



COSMOS2020 NEWSLETTER #47

10 May 2019



News, Stories, Events



Horizon 2020 International Space Information Day

Join this very first opportunity to learn about the H2020 Space Call 2020, meet inspired and motivated people and develop ideas for future projects!

On 12 June 2019 the Agency for Science, Innovation and Technology (MITA), represented by the Lithuanian National Contact Point for Space, in close cooperation with the Space NCP Network COSMOS2020plus and with the support of the European Commission are organising the first HORIZON 2020 International Space Information Day this year.

The aim of the event is to provide first-hand information on the upcoming H2020 Space Call. The participants will have the chance to listen and talk to the authors of the Work Programme 2020 and learn from hints and tips on H2020 proposal writing. The event also offers strategic networking opportunities through a dedicated pitch session and ad hoc meetings with speakers and NCPs.

Why participate?

- to get the earliest possible first-hand information on the last Horizon 2020 Space call,
- to meet potential partners and discuss project ideas.

Target groups: Companies, Universities, Research Institutes, other organisations.

Topics

- Earth Observation,
- Space technologies,
- EGNSS,
- Secure and safe space environment,
- Space business
- IOD/IOV.

[Registration](#) is open until 9 of June 2019.

Preliminary Agenda [available here](#)

[Visit the event website](#)



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ESA & EU Contribution Agreement

ESA and EU sign Contribution Agreement on Horizon 2020 Space Activities

The Contribution Agreement between ESA and the EU on space technology activities was signed on 16th of April by ESA Director General Jan Wörner and the European Commission's Deputy Director-General for Internal Market, Industry, Entrepreneurship and SMEs Pierre Delsaux.

The objective of the EU's In Orbit Demonstration/Validation (IOD/IOV) activities pursued through this agreement, in the frame of the EU's Horizon 2020 programme, is to set the grounds for a potential future provision of a regular IOD/IOV service for new technologies in Europe, based on European solutions for spacecraft, ground segment and launch services.

The signature of the Agreement constitutes a welcome expansion of cooperation between ESA and the EU, building on the successes of the Galileo/European Geostationary Navigation Overlay Service (EGNOS) and Copernicus flagship programmes, the implementation of which is also delegated to ESA.

Source: [ESA](#)

[Read more](#)



8th European Conference for Aeronautics and Space Sciences

The eighth European Conference for Aeronautics and Space Sciences (EUCASS) conference will be held on 1 - 4 July in Madrid, Spain.

The conference is organized by the EUCASS association, founded by a group of European scientists and engineers in order to provide, on the European continent, a high quality forum for the world aerospace scientific community. It is operated by the best specialists in EU, Russia and NIS. It attracts all players, research scientists, engineers, managers and decision makers, world over. It positions itself at the service of agencies and industry and strives to reduce the time to market of discoveries in academic laboratories. Its goal is to foster the competitiveness of its end users, industry and agencies alike.

Conference objectives:

- Review the state of the art in Aeronautics and Space Sciences, focusing on promising innovations.
- Bring recent scientific breakthroughs to the attention of industry.
- Develop synergies between Aeronautics and Space, academia and industry.
- Give agencies and industry the opportunity to present their programs.
- Open the conference agenda to new end-use topics in addition to the traditional enabling sciences.

[Read more](#)



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Space Forum 2019

Space Forum is a conference based on the impact of space technologies on the earth's businesses (mobility, IoT, connectivity, security, climate, media, earth observation...) and will be held on May 21-22nd, 2019, at the European Convention Center Luxembourg (ECCL).

It brings together the most important players from the data sector of the NewSpace industry, specifically upstream satellite companies in Earth Observation and Telecoms, European Space Clusters & Tech Valley representatives, Space business angels, satellites operators, satellite industry suppliers etc. Participants will also have an opportunity to connect with ICT executives and customers, from Banking, Transportation, Government & Defense and other sectors.

The main topic of the Space Forum 2019 is: Leveraging Data from Space:

- Services to benefit Defense & Security
- Business in China and Europe
- Services to benefit Agriculture, Transport & IoT
- Big Data & the business of data from space

Space Forum is held alongside ICT Spring, a tech event dedicated to encourage emulation and networking between business decisions makers, innovation managers, startups, researchers and venture capitalists on a European scale.

More [info and registration, here](#).



ISPRS Geospatial Week 2019

The ISPRS Geospatial Week (GSW) is a combination of workshops organised by about 30 ISPRS Working Groups active in areas of interest of ISPRS.

The GSW 2019 is the fourth edition, after Antalya 2013, Montpellier 2015 and Wuhan 2017.

The ISPRS Geospatial Week's **general goals** are to:

- increase the possibility of communication between the different workshop communities within ISPRS and beyond;
- increase the continuous visibility of ISPRS on a yearly basis, together with the Congress and the Commission Symposia, thus leading to larger impact for ISPRS activities;
- gives Sustaining Members a more attractive opportunity to participate in ISPRS events.

The ISPRS GSW 2019 (June 2019) will host number of workshops on cloud mapping and big data, hyperspectral sensing, multi-sensor systems, SAR, Image and Data Fusion etc.

[Read more](#)



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Copernicus Marine Service General Assembly

Copernicus Marine Service organizes its General Assembly in Brussels from May 20 (afternoon) to May 22 2019.

After the Copernicus Marine Week (Sept 2017) which objective was to open the dialogue with all players of the blue value chain, Mercator Ocean International is now organising the Copernicus Marine Service General Assembly to meet in one place:

- data providers
- central information system tenderers,
- service evolution beneficiaries
- user uptake program beneficiaries

The General Assembly will be followed by parallel meetings (under invitation only) for:

- Copernicus Marine Service Evolution > May 23
- User Uptake projects > May 23
- Scientific Advisory Committee (STAC) > May 24
- Champion User Advisory Committee (CUAG) > May 24.

[Read more and register](#)

[Event agenda](#)



39th EARSeL symposium, DIGITAL | EARTH | OBSERVATION

The 39th EARSeL symposium, will be held in Salzburg in July 2019. The symposium is supported by the Copernicus Academy, by ESA, and dedicated industrial partners.

Satellite image processing used to be digital from early on. Still, since digital image processing of Landsat imagery started in the early 1970ies, the workflows used to bear a significant share of 'manual' data manipulation, including storage, pre-processing, and supervised classification. Only today, with heavily increased computing power, cloud storage and processing systems, as well as automated information extraction, the workflows experience disruptive changes which both the scientific community and the Earth observation service industry have to cope with.

The topics of the symposium are:

- Big data | Digital Earth
- Machine learning | Deep learning
- Computer vision | Knowledge organising systems
- Interoperability | Online processing | INSPIRE
- Data cubes | EO data infrastructure
- Copernicus missions | Current Sentinel and upcoming
- EO applications | Societal benefits | SDGs
- In-situ data | Crowd mapping | Geo-social networks

[Read more](#)



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World Soils User Consultation Meeting, ESA-ESRIN

User consultation workshop on space-based EO tools for mapping and monitoring soils will take place from 02 - 03 July 2019 at ESA ESRIN, Frascati, Italy with the aim to bring together stakeholders from the policy and user domain with remote sensing experts to discuss the necessary steps to develop such a system.

Space-based EO systems provide a means to support the monitoring of some soil chemical and physical properties, directly or indirectly, through the interaction of radiance fields with the (mainly upper) soil layer as shown by many research projects. However, space-based EO data together with in-situ measurements and modeling are hardly been used today in an operational manner by national and international organizations with the mandate to map, monitor and report on soils. This may be related to the lack of adequate, available space-borne EO data (spectral and temporal coverage, restricted data access) as well as the lack of available processing capabilities. With the advent of operational EO systems such as the European Union Copernicus Program (including the high priority Copernicus expansion missions), the free and open EO data policies as well as cloud-based access and processing capabilities (e.g. DIAS) an EO based Soil Monitoring System appears feasible today.

The official language of the workshop is English. No participation fees will be charged.

[Read more](#)



Earth Explorer-9 User Consultation Meeting

The Earth observation scientific community is invited to participate in a European Space Agency (ESA) User Consultation Meeting at the Robinson College, University of Cambridge in Cambridge, United Kingdom on 16–17 July 2019. This consultation forms a critical input to the decision-making process that will lead to the selection of ESA's ninth Earth Explorer mission.

Two candidate Earth Explorer fast-track missions – FORUM and SKIM – have been undergoing feasibility studies since November 2017, the conclusions of which are detailed in corresponding Reports for Mission Selection which will be published in June 2019.

FORUM's benchmark measurements would improve our understanding of the greenhouse effect and, importantly, contribute to the accuracy of climate change assessments that form the basis for policy decisions.

The Sea-surface Kinematics Multiscale monitoring (SKIM) candidate would carry a novel wide-swath scanning multibeam radar altimeter to measure ocean-surface currents. Uniquely, it uses a Doppler technique, which offers more direct measurements than conventional satellite altimeters.

Source: [ESA](#)



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Joint Urban Remote Sensing Event

The biennial international Joint Urban Remote Sensing Event (JURSE) will take place in Vannes, France, 22-24 May 2019. JURSE is a forum of excellence where researchers, practitioners and students present, share and discuss their latest findings and results.

This event is committed to introduce innovative methodologies and technological resources recently employed to investigate the manifold aspects of the urban environment through orbital and airborne remote sensing data.

The 2019 edition of the JURSE conference series is technical co-sponsored by IEEE GRSS and ISPRS, and will feature keynote lectures, oral and poster sessions, technical tutorials, doctoral pitches, hackathon, urban remote sensing contest, panel session, industrial exhibitions.

[Technical programme of the event](#)

[Event website](#)



Electric Propulsion Innovation & Competitiveness Workshop 2019

The EPIC Workshop 2019 will be held on 21-23 October 2019 in ESTEC, The Netherlands, organized by ESA and EPIC.

The Electric Propulsion Innovation & Competitiveness (EPIC) project, Grant Agreement n° 640199, has been selected by the European Commission to carry out the Programme Support Activity (PSA) for the Horizon 2020 Electric Propulsion Strategic Research Cluster (SRC) "In-Space electrical propulsion and station keeping".

The Preliminary Programme is available and will cover the following sessions:

- PSA and SRC progress and activities (EC, REA, EPIC PSA),
- Outline of Horizon 2020 Space Work Programme 2018-2020 topics for Electric Propulsion SRC (EC, REA), in particularly the SRC Call 2020 text and guidelines,
- Round table and stakeholders interaction on Satellite Constellations & EP (invited speakers),
- Incremental SRC OGs: objectives, proposed approach, team, progress, and results (CHEOPS, GIESEPP, HEMPT-NG),
- Disruptive SRC OGs: objectives, proposed approach, team, progress, and final results (GaNOMIC, HiperLoc-EP, MINOTOR),
- Round table and stakeholders interaction on CubeSats & EP (invited speakers),
- New developments on EP Technologies, promising thrusters and transversal technologies (open to speakers)
-

Registration opens from 1th Sept until 30th Sept, [here!](#)



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3rd Symposium on Space Educational Activities

The 3rd Symposium on Space Educational Activities (SSEA) is hosted on 16th of Sep 2019 in the UK by the University of Leicester, alongside UKSEDS and the National Space Academy (NSA), and is sponsored by the European Space Agency (ESA).

The Symposium provides an international stage for students and academics to discuss current and future Space Educational Activities in Europe and beyond, focusing on university level activities as well as opportunities for learners and educators at high school.

Talks will showcase student projects, some involving real missions in which students design and build satellites which are launched and operated in space. Other topics include: technologies for training the next generation of space engineers and scientists; how universities and employers can work together so that graduates have the skills needed by industry, and improving the representation of women in the sector.

[Read more](#)



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Tenders, Calls, Competitions



Horizon Impact Award, call for applicants

The European Commission has launched the first Horizon Impact Award.

This prize acknowledges and rewards the most influential and impactful projects under Horizon 2020 or FP7.

Can you demonstrate that you have valorized your results and created a societal impact?

The prize will celebrate the best outcomes and the people who made them happen. The contest is now open to all participants who completed an FP7 or H2020 project.

Each of the five winners will receive €10 000 at the award ceremony during the European Research and Innovation days in Brussels in September.

Please apply through the [Funding and Tenders portal](#). The deadline for submission is 28 May 2019. More information about the eligibility and award criteria - [available here](#).

If you have questions please address them to EC-Horizon-Impact-Award@ec.europa.eu

European Environment Agency



Open Tender: High Resolution Vegetation Phenology and Productivity Monitoring – Biophysical Parameters – Copernicus Land Monitoring Service

The EEA has been made responsible for implementing the phenology component as part of the Copernicus Land Monitoring Service's product portfolio.

This call for tenders aims at the establishment of a framework service contract with an economic operator covering the production as part of the implementation of the high resolution vegetation phenology and productivity monitoring of the Copernicus Land Monitoring Service.

CN: [EEA/DIS/R0/19/007](#)



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**GALILEO
MASTERS**

Galileo Masters 2019 open for submissions

The submission phase for the 16th edition of the Galileo Masters, which features more than 25 Challenges by the most relevant space stakeholders from politics, education, industry and private businesses, started on 1 May.

The Galileo Masters is Europe's most renowned space competition for satellite navigation and offers cash and in-kind prizes worth EUR 1 million in total. With three additional tailored E-GNSS Accelerator business support packages worth EUR 62,000 and a crowd funding campaign worth EUR 35,000, the future development of the participants' innovative SatNav business cases is secured throughout the value chain.

Source: [AZO Space of Innovation](#)

Read [more for the challenge](#)



European
Global Navigation
Satellite Systems
Agency

R&D on EGNOS Service for Payment/Liability Critical Applications on Road Sector

Invitation to tender with the main objective of the project - to develop an integrity concept of EGNOS service for payment/liability critical applications focused on the road sector.

The study will be financed by the European Commission under the H2020 framework programme for research and innovation, within the budget allocated to the evolution of EGNOS mission.

The European GNSS Agency (GSA) will be in charge of the technical supervision of the project on behalf of the European Commission.

Read more on the [GSA website](#)

Official documents about the Invitation to tender - [here](#).



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ARIEL Data Challenge Series for exoplanet data solutions

ARIEL, a mission to make the first large-scale survey of exoplanet atmospheres, has launched a global competition series to find innovative solutions for the interpretation and analysis of exoplanet data.

The first ARIEL Data Challenge invites professional and amateur data scientists around the world to use Machine Learning (ML) to remove noise from exoplanet observations caused by starspots and by instrumentation.

ARIEL has been selected by the European Space Agency (ESA) as its next medium-class science mission and is due for launch in 2028.

[More for ARIEL Data Challenges](#)

[ARIEL Data Challenges website](#)



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Trainings, Webinars, Resources



European
IP Helpdesk

Webinar: Effective IP and Outreach Strategies Help Increase the Impact of Research and Innovation

The European IP Helpdesk webinar will put a particular spotlight on the role of communication, dissemination and exploitation in maximising the impact of Horizon 2020 projects.

It aims to clarify the terminology by illustrating the differences between the three concepts, and to point out the areas they have in common. Participants will also get an overview on key practical steps to take and consider when elaborating a sound outreach and exploitation strategy. In this regard, central aspects related to IP and innovation management will also be addressed, since they are significantly interwoven with the subject.

Learning Objectives

- Why should applicants/beneficiaries of Horizon 2020 projects care about communication, dissemination and exploitation?
- What are central definitions and concepts related to communication, dissemination and exploitation in Horizon 2020? What are the distinctions, and how do they relate?
- When do communication, dissemination and exploitation come into play?
- What role does IP and innovation management play in this context?
- What are the central IP aspects to be considered?
- What are the central steps in setting up a communication, dissemination and exploitation strategy?
- What are relevant and effective tools?

Date: Wednesday, 17.07.2019

[Read more and register](#)



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