



مركز محمد بن راشد  
للفضاء  
MOHAMMED BIN RASHID SPACE CENTRE

# 72<sup>nd</sup> INTERNATIONAL ASTRONAUTICAL CONGRESS

IAC  
DUBAI  
2021

25–29 October 2021 | Dubai, United Arab Emirates

Exhibition

Inspire, Innovate & Discover  
for the Benefit of Humankind



IAC2021.ORG

ORGANIZED BY:



HOSTED BY:



# 73<sup>RD</sup> INTERNATIONAL ASTRONAUTICAL CONGRESS

## 18 - 22 SEPTEMBER 2022, PARIS, FRANCE



### What is the IAC 2022 about?

The International Astronautical Congress 2022 will be hosted in the beautiful city of Paris, France. Exceptionally, the IAC 2022 will be from Sunday till Thursday, 18 – 22 September. The Hosting Organization is the Centre National d'Études Spatiales (CNES), a member of IAF since 1981. Paris hosted the first IAC ever in 1950, then in 1963 and lastly in 1982 and now will be holding the record of the city with most IACs hosted.

The IAC 2022 theme will be *Space for @ll* to reach beyond the space community and bringing together all communities. The IAC 2022 will offer great opportunities for networking and forging new contacts and potential partnerships.

For the latest information, visit [www.iac2022.org](http://www.iac2022.org) or [www.iafastro.org](http://www.iafastro.org)

[www.iac2022.org](http://www.iac2022.org)

SUPPORTED BY:



## CONTENTS

<b>1. Exhibition</b>	<b>3</b>
1.1 Exhibition Times .....	3
1.2 Exhibition Floor Plan .....	4
1.3 Exhibitors List .....	6
1.4 Exhibitors List in Alphabetical Order .....	8





## 1.1 Exhibition Times

EVENT DATE:	EXHIBITOR ACCESS	SHOW TIMINGS
Monday, 25 October 2021	08:30 – 18:30	09:00 – 18:00
Tuesday, 26 October 2021	08:30 – 18:30	09:00 – 18:00
Wednesday, 27 October 2021	08:30 – 18:30	09:00 – 18:00
Thursday, 28 October 2021	08:30 – 18:30	09:00 – 18:00
Friday, 29 October 2021	08:30 – 16:30	09:00 – 15:00



## 1.3 Exhibitors List

Exhibitor	Booth	Exhibitor	Booth
3D Plus	H8-43	Indian Space Research Organisation (Isro), Department Of Space, Government Of India	H6-10
AAC Clyde Space	H8-32	IngeniArs S.r.l.	H8-805
AGI, An Ansys Company	H8-807	INNOSPACE	H5-30B
AIKO	H8-40	Institute of Experimental and Applied Physics, CTU in Prague	H8-45
Air Liquide	H7-708	International Space University	H6-32D
ALFA MECCANICA	H8-40	iSpace	H7-20
Amazon Web Services	H7 - 30	Israel Aerospace Industry	H5-20
ARGOTEC S.R.L.	H8-40	Italian Space Agency	7A104A.
Astroscale	H5-41	Italian Trade Agency	H8-810
Australian Space Agency	H6-30D	Japan Aerospace Exploration Agency (JAXA)	H7-21
AVS Added Value Solutions	H6-33C	KARI	H6-21
Azercosmos	H5 – 11 (shell: H8 – 815)	KSAT -Kongsberg satellite Services.	H6 – 33 A + F
Azista BST Aerospace	H6-32C	Labormet Due	H8-40
Belgium Space	H8-33	Leafspace	H5 – 20A
Breakthrough Prize Foundation	H5-51	Lockheed Martin	H7-13
CNES	H8-30/H8-814	Masten Space Systems	H8-804
D-Orbit Space	H5-30 F &G	MECCANICA BPR	H8-40
Dragonfly Aerospace	H6-30A	Morpheus Space	H5-53
Egyptian Space Agency	H7-703	NanoAvionics	H8-808
Eicas Automazione	H8-40	Nanoracks Space Outpost Europe	H8-40
EO-ALERT	H8-801	Officina Stellare SPA	H8-802
European Space Agency (ESA)	H8-11	Open Cosmos	H5-42
Flight Control	H5-20C	OPTEC SPA	H8-40
German Pavillion	H8-13F	Piemonte Agency	H8-40
HEAD Aerospace Group	H7-23	Polish Space Agency	H8-31
Hungarian Astronautical Society	H6-602	Precious Payload Inc.	H5-30 D
ICEX	H6- 23		

PROGEM	H8-40	State Space Corporation ROSCOSMOS	H6-12
Sabelt Spa	H6-22 B	Strata Manufacturing	H5-33E , H6-33D
Safran Data Systems	#H5-30A	Surrey Satellite Technology Ltd	H8-34
SANSA	H7-22	Swedish Space Cooperation	H6-605
Satrec Initiative	H6-21A	Syrlinks	H8-42
Sharjah Academy for Astronomy, Space Sciences and Technology	H7-704	Thales Alenia Space	H7-33
Sierra Space	H6-21	ThrustMe	H8-806
SITAEL S.p.A	H8-803	Turkish Space Agency	H8-41
Skyroot	H5 30E	UK Space Agency	H8-20
Slovak Space Office	H8-810	United Nations Office for Outer Space Affairs (UNOOSA)	H50-40A
Space Electric Thruster Systems	H5-20D	Valispace	H6-604
Space Service Hub- Eurisy	H5-23	Zero Gravity	H6-601
Spartan Space	H7-12		
State Secretariat for Education, Research and Innovation SERI, Swiss Space Office	H6-606		

## 1.4 Exhibitors List in Alphabetical Order

Booth: H8-43	<b>3D PLUS</b>
	<p><b>Contact:</b> Amélie GICQUEL</p> <p><b>Email:</b> <a href="mailto:agicquel@3d-plus.com">agicquel@3d-plus.com</a></p> <p><b>Web:</b> <a href="https://www.3d-plus.com/">https://www.3d-plus.com/</a></p> <p>3D PLUS is a world leading supplier of advanced high density 3D microelectronic products and die/wafer stacking technology. Our products meet the demand for high reliability, high performance and very small size of today's and tomorrow's electronics.</p> <p>Our patented technology portfolio starts with standard package scale upward to die-size and wafer-level stacking processes. It enables stacking heterogeneous active, passive and opto-electronic devices in a single highly miniaturized package.</p> <p>3D PLUS standard products and System-In-Package (SiP) solutions bring breakthrough advantages to our customers' electronic designs. They are used in diverse computer boards, data recorders boards and custom applications for buses and payloads. Our Flight Heritage is expanding continuously with products launched in Space every month in Earth orbits, for deep space exploration missions and governmental missions</p>
Booth: H8-32	<b>AAC Clyde Space</b>
	<p><b>Contact:</b> Niki Lonsdale</p> <p><b>Email:</b> <a href="mailto:niki.lonsdale@aac-clydespace.com">niki.lonsdale@aac-clydespace.com</a></p> <p><b>Web:</b> <a href="https://www.aac-clyde.space/">https://www.aac-clyde.space/</a></p> <p>AAC Clyde Space, a leading New Space company, specialises in small satellite technologies and services that enable businesses, governments, and educational organisations to access high-quality, timely data from space. This data has a vast range of applications, from weather forecasting to precision farming to environmental monitoring, and is essential to improving our quality of life on Earth.</p> <p>Our growing capabilities bring together three divisions:</p> <p>Space Data as a Service – delivering data from space directly to customers</p> <p>Space missions – turnkey solutions that empower customers to streamline their space missions</p> <p>Space products and components – a full range of off-the-shelf and tailor-made subsystems, components and sensors"</p>
Booth: H8-807	<b>AGI, An Ansys Company</b>
	<p><b>Contact:</b> Jody Lyon</p> <p><b>Email:</b> <a href="mailto:jody.lyon@ansys.com">jody.lyon@ansys.com</a></p> <p><b>Web:</b> <a href="https://www.agi.com/">https://www.agi.com/</a></p> <p>From the chip to the mission, AGI and Ansys software help transform your digital engineering enterprise at the speed of your needs. AGI's mission-level software helps engineers, operators, and analysts working on land, sea, air, and space systems. Our combined portfolio of simulation and analysis tools help aerospace and defense organizations make critical decisions faster throughout the life cycle — from concept design to operations and sustainment — in an operational context</p>
Booth: H8-40	<b>AIKO</b>
	<p><b>Contact:</b> Lorenzo Feruglio</p> <p><b>Email:</b> <a href="mailto:info@aikospace.com">info@aikospace.com</a></p> <p><b>Web:</b> <a href="https://www.aikospace.com/">https://www.aikospace.com/</a></p> <p>AIKO is a deep-tech company specialized in Artificial Intelligence and automation software for upstream space applications.</p>
Booth: H7-708	<b>Air Liquide</b>
	<p><b>Contact:</b> Agnès Renard</p> <p><b>Email:</b> <a href="mailto:agnes.renard@airliquide.com">agnes.renard@airliquide.com</a></p> <p><b>Web:</b> <a href="https://advancedtech.airliquide.com/">https://advancedtech.airliquide.com/</a></p> <p>As a world leader in gases, Technologies and Services for Industry and Health, Air Liquide is a historic partner in space industry for more than 50 years. Air Liquide has built a solid reputation in the space field thanks to its expertise in rocket launchers (ground resources and Ariane launchers) from Ariane 1 to the future Ariane 6, in the design of cryogenic equipment for satellites (MTG, IAS-ING) and also in space exploration (Herschel, Planck, Melfi, Curiosity, ExoMars). The Group continues to innovate and push back the frontiers by developing technologies to address the new challenges of Space, in particular to support projects and missions to the Moon. Technologies to produce and store energy in situ (oxygen and hydrogen), purify the air, or produce propellants to ensure the return to Earth of space vehicles, in a sustainable way, are some to help overcome major international challenges related to space exploration.</p>

Booth: H8-40	<b>ALFA MECCANICA</b>
	<p><b>Contact:</b> Davide Fusta</p> <p><b>Email:</b> <a href="mailto:davidefusta@alfameccanicasrl.it">davidefusta@alfameccanicasrl.it</a></p> <p><b>Web:</b> <a href="http://www.alfameccanicasrl.it/sito/default.asp">http://www.alfameccanicasrl.it/sito/default.asp</a></p> <p>ALFA MECCANICA has an over 45 years heritage in the Aerospace and Space Businesses and is specialized in High Precision Machining (High Speed Milling of very large structures and Turning), EDM, Fluorescent Penetrant Inspection (Nadcap Accredited), Precision Cleaning and Cleanliness Inspection (Qualified by GE Aviation), Assembling, Testing and Design &amp; Manufacturing of Mechanical Ground Support Equipment.</p> <p>The main products can be listed as: Primary Structures for Space Modules and Satellites, Honeycomb panels Trimming and Drilling, Engine and Propulsion Subassemblies and Aerostructures Sub Assemblies.</p> <p>Alfa Meccanica is supporting the most important International Space Programs.</p>
Booth: H7-30	<b>Amazon Web Services</b>
	<p><b>Contact:</b> Faheeda Fahdad</p> <p><b>Email:</b> <a href="mailto:Faheeda@amazon.com.bh">Faheeda@amazon.com.bh</a></p> <p><b>Web:</b> <a href="https://aws.amazon.com/government-education/aerospace-and-satellite/space/">https://aws.amazon.com/government-education/aerospace-and-satellite/space/</a></p> <p>Enabling successful aerospace and satellite missions with the cloud. Amazon Web Services. (AWS) helps commercial and government customers build satellites, conduct space and launch operations, and reimagine space exploration. Our reliable global infrastructure and unmatched portfolio of cloud services position AWS to equip organizations in the private and public sector to process and transform space collections into data, make that data actionable and accessible to customers around the globe, and redefine how organizations transform the space market segment. With the AWS Cloud, customers are accelerating space missions, removing barriers to innovation on Earth, and inspiring future generations.</p>
Booth: H8-40	<b>ARGOTEC S.R.L.</b>
	<p><b>Contact:</b> Simone Simonetti</p> <p><b>Email:</b> <a href="mailto:Simone.simonetti@argotecgroup.com">Simone.simonetti@argotecgroup.com</a></p> <p><b>Web:</b> <a href="http://www.argotec.it/online/">http://www.argotec.it/online/</a></p> <p>Argotec is an Italian aerospace engineering company whose activities concern the production of small sats for deep space and the development of innovative solutions to support the astronauts' comfort. Thanks to Argotec's facilities and know-how, the company activities follow the "all in-house concept" includes design, development, integration, qualification and operation services. Argotec is a UNI EN 9100:2018 and UNI ISO EN 9001:2015 certified company, and compliant with the ECSS and NASA standards framework. The company's satellite platforms suitable also for deep space (6U or 12U version) offer highly-reliability, rad-hardness, volume for payloads and integrated propulsion systems. Argotec can directly monitor satellites in space using its Mission Control Centre certified by NASA JPL Deep Space Network. The company produces custom OBC (including on-board SW and processing algorithms) and EPS for its platforms. Moreover, Argotec provides ANDROMEDA, a constellation of microsatellites, supplying a high-frequency communication link and high datarate to lunar users.</p>
Booth: H5-41	<b>AstroScale</b>
	<p><b>Contact:</b> Alison Howlett</p> <p><b>Email:</b> <a href="mailto:a.howlett@astroscale.com">a.howlett@astroscale.com</a></p> <p><b>Web:</b> <a href="https://astroscale.com/">https://astroscale.com/</a></p> <p>Astroscale is the first private company with a vision to secure the safe and sustainable development of space for the benefit of future generations, and the only company dedicated to on-orbit servicing across all orbits.</p> <p>Founded in 2013, Astroscale is developing innovative and scalable solutions across the spectrum of on-orbit servicing, including life extension, in situ space situational awareness, end-of-life, and active debris removal, to create sustainable space systems and mitigate the growing and hazardous buildup of debris in space. Astroscale is also defining business cases and working with government and commercial stakeholders to develop norms, regulations, and incentives for the responsible use of space.</p> <p>Headquartered in Japan, Astroscale has an international presence with subsidiaries in the United Kingdom, the United States, Israel, and Singapore. Astroscale is a rapidly expanding venture company, working to advance safe and sustainable growth in space and solve a growing environmental concern.</p>

## Booth: H6-30D Australian Space Agency



**Contact:** Nic Mercer  
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**Web:** <http://www.space.gov.au/>

"The Australian Space Agency's purpose is to transform and grow a globally respected space industry to lift the broader economy, inspire and improve the lives of Australians. As Australia's national space agency, it coordinates civil space matters across government and supports the growth of the Australian space sector.

The Agency is responsible for delivering key space programs that develop national space capability and infrastructure, unlock international space collaboration, and inspire and build a future space workforce. It is also the regulator of Australian space related activities and a facilitator for collaboration across industry, government and academia.

This is all supporting the Australian Space Agency's goal to triple the size of Australia's space industry to AU\$12 billion and create up to 20,000 new Australian jobs by 2030.

The Andy Thomas Space Foundation will also be exhibiting alongside the Agency, with the foundation the lead for Australia's bid for IAC 2024."

## Booth: H6-33C AVS Added Value Solutions



**Contact:** Cristina Ortega  
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**Web:** <https://www.a-v-s.es/>

AVS, Added Value Solutions, is an independent global SME delivering critical systems in Mechatronics, Propulsion or Thermal control for Exploration, Earth Observation, In-Orbit Servicing, Science missions or Telecommunication satellites.

Over the last 15 years, AVS has developed unique mechanisms, instruments and robotics for various agencies (ESA, NASA, UKSA, ISRO) and international customers (Airbus, Thales, OHB, Virgin Orbit...).

AVS is well known for its contribution to two of the instruments on-board the NASA-JPL Perseverance Rover (MEDA and SUPERCAM) that brought us to Mars last February 2021. AVS will go back to Mars in 2026 with the development of the gripper that will collect the sample tubes, as part of ESA's Sample Fetch Rover.

Headquartered in the north of Spain, AVS is a privately owned company with subsidiaries in the United Kingdom (AVS UK) and the United States of America (AVS US).

## Booth: H5 - 11 (shell: H8 - 815) Azercosmos



**Contact:** Fidan Behbudova  
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**Web:** <https://iac2023baku.org/>

At Azercosmos Space Agency, we are striving to transfer Azerbaijan into one of the driving forces of the global space industry by delivering cutting edge satellite solutions for a better connected, developed, and secure world. We are proud partners of many companies both in public and private sectors across the Globe for a decade now, providing our customers with advanced Telecommunication Services over Azerspace-1 and Azerspace-2 satellites, and Earth Observation services over Azersky satellite.

In 2023, after a half-century, we will proudly bring back IAC, the world's most remarkable space event held annually since 1950 in different countries, to Azerbaijan. We look forward to this historic recurrence to revive the enduring legacy the event of 1973 has left on the history of Baku and cannot wait to welcome you!

## Booth: H6-32C Azista BST Aerospace



**Contact:** Luke T. Davis  
**Email:** [luke@berlin-space-tech.com](mailto:luke@berlin-space-tech.com)  
**Web:**

Azista BST Aerospace is a joint venture between Azista Aerospace and Berlin Space Technologies that enables mass manufacturing of small satellites

## Booth: H8-33 Belgium Space



**Contact:** Marta Lebron  
**Email:** [marta.lebron@qinetiq.be](mailto:marta.lebron@qinetiq.be)  
**Web:**

The Belgian Space Pavilion will showcase some of the leading Belgian space companies: Aerospacelab, AMOS, Antwerp Space, Centre Spatial de Liège, Magics, OIP, QinetiQ, Shur-Lok, Space Applications Services, Spacebel, Veoware, and VITO.

## Booth: H5-51 Breakthrough Prize Foundation

**Contact:** Kyran Grattan  
**Email:** [grattan@breakthroughprize.org](mailto:grattan@breakthroughprize.org)  
**Web:** <https://worldsandbeingsbeyond.earth/>

A community-run booth dedicated to the search for life in the universe.

## Booth: H8-30/H8-814 CNES



**Contact:** Philippe COLLOT  
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**Web:**

CNES (Centre National d'Etudes Spatiales) is the public establishment responsible for proposing French space policy to the Government and implementing it in Europe. It designs and puts satellites in orbit and invents the space systems of tomorrow; it promotes the emergence of new services that are useful in everyday life. CNES, created in 1961, initiates major space projects, launchers and satellites and is the natural partner of industry for pushing innovation. CNES has nearly 2,400 employees, men and women who are passionate about space, which opens up infinite, innovative fields of application; it intervenes in five areas: Launchers, scientific research, observation, telecommunications and defence. CNES is a major player in technological innovation, economic development and industrial policy in France. It also establishes scientific partnerships and is involved in numerous international projects. France, represented by CNES, is one of the main contributors to the European Space Agency (ESA).

## Booth: H5-30 F & G D-Orbit Space



**Contact:** Renato Panesi  
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**Web:** <https://www.dorbit.space/>

D-Orbit is a market leader in the space logistics and transportation services industry with a track record of space-proven technologies and successful missions.

Founded in 2011, D-Orbit is the first company addressing the logistics needs of the space market. ION Satellite Carrier, for example, is a space vehicle that can transport satellites in orbit and release them individually into distinct orbital slots, reducing the time from launch to operations by up to 85% and the launch costs of an entire satellite constellation by up to 40%. ION can also accommodate multiple third-party payloads of companies and institutions requiring a test of their technology in orbit.

D-Orbit is a space infrastructure pioneer with offices in Italy, Portugal, UK, and the US; its commitment to pursuing business models that are profitable, friendly for the environment, and socially beneficial, led to D-Orbit becoming the first certified B-Corp space company in the world.

## Booth: H6-30A Dragonfly Aerospace



**Contact:** Alexandra Shustova  
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**Web:** <https://dragonflyaerospace.com/>

## Booth: H7-703 Egyptian Space Agency



**Contact:** Mrs. Nesma Yamany  
**Email:** [Nesma.Yamany@egsa.gov.eg](mailto:Nesma.Yamany@egsa.gov.eg)  
**Web:** <http://www.egsa.gov.eg/>

The Egyptian Space Agency is an Egyptian public economic authority established in August 2019, with a legal personality and affiliated with the President of the Arab Republic of Egypt. Established by the Law No. 3 of 2018, which aims to create, transfer space technology development, localization and own self-capabilities to build & launch satellites from Egyptian territory Space Keys@ is a The Space Science and Technology Platform for Space Educational purposes developed best specialists of the manpower of the Egyptian Space Agency. The Space Keys Platform design gives the students a hands-on space education and Outreach with understanding and exploring concepts in electrical design, mechanical design, software design, and systems engineering by using the subsystems and functionality of a spacecraft. Hardware and exercises design to give the students of hands-on engineering experience in satellite testing and operation

## Booth: H8-40 EICAS AUTOMAZIONE



**Contact:** Gabriella Caporaletti  
**Email:** [g.caporaletti@eicas.it](mailto:g.caporaletti@eicas.it)  
**Web:** <https://www.eicas.it/>

EICAS AUTOMAZIONE S.p.A. has a long heritage in the field of attitude determination from star measurement. Starting from the experience gained in the HIPPARCOS Mission, many Autonomous Attitude Determination Systems (AADS) have been designed and validated under ESA/ASI contracts and for large players, moving from mono-head to multi-head and multicamera configuration, from CCD to CMOS technology. In the most recent years the company has finalized a new concept of multicamera system powerful and low cost, based on sophisticated in-flight auto-calibration techniques both of the camera model and of the camera attitude related to the spacecraft reference frame. The first proprietary star tracker, ARGO 1.0, is currently being validated in-orbit, onboard ION-mk02 by D-ORBIT S.p.A. Its development was co-funded by the H2020 SME-INSTRUMENT Programme. A second star tracker, ARGO 2.0, co-funded by ESA, is under development and will achieve flight heritage by End 2022.

**Booth: H8-801 EO-ALERT**



**Contact:** Lucia Sencherms  
**Email:** [lucia.sencherms@deimos-space.com](mailto:lucia.sencherms@deimos-space.com)  
**Web:** <http://eo-alert-h2020.eu/>

The EO-ALERT project is an H2020 European Union research activity coordinated by Deimos Space. The project has developed a HW/SW solution for very low latency (real-time) delivery of Earth Observation products, exploiting satellite payload edge processing and global communications links.

EO-ALERT has developed a novel EO data and processing chain flight segment architecture, that moves optimised key EO data processing elements from the ground segment to on-board the satellite, with the objective of providing the EO products and services to the end user with high availability and very low latency. EO-ALERT achieves latencies below one minute globally for optical and SAR products. To achieve this, EO-ALERT has innovated in several critical technological areas regarding on-board elements of the data and processing chain. Verification of performances was achieved using the DEIMOS-2 optical and TerraSAR-X SAR mission data.

The solution is proven and ready for exploitation in partner missions.

**Booth: H8-11 European Space Agency**



**Contact:** Annie Sorlin  
**Email:** [Annie.Sorlin@esa.int](mailto:Annie.Sorlin@esa.int)  
**Web:** <https://www.esa.int/>

ESA covers a wide range of activities, including launchers, science, robotic and human exploration, navigation, Earth observation, telecommunications, space safety and operations. It designs, builds and operates facilities and a fleet of space missions in orbit around the Earth and in the Solar System, and flies European astronauts with international partners.

Member States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland and the United Kingdom. Latvia, Lithuania and Slovenia are Associate Members. Canada takes part in certain programmes under a cooperation agreement. ESA has signed European Cooperating States Agreements with Bulgaria, Cyprus and Slovakia, and cooperation agreements with Croatia and Malta.

By coordinating the financial and intellectual resources of its members, ESA can undertake programmes and activities far beyond the scope of any single European country. ESA works closely with European industry, national space agencies and the European Union, and cooperates with space agencies worldwide.

**Booth: H5-20C Flight Control**



**Contact:** Daria Botchenko  
**Email:** [daria.botchenko@flightcontrol.space](mailto:daria.botchenko@flightcontrol.space)  
**Web:** <https://flightcontrolpropulsion.com/>

Flight Control Propulsion is a private Ukrainian NewSpace company providing full-cycle development of liquid-propellant rocket engines. In our engineering practice we are using a fusion of well-proven space technologies and scientific heritage, state-of-the-art manufacturing techniques along with the best business practices. Flight Control Propulsion consists of more than 250 experienced aerospace engineers working in design office, material science lab and production factory. Our main products are liquid-propellant rocket engines of different thrust (starting from thrusters of 20 kgf and finishing with main engines of 75tf) as well as their components (valves, turbopumps, combustion chambers, gas generators, preburners, etc.).

**Booth: H8-13F German Pavillion**



**Contact:** Kristian Schischke  
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**Web:** <https://www.bmwi.de/Navigation/DE/Home/home.html>

Germany participates with a "German Pavilion" offering a professional brokerage service to help to establish contacts with German companies and comprehensive information on Germany as an important business location. Presented by: Federal Ministry for Economic Affairs and Energy (BMWi) ([www.bmwi.de](http://www.bmwi.de)), in Cooperation with: AUMA\_Association of the German Trade Fair Industry ([www.auma-messen.de](http://www.auma-messen.de)), supported by: German Aerospace Industries Association ([www.bdl.de](http://www.bdl.de)), organized by: ECM Expo&Conference Management GmbH ([www.ecm-berlin.de](http://www.ecm-berlin.de))

**Booth: H7-23 HEAD Aerospace Group**



**Contact:** Kammy Brun  
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**Web:** <https://www.head-aerospace.eu/>

HEAD Aerospace is a one-stop-shop service provider with integrated access from multiple Earth observation satellite constellations to complex turnkey geospatial solutions. A global network of 100 partners accesses HEAD's centralized geodata hub of satellite imagery collected from more than 45 on-orbit satellites. Distinguished satellite attributes allow the end-user to develop diversified applications. Early morning tasking to be the first one to observe the world. Night-time imaging to see what happens at night. One single image capturing an entire country. Direct receiving station for near real-time monitoring. In addition to the Earth observation and geospatial business unit, HEAD operates its own Space-based Internet-of-Things (IoT) constellation with five on-orbit satellites as part of the 48 satellites constellation plan in 2023.

**Booth: H6-602 Hungarian Astronautical Society**



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**Web:** <https://www.mant.hu/>

The Hungarian Astronautical Society (MANT in Hungarian) is a non-profit organization in Hungary that gathers space researchers, users of space technology and everyone who is interested in the interdisciplinary and state-of-the-art uses and research of outer space. The society was established in 1956 in Budapest, and it is proud member of the International Astronautical Federation (IAF) since 1959.

The aim of MANT is to raise public awareness about space activity and space applications. The society also provides an opportunity for space enthusiasts to meet, exchange ideas and work together. MANT, through its members from various fields of science, organizes conferences, youth forums, summer space camps, issues periodicals, releases media material and holds lectures about space research and connected scientific fields.

MANT in collaboration with HUNGEXPO Budapest Congress and Exhibition Centre and CongressLine Ltd. proposes to host the 75<sup>th</sup> International Astronautical Congress in Budapest, in October 2024.

**Booth: H6-23 ICEX**



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The Spain Pavilion / Spain Space at IAC 2021 will be hosting the following Spanish companies: ALEN SPACE; ARQUIMEA; AVS ADDED VALUE SOLUTIONS; DEIMOS SPACE; DHV TECHNOLOGY; GMV; HISPASAT; INSTITUO ASTROFISICA CANARIAS; PANGEA AEROSPACE; PLD SPACE and SATLANTIS. Spain's bid by IAF Member INTA to host the IAC 2024 in Seville is also represented. The Spanish space industry has its own technologies, with a solid track record in international programs and broad participation in all segments of activity: satellite systems and equipment, launchers, operators, service providers, ground control centers and small satellites/new space technologies. Our companies have a solid presence in the communications satellites and launchers market and play a leading role in EU programs such as Galileo, Copernicus, SST and Gvsatcom. Spanish Earth Observation Satellite: PAZ

**Booth: H6-10 INDIAN SPACE RESEARCH ORGANISATION (ISRO), DEPARTMENT OF SPACE, GOVERNMENT OF INDIA**



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Indian Space Research Organisation (ISRO) is a public-funded R&D organisation under the Department of Space, Government of India, which is primarily responsible for all space-related activities within the country with the main objectives are.

- Design and development of launch vehicles and related technologies for providing access to space.
- Design and development of satellites and related technologies for earth observation, communication, navigation, meteorology and space science.
- Indian National Satellite (INSAT) programme for meeting telecommunication, television broadcasting and developmental applications.
- Indian Remote Sensing Satellite (IRS) programme for management of natural resources and monitoring of environment using space based imagery.
- Space based Applications for Societal development.
- Research and Development in space science and planetary exploration.
- Operational flights of Polar Satellite Launch Vehicle (PSLV).
- Operational flights of Geo-synchronous Satellite Launch Vehicle (GSLV- Mk II).
- Operational flights of heavy lift Geo-synchronous Satellite Launch Vehicle (GSLV-Mk III).
- Training, Capacity Building and Education.
- Promotion of Space technology.
- Infrastructure / Facility Development for space research.
- International Cooperation.

**Booth: H8-805**      **IngeniArs S.r.l.**



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Founded in 2014 as innovative start-up and University of Pisa spin-off company, IngeniArs is specialized in design and development of innovative high-tech electronic/informatics and embedded systems in the domains of Space, Artificial Intelligence, Healthcare and Cybersecurity.

For Space, we offer IP-Core, Test-equipment/software and Design/Verification services both for satellite design and ground testing mainly related to data handling, high-speed data interfaces and satellite communication. Our flagship product family is SPACEART®: standalone devices for the functional verification of the high-speed links on-board of satellite. We have provided design services in several space missions and we are official Microchip Design Partner and Xilinx Alliance Partner.

For AI, we develop AI algorithms based on neural networks with reduced complexity, to be portable on devices with limited resources or implemented within hardware accelerators (FPGA/VPU). IngeniArs has successfully flown a cloud detection neural network on-board satellite within ESA mission Phisat-1.

For more information, visit our website [www.ingeniars.com](http://www.ingeniars.com)

**Booth: H5-30B**      **INNOSPACE**



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INNOSPACE is an aerospace/defense manufacturing & engineering service providing corporation headquartered in South Korea. As a world leader in hybrid rocket technology, we are developing hybrid rocket powered smallsat launchers to provide LOW-COST, LOW-LATENCY, and reliable launch services in the rapidly expanding smallsat market. Holding the "Operator's License" to provide space launches out of the Alcantara Space Center in Brazil, we will commence commercial launches from 2023.

**Booth: H8-45**      **Institute of Experimental and Applied Physics, CTU in Prague**

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Czech Technical University in Prague (CTU) is the oldest public technical research university in the Czech Republic. The Institute of Experimental and Applied Physics (IEAP) was founded in 2002 as a scientific-academic unit of the CTU oriented towards fundamental experimental research in subatomic physics and application of the mastered methods in another scientific and technical fields of research.

Main areas of activity include R&D of semiconductor detectors and advanced instrumentation for radiation detection and imaging, novel methods of radiation imaging and spectroscopy and their applications in different fields such as medical imaging, material science and space.

Our current projects in space focus on detection, visualization and characterization of mixed radiation field using highly miniaturized and high-resolution Timepix-based radiation detectors onboard NASA, ESA and JAXA missions.

**Booth: H6-32D**      **International Space University**

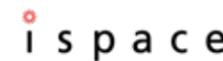


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The International Space University, founded in 1987 in Massachusetts, US and now headquartered in Strasbourg, France, is the world's premier international space education institution. It is supported by major space agencies and aerospace organizations from around

the world. The graduate level programs offered by ISU are dedicated to promoting international, interdisciplinary and intercultural cooperation in space activities. ISU offers the Master of Science in Space Studies program at its Central Campus in Strasbourg. Since the summer of 1988, ISU conducts the highly acclaimed two-month Space Studies Program at different host institutions in locations spanning the globe and more recently the Southern Hemisphere Space Studies Program. ISU also offers online and hybrid courses. ISU programs are delivered by over 160 ISU faculty members in concert with invited industry and agency experts from institutions around the world. Since its founding, 30 years ago, more than 5200 students from over 110 countries graduated from ISU.

**Booth: H7-20**      **iSpace**



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ispace is a lunar exploration company with over 150 staff and offices in Japan, Europe and the United States. ispace builds small commercial lunar landers, aiming to provide a high-frequency, low-cost delivery service to the Moon. ispace has also launched a lunar data business concept to support companies with lunar market entry. The company's first lunar mission is planned for 2022 with a second mission planned for 2023. On its first mission, ispace's lander will deliver payloads for the Mohammed bin Rashid Space Centre (MBRSC), among others. The lander for the first mission is currently undergoing final assembly at an ArianeGroup facility in Germany and will launch from the United States on a SpaceX Falcon 9 rocket. Both ispace, inc. and ispace EU were awarded contracts to collect and transfer ownership of lunar regolith to NASA.

**Booth: H5-20**      **Israel Aerospace Industry**



**Contact:**      **Email:**  
**Web:**

IAI, the National Space House of Israel, is acting as a one-stop-shop for cost-effective satellites ranging from Nano to several tons. Having over 40 years of experience in space technologies, IAI focuses on space systems for national security, scientific/research and commercial applications.

Being "focused" in what we are doing and building, we obtain very high performances, most suitable for today's customers' needs. IAI implements its extensive experience in space technologies, along with new space approach.

Dozens of satellites have been successfully launched and operating with excellent performance in space, providing services to users in Israel and abroad. IAI works closely with its customers to enable efficient solutions, according to their special needs and budget constraints. IAI also offers the Shavit launcher, enabling launch of mid-size satellites to LEO orbits and has self-capabilities and proven records in conducting a full space project cycle.

**Booth: 7A104A.**      **Italian Space Agency**



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**Web:**

The Italian Space Agency (ASI), created in 1988, is a national public body supervised by the Ministry of University and Research having the task of preparing and implementing the Italian space policy in accordance with the Government directives set by the "Interministerial Committee for Space and Aerospace Policies" (COMINT). ASI is recognized as one of the most important global stakeholders on the scene of space science, satellite technologies and development of means to reach and explore the universe. ASI has a long-standing relationship with NASA which has led ASI to take part in some of the most interesting scientific missions such as the construction and design of the modules of the International Space Station.

Thanks to ASI's efforts, the Italian scientific community has obtained unprecedented successes in the field of astrophysics and cosmology in the last decades and has also contributed to reconstruct the first moments of life in the Universe, taking essential steps towards understanding the phenomenon of gamma-ray bursts and the mysterious sources of gamma-rays. ASI contributed significantly to space exploration. In addition to studying the Universe, from space you can observe Earth to prevent and predict – for example – environmental disasters, ensure fast interventions in crisis areas, measure the effects of climate change. Italy is at the forefront also in these areas, with systems such as the Cosmo Sky-Med Earth observation constellation and the hyperspectral national satellite, Prisma. Through ASI and the Italian industry, Italy continues a research tradition in spacecraft propulsion, in particular as leader of the European programme VEGA, the small rocket designed in Italy. Nowadays, space is no longer just a sector of research, but it's also an important economic driver. The market of telecommunication and satellite navigation – just to mention an example – is continuously expanding and ASI works so that Italy is ready to seize the opportunities of Space Economy.

**Booth: H8-810**      **Italian Trade Agency**



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ITA - Italian Trade Agency is the Governmental agency that supports the business development of our companies abroad and promotes the attraction of foreign investment in Italy. With a motivated and modern organization and a widespread network of overseas offices, ITA provides information, assistance, consulting, promotion and training to Italian small and medium-sized businesses. Using the most modern multi-channel promotion and communication tools, it acts to assert the excellence of Made in Italy in the world.

**Booth: H7-21 Japan Aerospace Exploration Agency (JAXA)**



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The Japan Aerospace Exploration Agency (JAXA) is a National Research and Development Agency in Japan that aims to lead the society and create new value driven by science and technology in the fields of space and aeronautics

**Booth: H6-21 KARI**



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KARI is a specialized institution founded for national development through the research and development of aerospace scientific technologies.

**Booth: H6-33 A + F KSAT -Kongsberg satellite Services.**



**Contact:** Igor Alonso Portillo  
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Kongsberg Satellite Services (KSAT) is the leading provider of Ground Network Services and Earth Observation Services. KSAT owns and operates a ground station network of both polar and mid-latitude stations. The four polar ground stations are uniquely located in Tromsø at 69°N, Svalbard Satellite Station (SvalSat) at 78°N, Inuvik Station at 68°N and the Antarctic station (TrollSat) at 72°S. The company handles 75 000+ passes per month and has expanded its existing ground network of over 250 antennas across 25 geographically distributed sites to include large-diameter (15+ meter) antennas.

KSAT explores new technologies that will impact the future satellite operations for the benefit of the global space community, from LEO to Lunar and beyond.

For Earth Observation services KSAT uses an extensive combination of commercial satellites in a virtual constellation. In combination with our perfectly positioned global ground station network, KSAT offers a unique end-to-end solution on coverage, resolution, price and monitoring frequency, delivered in just minutes after acquisition.

**Booth: H8-40 LABORMET DUE**



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**Web:** <http://www.labormetdue.it/>

LABORMET DUE Srl is one of the strongest commercial facilities in North Italy in the field of scientific instruments for the laboratory and quality control.

We provides tools for the materials' quality control and characterization, with the related consumables, from the stereomicroscope to the traction machine of 200 tons.

LABORMET DUE guarantees for all the equipment supplied: the installation and staff training, after-sales service, the upgrading and certification.

LABORMET DUE, furthermore, deals with all major characterization and measurement techniques: metallography, optical and electron microscopy, image analysis, physical and mechanical testing, environmental simulation testing, chemical analysis, metrology in the research, the production control and quality check.

One more big business opportunity is offered by the tomography service required from wide range of different customer's category. A reverse engineering, an evaluation of porosity, an internal defect occurs are just a few examples of what the tomographic technique can offer.

**Booth: H5-20A Leafspace**



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Leaf Space operates, and continues to develop, a solid and reliable distributed ground station infrastructure to provide effective ground segment-as-a-service solutions and enable full exploitation of space data. The company has a vision of being the leading provider of such services in order to drive expansion and sustainability of the space ecosystem and downstream applications. Leaf Space's proprietary concept is focused on providing satellite connectivity as-a-service, to support clients with their satellite operations by managing and procuring the entire ground segment system through a complete set of services. These include time-shared access to ground, customized communication solutions, ground station procurement, consultancy, and backup services.

**Booth: H7-13 Lockheed Martin**



**Contact:**  
**Email:**  
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Going to space is just the beginning. It's what you do when you get there that matters. We build satellites and spacecraft that do amazing things in space for government and commercial customers. Lockheed Martin-built satellites/spacecraft expand our knowledge of the universe, give earlier warning of severe weather, and deliver GPS directions to a billion people worldwide. As we look to the future, we're driving innovations to help our customers do even more in space. Lockheed Martin brings more capability to the table than ever before, creating better data, new images and groundbreaking ways to work. And we're doing it with smarter factories and common products, making our systems increasingly affordable and faster to produce.

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 110,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

**Booth: H8-804 Masten Space Systems**



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Masten Space Systems is space infrastructure company enabling sustainable access and utilization of the Moon, Mars, and beyond. Founded in 2004, Masten has been building and flying reusable rockets for nearly two decades with the most successful rocket-powered landings in the industry. The company is now applying its terrestrial flight experience to lunar missions that will accelerate space ecosystems and enable new commercial applications. Masten's end-to-end mission solutions include everything from tech development and rocket testing to off-Earth delivery and operations. Based in Mojave, California, Masten aims to unlock the value in space to benefit humans on Earth, starting with Masten Mission 1 to the lunar south pole. For more information, visit [www.masten.aero](http://www.masten.aero).

**Booth: H8-40 MECCANICA BPR**



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**Web:** <http://meccanicabpr.com/>

Meccanica Bpr can boast fifty years of experience in the production of high precision mechanical parts. We mainly work in high-end fields, primarily in Aerospace.

Offering a buy & forget service, we handle, keep control and full traceability of every production step, releasing conformance, treatment and material certificates.

Moving from the customers' drawings or from their 3D models Meccanica Bpr is able to build, not only single critical parts, but also assemblies (including the provision of certified commercial off-the-shelf components); starting from the supplying of raw material, passing through heat and surface treatments, to the final assembly, Meccanica Bpr gives its customers a complete product.

Our core business are the design and the production of high precision gears, micro-gears, planetary gear reducers, gearboxes, transmissions, actuators, sleeve and spool valves or any other high precision part even requesting a tooling.

Meccanica Bpr is fully capable of develop, co-design and produce special equipment for space application.

**Booth: H5-53 Morpheus Space**



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Morpheus Space provides carefree mobility for satellites. The world's smallest and most efficient propulsion modules combined with tailored autonomy capabilities unlock a never-before-seen level of mobility for a wide range of satellite sizes. We decrease total mission costs, risk of total failure and disrupt business models for satellite networks. Thanks to the highly efficient propulsion systems, each satellite can perform countless orbital maneuvers, which allows "objective first" mission planning with an automated trade-off. This provides a never-before-seen flexibility of satellite networks that is exploited by the A.I. to optimally morph the constellations to fulfill the user's objectives, which can range from revisit frequencies to observation of moving POIs. Our technology helps to reduce the ever-growing space debris challenge and we are working towards a sustainable future in space and on Earth, in line with the core values of the UN.

**Booth: H8-808 NanoAvionics**



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NanoAvionics is a smallsat bus manufacturer and mission integrator currently based in five locations across the US, UK, and Lithuania. The company's efforts are focused on enabling critical satellite functions and optimizing their hardware, launch, and satellite operation costs by providing end-to-end small satellite solutions – ranging from single missions to constellations. Its core engineering team has implemented over 85 successful satellite missions and commercial projects during the past several years. With modularity as the fundamental principle of NanoAvionics systems' architecture, NanoAvionics provides economic viability to a wide range of small satellite constellation-based missions, businesses, and organizations worldwide.

**Booth: H8-40 NANORACKS SPACE OUTPOST EUROPE**



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Nanoracks is using a unique expertise to solve key problems in space and on the Earth - all while lowering the barriers to entry of space exploration.

**Booth: H8-802 Officina Stellare SPA**



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Officina Stellare S.p.A. is an innovative Small Medium-sized company based in Sarcedo (VI), Italy, listed on the AIM of Borsa Italiana and leader in the design and manufacture of complex opto-mechanical and aerospace instrumentation for Ground and Space-based applications.

The Company stands out in the Italian and international industrial panorama for the entirely in-house availability of the know-how and processes necessary for the development, manufacturing and commissioning of its products and systems.

Thanks to an engineering team, an optical manufacturing lab, a skilled AIV team working with state-of-the-art technologies, the full production cycle is kept in-house with remarkable cost savings for our end-users.

Combining top-level technical-scientific skills in very different areas with flexibility and time-to-market actions, is one of the most significant and specific strengths of Officina Stellare SpA. From specifications drafting to final acceptance tests, OS guarantees maximum efficiency of the supply chain and high-risk management facilities.

**Booth: H5-42 Open Cosmos**



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Open Cosmos is a space company operating satellite missions from start to finish. It offers a comprehensive service that addresses the entire value chain of the space sector; encompassing the design, manufacture, mission management & launch of satellites tailored to companies, institutions and governments around the world. These satellites are primarily used for three things: to collect data from the Earth that is critical for economic, environmental or security decisions; to provide telecommunication services on a global scale; or to develop space science and technology.

Founded in 2015 in the UK, the company, which is based at the Harwell Campus space centre, has experienced stellar growth and is expanding its business internationally. Its team is made up of a multidisciplinary group of more than 50 highly qualified professionals who make Open Cosmos an innovative, cutting-edge company and a leader in what they already call 'Enabling Space', a sector which, with its space technology, enables other industries to make profitable business decisions based on reliable global data.

More information at <https://www.open-cosmos.com/>.

**Booth: H8-40 OPTEC SPA**



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Since its start up in 1985, Optec is more than a manufacturer. It is a service organization with a proven record of successful performance.

Optec is always driven by its dedication to serving Customer needs and by its commitment to producing quality products with high performance, with reference to optical sector. Optec's standard and custom products are a result of experience in imaging applications.

In the beginning, Optec provided only lenses, now we offer complete integrated systems. By providing the complete system, Optec is able to optimize system performance rather than just individual component performance. Optec has a great attention to research field, which has conducted us to collaborate with a lot of important partners in Aerospace and Imaging sectors Industry.

Optec has obtained the quality certificate ISO 9001:2015 by TÜV Italy certification.

**Booth: H8-40 PIEMONTE AGENCY**



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Piemonte-Italy is a leading global hub for aerospace with an organized supply chain equipped with a complete pipeline of skills and qualifications, engineering know-how, high-level manufacturing processes and services, integrated solutions: 280 SMEs, 14,800 employees, developing € 3.9bn turnover, features an exceptional aggregation capacity with world-leading players located in the area (Leonardo, GE Avio Aero, Collins Aerospace, Thales Alenia Space, ALTEC and a network of universities and R&D centres). Piemonte Regional Government and Piemonte Agency develop with the local companies best practices on supply chain performance. At IAC 2021 Piemonte Aerospace present the following companies: Alfa Meccanica, Aiko, Argotec, Eicas Automazione, Labormet Due, Meccanica Bpr, Nanoracks Space Outpost Europe, Optec, Progem and is author of: "Initiatives of Piemonte Region in Italy to support SMEs Business and Innovation in the International Space Market - updating" / IAC-21,E6,2,4,x64145 - E6 - IAF BUSINESS INNOVATION SYMPOSIUM; 2 - Finance and Investment: The Practitioners' Perspectives.

**Booth: H8-31 Polish Space Agency**



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Polish Space Agency (POLSA) is a national governmental agency, established in 2014. The role of the Agency is to support the Polish space industry by implementing the priorities of the Polish Space Strategy. POLSA cooperates with international agencies and public administration in the field of space exploration and exploitation. It is responsible for promoting the Polish space sector domestically and abroad. POLSA also conducts activities related to information and education on the use of satellite technologies (including navigation, observation and communication) in the economy, administration and everyday life.

**Booth: H5-30 D Precious Payload Inc**



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Precious Payload is a SaaS service that takes care of satellite mission planning, technical analysis, paperwork, and supply chain management. We are helping people to launch whatever they want to launch to the actual Space. Have you ever seen the launch of a big-ass Falcon-9 rocket? Probably they were launching the satellite of one of our clients.

Our goal is to make Space more accessible and help any business launch satellites to create more value to their customers. We are the remote-first, early-stage US startup.

In 2020, we graduated from a top aerospace accelerator, got first paid customers and traction and raised the \$1.2M seed round from one of the largest US VC investor Tim Draper. All of it was done by our team of 6 (cool) people (total), and now we feel like we need to extend our team with people, who could help us to test a bunch of business hypotheses and build the new and groundbreaking product.

**Booth: H8-40 PROGEM**



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Progem is involved in the industrialization and manufacturing of precision mechanical parts for aerospace, space and defense for both civil and military purposes. Progem is good and fast, not cheap.

In the aerospace field more than the others experience is a key for success. Progem has gathered experienced people for every position getting former specialist of every field to ensure the highest level of service

Progem fully understand that the realization of the parts is just a small step of the entire project and often all the delays converge to this phase. That is why we are very efficient and prepared to support the customer for the greatest satisfaction Quality is our strength. Our strong quality system allow us to finish the part directly on the machine without any post working ensuring the best result.

**Booth: H6-22 B Sabelt Spa**



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Sabelt, founded in 1972 by Piero and Giorgio Marsiaj, specializes in the development and production of car seats for performance road cars, racing products for motor racing and seatbelts for aerospace.

Sabelt provides innovative solutions for race car drivers: ultralight racing suits, carbon fiber seats that adapt to the driver and seatbelts for cars of all types of racing.

From the world of motorsport, Sabelt has developed a range of premium sports seats for the world's top car manufacturers such as Ferrari, McLaren, Alpine, Abarth, Alfa Romeo, Jaguar, Maserati and Aston Martin.

Sabelt is also able to develop and implement new technologies dedicated to various applications of safety seatbelts in niche markets, such as the military, aviation, aerospace, exceptional transport and many other fields where technical products and customized.

Since 2010, Sabelt has been the supplier of Thales Alenia Space Italia for the restraint systems of the Cygnus Orbital-ATK module.

**Booth: H5-30A Safran Data Systems**



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SAFRAN is a global supplier of equipment & solutions for space systems and applications.

Space Agencies, ground station operators and satellite integrators source critical components and turnkey solutions directly from SAFRAN, or through prime system integrators and satellite makers.

Our offering spans from satellite telemetry & TTC ground stations & equipment, up to space-borne electric propulsion, also encompassing high surface accuracy mirrors for electro-optical payload and space-rugged electronics including launch-vehicle avionics & safety units. SAFRAN group also provides engineering services for bespoke space system designs, harnessing solutions for satellites, controlled valves for launch vehicle engines, space parachutes.

SAFRAN uniquely differentiates by also offering data, information and analytics services about Space Domain Awareness using the only global WETRACK passive RF sensor providing unmatched satellite positions, maneuvers and spectrum occupancy.

**Booth: H7-22 SANSa**



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**Booth: H6-21A Satrec Initiative**



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SI was founded in 1999 by the engineers who developed the first Korean satellite and a series of advanced small satellites. We have been focusing on developing high-performance small/medium satellite systems for Earth observation missions. We have contributed to the success of over 28 international and domestic space programs over the past 30 years.

Four engines of SI's Earth observation solutions

With two subsidiaries, the SI group has four vertically integrated business areas in Earth observation. The parent company, SI provides Earth observation satellite and ground systems, SI Imaging Services focuses on satellite imagery distribution services, and SI Analytics provides AI-based geospatial analytics services.

**Booth: H7-704 Sharjah Academy for Astronomy, Space Sciences and Technology**



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The Sharjah Academy of Astronomy, Space sciences & Technology was inaugurated on 7 of May 2015 under the patronage of His Highness Sheikh Dr. Sultan Bin Mohammed Al Qasimi, Member of the Supreme Council, Ruler of Sharjah, and President of the University of Sharjah, to crown the celebrations of Sharjah as the Capital of Islamic Culture. The Center aims at developing and promoting education about astronomy and space sciences in the Arab World in general and the UAE in particular in order to be a destination for science, research, heritage, and education.

The Academy has many attractions, most important of which are: Planetarium, Astronomy Exhibition, Space Exhibition, Exhibition of the Universe in the Holy Qur'an, Astronomical Observatory and a Cosmic Park.

**Booth: H6-21 Sierra Space**



**Contact:** Anna Hare  
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Sierra Space is helping humanity go to space in new ways. Sierra Space builds and delivers the future of space transportation, destinations and infrastructure, offering "space-as-a-service" in support of the new space economy. A subsidiary of Sierra Nevada Corporation (SNC), Sierra Space offers turnkey solutions that are modular, reusable and scalable leveraging breakthrough technologies including the Dream Chaser® spaceplane, also known as America's Spaceplane® and the expandable LIFE™ habitat.

**Booth: H8-803 SITAEL S.p.A**



**Contact:** Mr. Marco Molina  
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**Web:** <https://www.sitael.com/>

SITAEL is the largest privately-owned Space Company in Italy and worldwide leader in the Small Satellites sector. With highly qualified employees and state-of-the-art facilities, SITAEL covers a wide range of activities in development of small satellite platforms, advanced propulsion systems and on-board avionics, providing turn-key solutions for Earth observation, telecom and science.

Being one of the main players of the Space Economy, SITAEL is changing the way to conceive space products, both in the upstream and downstream segments, providing, thanks to its IoT capabilities, competitive smart services for a wide range of applications.

SITAEL belongs to Angel Group, an Italian holding world leader in Railway, Aerospace and Aeronautics markets. For further information visit [www.sitael.com](http://www.sitael.com)

**Booth: H5 30E Skyroot**



**Contact:** Sireesh Pallikonda  
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Skyroot Aerospace Private Limited is a national award-winning start-up headquartered in Hyderabad, India. The company is developing small satellite launch vehicles, VIKRAM Series (VK-I, VK-II, VK-III). Our flagship small satellite launch vehicle is scheduled for its maiden launch in Q4-2022. The VIKRAM Series is being developed on upgradable architecture, which can carry from 200 kg to 750 kg of payload to low earth orbits. The company was founded by former engineers and scientists from ISRO with a very strong leadership team. It is the first Indian Private satellite launch company to sign MoU with Indian Space Research Organisation to utilize ISRO facilities for testing and launch activities. Skyroot is open for launch bookings and in-talks with various satellite companies for signing up customers for its first few launches with exciting pricing offers.

**Booth: H8-810 Slovak Space Office**



**Contact:** Daniel Sagath  
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**Web:** <https://spaceoffice.sk/>

Slovak Space Office is a joint project of the Slovak Investment and Trade Development Agency (SARIO) and the Ministry of Education, Science, Research, and Sport of the Slovak Republic. While the ministry-led Political Branch is responsible for inter-ministerial political coordination and multilateral issues, the Industrial Branch at SARIO is in charge of developing the Slovak space ecosystem and bilateral international cooperation. The Industrial Branch of the Slovak Space Office is the official Slovak national contact point for international cooperation for the space agencies, offices, associations as well as businesses, and research entities. We aim to support Slovak entrepreneurs and researchers in integrating into European industrial structures and participating in international projects. Our objective is to actively develop international professional cooperation of Slovakia with relevant actors in the space industry field.

**Booth: H5-20D Space Electric Thruster Systems**



**Contact:** Igor Alekseev  
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We are a space propulsion company that develops electric propulsion systems for spacecrafts.

## Booth: H5-23 Space Service Hub- Eurisy



**Contact:** Analisa Donati  
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**Web:** <http://www.eurisy.eu/>

Eurisy is the association of space agencies acting collectively to bridge the gap between space and society. To fulfil its scope, Eurisy stimulate dialogue and collaboration between public institutions at any level, SMEs, industry and academia from the space and non-space sectors. The goal is to build solid relations with communities, new to space, encouraging early adopters to share experiences creating a common ground for professionals from different backgrounds.

For over three decades, Eurisy has worked to put civil society at the core of the space value chain. We work closely with society to observe, understand, and document the obstacles and opportunities in the use of space-based innovation on Earth. Eurisy designs and manages events as platforms to teach, learn and innovate across numerous sectors. We add value to innovation projects by involving users, championing their needs, and facilitating the dialogue between them and the space stakeholders.

## Booth: H7-12 Spartan Space



**Contact:** Peter WEISS  
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Spartan Space is a startup created in January 2021. We are developing smart habitats for space and underwater exploration. Our product portfolio includes the EuroHab/OASIS planetary habitat, a concept of inflatable habitat for human missions to the Moon and Mars, and the EuroHab/OASIS terrestrial analogue, the twin version of EuroHab/OASIS for ground simulations, technology development and analogue campaigns. EuroHab/OASIS is an innovative modular and multi-purpose habitat delivered as a payload on a lander. EuroHab/OASIS was awarded a prize at the international architecture competition from the Jacques Rougerie foundation in 2020 and was selected to be showcased at the World Expo in Dubai in the French pavilion starting October 2021.

## Booth: H6-606 State Secretariat for Education, Research and Innovation SERI, Swiss Space Office



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Switzerland has been actively involved in Space activities and initiatives since the early days. Switzerland is strongly involved in space activities via international cooperation, especially through the European Space Agency (ESA). The Swiss Space Office (SSO) of the State Secretariat for Education, Research and Innovation promotes and coordinates Switzerland's activities in the Space domain.

The main goals of Switzerland's space policy are in the development and use of space applications to improve the quality of life for citizens, the long-term commitment to space exploration, and to ensure competitive and reliable technological and industrial contributions in international Space projects.

Switzerland is a competitive and reliable partner in the space sector for the progress of innovation and of the knowledge society, at a global scale. Thanks to its innovative strength and precision technology, Swiss companies and research institutes have gained a solid and acknowledged position in strategically significant fields.

## Booth: H6-12 State Space Corporation ROSCOSMOS



**Contact:** Khranova Eugenia  
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ROSCOSMOS is a State Corporation that was established in August 2015 to oversee and implement a comprehensive reform of the Russian space industry.

State Space Corporation ROSCOSMOS ensures the implementation of the Russian government's space program and its legal regulation. ROSCOSMOS is also placing orders for the development, manufacture and supply of space equipment and space infrastructure objects.

The state corporation is also responsible for international space cooperation and tasked with setting the stage for the future use of results of space activities in the social and economic development of Russia.

## Booth: H5-33E , H6-33D Strata Manufacturing



**Contact:** Maitha Al Kalbani  
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Strata Manufacturing PJSC (STRATA) is a composite aero-structures manufacturing facility based in the heart of Nibras Al Ain Aerospace, Al Ain, United Arab Emirates. The company was established in 2009, with production beginning in 2010. Strata has partnerships with the world's leading aircraft manufacturers such as Airbus, Boeing and Leonardo-Finmeccanica Aero-structures Division as well as a Tier one supplier to Pilatus, SAAB and S.A.B.C.A.

Strata is wholly owned by Mubadala Investment Company (Mubadala), the Abu Dhabi-based investment and development company and is part of the UAE Investments platform that aims to advance the development of a leading aerospace hub in Abu Dhabi

## Booth: H8-34 Surrey Satellite Technology Ltd



**Contact:** Emma Turnbull  
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Surrey Satellite Technology Ltd (SSTL) is at the forefront of space innovation and is the world's leading small satellite company, delivering customisable complete mission solutions for remote sensing, science, navigation, telecommunications and space exploration.

Since 1981, SSTL has built and launched more than 70 satellites for 20 international customers, as well as providing training and development programmes, consultancy services, and mission studies for ESA, NASA, international governments and commercial customers.

SSTL is well-known for innovative missions such as the CARBONITE series video imaging satellites, NovaSAR radar imaging satellite and the RemovedEBRIS technology demonstrator.

Headquartered in Guildford, UK, SSTL is owned by Airbus.

## Booth: H6-605 Swedish Space Cooperation



**Contact:** Jeremy Gales  
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SSC is a global provider of advanced space services. We develop experiment payloads and provide rocket and balloon launch services at our unique facility Esrange Space Center. We also provide reliable access to satellites through SSC's global network and ground stations, one of the largest ground station networks in the world. Furthermore, we provide engineering expertise to all phases of our customers' space programs. With extensive experience and a solid understanding of the rapidly changing space market, we tailor innovative and sustainable solutions to institutional and commercial customers worldwide.

## Booth: H8-42 Syrlinks



**Contact:** Guillaume Choain  
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Syrlinks designs and manufactures high-end, cost-effective radio-communication and geolocation sub-systems for Space, Defense, and Safety.

Syrlinks' products combine innovative technology and reliability to offer both advanced performances and easy integration.

COMPETENCES:  
 Syrlinks is a pioneer in Newspace class of Space Radios, using COTS components: we have delivered more than 1 000 FMs, cumulating 800 years in orbit, with 100% reliability.

Syrlinks' Expertise includes also the mastery of ESA ECCS CLASS 3 and CLASS 2 (equivalent to NASA Level II and I)

PRODUCTS / SERVICES  
 Portfolio is one of the largest on the market, offering radios from mini satellite (up to 10 years life-time) to Nano/Cube Satellites

- HDR transmitters (up to 600 Mbps), transceivers (TT&C/ISL) in different frequency bands (L, S, X, Ka), and several quality levels (COTS to ESA CLASS 2 (= NASA Level I)).
- GNSS SDR Receiver, based on multi-frequencies / multi-platform
- SDR Payloads (Spectrum Analysis, etc)"

## Booth: H7-33 Thales Alenia Space



**Contact:** Françoise MORVAN  
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Based on a 40-year experience, Thales Alenia Space delivers cost-effective solutions for telecommunications, navigation, Earth observation, exploration, science and orbital infrastructures. Governments and private industry rely on us to design satellite-based systems that provide connections and positioning, monitor our planet, enhance management of its resources, explore our Solar System and beyond. Thales Alenia Space sees space as a new horizon, helping to build a better, more sustainable life on Earth. A joint-venture between Thales (67%) and Leonardo (33%), Thales Alenia Space teams up with Telespazio to form the Space Alliance, which offers a complete range of solutions including services. Thales Alenia Space posted consolidated revenues of approximately 1.850 billion euros in 2020 and has around 7,700 employees in 10 countries with 17 sites in Europe and a plant in the US.

**Booth: H8-806 ThrustMe**



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Olena Rafalska

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ThrustMe offers advanced mobility solutions for the growing space industry which is facing new challenges due to the rise of satellite constellations. As experts in in-space propulsion and satellite orbital maneuvering strategies, ThrustMe enables a future where space is used sustainably to create value both on Earth, and beyond. Founded in 2017, ThrustMe has a complete portfolio of game-changing turnkey propulsion products that have already been tested in space and delivered to clients worldwide. The company made history in 2019 and 2020 with the world's first in-orbit demonstration of iodine-fuelled electric propulsion systems: a technology that has the potential to revolutionize the entire industry.

**Booth: H8-41 Turkish Space Agency**



**Contact:**  
Ayhan INCIRCI

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Turkish Space Agency (TUA); is a state authority responsible for the preparation of the strategic plans governing the medium and long term goals on aeronautics and space technologies, basic principles and approaches, objectives and priorities, performance indicators as well as the methods to achieve these goals and the distribution of resources.

About TUA  
Turkish Space Agency is a state authority which carries out the activities on finance, law, management, marketing etc. to support the development and dissemination of space and aeronautics sciences and technologies and coordinates the work carried out within the national and international organizations with a view to protect and safeguard the space-related rights and interests of the Republic of Turkey.

Established with the Presidential Decree No. 23 in December 2018; TSA is a state institution which is responsible for the preparation of the strategic plans governing the medium and long term goals on aeronautics and space technologies, basic principles and approaches, objectives and priorities, performance indicators as well as the methods to achieve these goals and the distribution of resources.

Mission  
The Turkish Space Agency (TUA) is the face of Turkey in space. Its mission is to be a leading and pioneering institution that carries out activities serving to the best interests of our country and humanity in accordance with the requirements of the "New Space Age".

**Booth: H8-20 UK Space Agency**



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Lexi Watson

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We provide technical advice on the government's space strategy, and guide the UK space sector to deliver HMG's vision. We design and deliver programmes that implement the government's strategy, including as a sponsor of national capabilities and an early-stage investor in space research and development. We promote the UK space sector's interests and achievements, make connections to join up industry and academia, and represent the UK in international space programmes. To deliver this role, we draw on our deep expertise in space science, technology, and the global space landscape, our core Civil Service skills, and our partnerships across government, the sector, and with space institutions around the world.

**Booth: H50-40A United Nations Office for Outer Space Affairs (UNOOSA)**



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Martin Stasko

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The United Nations Office for Outer Space Affairs (UNOOSA) works with the space sector to maintain a stable and secure space environment. We do this by promoting the responsible, sustainable and peaceful use of space, raising awareness about the international space treaties and by working with all nations to help them harness the power of space for sustainable development. UNOOSA serves as the secretariat for the UN Committee on the Peaceful Uses of Outer Space (COPUOS), the intergovernmental body dedicated to developing space policy at the UN level, as well as for the International Committee on Global Navigation Satellite Systems, and the Space Mission Planning Advisory Group. The Office is also responsible for maintaining the UN Register of Objects Launched into Outer Space.

**Booth: H6-604 Valispace**



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Valispace is a browser-based software allowing engineers to collaboratively develop better complex hardware products, including rockets and satellites. It serves as a Single Source of Truth and allows engineers to store and collaborate along the engineering lifecycle, all the way from requirements engineering, through detailed design up to verification and testing.

The Valispace software reduces hardware development costs by >20%, by digitising non-CAD data, using browser-based collaboration and complementary integrations to common engineering tools such as Matlab, Python, AGI's STK and others. It supports interdisciplinary teams throughout the engineering lifecycle, from requirements management, through detailed design up to automatic verification.

In short: it is Github for Hardware.  
Valispace is currently used by companies such as Airbus, ESA, Momentus, Nanoracks, ispace, etc. and has been named in Forbes as one of Germany's 100 most innovative Start-ups 2018, featured in Wired and TechCrunch and won multiple start-up awards.

**Booth: H6-601 Zero Gravity**



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Zero Gravity Corporation operates its customized unique B727 aircraft to provide parabolic flight experiences to a broad range of markets in the United States and globally. ZERO-G is the only FAA Part 121 certified U.S. Commercial Air Carrier able to provide these flights. In these flights our aircraft flies up and down – as if going up and down a series of gently rolling hills -- rising and falling about 10,000 feet creating simulated reduced gravity environments that last about 30 seconds. This flight profile produces a near exact sensation to what one would feel on Mars, on the Moon, or on spacecraft operating in space, depending on our flight profile. Our customers include individuals, corporate charters, a wide variety of research flights for leading global universities and space authorities, and media productions. ZERO-G operates extensively in the U.S., and our aircraft is available for international tours with the potential of forming a JV for an overseas zero-gravity operation.





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**GLEC 2022 will focus on:**

- Creating awareness on the essential legislative and policy elements that must be considered in establishing a firm foundation for national or regional space ecosystems.
- Promoting the creation and development of a local/regional space ecosystem that is innovative, responsive, robust, and commercially viable.
- Highlighting the socio-economic benefits of space applications so that high-level citizen support can be secured for advancing national or regional space ecosystems.



Amazon Web Services (AWS) helps commercial and government customers build satellites, conduct space and launch operations, and reimagine space exploration. With the AWS Cloud, customers are accelerating space missions, removing barriers to innovation on Earth, and inspiring future generations.

Stop by our booth (H7-30) to meet the team and learn more.



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