

SPACE PLATFORM NEWSLETTER

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HIGHLIGHTS

- There are calls for replacing the **current neoliberal globalization model** in favor of a model which gives a **critical role for governments in shaping economies** that are more resilient, sustainable and equal (**G7 panel report**)
- There are calls for establishing an **interdisciplinary physical and social sciences entity for climate technology**, following the model used to establish the CERN (**G7 panel report**).
- Mr. **Klaus Hasselmann received the Nobel Prize in Physics** in acknowledgment of his contribution to “the **physical modelling of Earth’s climate**”, for which Earth observation missions played a role
- The **first commercially developed, owned and operated space station is intended to be built in low Earth orbit** before the end of this decade.
- The **first experimental space-related stock trading deal**, with the support of a satellite-supported trading system, occurred.

UNITED NATIONS / GLOBAL



- The 26th session of the 2021 UN climate change conference (COP26) will take place in Glasgow from October 31, to November 12, 2021. **COP26 will bring parties together to seek to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change.** ESA and the EC will demonstrate at COP 26 how satellite observations can contribute to such goals.
- A UNPD survey involving 689K people shows that **70% of young people in G20 countries believe that we are in a global climate emergency** (it also shows a generational divide on climate-related policies).

EUROPE AND EU



- The European Commission (EC) is seeking feedback until November 19, 2021 on **space traffic management (STM) and the development of an EU strategy for safe and sustainable use of space.** The EC considers that there is little appetite for stringent legally binding measures and rather **proposes a soft**

**low approach** to develop an EU strategy, with a yearly monitoring system.

- The EC work program for 2022 includes to start building an “**EU space-based global secure communications system, offering EU-wide broadband connectivity and secure and independent communications.**”
- All **national recovery and resilience plans** have been approved and are available **online** (except for the Netherlands). Countries such as France, Italy and Belgium (and possibly others) have **included the space sector within the scope of such plans.**
- A report shows that, compared to 2019, EU27 greenhouse gas emissions in 2020 fell by almost 10% (an unprecedented drop due to the COVID-19 pandemic) and by 31% compared to 1990, which means that the EU is exceeding its target under the UNFCCC Kyoto Protocol
- **Norway and Iceland can participate as EEA countries in the EU space program** (Liechtenstein did not express its interest in participating).
- The first 10 meters resolution **map of the EU crops** has been published by the Joint Research Centre.
- A **new tool for monitoring ongoing floods** worldwide has been developed as part of the Copernicus Emergency Management Service.

- A new **European Citizens' Initiative on environmental protection** (>1 million signatures) requires Member States to take into account environmental considerations when adopting national measures (the substance of that proposal has not yet been examined).
- A **workshop on Copernicus commercial satellite data and European new space** will take place on November 16, 2021.

## EUROPEAN PUBLIC FUNDING PROGRAMS

- The **Innovation Fund second large-scale call for projects to avoid greenhouse gas emissions** is open until March 3, 2022.
- Whilst **Ukraine and Israel can join Horizon Europe, Switzerland and UK associations to such program are still uncertain.**
- **Horizon Europe nine public-private partnership** in areas such as digital, health and climate can start being implemented following European Parliament approval.
- The EC intends to follow a **lump sum funding approach** that removes all obligations on actual cost reporting and time sheets for **Horizon Europe**.

## EUROPEAN SPACE AGENCIES



- ESA's **Planetary Defence Office** will be responsible as a **central hub for helping protecting Earth from dangerous near-Earth objects such as asteroids** (in cooperation with other organizations)
- ESA member countries decided to develop **high precision digital models of Earth** to monitor and simulate both natural and human activity, enable more sustainable development and support European environmental policies
- EUSPA is developing a **new EGNOS service dedicated to the maritime users**, which will complement and serve as an alternative to the local DGNS networks currently deployed along the European coasts
- **EUSPA space downstream innovation days** will take place on November 8-9, 2021 (hybrid format)
- The deadline for filing applications for **EUSPA's last innovation** (Map my World) competition is November 15, 2021
- ESA intends to contribute to make **air travel greener** with the **space-enabled digital alternative** (Iris) to traditional air traffic control that enables pilots to

take more efficient trajectories, saving fuel and cutting carbon emissions

- ESA will monitor social media to **recognize and reward space advocates** at the beginning of 2022
- ESA has set up the **Open Space Innovation Platform** (OSIP) to discover and invest in new unconventional ideas that could greatly benefit and advance European space industry and academia
- ESA **virtual Industry Space Days** will take place on December 7–8, 2021.



The Venture Fund, **Karista**, has closed its first round at **€38 million** for the space-related fund **CosmiCapital**, which benefits from the support of the CNES (and from others) and will have a strong focus on Newspace-related investments in France and beyond.



**Promus Ventures** completed its second closing of its space fund called Orbital Ventures at **€120 million**.



## WHITE HOUSE AND CONGRESS

- Following Congressional discussions on the infrastructure bill and social policy and climate change plan, the White House issued the Build Back Better Act, which proposes the **largest effort to combat climate change in American history**, including:
  - a clean energy and sustainability growth accelerator (with a proposed \$ 200 million 2022 budget)
  - clean energy technologies
  - solutions to climate change
  - consumer rebates and tax credit to shift to clean energy and electrification (1684 pages **text** released by the House)
- When announcing the Build Back Better Agenda, President Biden implied that the **two best investments ever made by the US government where space** and the Interstate Highway System.

- There are calls to **lift the moratorium** imposed by the Congress on the **ability of the FAA to regulate the commercial human spaceflight industry**.



- Under the draft Build Back Better Act, **NASA would receive**:
  - \$750 million until 2028 for its physical infrastructure and facilities
  - \$85 million for R&D o “*subseasonal to seasonal models and observations, climate resilience and sustainability*”
  - \$ 35 million for investment in data management
  - \$ 25 million for R&D to support the wildfire fighting community and improve wildfire fighting operations ([text](#))
- **NASA will in principle have a seat at the Council of the newly create Federal Agency Climate**, responsible for **coordinating actions on climate change** (meaning in this context “*change in the average weather patterns primarily driven by human-produced greenhouse gas emissions*”).
- The **James Webb Space Telescope** has arrived in French Guiana to prepare for its launch in December.
- **Poland joined the U.S.-led Artemis Accords** for space exploration.

## US SPACE FORCE

- 670 active-duty service members and 259 civilians have been selected to transfer into the Space Force during fiscal year 2022 (coming from Army and Navy units and Marine Corps). The current number of persons serving the Space Force totals nearly **13,000 military and civilians**.
- Under the draft bill making appropriations for the DoD, the Space Force would receive an **operational budget of €3.5 billion** and be authorized to **procure** spacecraft, rockets, and related equipment for **€2.7 billion until 2024**.

## DOD

There are calls to **increase relationships between US and with Japan** and possibly allow Japanese company to participate to certain in U.S. DOD programs as a way to counter China in space.

## REST OF THE WORLD



### EU AND CHINA

The Parties announced the establishment of a **High-Level Environment and Climate Dialogue** (HECD).



### RWANDA

Rwanda filed a request with the ITU **to place two satellite constellations of a total of 330 000 satellites in orbit**.



### JAPAN AND TURKEY

- JAXA and the Turkish Space Agency (TUA) signed a **cooperation agreement** relating to the possible deployment of Turkish microsatellite on the ISS Japanese Module Kibo.
- JAXA and State Space Agency of Ukraine (SSAU) **agreed to study possible cooperation** in the field of space activities for peaceful purposes.



### RUSSIA AND UAE

The Government of the Russian Federation and the Government of the United Arab Emirates reached **agreement on expanded cooperation** in the exploration and use of outer space for peaceful purposes

