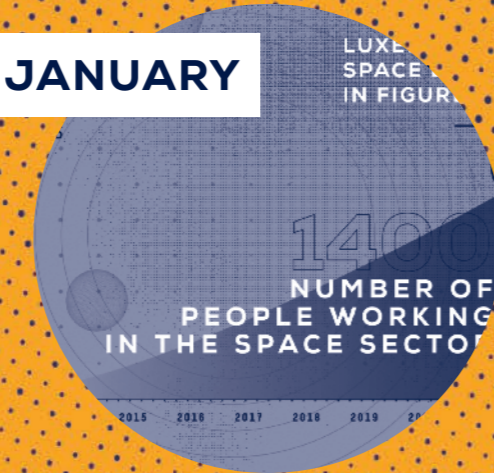


# HIGHLIGHTS



## JANUARY



- UNOOSA Space Law for New Space Actors project - Participation of Luxembourg in the technical mission to Rwanda.
- New issue of the Silicon magazine, focusing on Spacetechnology.



## FEBRUARY

- Update of the National Registry of Space Objects by LSA, following the Law of 15 December 2020 on Space Activities
- Signing of a Memorandum of Understanding with India, to increase cooperation on space projects, including research, academic exchange, exploration, development and use of outer space for peaceful purposes.
- 7<sup>th</sup> - 18<sup>th</sup> February 2022 - Representation of Luxembourg in the Technical and Scientific subcommittee of the COPUOS, focusing on long term sustainability of space activities.
- Workshop with the 4 winning teams of the Überflieger contest who have been selected to realise their own experiment for the ISS
- 16<sup>th</sup> February 2022 - ESA Space Summit in Toulouse.

## MARCH



- 28<sup>th</sup> March - 8<sup>th</sup> April 2022 - Representation of Luxembourg in the legal subcommittee of the COPUOS Working Group on Potential Legal Models for the Exploration, Development and Use of Space Resources.
- 28<sup>th</sup> March 2022 - Workshop with the Luxembourg Space Ecosystem to prepare the ESA Ministerial Council.

## APRIL



- Space Resources Week 2022 3-days of conference and 1000 participants to connect thought leaders from the terrestrial resources sector, aerospace industry, financial institutions, research institutes and academia.
- 1<sup>st</sup> April 2022 - Kathryn Hadler takes over the role of director of the European Space Resources Innovation Center (ESRIC).
- Visit of a Flemish delegation.

## MAY



- Economic mission to Portugal reinforcing bilateral collaboration.
- Industry day organized at the Czech Republic Embassy.

### Consultation with national space actors & preparation of the national space strategy

## AUGUST



- Joint Press conference held by the Ministry of Economy and the Ministry of Higher Education and Research presenting the Space Campus project.

## JULY



- 13<sup>th</sup> Fit4Start call led by Luxinnovation with 17 space applications submitted.

## SEPTEMBER



- 500 participants joining the NewSpace Europe conference bridging Earth and Space around 4 thematic areas: Automotive; Health; Agriculture and Construction.
- Visit of a Taiwanese delegation.
- Announcement of the pre-incubation phase results of the first call of the ESRIC start up support programme.
- Back to school for the 8 students selected for the International Space Master, out of 92 applicants.
- Final of the Space Resources Challenge competition, where robotic prototypes competed on a lunar analogue terrain to prospect for resources, and public event in presence of ESA Astronaut Matthias Maurer.
- National Pavilion during the International Astronautical Congress in Paris, with 12 space actors present on the booth.
- LSA featured in the Arte show - « 42 la réponse à presque tout » - Is space being stolen from us?

## NOVEMBER



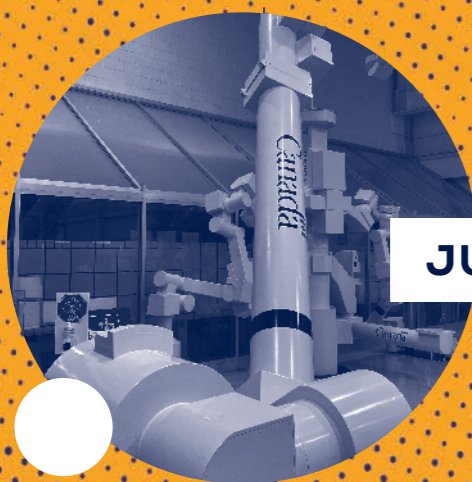
- Luxembourg renews its commitment to the European Space Agency during the ESA Ministerial council in Paris, contributing to shape the future of space in Europe.
- Luxembourg's space ecosystem is celebrated during the Space Finance event in New York, gathering investors and space Entrepreneurs.
- LSA participates in the Researchers Days festival, gathering on schools and general public, with a "Draw me space" animation & booth.
- Economic Mission to Korea followed by a work visit to Japan, developing collaboration in the field of space and space resources in particular. Participation in the Newspace Korea forum.
- National Pavilion for Space Tech Expo in Bremen gathering 13 Luxembourgish space actors on the booth.

## DECEMBER



- Presentation of the new National Space Strategy focusing on sustainability during a press conference led by Minister Fayot.
- First authorizations following the Law of 15 December 2020 on Space Activities.

## JUNE



- 1<sup>st</sup> - 10<sup>th</sup> June 2022 - Representation of Luxembourg in the COPUOS Committee on the Peaceful Use of Outer Space.
- Economic Mission to Canada & signing of a Memorandum of Understanding with Canada Space Agency, aiming to catalyze and significantly deepen cooperation between the Grand Duchy of Luxembourg and Canada in the field of space.
- Participation of LSA in the ICT Spring, one of the top European tech conferences.
- Call for application to the Young Graduate Trainee programme (YGT), offering 19 ESA internship opportunities to young graduates this year.
- 30<sup>th</sup> June - 2<sup>nd</sup> July - Asteroid Day LIVE events, including interviews, academic session, gala dinner and Astronaut Meet & Greet.

- Second call of the ESRIC Start up support programme.
- New Space Directory.

75+ Public/private actors are working in the field of space in 2022.

1400 People are working in the space sector.

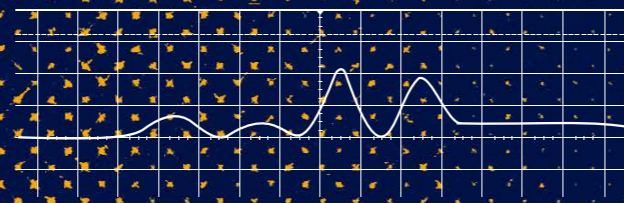


## ECONOMIC SUSTAINABILITY:

The economic sustainability of space activities is directly linked to the primary objective pursued in developing commercial space in Luxembourg **economic diversification**.

It aims at the perpetuation of the competences developed until now and will therefore be a question of consolidating the national positioning on the

preferred market segments but also of identifying new segments offering interesting commercial opportunities.



## SUSTAINABILITY ON EARTH

Space can bring answers and **a major contribution to societal and environmental issues** we are facing today

Contributing to the sustainability of activities on Earth implies building bridges between the space sector and the terrestrial sector. LSA also aims at strengthening national competencies in fields of activity likely to serve other national economic sectors.

The development of competences will also target segments which can contribute to some of the sustainable development objectives, with a particular focus on those which are relevant to Luxembourg's commitments with regards to cooperation and humanitarian action.

# THE 4 PILLARS OF SUSTAINABILITY

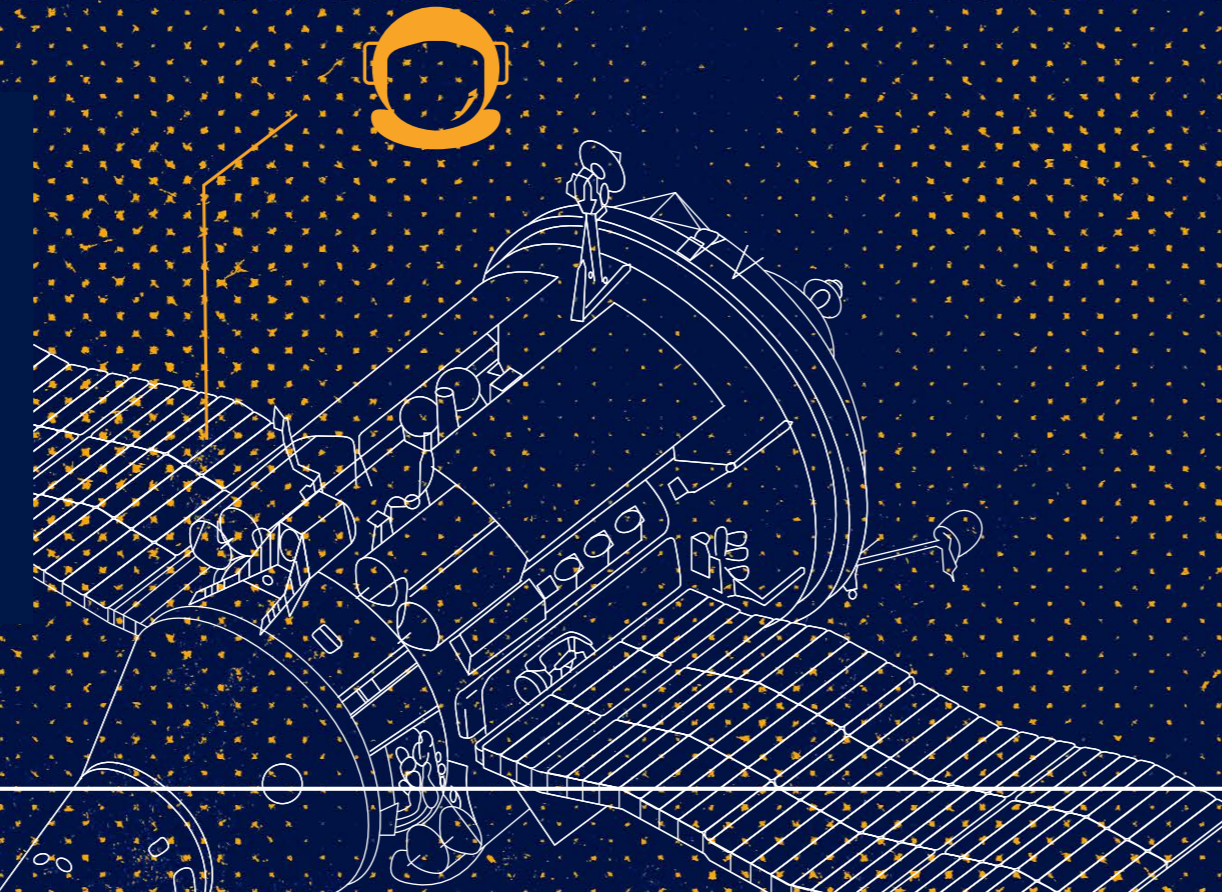
## SUSTAINABILITY IN SPACE:

The new dynamics witnessed in the space sector over the past couple of years, added to the intensive use of Earth orbits foreseen for the coming years, is leading to an increase in the risks of in-orbit operations and a proliferation of space debris.

Yet today, space is part of our everyday life. What is more, space infrastructures also provide commercial, security, environmental and societal benefits.

It is therefore urgent and imperative to **promote a**

**responsible and sustainable use of space**. Luxembourg's commitment will be materialised at both national and international levels, and through the development of national competencies in space traffic management and in-orbit services.



## SUSTAINABLE AND RESPONSIBLE USE OF SPACE RESOURCES

The Space Resources.lu initiative aims to promote the peaceful exploration and use of space resources following a **sustainable** development approach.

Sustainability, circularity and resource management issues will have to be addressed in the R&D projects of public and private actors in this field, particularly ESRIC, while ensuring economic sustainability of these activities.

Luxembourg will continue to engage at the international level, especially at the United Nations, in order to create a respectful international framework and to ensure the development of these new space activities **for the benefit of all humanity**.