RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

EXHIBITORS CATALOGUE

FRENCH DELEGATION

Booth MA-A18 & MN-A10

IAC MILAN

October 14 - 18 2024

cnes
CENTRE NATIONAL D'ÉTUDES SPATIALES

aerospace valley

THE OVERVIEW

EUROPEAN SPACE INVESTORS DAY

Tuesday, October 15th
5PM - 11PM

"Whether long-established or emerging, our companies stand at the forefront of innovation in all areas of space."

Dr. Philippe BAPTISTE

EN ATTENTE CONTENU

Spanning civil, military, and commercial domains, France has been playing a pivotal role since the dawn of the space era. Our endeavors have propelled groundbreaking discoveries and pushed the boundaries of human achievement alongside our partners. As one of the world's few historic space agencies, CNES has paved the way for the development of French expertise, fueling a blooming ecosystem through its space programs, in particular the Connect by CNES initiative, and ambitious investments like the France 2030 plan.

Today, I am proud to present this expertise cultivated by French companies in space, underlined by the support of CNES and its partners from French Space Command and public institutions.

Whether long-established or emerging, our companies stand at the forefront of innovation in all areas of space, notably in satellite manufacturing, launchers, telecommunications, cybersecurity, Earth observation and space transportation. They successfully compete and excel on both sides of the Atlantic and in the global market, enabling scientific achievements with our partners and helping to guarantee national and European security through their technologies.

In this fast-moving ecosystem, cooperation remains a strong pillar on which to build our future, as more and more challenges call for a joint response. Our agencies and companies are eager to drive new initiatives, develop future innovations and move forward together, tackling climate change, exploring the universe, supporting national security efforts, and guaranteeing a sustainable human presence on the Moon.

It is with great pleasure that I invite you to discover the panoply of French expertise during this 39th Space Symposium. This brochure showcases the diversity, quality, and expertise of French space players, as well as the partnership and collaboration opportunities they offer.

Dr. Philippe BAPTISTE
Chairman and CEO of CNES

Supported by

SOUTH NORTH WING LEVEL

Booth MA-A18 & MN-A10

RÉPUBLIQUE FRANÇAISE
Liberté
Égalité
Fraternité

NETWORKING EVENTS PROGRAM ON THE BOOTH 403

FRENCH DELEGATION

MORE INFO

Booth 403
South Hall

SPACE FOUNDATION SPACE SYMPOSIUM
April 8-11 2024 Colorado springs

Networking events Program on the Booth 403

Tuesday 9th April · 1–2 PM
HOW TO LEVERAGE ON-ORBIT MOBILITY
Café français

Tuesday 9th April · 4–6 PM
MEET THE FRENCH SPACE INDUSTRY
Networking cocktail
Speakers : Dr. Philippe Baptiste Chairman and CEO of CNES and MG Philippe Adam French Space Commander

Wednesday 10th April · 9–10 AM
HOW OPTICAL TECHNOLOGIES DISRUPT SPACE
Café Croissants

Wednesday 10th April · 10:30–11:30 AM
SPACE AND CYBER
Café Croissants

Thursday 11th April · 9–10 AM
SURVEILLANCE & ACTIVE DEFENSE, NEW CHALLENGES IN SPACE : A FRENCH PERSPECTIVE
Café Croissants

EN ATTENTE
CONTENU

KEY NUMBERS

EN ATTENTE

CONTENU

HELPING SUSTAIN THE SPACE ECOSYSTEM'S COMPETITIVE EDGE

CNES is boosting the French space industry's competitiveness, helping the ecosystem's stakeholders to diversify not only through development of disruptive technologies but also by establishing new partnership and co-funding models with industry. We are thus supporting the transition from an infrastructure-based economy to a data-driven model, as we seek to advance new applications and services.

SPACE IS KEY TO OUR STRATEGIC INDEPENDENCE

To sustain France's national sovereignty, CNES is engaged in the Ariane 6 programme, helping industry and entrepreneurs to conceive the low-cost reusable launchers of the future. We are supporting the ramp-up of military space capabilities and playing a prime role in acquisition and processing of satellite data.

PROMOTING FRENCH SPACE SCIENCE BEYOND OUR BORDERS

Pursuing our remit to serve science, CNES is leading ambitious missions and extending French excellence in Europe and worldwide through its efforts to sustain space science research and a vigorous cooperation policy.

COMMITTED TO A SUSTAINABLE WORLD

And in a world increasingly prone to climate disruptions, CNES is making climate science a top operational priority and consolidating its commitments, notably through its Earth-observation programmes and the Space Climate Observatory (SCO). We are also leading by example in reducing our environmental footprint and being a socially responsible employer.

Jean-Marc ASTORG

CNES'S DIRECTOR OF STRATEGY

"I am particularly pleased that CNES is taking part for the second year running in the Space Symposium, along with its public and private partners," said Jean Marc Astorg, CNES's Director of Strategy. "More than 80 French space stakeholders will be in attendance on the "France booth", including several start-ups supported through our Connect by CNES programme. This is a key initiative driving development of New Space in France, and is accompanying and federating the space user community in Europe and around the world. Through our involvement at this 38th Space Symposium, we are showcasing our ecosystem on the international stage."

cnes.fr/en

EN ATTENTE

CONTENU

CNES is the government agency responsible for shaping France's space policy and implementing it in Europe. Its task is to conceive and orbit satellites, invent the space systems of the future and nurture new services to aid us in our daily lives.

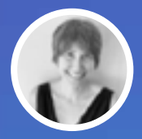
Founded in 1961, it is the initiator of major space projects, launch vehicles and satellites, and the partner of choice for industry, supporting exports and fuelling innovation. CNES comprises some 2,400 men and women with a passion for space working to open up new and infinite fields of [illegible] five core areas of focus: Ariane, science, Earth observation, telecommunications and defence.CNES is a key player driving technology research, economic development and industrial policy for the nation. It also fosters scientific collaborations and has forged numerous international partnerships.

France, represented by CNES, is one of the leading contributors to the European Space Agency (ESA).

Sovereignty, scientific cooperation, climate science and economic competitiveness form the four strategic pillars of France's space policy.

APPLICATION SECTORS

- Space
- Cluster
- Leader
- Network
- Competitiveness
- Innovation



Catalina RODRIGUEZ
DEPUTY DIRECTOR FOR SPACE
+33 (0)6 76 62 91 75
rodriguez@aerospace-valley.com

Sylvie TEYSSEYRE
SPACE DATA ECONOMY AND SCALE MANAGER
+33 (0)6 16 38 66 32
teysseyre@aerospace-valley.com

Marc GUGGARI
SPACE INFRASTRUCTURES AND NEWSPACE FACTORY MANAGER
+33 (0)6 76 75 92 45
guggari@aerospace-valley.com

AEROSPACE VALLEY

Aerospace Valley is the leading European competitiveness cluster in the aerospace sector

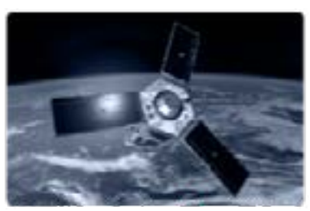
ABOUT US

Gathering more than 850 members of which 400 are space-related, Aerospace Valley is the largest cluster of the space industry in Europe. Its aim is to structure and connect the aerospace ecosystem in the two Regions of the South West of France: Occitanie and Nouvelle-Aquitaine.

Through synergies with other industrial and digital verticals, Aerospace Valley has built on 20 years of French, European and global partnerships. This deep integration in the space community is benefitting our members all along the innovation process: from ideation, start-up incubation, to scale-up and funding.

As a major enabler of innovation in France and Europe, Aerospace Valley is committed to strengthen the dazzling European space sector by building bridges between public actors, commercial players, researchers, but also end users and providers.

In a challenging economic context, we strive for commercial competitiveness, scientific excellence as well as technological, industrial and military sovereignty for both upstream and downstream space segments.



Bruno DARBOUX
AEROSPACE VALLEY DIRECTOR

> This year, Aerospace Valley is proud to be besides CNES, the French Space Agency to show the global space family what the French space ecosystem is currently advancing on. More than 25 players are presenting their innovative activities on the French Pavilion. It is the perfect time to know more about the French space sector and its long-lasting leadership in space. Aerospace Valley, the leading European aerospace competitiveness cluster is supporting the space ecosystem of the Great South West of France for almost 20 years. Aerospace Valley runs in particular two flagship initiatives bolstering French Newspace companies: NSF and SCALE; and an accelerator of startups DISTRICT. Aerospace Valley also operates the incubator ESA BIC South France. Newspace Factory (NSF) is a collective action focused on upstream industry; and Space Climate League (SCALE) promotes downstream applications to address climate mitigation and adaptation challenges.

aerospace-valley.com

Aerospace Valley is the leading European competitiveness cluster in the aerospace sector in Occitanie/Pyrénées-Méditerranée and Nouvelle-Aquitaine French regions.

With its diverse ecosystem of more than 850 members from leading groups, start-ups, SMEs, research laboratories, public actors, academic institutions and training organisations, Aerospace Valley is the only community in the world that brings together all the actors in the value chain from all segments of the aeronautics and space sector.

Aerospace Valley contributes to the development and competitiveness of its members through innovation by promoting collaborative research and development projects.

The Cluster is committed to being a recognized regional player at the national, European and world-wide levels. Aerospace Valley works to ensure that the stakeholders in its territories are Pioneers of the Ecological Transition of the aerospace sectors, to accelerate the Digital Transformation with the aim of increasing the competitiveness of its sectors, to boost innovation, to ensure the growth and secure the future of its sectors.

Invest & Trade in Occitanie

REFERENCE CUSTOMERS

Astroscale, Pangea Aerospace, AIKO - Infinite ways to autonomy Dawn Aerospace, Tekever ... have recently chosen the Occitanie region.

APPLICATION SECTORS

- Leader in Europe for space activities:
- Infrastrutures
- Integration
- New space
- Applications
- Satellites of all sizes

Carole CREVEL

INVEST & TRADE PROJECT MANAGER

+33 (0)6 12 59 43 26

carole.crevel@agence-adocc.com

invest-in-occitanie.com/en

AD'OCC

AD'OCC Invest & Trade Occitanie, is the regional development agency of the Occitanie region.

ABOUT US

For the past 25 years, AD'OCC, the economic development agency of the Occitanie region, has been providing support to space companies seeking to establish operations in Occitanie (capital cities: Toulouse and Montpellier).

OUR OFFER

Strategically situated in Toulouse and Montpellier, within the dynamic Southwestern region of France, AD'OCC extends comprehensive support to companies in their development.

From establishment to fostering innovation, facilitating growth, securing funding, enabling exports, facilitating ownership transfers, we serve as a catalyst for talent attraction.

COMPETITIVE EDGE

The Occitanie region is Europe's leading space industry, accounting for 40% of French jobs in the sector, with over 15,000 jobs.

Major prime contractors are here: CNES (French Space Agency), Airbus Defence & Space, Thales Alenia Space.

Find a complete industry at your service: from design to integration, from infrastructures to applications and uses, and from start-ups to large groups.

Occitanie is also the birthplace of the Globalstar, Iridium, Oneweb, Kineis, Lightspeed constellations...

IAC 2024 | MILAN

ALPHA RLH LASERS & MICROWAVES FRENCH CLUSTER

REFERENCE CUSTOMERS

Thales, Ariane Group, Safran Electronics & Defense, Cailabs, Exail, Saint-Gobain

APPLICATION SECTORS

- Asd
- Space
- Photonics
- Microwaves
- Lasers

Isabelle TOVENA

EUROPE & INTERNATIONAL MANAGER

+33 (0)6 86 42 95 87

i.tovena@alpha-rlh.com

alpha-rlh.com/eng

ALPHA-RLH

A deeptech cluster in Nouvelle-Aquitaine region

ABOUT US

The ALPHA-RLH French Competitiveness Cluster works with companies and laboratories in setting up, evaluating and funding innovative projects.

It also provides support to SME members internationalizing and exporting to global markets. ALPHA-RLH is structured around three key Strategic Fields of Activity: Photonics-Lasers, Microwaves-Electronics and Materials, with the support of digital tools, for four applied markets: Health, Communication-Security, Aeronautics-Space-Defense and Energy-Smart Buildings.

Based in the Nouvelle-Aquitaine region, the cluster has nearly 300 members.

OUR OFFER

Promote and facilitate innovation and collaboration between ASD players and deeptech providers.

Many fields of interest:

- Embedded systems for navigation/ communication (lasers, optic fiber, microwaves), embedded optronic systems (imaging, lighting, embedded LIDAR)
- Factory of the future (laser procedures on space materials, robotics, NDT, ..)
- Sensing people (night vision, remote detection, radar, ..)
- Imaging and signal transmission for Space and Astronomy
- Digital solutions dedicated to military and space markets
- Cognitics integrating human factors in the design and ergonomics of cutting-edge equipment
- Cryptographic development for security in communication

COMPETITIVE EDGE

The ALPHA-RLH cluster's innovative approach has accelerated our members' growth and improved knowledge in the technological fields of Photonics-Lasers and Microwaves-Electronics in Nouvelle-Aquitaine.

- 292 members
- 105 start-ups created
- 58 companies established in the Nouvelle-Aquitaine region
- 4,000 direct, highly-qualified jobs created, and 12,000 indirect jobs created
- 1574 projects certified
- 739 projects funded

REFERENCE CUSTOMER

CNES, ESA, Thales Alenia Space, Airbus DS, Stmicroelectronics

APPLICATION SECTORS

- Satellite Modem Product
- Custom IC Design Services
- Electronics Design Service

Sebastien LAVILLE

SALES & MARKETING MANAGER

+33 (0)6 22 93 57 26

sebastien.laville@easii-ic.com

easii-ic.com/en/satcom

EASII IC

We develop and distribute satellite communication products (ASIC) for the current and new generation of DVB-S2x demodulators.

ABOUT US

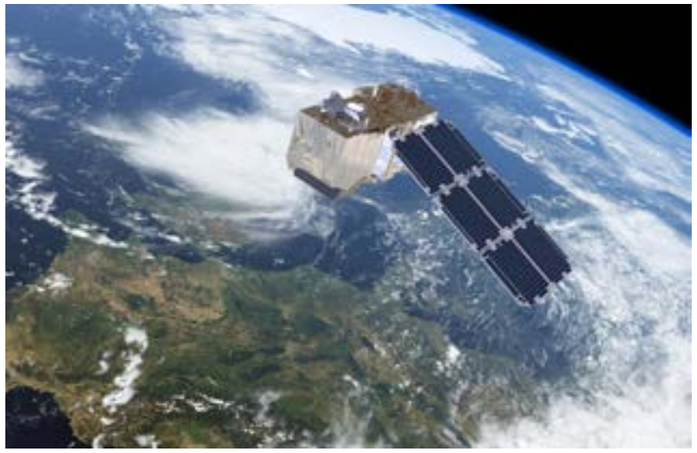
Founded in 2002, EASii IC is a fabless semiconductor company developing state-of-the-art fully custom Integrated Circuits (ICs), with an advanced electronic design center.

OUR OFFER

We offer end-to-end IC design services, from architecture to mass production including ASIC/FPGA design, hardware, software, and system integration. EASii IC operates in various industries such as space, aeronautics, consumer electronics, telecommunications, and industrial applications.

COMPETITIVE EDGE

EASii IC competitive advantage is a strong team of experienced engineers and a customer-focused approach. We deliver high-quality, innovative, and cost-effective turnkey solutions (Low Power, Data Conversion, High Voltage, Space Radhard), ensuring reliability and performance at every step of the development process for top-tier clients worldwide.

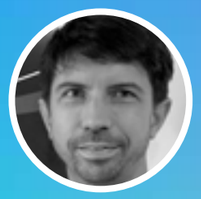


REFERENCE CUSTOMERS

CNES, Swissto12, Kinéis, Astroscale, Airbus Defence & Space, Thales Alenia Space, OHB, The Exploration Company, French Space Command, European Space Agency...

APPLICATION SECTORS

- Smallsat
- Stratospheric balloons
- Space vehicles equipment: Harnesses, Structures, MLI
- Solar arrays
- High Altitude Pseudo Satellite (HAPS)



Guillaume LECAMP

HEAD OF SPACE AND SKY DIVISION

+33 (0)6 03 79 90 09

guillaume.lecamp@hemeria-group.com

hemeria-group.com

HEMERIA

HEMERIA is committed to democratizing access to Space.

ABOUT US

HEMERIA designs, builds and supplies cutting-edge space systems and vehicles for commercial, institutional and scientific customers domestically, Europe-wide and internationally.

As leader in the smallsats and stratospheric balloons sectors, HEMERIA gives newcomers access to space, thanks to optimized and competitive solutions, based on France's technical heritage.

HEMERIA supports its customers from the design of their solution up to orbiting of the operational system.

OUR OFFER

HEMERIA designs, builds and supplies satellite systems for all types of space missions: science, commercial and defense. HEMERIA offers a complete range of smallsats for both LEO and GEO orbits. Our different smallsat buses are designed to address a wide variety of use cases: Earth observation, Science, Connectivity and Space Situational Awareness.

HEMERIA designs and manufactures stratospheric balloons intended to carry scientific and technical missions up to 45 km into the stratosphere. We are the leading supplier of scientific stratospheric balloons to the CNES (French space agency) and to several other space agencies.

HEMERIA supplies industry primes and New Space start-ups with reliable and flight proven space equipment: harnesses, structures, multi-layer insulation and solar arrays.

COMPETITIVE EDGE

HEMERIA is both a reliable industrial partner and space mission leader. With more than 4,000 sq-m of clean rooms and an experienced team of space enthusiasts, we are able to meet the requirements of highly demanding programs requiring specific design or batch production. Regarding stratospheric balloons, HEMERIA benefits from a fifty-year heritage and a unique industrial site in Europe.

SIRIUS SPACE SERVICES

«We transform access to space for small satellites with swift, reusable launch solutions that combine sustainability and affordability»

ABOUT US

Since 2020, Sirius Space Services has been fueled by the ambition to redefine access to space with a focus on sustainability and cost-effectiveness. Based in the Île-de-France region, we specialize in delivering fast, reusable launch solutions tailored for the expanding commercial small satellite market. Our team, of 80 skilled experts and young engineers, is committed to enhancing Europe's strategic independence through innovative and environmentally conscious launch services.

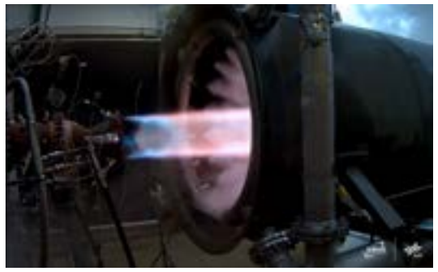
OUR OFFER

At Sirius Space Services, we design and manufacture a range of launchers dedicated to smallsat missions. Our launchers—SIRIUS 1, 13, and 15—are specifically designed for satellites weighing up to 1,100 kg, allowing us to provide fast and efficient orbital delivery services. Each mission is tailored to ensure our clients enjoy seamless and optimized access to space, all while we prioritize minimizing our environmental impact. We optimize our launchers by leveraging key technologies, such as additive manufacturing processes, to reduce costs, enhance performance, and increase launch rates.

COMPETITIVE EDGE

Our launchers are based on five key principles :

- Sustainability Commitment: Our launchers are powered by bio-propellants using liquid oxygen and liquid methane (LOX/LCH4). We aim for full reusability of our launchers by 2030.
- Technology and Cost Efficiency: Our engines, STAR 1, are designed and manufactured in-house using metal additive manufacturing, and we use COTS components to provide competitive costs without compromising performance.
- Flexibility: The SIRIUS launchers adapt to each client's unique needs. We maximize and guarantee a fill rate of over 85%, offering an agile and reliable solution.
- Shared R&D: Our boosters, used for SIRIUS 13 and 15, are derived from the first stage of SIRIUS 1, ensuring optimized performance across the entire range.
- High Launch Cadence: By 2027, we plan up to 6 launches per year, with the goal of reaching 12 annual launches by 2030.

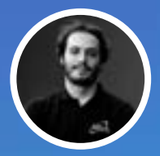


REFERENCE CUSTOMERS

French Government, CNES

APPLICATION SECTORS

- Small-launchers
- Dedicated launchers
- SmallSats
- Range of launchers
- New Space
- Additive Manufacturing



Antoine FOURCADE
CEO & CO-FOUNDER
antoine.fourcade@sirius-space.com

Hugues CHOPARD
SALES MANAGER
hugues.chopard@sirius-space.com

sirius-space.com

IAC 2024 | MILAN

UNSEENLABS

Unseenlabs delivers cutting-edge RF satellite technology that enables precise detection and monitoring of maritime activities, ensuring visibility of all vessels, even those attempting to remain hidden, to enhance global maritime security and combat illegal practices.

ABOUT US

Unseenlabs is a global leader in space-based radio frequency (RF) detection, offering precise monitoring of maritime activities. Unseenlabs' constellation satellites enables governments, NGOs, and commercial partners to detect vessels that have turned off their AIS transponders, ensuring transparency and security at sea. By delivering actionable data, Unseenlabs empowers its clients to combat illegal activities such as overfishing, piracy, and ocean pollution. Unseenlabs is revolutionizing maritime surveillance with its unique monosatellite technology.

OUR OFFER

Unseenlabs offers an innovative maritime surveillance solution based on monosatellite technology. Unlike traditional systems that require multiple satellites for triangulation, their technology relies on just one satellite to detect and track vessels emitting radio frequency signals. With 15 satellites currently in orbit, Unseenlabs provides global coverage through multiple collection points, ensuring that no vessel, even those operating in stealth mode, escapes detection. Their data is lightweight, easily processed, and complements existing maritime monitoring systems, enabling efficient tracking and response to illegal activities at sea.

COMPETITIVE EDGE

Unsenelabs' technology eliminates the need for triangulation, relying on a single satellite for vessel detection. With 15 satellites in orbit, they offer extensive coverage across multiple collection points. Their data is lightweight, easily processed, and provides reliable detection in all weather conditions, day or night.

REFERENCE CUSTOMERS

Marine Nationale, Armateurs, Assureurs, Câbliers, ONG

APPLICATION SECTORS

- Maritime surveillance
- Defense and security
- Environmental protection
- Combating illegal activities at sea
- National security
- Marine insurance
- Fleet and vessel tracking
- Critical infrastructure security

Cannelle GAUCHER
COMMUNICATIONS MANAGER
+33 (0)7 68 70 83 66
cannelle.gaucher@unseenlabs.fr

unseenlabs.space

ALPHA IMPULSION

Alpha Impulsion offers Europe's most cost-effective smallsat launches with its autophage engine, using the rocket's fuselage as fuel to improve performance, cut down launch costs, and reduce the risks of debris.

APPLICATION SECTORS

- Space transportation
- Launch service
- Autophage propulsion
- New space

ABOUT US

Alpha Impulsion was created to become Europe's most cost effective and competitive launch service provider. The small company, with offices in Toulouse and Torino, has grown to a size of 16 employees since its incorporation in late 2022. With 1M€ of funding, the company expects to demonstrate its revolutionary technology by the end of the year, in a program backed by CNES and BPIFRANCE. The company is also part of the Takeoff national aerospace accelerator since Q2 2024, with partners such as PlugAndPlay, CDP, Avio and ASI.

OUR OFFER

We are designing Grenat, the first autophage rocket and Europe's most competitive launch service. Despite a growing number of projects, micro-launchers have fallen short on their promises : customers still prefer rideshare opportunities to pricey dedicated alternatives. We are offering the dedicated payload capacity of 1 ton to Low Earth Orbit at a price equivalent or lower to rideshare launches.

COMPETITIVE EDGE

Alpha Impulsion has developed a unique technological breakthrough : autophage propulsion. With this architecture, no tanking, staging, or structure is needed. The fuel of the rocket, made from a recycled polymer, is used as tank and fuselage. The rocket burns in candle-like manner, as the rocket engine progressively consumes its own body for propellant. At the end, only the engine and the payload remain. As no structure is manufactured, transported, and launched into orbit, the launcher is cheaper to produce, is easier to handle, is more performant to launch and has less risks of producing debris, both in-space and on the ground !

Marius CELETTE
CEO
+33 (0)7 81 18 46 42
marius.celette@alpha-impulsion.com

alpha-impulsion.com

HSTAR

HStar provides independent heavy space transport services, unlocking creativity and longevity for Europe's largest new projects.

APPLICATION SECTORS

- Independent Launch Capability
- Expanded Payload Capacity
- Docking Capability
- Assured Space Access

ABOUT US

HStar is a Franco-American technology collaboration that offers an independent and fully reusable heavy-class transport solution. Our multi-mission, reconfigurable vehicle cost-effectively closes the gaps in Earth orbit transport for Europe.

Led by an experienced and proven team from Kinéis, CNES, Thales, SES, Eutelsat, SpaceX, and NASA, HStar leverages an established supply chain and global spaceport partnerships.

OUR OFFER

HStar serves an extensive array of mission types:

Satellites:

- Low Earth Orbit Infrastructure
- Heavy and Large Volume Singular Satellites
- Mega-Constellation Stack
- Heavy Satellite Bus
- Heavy Payload to GEO
- Small Satellites Rideshare

Cargo:

- Cargo delivery to LEO and space stations, with flexibility for on-orbit manufacturing and delivery of finished products to Earth or orbit

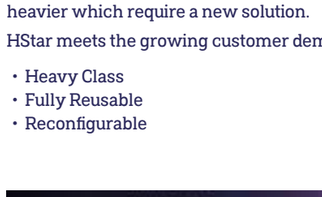
- **Passengers:**
- Space Station Passenger Transport
- Multi-Day Orbital Tourism & Research
- Exploration Missions
- ISAM (In-Space Servicing, Assembly, and Manufacturing):
- Large Infrastructure for Space Mobility and Logistics
- Manufacturing at Large Scale
- In-Orbit Refueling

COMPETITIVE EDGE

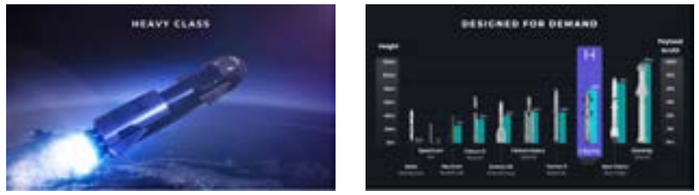
HStar's team previously led other world-class space programs. Our heavy-class vehicles will push beyond the limitations of small and medium rockets. Customers around the globe are building next generation products that are larger volume and heavier which require a new solution.

HStar meets the growing customer demand by providing these capabilities:

- Heavy Class
- Fully Reusable
- Reconfigurable
- Multi-Mission
- Lower Cost
- Launching from Kourou



François HENRY
CEO FRANCE & EVP EUROPE
33 (0)7 85 75 27 40
francois@hstarspace.com



hstarspace.com

CONNEKTICA

REFERENCE CUSTOMERS

Atem, Anywaves, U-Space, Mda Space

APPLICATION SECTORS

- Assembly, Integration and Test Software
- Satellites integrators
- Space components manufacturers
- ASD (Aero, Space & Defense)
- OEMs & SMEs
- RF components, Reactions wheels, Batteries, Solar Arrays, Propulsion...

Stephane GALINIER
COO
+33 (0)6 15 05 17 77
stephane.galinier@connektica.com

Jeremy PERRIN
CEO
+33 (0)7 69 60 12 35
jeremy.perrin@connektica.com

connektica.com/en

SOLUTION CONNEKTICA

Connektica empowers satellite integrators and space component manufacturers to gradually increase production rates, reduce costs, and shorten lead times, all while ensuring the necessary standards of quality and safety are maintained

ABOUT US

Connektica, founded in 2019, is a French-Canadian company specializing in industrial automation, web software development, and data engineering, with a strong focus on Assembly, Integration, and Test (AIT) processes within the satellite industry. Supported by ESA, CNES and CSA, the Connektica platform has already been used to integrate and test thousands of flight components and assemblies for demanding space industry customers.

OUR OFFER

Connektica AIT platform is helping space organizations to optimize their internal production and simplifies collaboration in the satellite supply chain.

The activity sequencer developed by Connektica enables assembly and test procedures to be digitized in no-code configuration, and production instruments to be connected in complete autonomy.

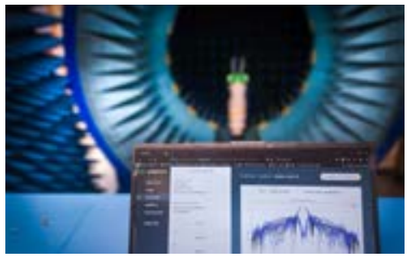
In order to guarantee expected quality levels and process optimization, the time spent at each stage is finely monitored, and global KPIs are available for the various stakeholders involved (Engineering, Operation, Quality) in real time.

By leveraging the standardized Connektica ecosystem, clients can easily work with both SMEs and large manufacturers.

COMPETITIVE EDGE

The platform is secure and easy to use, allowing non-experts to safely manage AIT tasks on critical hardware, while experts can leverage their existing assets independently (workflows, instruments drivers, analysis).

Fast to deploy, scalable, and flexible, it's a turnkey solution that grows with production ramp-up and integrates seamlessly with third-party tools via standard API.



SPACE CARGO UNLIMITED

REFERENCE CUSTOMERS

CNES

APPLICATION SECTORS

- Reentry Vehicle
- In-Space Manufacturing
- IOD/IOV
- Microgravity experiments
- Payload Integration Management

Mathieu GOUDOT
CHIEF REVENUE OFFICER
+33 (0)6 23 27 15 30
mgoudot@space-cu.com

space-cu.com

SPACE CARGO UNLIMITED

Space Cargo Unlimited's REV1 platform is a pressurized, reusable space vehicle enabling automated manufacturing of high-value products in microgravity.

ABOUT US

Tailored for institutional and commercial customers, the REV1 platform facilitates the production of high-value products in microgravity, which are impossible to produce on Earth. Our mission is to advance technological frontiers across sectors such as pharmaceuticals, materials, and electronics, while also providing in-orbit demonstration and validation (IOD/IOV) services for the space industry. With key partnerships and in-house manufacturing, we are set to launch our space factory services by Q4 2025.

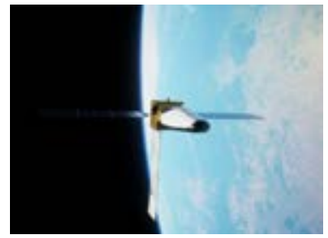
OUR OFFER

The REV1 platform's core module, BentoBox, is set to launch in Q4 2025, heralding the start of a new era in space-based manufacturing. It will offer:

- In-orbit demonstration and validation (IOD/IOV) solutions with guaranteed return flights, empowering partners to gain flight heritage and increase their TRL.
- Excellent payload integrations services for microgravity experiments for both commercial and institutional customers.
- A high level of engineering and payload support, with customizable parameters such as temperature, data, and power requirements.

COMPETITIVE EDGE

Our competitive advantage lies in our unique experience with microgravity experiments, with our engineering team cumulating 25+ years of experience flying scientific payloads, enabling a supreme level of customer care and satisfaction. Additionally, with full ownership of the entire REV1 system and strategic partnerships with industry leaders, we ensure unparalleled reliability and guaranteed orbital return flights.



ALDORIA

Léo LEFEBVRE
PRODUCT MANAGER
llefebvre@aldoria.com

Benjamin ETARD
SENIOR SALES MANAGER
+33 (0)6 62 98 99 06
betard@aldoria.com

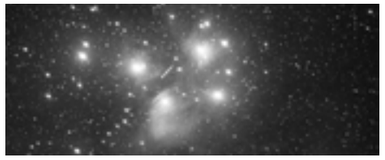
aldoria.com

ALDORIA

Aldoria collects, processes and leverages space situational awareness data to protect critical assets and resources in space.

APPLICATION SECTORS

Aldoria delivers cutting-edge Space Situational Awareness and real-time space traffic management. Thanks to our proprietary telescope network, Aldoria's Orbital Information System provides optical-based data and actionable insights for automated collision avoidance data, including maneuver recommendations, redundant tracking at all orbits, and threat alert generation to ensure effective security management.



CYSEC

Anna BARRAQUÉ
PRODUCT ENGINEER
+33 (0)6 42 06 91 24
eias.daka@eviden.com

cysec.com

CYSEC

CYSEC offers cybersecurity solutions to secure your space communications and your data on the ground.

APPLICATION SECTORS

- CYSEC provides high-performance cybersecurity solutions designed to protect sensitive data and communications without compromising efficiency.
- The portfolio includes three key products:
- ARCA SATLINK LIB, a cryptographic library for encrypting and authenticating telemetry and telecommand (TMTC);
- ARCA SATCOM VPN, an advanced VPN tailored for satellite communications, outperforming terrestrial VPNs;
- ARCA TRUSTED OS, a hardened Linux-based operating system that secures data at rest, in transit, and in use, leveraging Confidential Computing.

comat

Pierre VEDRENNE
BUSINESS DEVELOPER
+33 (0)6 79 34 72 06
p.vedrenne@comat.space

comat.space

COMAT

With more than 45 years of technical expertise, Comat is a leader in the design and manufacturing of space equipment.

APPLICATION SECTORS

Comat develop mainly 2 products families:

Equipment based on accurate and reliable mechanism

- Reaction wheels for smallsat (20 mNms to 1Nms) and LEO / MEO constellations (1Nms to 50Nms),
- Solar Array Drive Mechanism for smallsat (200W and 1500W),
- Pointing mechanism for antenna, motor, camera, mirror...

Deployable sub-system

- Deployable antenna,
- Deployable structure (arm, mast, sail...),
- Boom.

HYPR SPACE

Abdourhamane TOURE
BUSINESS DEVELOPER
+33 (0)6 47 18 52 53
toure.abdourhamane@hypr-space.com

cailabs.com

HYPRSPACE

HyPrSpace offers a breakthrough hybrid rocket propulsion technology, enabling more cost-efficient, reliable, and environmentally-friendly space access

APPLICATION SECTORS

- Our main product is the micro-launcher OB-1, capable of sending 250kg of payload in LEO with cost-effective dedicated rides. But our propulsion system is scalable, and applicable to a wide range of vehicles, from space transportation to defence, and on orbit mobility.
- HyPrSpace wish is to propose a solution for all space industries requiring an access to space. Furthermore, considering its expertise in hybrid propulsion, we can also propose a motorization system scalable for a wide range of application.

Thomas HIRIART

CEO

+33 (0)6 31 89 46 52

thomas.hiriart@ion-x.eu

ion-x.space

ION-X

Smart, powerful and efficient electric propulsion for small satellites

ABOUT US

Launched in 2021, ION-X provides electric propulsion solutions for small satellites. Based on patented electrospray technology, our unique ionic liquid thruster delivers unmatched thrust and fuel efficiency while offering great operability with non-toxic & non-pressurized propellant.

© Cyril FRESILLON / C2N / Ion-X / CNRS Images

© ION-X

Lauriane MOULY

BUSINESS MANAGER

+33 (0)6 85 08 86 31

l.mouly@map-coatings.com

map-coatings.com/en_US

MAP SPACE COATINGS

Securing your space mission

APPLICATION SECTORS

MAP SPACE COATINGS designs, manufactures and applies a great variety of products including :

- Thermal control coatings for satellites
- Adhesives for satellites
- Conformal coatings for satellite electronics
- Lubricants for satellite mechanisms
- Thermal and electrical control coatings for launchers

Gregory FLANDIN

ARTIFICIAL INTELLIGENCE FOR CRITICAL SYSTEMS DIRECTOR

+33 (0)6 77 05 68 70

gregory.flandin@ irt-saintexupery.com

Didier RIGAL

BUSINESS DEVELOPMENT IRECTOR

+33 (0)6 08 28 98 40

didier.rigal@ irt-saintexupery.com

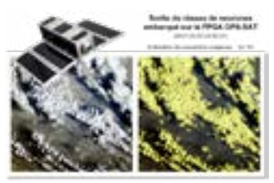
irt-saintexupery.com

IRT SAINT EXUPÉRY

We provide wireless optical communication allowing to exchange data at very high speed in a completely secure way without using radio frequency for space applications.

APPLICATION SECTORS

- Frugal, robust and explainable AI solutions for critical services and systems, publicly available as leading-edge open-source libraries, whitepapers and more than 80 scientific publications, structuring project appraisal such as DEEL, CONFIANCE AI.



Adrien MIR

CEO

+33 (0)6 75 90 66 57

a.mir@mecano-id.fr

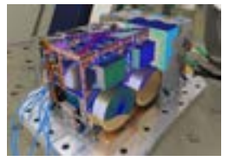
mecano-id.fr/en/home

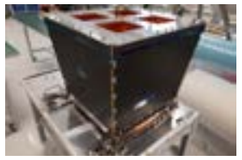
MECANO ID

MECANO ID deploys an agile approach ranging from one-off services to project management of sub-systems, adapting as closely as possible to the needs of its customers to serve their competitiveness.

APPLICATION SECTORS

- MECANO ID was founded focusing on mechanical and thermal engineering for the space industry. Today, it boasts almost 30 years' experience in mechanical and thermal architecture, design, sizing, R&D, environmental testing, production and integration.
- Since 2010 MECANO ID has developed its own product line composed of:
- Carbon structural parts (tubes, struts, inserts)
- Carbon Optical Baffles
- Ejection Of Satellite systems
- With the market moving on, MECANO ID is now bringing its specific expertise on structures with fairings & LVA's for the new launch solutions.





Benjamin AZOULAY

CEO

+33 (0)7 85 14 72 64

benjamin.azoulay@oledcomm.net

oledcomm.net

OLEDCOMM

We provide wireless optical communication allowing to exchange data at very high speed in a completely secure way without using radio frequency for space applications.

APPLICATION SECTORS

- On the launcher side : we offer inter-stage and intra-stage communication solutions that allow detachable connectors to be removed.
- On satellites : we reduce the number of cables by enabling high-speed wireless data exchange.
- Between two satellites : we enable optical communication for space rendezvous applications such as docking.
- We are currently developing longer-distance communications solutions for future space applications.

Valentin BENOIT

CEO

+33 (0)6 61 51 09 97

valentin.benoit@ridespace.io

ridespace.io

RIDE !

RIDE!'s digital platform provides access to space for satellite operators in a more convenient, affordable and reliable way.

APPLICATION SECTORS

RIDE! offers an all-in-one platform for satellite operators, streamlining the entire satellite launch process. Their services range from launch brokerage to comprehensive end-to-end launch management, covering everything from logistics to paperwork. Operators can choose from over 35 launch vehicles and orbital transfer vehicles, ensuring flexibility and tailored solutions for any mission needs.

RIDE! also provides last-minute deals for urgent missions, making space access more convenient, affordable and reliable. With extensive partnerships and global reach, RIDE!

Marie-Laure GOUZY

COUNTRY MANAGER FRANCE

+33 (0) 6 26 76 75 15

marielaure.gouzy@pangeaaerospace.com

pangeaaerospace.com

PANGEA AEROSPACE

We are experts in chemical space propulsion, providing our customers with the most efficient engines for accessing space, moving within it, and returning to Earth.

APPLICATION SECTORS

- Our range of products utilizes green propellants and provides higher performance compared to existing solutions on the market.
- In space propulsion devices run on HTP and kerosen.

Thanks to their modular design, they are highly scalable, ranging from 1 N to the hundreds of N, and they enable plug-and-play functionality for versatile maneuvering.

Ainara SANTA EUFEMIA

DIRECTOR OF INTERNATIONAL BUSINESS DEVELOPMENT

+34 686 461 859

santaeufemia@satlantis.com

satlantis.com

SATLANTIS FRANCE

SATLANTIS provides Small Satellites End-to-End Solutions, built around its propretary iSIM technology, to answer end-users' problems and challenges.

APPLICATION SECTORS

The core technology developed by SATLANTIS is the optical payload iSIM (integrated Standard Imager for Microsatellites), a family of high-resolution miniaturized cameras for Earth Observation operating onboard Small Satellites, with proven flight heritage.

TEKEVER

Eric ITCIA

SENIOR SYSTEM ARCHITECT, TEKEVER SPACE

+33 (0)7 68 96 54 71

eric.itcia@tekever.com

tekever.com/space

TEKEVER

Space is playing an increasingly important role for humankind and is an integral part of our economy. From Space Exploration, Earth Observation and New Technology Development, TEKEVER delivers you advanced Technology to push the boundaries in Space

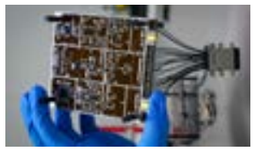
APPLICATION SECTORS

GAMALINK

- a SDR-based Inter-Satellite Link (ISL)
- for flexible in-orbit connectivity
- most advanced and flexible RF communication platforms,
- optimized for in-orbit connectivity

GAMASAR

- a Synthetic Aperture Radar payload
- technology provides cloud-penetrating and light-independent capability to capture key terrain data for multiple applications (security, environment...).



EXHIBITORS CATALOGUE

FRENCH DELEGATION

CONTACTS

Veronique De La Casa
SPACELY CHIEF OFFICER
veronique.delacasa@cnes.fr

Catalina Rodriguez
AEROSPACE VALLEY GESTION DU SPONSORING
rodriguez@aerospace-valley.com
space@aerospace-valley.com