geo Empowering space data users

Connect to the Pact for Skills Application Form

Answer question 1
Answer question 2

Would you like to:

- Sign the Pact for Skills charter and make a specific commitment for your organisation
 - Register a new partnership under the Pact as the coordinator
- Subscribe to the <u>Pact newsletter</u> and to receive information on the Pact activities (please note that members of the Pact and members of existing large scale and regional partnerships are automatically registered to the newsletter and other communication activities)
- Modify an existing application and/or change your communication preferences
- Input a contact relevant to the Pact (limited to the Pact for Skills Support Services Team)

Step 5, indicate partnership N. 1227 and click on "SPACE4GEO"

	gistration number to the partnership coordinator or check the online database of
	fy your partnership here (hiips://ec.europa.eu/eusurvey/publication
/Pact for Skills FORM)	
1227	
Please indicate	the large-scale skills partnerships you are member/coordinator of:
Please note that ti	he skills partnerships for Retail. Health and the Energy Intensive Industries are still i
preparation and h	ave not been officially launched yet.
 Skills partne 	rship for Aerospace and Defence
 Skills partne 	eship for Construction
 Skills partne 	rship for Microelectronics
 Skills partne 	rship for Offshore Renewable Energy (ORE)
 Skills partne 	rship for Shipbuilding and Maritime Technology
 Skills partne 	rship for Textile, clothing, leather and footwear industries (TCLF)
 Skills partne 	rship for the Agri-food Ecosystem
 Skills partne 	rship for the Automotive Ecosystem (Automotive Skills Alliance)
 Skills partne 	rship for the Cultural and Creative Industries (CCI) Ecosystem
 Skills partne 	rship for the Digital Ecosystem
 Skills partne 	rship for the Proximity & Social Economy ecosystem
 Skills partne 	rship for the Tourism Ecosystem
 Skills partne 	rship for Retail
 Skills partne 	rship for Health
 Skills partne 	rship for the Energy Intensive Industries
 Skills partne 	rship for Long-Term Care
 Skills Partne 	ership for the Renewable Energy Ecosystem
Skills Partne	ership on Space Data, Services and Applications (SPACE4GEO)
 Skills Partne 	rship for Energy Efficiency (upcoming)

- * Is your organisation already a member of a:
 - O Large-scale Skills Partnership (LSP)
 - Regional Skills Partnership
 - O Partnership already member of the Pact (not LSP or regional partnership)
 - None of the above

For any questions, please contact the Support Services at PactforSkillsMembers@ecorys.com.

