



## COSMOS2020 NEWSLETTER #24

25 January 2017



### **2nd EO Maritime Workshop and Ilan Ramon International Space Conference.**

**January 30-31, 2017 in Herzeliya, Israel**

**Following the first successful workshop in Portugal, ISERD team Israel is happy to welcome you all to the 2nd EO Maritime Workshop which will focus on EO applications for the Mediterranean Sea.**

This workshop, is to be held in conjunction with the [Ilan Ramon international space conference](#). This will be the 2nd of a series of three workshops. The Former workshop (held in Portugal ) focused on the Atlantic Ocean and the next workshop will focus on the North and Baltic Seas.

The objective of the workshop (jointly supported by NCPs from Portugal, Italy and Greece), is to bring closer industry and academia to discuss the state of the art, the future trends and opportunities in the Mediterranean maritime context, bearing in mind the specific challenges of today in the Mediterranean Sea: protecting human lives at sea, monitoring maritime borders, and sustaining maritime resources through their scientific exploration.

The workshop will be preceded by a special session in the main conference, organized by ISERD, on maritime EO applications.

More info in the agenda (more speakers to be confirmed in the coming days)

**Registration is now open:** <http://www.iserd.org.il/?CategoryID=264&ArticleID=704>



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## **Horizon 2020 Coordinators' Day 2017: live stream!** **February 14 2017, Brussels**

**The Horizon 2020 project coordinators will meet for an information session in Brussels, for discussing legal aspects, business processes and IT tools for project report and grant amendments, with particular attention to the financial aspects and eligibility of costs.**

*The event will take place on Tuesday 14 February 2017 in the Charlemagne building in Brussels from 8.30 to 17.00. It is mainly meant for Horizon 2020 project coordinators, but other participants may be accepted subject to the availability of seats. Registration (first-come first-served) is via this [website](#). You will also be able to follow the event online through a [live stream](#) (no need to register in order to follow the web stream). Be aware that this webpage will only become available at the beginning of the event.*



## **Hungary joins ESA's Europe-wide technology network**

**ESA's Europe-wide network dedicated to finding down-to-Earth uses for space technologies has added Hungary, the Agency's latest member. The Programme oversees an expert network of technology transfer brokers across 16 European countries – now including Hungary – to find new terrestrial homes for space technologies.**

Under ESA leadership, European space industry develops top-notch space technologies, many of which offer valuable attributes to terrestrial industries as well, solving production problems or forming the basis of new products or services. The Agency's long-running Technology Transfer Programme supports this spin-off process, working with local industry and national technology institutes.

"Space technology should respond to everyday problems we are facing here on Earth," comments Dr Károly Balázs Solymár, Deputy State Secretary of Infocommunications at Hungary's Ministry of National Development.

"Our top priority duties are to secure the prosperity of our country and increase the efficiency of industrial production, with space industry an important tool to help reach these goals.

"A new opportunity is now open for Hungarian companies to make their top technology developments serve these objectives, both inside and outside the country."

Hungary formally became [ESA's 22nd Member State on 4 November](#).

"The country will benefit in three ways," explains Aude de Clercq of ESA's technology transfer office. "In help for space and non-space industries to collaborate and generate new business opportunities, as well as connecting Hungary and its companies to knowhow and technology from other ESA Member States.

[Read more!](#)



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## Horizon 2020: Preparations for the work programme 2018-2020

Preparations for the [work programme](#) 2018-2020 began in 2016 with stakeholder consultations and discussions with Member States on priorities, which have been outlined in informal working documents, namely [17 thematic scoping papers](#) and one [overarching document](#). The adoption and publication of the work programme are expected in October 2017.

Each thematic section organised the stakeholder consultations in the way that is best suited to the respective subject and the respective target groups.

Work has included open public consultations via ['Your Voice in Europe'](#) in areas where also citizens could directly contribute (Societal challenge 'Food' and 'Science with and for society') as well as open consultations using other platforms for ICT related issues. Dedicated written consultations targeted at respective stakeholder groups, European networks and international bodies as well as several specific events were organised. The results of recent stakeholder consultations on related policy initiatives (e.g. Digital Single Market, Energy Union, 'call for ideas' for the European Innovation Council etc.) were also taken into account.

More section-oriented information on the consultations and the preparation of the current and the next work programmes can be found on the [European Commission website](#).



### **Moon Village: A vision for global cooperation and Space 4.0**

**With the International Space Station (ISS), an unparalleled level of cooperation has been achieved which has continued largely unaffected by any crises that may be occurring on Earth: many nations all pulling together, demonstrating day in, day out, just how important it is to invest in research and technology.**

The Moon Village concept was developed through a process of thorough analysis but it is vital to understand that what we are describing is neither a project nor a programme. By 'Moon Village' we do not mean a development planned around houses, some shops and a community centre. Rather, the term 'village' in this context refers this: a community created when groups join forces without first sorting out every detail, instead simply coming together with a view to sharing interests and capabilities. You might see not only scientific and technological activities, but also activities based on exploiting resources or even tourism.

For future space missions, you could develop and test methods based on new technologies, such as additive manufacturing, that could potentially make use of locally available resources. It is clear that in the future, humans will take part in crewed flights farther into the Solar System, so the Moon Village could also act as the perfect springboard and testing ground with that objective in mind.

[Read more about the spirit of the Moon Village!](#)

[Read more about the technologies!](#)



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## A look back on ESA's achievements 2016

**This informative video shows a compilation of the most important Esa accomplishments during the Year 2016.**

1. Two satellites added to the [Copernicus Earth Observatory](#) in cooperation with the European Commission:  
Sentinel 3A - observes oceans, ice, land and atmosphere  
Sentinel 1B - provides an all weather day night radar vision of the earth surface together with Sentinel 1A already in orbit
2. Adding 6 satellites to the [Galileo Programm](#), making it 18 satellites in orbit and thus being declared operational for initial services by the European Commission
3. [EDRS-A](#) was launched, as the first step of the Laser Communication Network to speed up low-orbit satellite communication with the surface.
4. [LISA-Pathfinder](#) proved its capability of measuring gravitational waves.
5. [Gaia-Mission](#) released its first map of the milky way mapping, in its 2nd of 5 years its creating the most detailed map of the Galaxy this far.
6. ....and [much more](#)

[See full video!](#)



## Cassini's Grand Finale!

**The [Cassini-Huygens mission](#) is one of the most successful exploration endeavours ever.**

**Launched in October 1997, the Cassini orbiter delivered Europe's Huygens probe to the surface of Saturn's mysterious moon Titan in 2005, just a few months after becoming the first spacecraft to enter orbit around the giant gas planet.**

In addition to Huygens' historic delivery 12 years ago on 14 January, Cassini has returned a wealth of information from Saturn's system, including images and other data from the massive planet, its multiple moons and its hauntingly beautiful system of rings. Now running low on fuel, Cassini will be commanded to dive into Saturn's upper atmosphere on 15 September, where it will burn up like a meteor. As part of its final ambitious observing plan, the craft began last month making a series of 20 orbits, arcing high above the planet's north pole then diving down, skimming the narrow F-ring at the edge of the main rings.

Some recording contacts between Cassini and Earth will last over 10 hours, and require technically complex handovers of the signal from an ESA to a NASA station and vice versa. In addition, specialists in Darmstadt must perform very precise frequency calculations for the recording passes. "Supporting Cassini radio science for the mission's Grand Finale requires not only teamwork at ESA, but also deep collaboration between the agencies," says ESA's Thomas Beck, responsible for ground station services. "This is part of our continuing [mutual support](#) that is yielding real scientific and engineering value."

[Read more!](#)



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