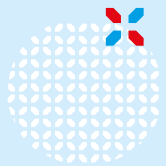
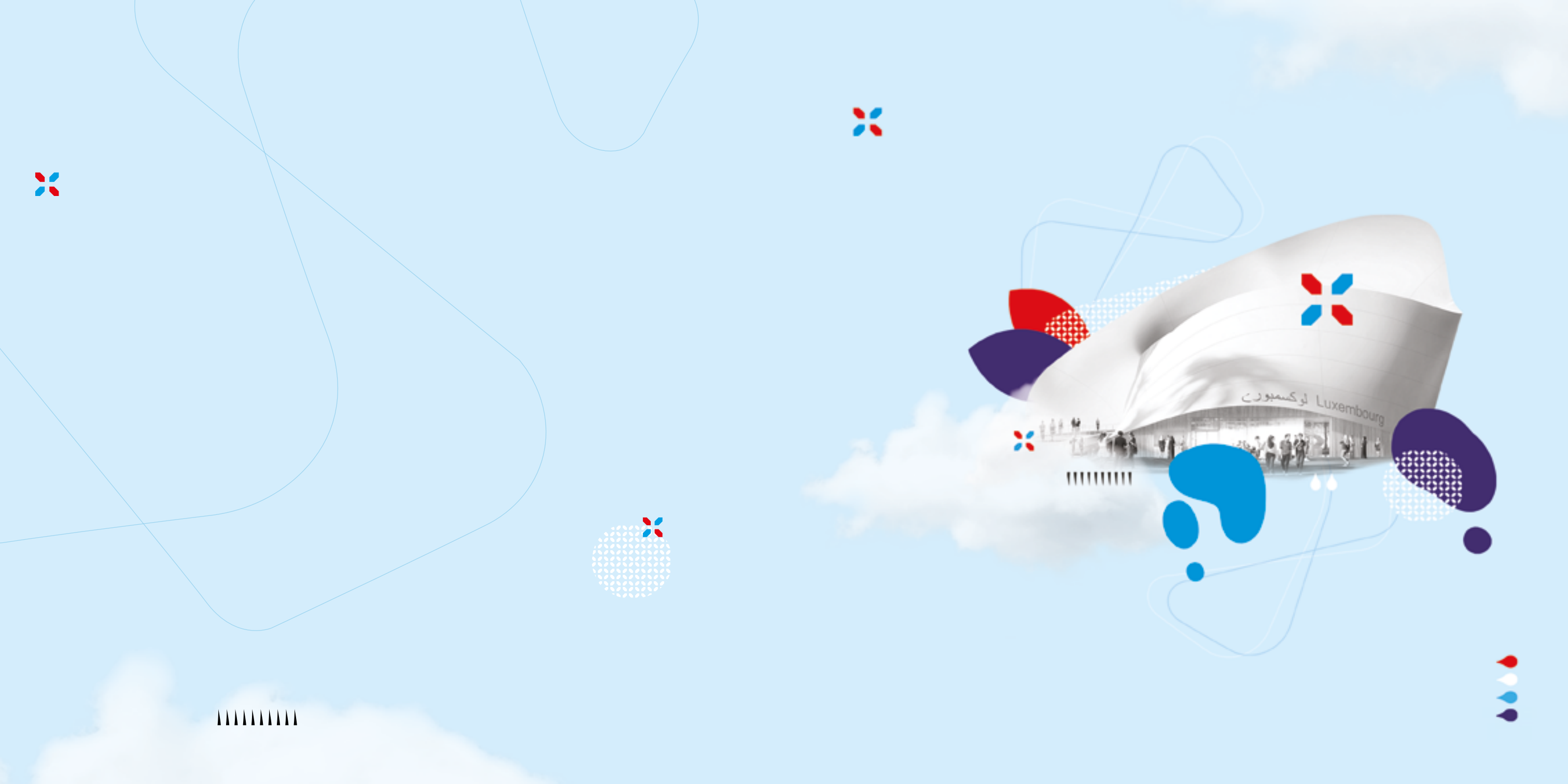


EXPO
2020
DUBAI

SPACE MISSION

24-30 OCTOBER 2021



PARTI CIPANTS

A professional portrait of H.E. Franz Fayot, a man with short brown hair and a light beard, wearing a dark suit, white shirt, and dark tie. He is smiling slightly and looking towards the camera.

H.E. FRANZ FAYOT

Minister of the Economy and Minister for
Development Cooperation and Humanitarian Affairs

OFFICIAL DELEGATION

**Embassy of the Grand Duchy of Luxembourg
in the United Arab Emirates****H.E. Robert Lauer** - Ambassador**Loris Nicoletti** - Counsellor**Ministry of the Economy**

Directorate General for Foreign Trade and Investment Promotion

Patrick Nickels - Director General**André Hansen** - Deputy Director, Member of the Board

of GIE Luxembourg @ Expo 2020 Dubai

Benjamin Bosch - Desk LTIO Abu Dhabi**Emil Pantea** - Head of International Trade Fairs & Exhibitions

Directorate General for Industry, New Technologies and Research

Mario Grotz - Director General

Minister's Office

Violaine Mathurin - Communication Advisor**GIE Luxembourg @ Expo 2020 Dubai****Maggy Nagel** - Commissioner General**Marc Scheer** - Secretary General**Ministry of Foreign and European Affairs****Anne-Catherine Thill** - Counsellor

INSTITUTIONS/ORGANIZATIONS

Luxembourg Chamber of Commerce 26**Carlo Thelen** - CEO**Maxim Straus** - Chairman of the International Affairs
Commission**Diana Rutledge** - Senior International Affairs Advisor,
North America, Oceania, UK, Ireland**Steven Koener** - Senior International Affairs Advisor,
Russia, CIS, Europe (North/East/Central)**European Space Resources Innovation Centre** 28**Lari Cujko** - Startup Program Lead**Luxembourg Arab Business Association** 29**Sufian Bataineh** - Secretary General**Luxembourg Institute of Science & Technology** 30**Thomas Kallstenius** - CEO**Ricardo Topham** - Partnership Officer**Luxembourg National Research Fund** 31**Andreea Monnat** - Deputy CEO**Luxembourg Space Agency** 32**Marc Serres** - CEO**Mathias Link** - Director International Affairs &
SpaceResources.lu**Bob Lamboray** - Policy Officer - SpaceResources.lu**Charles Koener** - Policy Officer - Economic Development**Juliette Pertuy** - Head of Communication

BUSINESS DELEGATION

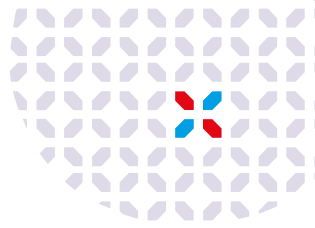
**Luxembourg Trade and Investment Office
in Abu Dhabi** 33**Loïc Bertoli** - Executive Director**Nadia Benchouk** - Senior Commercial & Economic Advisor**Sabrina Amiar** - Senior Commercial & Economic Advisor**SnT - University of Luxembourg** 34**Prof. Dr. Miguel Olivares-Mendez** - Head of Space
Robotics Research Group**Jose Ignacio Delgado-Centeno** - PhD Student**Kuldeep Barad** - PhD Student**Technoport** 35**Olivier Zephir** - Business Advisor**University of Luxembourg** 36**Prof. Dr. Mahulena Hofmann** - Professor**Prof. Dr. Jens Kreisel** - Vice-Rector for Research**Arendt & Medernach** 39**Emmanuelle Entringer** - Counsel**Max Kremer** - Partner**Contec Space** 40**Sunghee Lee** - CEO**DayOne** 41**José Dhur** - CEO**Deep Space Industries Europe** 42**Patrick van Put** - Managing Director**EBRC** 43**Jerry Probst** - International Business Development Manager**Flawless Photonics** 44**CK Singla** - President & CEO**Hubert Moser** - Director Ingeneering**GlobeEye** 45**Silvia Pepino** - Co-Founder & CEO**Elisabeth Maugars** - Head of Investor Relations

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Tor-Arne Grönland - Senior Director Business Development	
Gradel	47
Marco Marques - Key Account Manager	
HITEC Luxembourg	48
Philippe Osch - Senior Partner & CTO	
ispace Europe	49
Julien Lamamy - Managing Director	
Fred Conrads - Europe Business Development Manager	
KPMG	50
Henri Prijot - Partner	
LMO	51
Michel Poucet - CEO	
LMS Services	52
Bishr Shiblaq - Senior Legal Counsel	
LuxProvide	53
Pascal Bouvry - CEO	
Roger Lampach - CEO	

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Fabrice Testa - Co-Founder & CFO	
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Fernanda D'Acosta - Marketing Manager	
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Daniel Biedermann - Investment Partner	
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Marco Agnan - CTO	
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Omar Gaise - Founder & CEO	

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Bertrand Moupfouma - Lawyer	



LUXEMBOURG LET'S MAKE IT HAPPEN

OPEN
RELIABLE
DYNAMIC

Luxembourg is a world-renowned international business location and a secure and reliable hub for cross-border activities in a number of fields, including the digital economy, finance, logistics, space technologies, smart mobility, health technologies and clean technologies. The country is situated at the heart of several major EU markets. Global players of all sizes use Luxembourg as a gateway to Europe and beyond, benefiting from its closeness to decision-making centres and its excellent access to worldwide markets.

instruments and actions necessary to support the green transition and the digital transformation of the economy. The country's financial services industry leads the world in the listing of green bonds and is first in establishing itself as a hub for climate finance.

Already a global leader in satellite communications and broadcasting, Luxembourg has taken an audacious step towards becoming a major player in the management and use of space resources for the benefit of humankind. Building on decade-long experience in mining, finance and space, the country has developed a suitable legal framework to allow this to happen and is today a European hub for commercial space activities.

Luxembourg is known for its economic and political stability as well as for its strong long-term growth prospects. One reason of its success is its ability to react quickly to new opportunities. Luxembourg is providing an ideal business environment for combining successful economic development with long-term sustainability. The Ministry of the Economy developed a roadmap called "Our economy of tomorrow" to accompany the transformation of the Luxembourg economy by 2025. It addresses the industrial innovation policies, regulation, financial

This characteristic openness and willingness to test new innovative solutions, as well as the diversity of its population and physical environments, make Luxembourg an attractive "living lab" to develop new products and services.



A uniquely attractive business environment

Doing business in Luxembourg is simple. Successive governments willing to dialogue with companies have developed a favourable legal and regulatory environment. State-of-the-art infrastructures, excellent connectivity to markets and a strong reputation for commercial and political neutrality make Luxembourg an ideal place for international business to grow.

As a result, the world's largest steelmaker ArcelorMittal, satellite communication giant SES, automotive components maker Delphi, chocolatier Ferrero, tech firms Amazon, PayPal and eBay, as well as RTL Group, the leading European radio and TV broadcaster, and Cargolux, the world's leading all-cargo carrier, have chosen Luxembourg as a location for their global or European headquarters. Luxembourg is also home to a vibrant and international start-up community. Numerous support measures for start-ups, from incubation to success and acceleration, are available and incubators and co-working spaces offer premises both to newly created firms and to international companies looking for their first foothold in Luxembourg.

As one of the world's leading and most international financial centres, Luxembourg offers excellent access to private financing as well as specific financial vehicles to structure private equity investments. Companies can also benefit from attractive public funding programmes that help them expand their activities and strengthen their competitiveness.



A magnet for talent

Luxembourg has an exceptionally skilled workforce and attracts both talented expats and cross-border commuters. It is one of the most international countries in the world with 47% of the population being non-Luxembourgish. Cross-border thinking, mobility and the cosmopolitan nature of its working population contribute to the country's high productivity. Due to the language skills of the workforce – fluency in three or more languages is the norm rather than the exception – companies speak their customers' language, a significant advantage. German, French and Luxembourgish are official languages and English is also widely spoken.

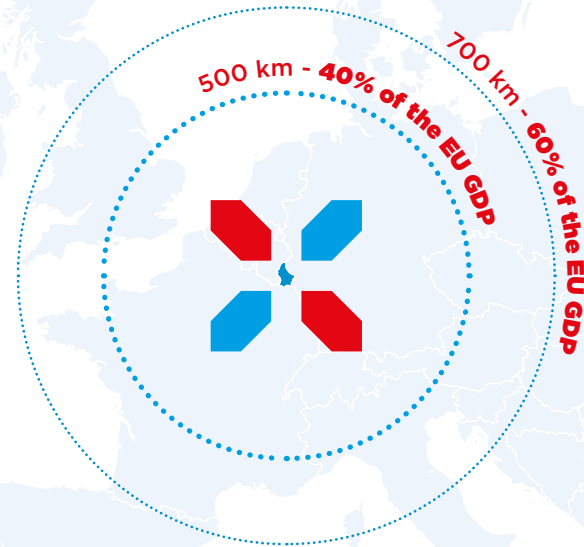
An innovation leader

Encouraging research, development and innovation is a national priority and the country invests heavily in both public and private research. Companies receive backing to help them develop innovative concepts, products and processes. Business-focused public research organizations collaborate with private businesses on R&D, product development and testing. Founded as recently as 2003, the University of Luxembourg today ranks among the world's top 250 universities.

Innovative activities such as biotechnology, fintech and the data-driven economy thrive in Luxembourg. The country has one of the best digital infrastructures in the world and plays a central role in the European network of high-performance computing currently being put in place. Its unique, business-oriented high-performance computer MeluXina became operational in spring 2021.

A cross-border specialist

Luxembourg's excellent air, road, rail and waterway infrastructure and its central location in Europe position the country as a competitive inter-continental logistics hub. Paris is two hours away by high-speed train, and regular flights to London, Barcelona, Zurich and Milan take about 90 minutes. Frankfurt, Brussels and Amsterdam are closer still. 60% of the EU's GDP can be reached by road in less than a day or by air in a couple of hours. With its first-rate infrastructure and well developed international distribution network, Luxembourg is an ideal platform for reaching the European market of 445 million consumers.

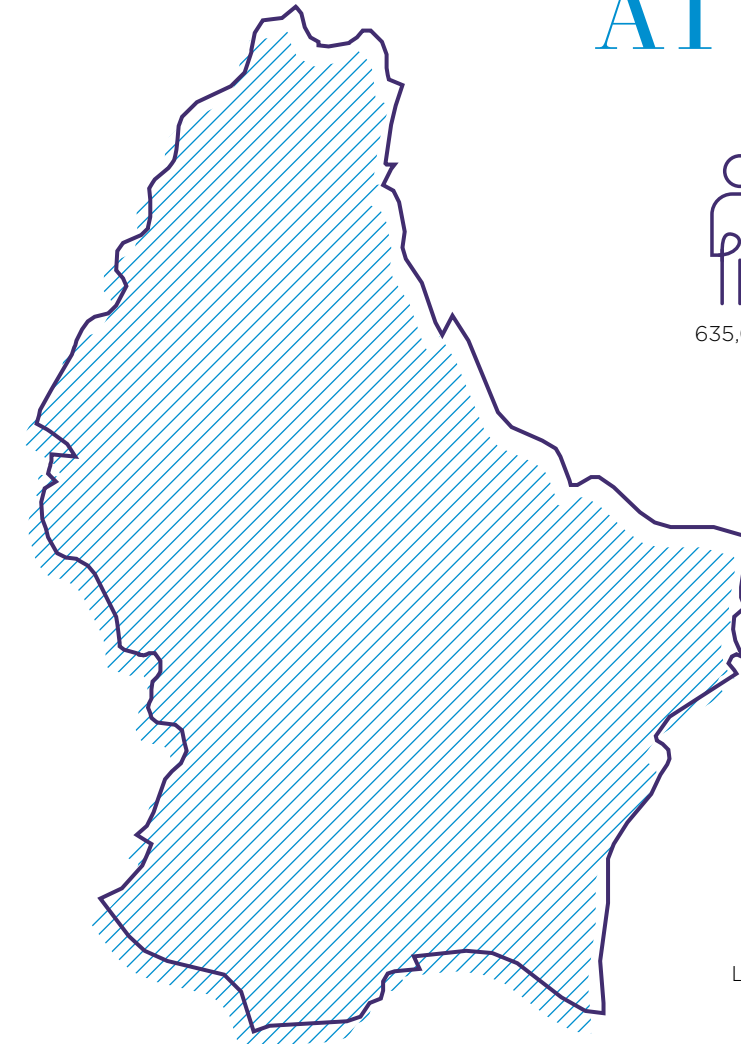


A great place to work and live

The national character of openness, dynamism and reliability is also reflected in Luxembourg's long tradition of welcoming foreign nationals and making them feel at home. With almost half of the national population and close to three quarters of the inhabitants of the capital coming from all over the world, a very international culture has developed. Well-respected international schools exist alongside public schools offering studies in Luxembourgish, German and French as well as programmes in English. The country's multinational makeup helps Luxembourg's politicians and entrepreneurs to understand their discussion and negotiation partners more easily and take on a mediation role whenever needed.

When it comes to career prospects, there is a world of opportunities in Luxembourg. The country has been voted a top-ranking place to live and work in multiple international surveys thanks to a stable economy, safe jobs and a generous social security system. Located in the beautiful green heartland of Europe and being exceptionally safe, Luxembourg is also a great place to live, travel and raise a family.

LUXEMBOURG AT A GLANCE



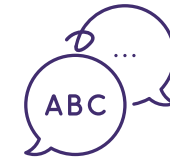
635,000



2,586 KM²



CURRENCY



FRENCH, GERMAN,
ENGLISH, LUXEMBOURGISH



CAPITAL:
LUXEMBOURG CITY



CONSTITUTIONAL
MONARCHY
PARLIAMENTARY

A GROWING SPACE ECOSYSTEM

For more than three decades, Luxembourg has been at the forefront of commercial and co-operative initiatives that have shaped a vibrant space economy.

Today, the Grand Duchy is home to approximately 70 companies and research labs, and the space sector's contribution to the nation's GDP is among the highest ratios in Europe.

Luxembourg's first foray into space came in 1985, with the creation of the Société Européenne des Satellites (SES), a landmark for satellite telecommunications and a global leader in this sector today. Further space-related services and businesses have developed alongside SES giving birth to an entire space industry in Luxembourg.

In 2005, Luxembourg became a full member of the European Space Agency (ESA) and from then on, the space industry in the Grand Duchy has continued to grow and diversify, with three identifiable segments:

- The **space segment**: manufacturing of satellite and instrument structures, system integration of micro-satellites, electric propulsion for satellites, robotic payloads, in-space manufacturing, composites, RF payloads, FPGA.
- The **ground segment**: ground stations development, mechanical and electrical ground support equipment, communication networks, operations.
- The **service segment**: teleport services, satellite-based media and telecommunications services, risk management services, data analytics, environmental applications and services, aeronautical information services, analytics platform.



SPACE RESOURCES DRIVING THE FUTURE OF SPACE EXPLORATION

Launched in February 2016 and led by the LSA, the SpaceResources.lu initiative positions Luxembourg as a pioneer in the exploration and utilization of space resources. With this initiative, Luxembourg has defined a framework to promote and support the sustainable exploration and commercial utilization of resources from 'celestial bodies' such as the Moon and asteroids. The Grand Duchy is the first European country, and the second worldwide, to offer a legal framework on the exploration and use of space resources, ensuring that private operators can be confident about their rights on resources they extract in space.

In November 2020, the European Space Resources Innovation Centre (ESRIC), powered by LSA, ESA as strategic partner, and the LIST (Luxembourg Institute of Science and Technology) has been established in Luxembourg. The Center, which aims to become an international center of expertise for all aspects related to the use of space resources for human and robotic exploration, as well as for the future in-space economy, will partner with public and private international institutions, promoting open innovation in space resources for Europe.

A NURTURING ENVIRONMENT FOR THE NEW SPACE ECONOMY

In Luxembourg, the space industry finds a nurturing and supportive environment with an established community of high tech businesses, researchers, and entrepreneurs along with access to the necessary services and facilities. Space companies with strong commercial ideas draw on a full range of support: finance, premises, research resources and a collaborative international network of contacts and potential partnerships.

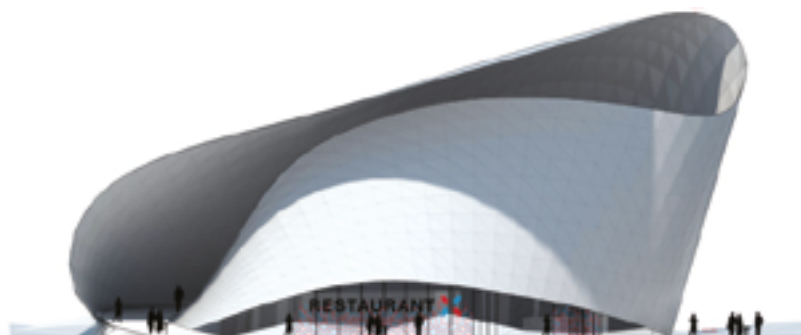
For the past 30 years, the Grand Duchy has pioneered the use of space in a commercial and cooperative way. Luxembourg will continue to do so, convinced that the future lies in an international level playing field, where start-ups, experts, agencies and investors at an international level will be able to join forces in bringing forward the NewSpace industry and its potential, both for space and for earth.



LUXEMBOURG PAVILION AT EXPO 2020 DUBAI

The Luxembourg Pavilion at EXPO 2020 DUBAI is a public private partnership between the Government of the Grand Duchy of Luxembourg, through the Ministry of the Economy and the Ministry of Mobility and Public Works, the Luxembourg Chamber of Commerce, POST and SES.

Diamond sponsors ArcelorMittal, Cargolux and RAK Porcelain and Silver sponsors Guardian Glass, MCM Luxembourg, ULT and Schroeder Joailliers are supporting the pavilion presenting the Grand Duchy under the theme of "Resourceful Luxembourg", which is closely linked to the EXPO 2020 theme "**Connecting Minds, Creating the Future**".



The Luxembourg Pavilion

The architecture of the Luxembourg Pavilion located in the Opportunity District is based on the idea of a Möbius strip, an infinite form of a band with a single surface, which symbolizes the country's circular economy, its dynamism and openness. The ambulatory scenography of the pavilion showcases 5 key aspects of Luxembourg:

diverse, connecting, sustainable, enterprising and beautiful.

The journey takes visitors through 5 thematic spaces: **Luxembourg's diversity, its connectivity to the world, the country's entrepreneurial spirit, the far-reaching commitment to sustainability and the country's fondness of its traditions and beautiful nature.** Every aspect is represented by a dedicated segment highlighting what drives the country, presenting the daily life of its inhabitants, as well as general information on the Grand Duchy and the various key sectors of its economy.

At the top of the pavilion, visitors enjoy a film on how Luxembourg has always succeeded in reinventing itself, going from an agricultural country to an industrial power and a global financial center with today a new change towards research, digital technologies and space industries.

A visit of the Luxembourg pavilion will appeal to all 5 senses. Sight will be appealed by the pavilion's architecture and scenography. During the exploration tour, visitors will listen to the sounds of the Luxembourg Philharmonic Orchestra and touch digital elements of the scenography. By the end of the tour, they will enjoy the smell of Luxembourg's lush woods thanks to the signature fragrance and the giant slide (a nod to the traditional *Schueberfouer*) will take them to the pavilion's restaurant where they can savour Luxembourg fusion cuisine prepared by the Michelin-starred chef Kim Kevin de Dood.

Objectives

The objectives of Luxembourg's participation will be to:



- Promote Luxembourg's values: openness, dynamism and reliability which make the country a strategic business location, an exceptional place to visit and to live in;
- Introduce Luxembourg to a new public including potential visitors and expats;
- Present Luxembourg's resourcefulness as part of a shared solution to challenges in the imminent future;
- Intensify Luxembourg's long-standing relations with the UAE, which are the country's most important trade partner in the Arab world.

The Luxembourg Pavilion and "Connecting Minds, Creating the Future" theme

The Expo theme reflects the need of coming together as one to find global solutions to global challenges.

As a small but smart country, Luxembourg continuously knew how to reinvent itself to adapt to ever changing circumstances. This dynamism and versatility will be fundamental when it comes to face the pressing challenges in an imminent future. Luxembourg's participation at EXPO 2020 means therefore to actively contribute to the country's positioning as a strategic partner when it comes to creating solutions to pressing challenges.

Luxembourg's openness, dynamism and reliability as a country will be key assets when it comes to being part of a shared solution to a changed world.

Therefore, the pavilion's theme of "Resourceful Luxembourg" can be understood as a commitment to sustainably administer the country's resources in a way that they contribute to a better world for all of us.

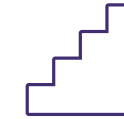
Key facts



EXPECTED VISITORS
PER DAY: **8,000**



SITE AREA:
3,650 M²



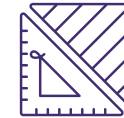
FLOORS: **3**



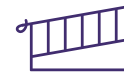
RESTAURANT:
80 PEOPLE, 50
INSIDE AND **30 ON**
THE TERRACE



6 THEMATIC
TRADE MISSIONS



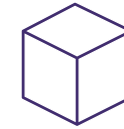
GROSS BUILT AREA:
2,100 M²



RAMP: **140 M**



WIDTH: **50 M**



VOLUME: **13,900 M³**



CAPACITY:
500 PEOPLE



THE ONLY
COUNTRY PAVILION
WITH A SLIDE



HEIGHT: **21 M**



MANAGED BY A
MICHELIN-STARRED
CHEF, **KIM KEVIN DE**
DOOD



AVERAGE TIME
FOR A TOUR OF
THE PAVILION:
15-20 MINUTES

ORGANIZATIONS



LUXEMBOURG CHAMBER OF COMMERCE

■ The main mission of the Luxembourg Chamber of Commerce is the protection of the interests of businesses and the Luxembourg economy. Today, it has 90,000 member companies, corresponding to 75% of total salaried employment and 80% of Luxembourg's GDP, making it the largest professional chamber representing the country's employers. Since membership of professional chambers is mandatory in Luxembourg, the Chamber of Commerce is highly representative. It represents all Luxembourg businesses except those in the craft and agriculture sectors. From this position, the Chamber of Commerce draws its legitimacy to operate as a spokesperson and legal representative for the collective interests of its members through its actions and initiatives.

The Chamber of Commerce and Luxinnovation, Luxembourg's innovation agency, work closely together with the Ministry of the Economy to stimulate innovation, internationalization of Luxembourg businesses, and to attract foreign direct investment. More specifically, the Chamber of Commerce offers advice and support to Luxembourg businesses in their initial steps or further expansion into foreign markets through its International Affairs team. This support is implemented by an international network now working both digitally and in the field, to organize activities such as economic missions, guided visits, collective stands at trade fairs abroad, information sessions on international trade, or hosting foreign delegations in Luxembourg.

The Chamber of Commerce also works with the Office du Ducroire (ODL) to support Luxembourg businesses with export procedures by offering partial reimbursement of the costs associated with promotion, training, and participation in trade fairs, as well as insurance options for risks related to international transactions and investments abroad.

At Expo 2020 Dubai, the Luxembourg Pavilion will be a public-private partnership between the Government of the Grand Duchy of Luxembourg, the Ministry of the Economy and the Ministry of Mobility and Public Works, the Luxembourg Chamber of Commerce, POST and SES.



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Chamber of Commerce**
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EUROPEAN SPACE RESOURCES INNOVATION CENTRE

■ The European Space Resources Innovation Centre (ESRIC) is a centre of expertise for scientific, technical, business and economic aspects related to the use of space resources for human and robotic exploration, as well as for a future in-space economy. ESRIC connects world-leading technical, academic and entrepreneurial talents in the field of space resource utilization. The technology and joint initiatives, which this fertile environment generates, will help to build a strong, self-sustaining in-space economy with a truly global reach.

ESRIC is a joint initiative of the Luxembourg Space Agency (LSA) and the Luxembourg Institute of Science and Technology (LIST) with the European Space Agency (ESA) as a strategic partner. The ESRIC Startup Support Programme will support early-stage startups in the space resources sector to build technological assets as to reach initial business objectives.



Lari Cujko

Startup Program Lead
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European Space Resources Innovation Centre

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LUXEMBOURG ARAB BUSINESS ASSOCIATION

■ The Luxembourg Arab Business Association (LABA) is an independent, non-partisan, non-profit organization created in order to boost cooperation initiatives in the economic fields of mutual interest between the Arab world and the Grand Duchy of Luxembourg.

LABA has been accredited by the Chamber of Commerce in Luxembourg, and is tightly connected to relevant high-level policy and business decision-makers in both Luxembourg and Arab countries to facilitate business opportunities. LABA is also partnering with the Arab-Belgian-Luxembourg Chamber of Commerce, some non-governmental organizations (NGOs) as well as other relevant associations seeking the same objectives.



Sufian Bataineh

Secretary General
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LUXEMBOURG INSTITUTE OF SCIENCE & TECHNOLOGY

■ The Luxembourg Institute of Science and Technology (LIST) is a Research and Technology Organization (RTO) that develops, following a sustainable-by-design approach, competitive and market-oriented prototypes for public and private stakeholders, to strengthen Luxembourg's economy and improve the quality of life of its citizens.

LIST has 600+ staff from 45+ countries focusing on ICT, advanced materials, and environmental and space technologies. At the IAC 2021, it will be represented by two departments: Environmental Research and Innovation (ERIN): through geoinformatics (image analysis, (geo) statistics, etc.), visual analytics, and environmental modelling,

ERIN provides solutions for the monitoring and management of the environment, agriculture, communications, transport, and natural hazards.

European Space Resources and Innovation Centre (ESRIC): this initiative between LIST, the Luxembourg Space Agency (LSA), and the European Space Agency (ESA) aims to become an internationally recognised centre of expertise for the use of space resources and for a future in-space economy. Partnering with public and private players, ESRIC activities range from space resources R&D, support for economic activities, knowledge management, and community management. Find out more on www.esric.lu.



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LUXEMBOURG NATIONAL RESEARCH FUND

■ The Luxembourg National Research Fund (FNR) is the main funder of research activities in Luxembourg. FNR invests public funds and private donations into research projects in various branches of science and the humanities, with an emphasis on selected core strategic areas, where space and space resources play an important role. Research done in collaboration with national and international public and private research institutions (including companies) are strongly

encouraged and supported through our funding and doctoral and postdoctoral training programs. Furthermore, FNR supports and coordinates activities to strengthen the link between science and society and to raise awareness for research. FNR also advises the Luxembourg government on research policy and strategy.



Andreea Monnat

Deputy CEO

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Luxembourg National Research Fund

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LUXEMBOURG SPACE AGENCY

Established in 2018 with the goal of developing the national space sector, the Luxembourg Space Agency fosters new and existing companies, develops human resources, facilitates access to funding and provides support for academic research. The agency implements the national space economic development strategy,

manages national space research and development programs, and leads the SpaceResources.lu initiative. The LSA also represents Luxembourg within the European Space Agency, as well as the space related programs of the European Union and the United Nations.



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Charles Koener

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LUXEMBOURG TRADE & INVESTMENT OFFICE IN ABU DHABI

Based in Abu Dhabi, the Trade and Investment Office is fully committed to facilitate trade between Luxembourg and the Gulf region and support Luxembourg-based businesses in the establishment and development of their activities in the Gulf region. We are also committed to assist regional companies with the expansion of their business to Luxembourg and their entrance into the European market.

Our executive team offers personalised services and provides companies that are interested in setting up in the Gulf region with the following assistance:

- Advice on the local business environment
- Information on market entry conditions
- Contact with local authorities which oversee company establishment
- Introduction to business networks
- Contact facilitation with possible business partners

Services offered to companies that are interested in setting up in Luxembourg:

- Information on the general and sector-specific business environments and related government policies
- Tailor-made visiting programmes and practical help with the establishment of a company in Luxembourg
- Access to high-ranking government officials and key network contacts in cluding the House of Entrepreneurship (One-Stop-Shop), the agencies Luxinnovation and Luxembourg for Finance, the Luxembourg University, research centers, business accelerators etc..
- Contact facilitation with possible business partners
- Information on immigration and visa questions



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www.investinluxembourg.ae

SnT - UNIVERSITY OF LUXEMBOURG

Our expertise in satellite communications, autonomous systems, orbital and planetary robotics, small satellites, space systems design and mission-critical software makes us the ideal centre of excellence to support Luxembourg's commitment to space exploration and in-situ resource utilisation (ISRU).

From Earthbound satellite receivers, to state-of-the-art nanosatellites and autonomous lunar robots, researchers at SnT infuse Luxembourg's vibrant space industry with new perspectives and innovative solutions. We are proud to be a part of the most dynamic ecosystem for applied space innovation in Europe:

40+ ESA Projects Financial services

20+ collaborations in the space sector Loyalty program

7 dedicated labs

8 research groups involved in space projects

Interdisciplinary Space Master

Space Robotics Research Group (SpaceR)

SpaceR conducts research in autonomous planetary and orbital robotics for space exploration, in-situ resource utilisation and on-orbit servicing. In addition, the group also focuses on aerial and ground robotics and multi-robot cooperation.

The group's main focus areas are: in-space maintenance, satellite servicing, in-space manufacturing, space exploration, multi-robot collaboration, space resource localisation, collection and extraction, and autonomous manipulation for interaction with the environment. Partners of all sizes will find a collaborative, multidisciplinary team experienced in supporting close-to-market and market-ready solutions in planetary, orbital, aerial and ground robotics. In addition, the group's facilities, such as the LunaLab and the Zero-G lab, equipped with sensors, manipulators and other robotics tools, allow the testing of planetary and orbital robotics. SpaceR also conducts collaborative research with the Automation & Robotics group in the Aerial Robotics lab.



Prof. Dr. Miguel Olivares-Mendez

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TECHNOPORT

Technoport S.A. is a technology business incubator based in Luxembourg and has been supporting startup companies and innovation since 1998. Technoport has developed a range of support services addressing the needs of three main segments: startups, spin-offs as well as foreign corporates developing R&D activities in Luxembourg. Technoport is headquartered in the Science and Innovation Campus in Belval-Luxembourg and has industrial hosting capacities in Foetz-Luxembourg. Technoport is a generic technology business incubator and host in average around 40 companies covering

different technological sectors. Within its portfolio of hosted companies, a significant number of high-tech startups are currently operating in the space sector. The incubator is running in partnership with the Luxembourg Institute of Science and Technology (LIST) the Startup Support Programme of the European Space Resources Innovation Centre (ESRIC). The programme support's early-stage startups of the space resources sector to build and consolidate technological assets to reach initial business objectives.



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UNIVERSITY OF LUXEMBOURG

The University of Luxembourg has the profile of a research university with a strong activity in research, a high proportion of doctoral candidates, combined with research-driven teaching throughout the University. The University conducts cutting-edge, disciplinary and interdisciplinary research, in which both curiosity-driven fundamental and applied research are valued. It fosters partnerships with other world-class higher education and research institutions, as well as with private companies and the public sector.

Space Technology is a priority area of UL. Grounded in cutting-edge research and technology, researchers of UL explore the challenges and opportunities of space, hand in hand with industry-leading partners. UL's expertise in satellite communications, autonomous systems, orbital and planetary robotics, small satellites, space systems design, and mission-critical software makes the University a centre of excellence to support Luxembourg's ambition

in Space Technology. In 2019, UL has launched the Interdisciplinary Space Master (ISM, <https://ism.uni.lu>).

Prof. Dr. Jens Kreisel is vice-rector for research of the University of Luxembourg (UL) and Professor for Physics and Materials Sciences. He is responsible for the University's research vision, strategy and agenda.

In 2011, Professor Mahulena Hofmann was appointed as the SES Chair in Satellite Communications and Media Law communications. In addition to the research undertaken in these fields, the SES Chair contributes to existing media law research by including international, regional and national space law and global telecommunications issues. In addition, Professor Hofmann contributes to the interdisciplinary research at the University's Interdisciplinary Centre for Security, Reliability and Trust (SnT). The University offers a Master course in Space, Communication and Media Law (LL.M).



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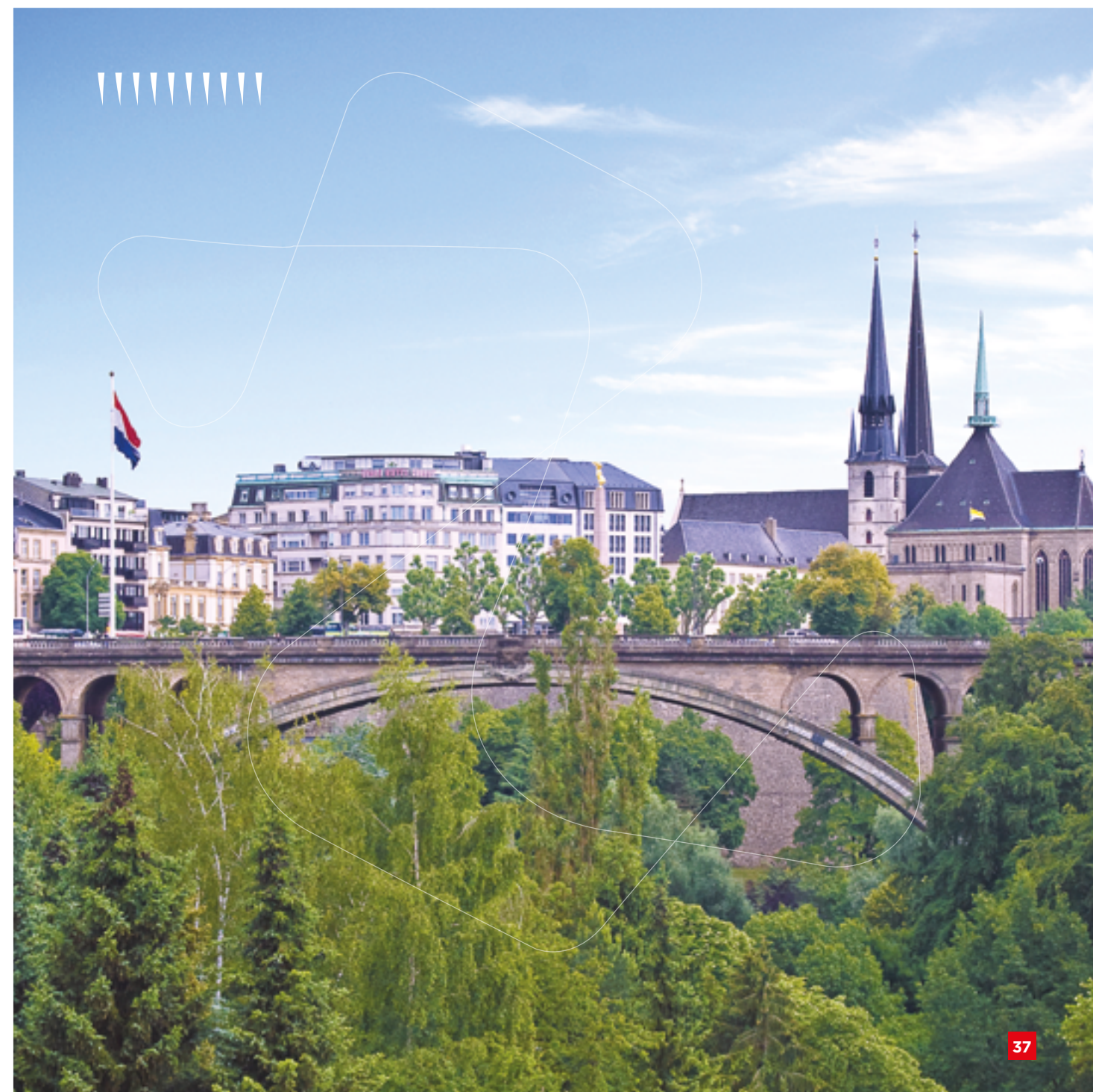
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BUSINESS DELEGA TION

ARENDDT & MEDERNACH

• Arendt & Medernach is the leading independent business law firm in Luxembourg. The firm's international team of 380 legal professionals represents clients in all areas of Luxembourg business law. Our service to clients is differentiated by the end-to-end specialist advice we offer, covering all legal, regulatory, taxation and advisory aspects of doing business in Luxembourg.

Luxembourg's flourishing space sector.

Luxembourg's willingness to innovate has helped make the country's space sector a priority. The Grand Duchy has created a space-friendly environment based on a stable legal and regulatory system that is optimal for new and mature space operators alike.

Our dedicated team provides, amongst others: the complete range of legal advice on corporate and other related aspects; assistance to space operators launching their business in Luxembourg; guidance through important application processes.



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Our coverage of the Middle East, North Africa and India.

Our dedicated team enables us to cover all key jurisdictions and markets in the MENA and India. It advises on Luxembourg legal, tax and regulatory aspects regarding: the structuring of investment funds; international corporate and tax structures; transactions; international finance.

Luxembourg is also a prime location for setting up Shari'ah-compliant investment structures. The authorities' support, a reliable legal investment environment and a tax-efficient system all encourage Islamic companies and financial institutions to perform Shari'ah-compliant investments through Luxembourg vehicles.

Our presence in the region allows us to offer face-to-face advice during local business hours on Luxembourg aspects that impact our clients' businesses, whether inbound or outbound-driven.



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CONTEC SPACE

CONTEC, established in 2015 as a spin-off company from KARI [Korea Aerospace Research Institute], provides a total solution required for the space downstream sector. CONTEC Luxembourg office was established in 2019 for the global market expansion.

CONTEC provides the platform for satellite missions with commercial ground stations, and has expanded the service area to earth observation using satellite imageries. The platform consists of 3 service levels including satellite data collection, satellite imagery pre-processing and application, which can be offered as an end-to-end service for satellite operators.



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DAYONE

DayOne is a result of a passion! A passion for travel and everything that comes with it. Great hospitality, dedicated service, impeccable destination knowledge and a big portion of surprise and creativity. From business travel over MICE and leisure groups to Luxury FIT, DayOne represents it all. We pride ourselves in our professional and personal service as well as our close relationships to our beloved suppliers around the world.

Our truly different and awarded approach to travel is key to what we desire to do. We want to make you dream, we want to make you live emotions and we want you to discover the most beautiful gems our world has to offer, all in a complete peace-of-mind. Our in-house mantra says everything about us.

- travel beyond your imagination



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DEEP SPACE INDUSTRIES EUROPE

Deep Space Industries Europe sarl (“DSIE”), a subsidiary of Bradford Space, is a Luxembourg-based developer and manufacturer of smallsat avionics subsystems and water-based propulsion systems. It is a spin-off of Bradford Space’s operations in the US, which is developing a “Square Rocket” platform, for multi-mission, affordable space transportation, lunar comms, imaging services and debris removal.

Products developed in Luxembourg are a water-based propulsion system (Comet) and a modular avionics stack, consisting of: a power converter & conditioning & distribution unit (PCDU), an on-board computer (OBC), payload data handling system (PDHS), ranging transponder (XPDR) and a propulsion electronic controller (PECU). These are designed specifically for the needs of high performance, high delta-V and high-reliability smallsat missions to LEO or beyond!



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EBRC

Launched in 2000, EBRC aims at being a European Centre of Excellence in the management and protection of sensitive information thanks to its unique one-stop-shop Trusted Services:

• Trusted Resilience Services

Design, implementation & management of Business Continuity Solutions

• Trusted Data Centre Services

Data Centre Services based on redundant Tier IV infrastructures (security & availability)

• Trusted Managed Services

ICT infrastructure Management

• Trusted Cloud Europe

Infrastructure and Platform as a Service solutions; Back-up & Restore Services

• Trusted Security Europe

Managed Security Services & Cyber-Resilience Services to counter IT threats

• Trusted Advisory Services

Advisory in ICT risk management & outsourcing

EBRC’s clients need clear warranties in terms of Risk Management, Service Level and Quality.

Norms like ISO 20000 (IT Service Management), ISO 27001 (Information Security), ISO 22301 (Business Continuity Management Systems), PCI-DSS (Payment Card Industry-Data Security Standard), structure the whole offers and services of EBRC. International recognitions are the proof this strategy is successful.

Active in the financial market at first (Bank & Finance, FinTechs, RegTechs), EBRC developed over the last 20 years a unique know-how in the design, implementation and operation of critical e-business and e-commerce infrastructures and now works with worldwide players from international institutions, health & biotech, space...



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FLAWLESS PHOTONICS

Flawless Photonics (FP) is pioneering the manufacturing and supply chain for next generation materials to be made in microgravity. Our enabling technology, optimized for the unique requirements and rigors of space travel and tailored for installation and operation at the International Space Station, allows the formation of heavy metal fluoride glasses and optical fibers, without generating light scattering defects that limit lasing power and transmission over long fiber lengths.

FP's premier product, SpaceFiber (drawn from ZBLAN), will have performance characteristics far superior to the absolute best fibers made on Earth today and has the potential to revolutionize the photonics industry, beginning with shorter fiber length applications such as high-powered lasers and amplifiers, and exceptionally sensitive sensors in the mid-infrared spectrum and extending to hyper low attenuation fiber optic cables that stretch thousands of kilometers without the need for amplification, for long haul classical and quantum communications.



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GLOBEEYE

GlobeEye®. Make Informed Decisions, Before Anybody Knows.

GlobeEye provides a new, unique, and complete perspective on global economic, environmental, and social developments. Leveraging frontier technologies in space data and artificial intelligence, it delivers valuable insights for decision-makers in finance, business, and government. It contributes to overcoming our time's major challenges, and arguably humanity's greatest threats, of climate change, biodiversity loss, and natural capital depletion. It is a graduate of Fit4Start, Luxembourg flagship start-up acceleration programme.

In particular, GlobeEye is focussed on developing next generation sustainability (ESG) metrics. Thanks to state-of-the-art deep learning models, it combines satellite data with a vast range of remote sensing, ground-based, alternative, and observational data to generate unprecedented information sets and predictions. The result is independent, verifiable and actionable sustainability (ESG) indicators.

GlobeEye enables and supports the transition towards sustainable investment decisions, risk management, and related regulatory efforts, increasing the overall economic and social efficiency of global capital allocation.



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GOMSPACE

GomSpace is a globally leading manufacturer and supplier of cubesat & small satellite solutions for customers in the academic, government and commercial markets. We were established in 2007 and our core technical team has been working on the concept of smallsats since 2001. Our positions of strength include systems integration, cubesat platforms, advanced miniaturized radio technology and satellite operations. Our international team is devoted to understanding our customer's requirements and deliver flawlessly.

We believe nanosatellites should be put to work delivering revenue and/or mission critical services for their owners, and we can deliver the - often complex - products and solutions that enable our customers in doing so. GomSpace is centered on our strengths developed over time from being a pioneer in the market and later as a market leader in the commercialization of nanosatellites and New Space.



Tor-Arne Grönland

Senior Director Business Development

In 2016, GomSpace was the first company to deliver to the European Space Agency a flight model satellite, GOMX-3, developed fully under the framework of the ECSS standards based on ESA's tailoring hereof for nanosatellite projects.

Based in our proven technology in LEO we are now venturing further into Deep Space to proudly deliver to ESA the first European exploration missions based on nanosatellites/Cubesats.



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GRADEL

Gradel is your partner for the development of special machines for mechanical and electromechanical solutions. In the Space domain, our contribution is in Mechanical Engineering and manufacturing, including Mechanical Ground Support Equipment (MGSE). As a flag a Telescopic MPT with Automated Guidance Vehicles (AGV).

Gradel has taken notice to solving weight and strength concerns in the aerospace and automotive industry. Gradel Ultra Light Weight is a fiber winding technology (carbon, glass, Flax, or basalt) to produce extremely rigid and of flexible parts required. While traditional

rewinding techniques are generally limited to symmetrical rotating parts, this new innovation is predestined for 3D hybrid parts. When the fibers of composites material are oriented according to the desired functions and the load cases, intelligent ultra-light structural components can be produced. The advantages of the process are manifold; it makes it possible to absorb forces in all directions of space by optimizing the amount of material used. The highly innovative technology is therefore both a tool environmental and climate protection, resource conservation and sustainability are the lightest way to build today.



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HITEC LUXEMBOURG

HITEC Luxembourg S.A., a 100%-owned Luxembourg company, has developed its business activities in the field of innovative and quality products and services. HITEC offers high technology solutions covering different business areas: satellite ground segment; specific and standard equipment for testing and measuring of physical properties; traffic management; mission critical; engineering; consulting; software & ICT development and project management. HITEC serves private and public sector customers at a national and international level. In our daily commitment, know-how, creativity, quality and perseverance are an integral part of HITECs' undertaking. Enthusiasm for technology and innovation and a dedication to life-long-learning are core elements of our company culture, reflected by our highly qualified and motivated staff.

HITEC is ISO 9001 and AQAP 2110 certified and has several labels, such as „SuperDrecksKëscht fir Betriber“ (ISO 14024:2000 Standard), „Entreprise Socialement Responsable“, delivered by the indr, Responsibility Europe, Made in Luxembourg (for most of the products & services) and is signatory of the IMS Diversity Charter. HITECs' motto: market-oriented, client-centric and technology driven.



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ISPACE EUROPE

ispace is a private lunar exploration company with a vision to extend human presence into outer space. The company is developing micro-robotic lunar rovers and landers to provide a low-cost and frequent transportation service to the Moon, conduct lunar surface exploration to map, process and utilize space resources in cislunar space.



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KPMG

As a member of KPMG International, a network of independent firms operating in 146 countries, KPMG in Luxembourg provides a full range of audit, tax and advisory services to major national and international clients active in the financial, insurance, commercial and industrial sectors.

With more than 1,800 people, KPMG in Luxembourg is one of the country's leading audit, tax and advisory

firms. Our approach to relationships and service delivery is designed to help clients exploit new opportunities, improve performance and manage risk.

We also participate in/or chair various industry groups in Luxembourg, including the "Haut Comité de la Place financière", the Commission de Surveillance du Secteur Financier (CSSF), the Bankers' Association (ABBL), the Association of the Luxembourg Fund Industry (Alfi) or the Luxembourg Institute of Directors (ILA).



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LMO

LMO is a space company with a vision to enable precise and autonomous manoeuvring for in-space operations. By combining Vision Based Artificial Intelligence and Novel Propulsion subsystems LMO enables satellites to autonomously identify, analyse and understand the behaviour of space resident objects and autonomously make decisions and react upon these. With this autonomous capability LMO opens up the various opportunities of in-orbit servicing such as inspection, manufacturing, decommissioning, refuelling & repair.



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LMS SERVICES

■ LMS Services S.à r.l. is a Luxembourg corporate services provider and part of the consultancy association Ludwig Consult in Luxembourg and Germany. We are your competent partner for all structuring and administrative matters relating to your engagement in Luxembourg and Germany. Within this framework, we offer a full range of services regarding your company and investment projects. We give advice on all issues relating to the tax and corporate structuring, assist you in managing your assets and take care of all administrative duties in Luxembourg.



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LUXPROVIDE

■ LuxProvide accelerates economic and social progress through supercomputing. We are Luxembourg's European center of excellence in HPC, HPDA & AI solutions with the easiest onboarding and highest quality assistance, in a confidential, trusted and cyber-secure environment. Our supercomputer is designed to answer the needs of Luxembourg's seven priority areas of sectoral expertise (Financial Services, Logistics, ICT, Manufacturing, Eco-technologies, Space, Health technologies).



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LUXSPACE

■ LuxSpace is a leading Luxembourg Space industry player since 2006, passionately building our vision of integrating Space-based applications with state-of-the-art micro satellite platforms. Our flight heritage has been built since 2009 with the Pathfinder mission, until 2020 with the launch of the ESAIL micro-satellite for ExactEarth, in partnership with the European and Luxembourg Space Agencies. LuxSpace's growing customer base spans from international agencies like ESA and the European Commission to the space industry, satellite operators and national institutions.

The two main business lines of LuxSpace are:

- Space systems and subsystems design from early definition through in-orbit commissioning
- Satellite services and applications with a focus on Automatic Identification System (AIS) and Earth Observation (EO)



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MAANA ELECTRIC

■ Maana Electric SA was founded in Luxembourg in 2018 with the goal of providing energy resources both on Earth and in Space through In Situ Resource Utilization (ISRU) technologies. Maana Electric's ISRU technologies allow to produce complex products, in particular solar panels, using the locally available material, such as sand on Earth and regolith on the Moon. Maana Electric SA is headquartered in Luxembourg and has more than 40 employees across its entities in Luxembourg, the Netherlands and Dubai. For more information, please visit www.maanaelectric.com or watch <https://www.youtube.com/watch?v=LKL3sRRresU>.



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MOTOR DEVELOPMENT INTERNATIONAL

With the vision to make sustainability accessible to all, Motor Development International (MDI) developed a disruptive clean technology with engines that run on compressed air ideally produced from renewable sources such as solar, wind, or hydro collectors. This technology offers a wide array of applications operable and adaptable to Sustainable Mobility and Energy Storage Solutions. MDI's applications that run on compressed air are ready to be industrialized through a net of micro-factories, including:

AirPod 2.0: A urban quadricycle 2 seats, 100 km range.

Green'Air: An off-road compressed air buggy

In partnership with manufacturers:

Industrial train: Wagons with air tractor

Air'Volution: The garbage-collector truck developed with VEOLIA

AirWall: a fixed energy storage solution for buildings

ICAESS: Industrial Compressed air Energy Storage Solution

MDI's evolved business model focuses on three facets: Custom manufacturing and marketing of MDI's products based on compressed air engine technology, commercialization of MDI's manufacturing licenses, and creation of joint ventures.



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NEWSPACE CAPITAL

NewSpace Capital is a space-focused Private Equity firm. It was founded by industry experts with over 150 years of cumulative investment, commercial and technical experience across €15+ billion in space and technology-related deals. The firm leverages the surge of the commercial space industry to invest in leading growth-stage technology companies with a unique position in the supply chain and applications' segments of the market.



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ODYSSEUS SPACE

■ We believe in a future in which goods and information are exchanged alongside human sustainable presence at Solar system scale. Our goal is to facilitate those flows. We see three features to reach this goal:

SOLVE · CONNECT · EXPLORE.

To · **SOLVE** · our customers' challenges by supporting them at different phases of their satellite missions with our set of services.

To · **CONNECT** · our customers' satellites in needs for high-data rates, secured and license-free communications with CYCLOPS, our end-to-end optical communication solution.

To · **EXPLORE** · the Solar system effectively, finding and transporting resources will be required. In addition to the expertise and other products developed by the company, ASTRAEUS, our autonomous deep space navigation solution, is a key-enabling technology to make such missions possible.



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More about us:

- 5+ years of satisfied and returning customers
- International team involved in 15+ smallsats missions
- Large network of international customers & partners
- Engineers from Space Agencies, Industry and Research Laboratories
- Support for smallsats missions at all phases
- Cost-effective Ground and Space Optical Communication Terminals
- Unique In-Space Autonomous Optical Navigation solution
- Products for LEO, Lunar and asteroids applications



Odysseus Space

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OFFWORLD

■ OffWorld is dedicated to putting in place a vast array of smart robots working under human supervision, on Earth and in space, to transform our Solar System into habitable places for human civilization expansion. The terrestrial deployments of these robot colonies simultaneously enhance life on Earth while reducing engineering cycles in space – a development model particular to OffWorld.

Enabling this expansion requires a robotic workforce to perform the tough, dangerous jobs that will be required. We need to be able to excavate underground habitats and extract water ice and materials. From the collective volatiles we will make drinkable water, breathable air, and

rocket propellant. We will not just export current Earth-based practices and technology; we are reinventing how we undertake these processes here on Earth and applying them directly to the expansion of civilization into the solar system.

OffWorld's vision for its Luxembourg subsidiary is for it to become the world leader for industrial grade, off-world, in-situ resource utilization technologies, and production of Earth, space, and lunar platform modules for OffWorld's autonomous robotic workforce.



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OQ TECHNOLOGY

■ OQ Technology is the world's first global satellite 5G IoT operator providing uninterrupted cellular coverage for your assets and machines anywhere in the planet. We are deploying a world wide satellite constellation in Low Earth Orbit that allows mobility and IoT-as-a-Service data access. We serve the Oil & Gas, Utilities, Maritime, Transport & Logistics segments particularly for the management and tracking of assets in remote areas. Whether this is digital oilfield applications, offshore monitoring, SCADA applications, asset tracking, fleet management, smart metering or predictive maintenance: We provide you innovative low cost connectivity solution and high value data analytics for a very low price and easy integration into your existing system. Our wireless technology (developed in collaboration with Luxembourg government and the European Space Agency) is compatible with existing

cellular technologies. The modules are plug & play, easy to install, have long battery life, and connect you directly to our or your data cloud. The User Terminals are compatible with sensor using cellular, WiFi, LoRa, and Bluetooth interfaces.

Using 5G technology, long business experience, and support from partners the company is providing both high-value and low-cost IoT connectivity solutions for our customers. The company also provide intelligent bespoke solutions and technical consultancy in the field of telecommunications and space technology. We have tested our technology successfully in 2019 and we launched our first satellite in June 2021 and are deploying more satellites soon. Contact us for a free pilot demo.



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ORBITAL VENTURES

■ Orbital Ventures is a \$140M space fund managed by Promus Ventures that backs early-stage space and geospatial startups around the globe.

Founded in 2012, Promus Ventures invests in early-stage deep-tech startups solving complex problems to advance everyday lives across the world. From offices in Chicago, San Francisco and Luxembourg, Promus Ventures has invested in over 85 early-stage startups in the US, Europe, UK, and New Zealand.

Some of Promus Ventures' leading portfolio investments include Rocket Lab (Nasdaq: RKLB), Whoop, Spire (NYSE: SPIR), Mapbox, ICEYE, Bellabeat, Swift Navigation, AngelList, Behavox, Gauss Surgical, Figure Eight, Isotropic Systems, Halter, Cobalt and numerous others."



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PLUS ULTRA SPACE OUTPOSTS

Plus Ultra Space Outposts is a new European company based in Spain, Germany, and Luxembourg. We focus on the deployment and management of off-Earth infrastructure, taking the role of operator at our heart. We are a team of space veterans aiming to deploy and operate the enabling infrastructure required for the accelerated growth and sustainability of the upcoming cislunar economy. Our first solution "Harmony" is

a lunar satellite constellation designed to solve all communications and navigation needs of commercial and institutional lunar missions: high-speed connectivity, high-precision navigation, and high availability with global coverage. All as an end-to-end service. First lunar communications and navigation services will begin as early as 2024.



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REDWIRE SPACE

Redwire Space Europe, with facilities in Luxembourg, is advancing the company's world-class robotics technology portfolio with the development of modular robotic arms that can be customised for a range of space operations. Redwire offers a number of solutions to address the growing need for off-the-shelf robotics for space missions.

Redwire is currently developing the STAARK robotic arm in Luxembourg under a contract with the Luxembourg Space Agency. STAARK successfully passed a preliminary design review in 2020, wherein critical components were tested under thermal vacuum conditions.

In January of 2021 Momentus Space selected Redwire to provide a flight-qualified robotics system to be launched as early as 2022 on the Momentus Vigoride in-space transportation vehicle.



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RESPECTUS

RespectUs is offering consultancy and a one-stop-shop digital platform for compliance with export control regulations.

This Luxembourg based start-up has successfully graduated in February 2020 from Fit4Start, 9th edition, in Space vertical, the startup acceleration program managed by the Luxembourg Ministry of Economy and Luxinnovation.

The building of the platform (2021-2023) is funded by the Luxembourg Space Agency through an ESA Contract in the Luxembourg National Space Programme LuxIMPULSE.

Export Control is the area of legislation that regulates the export, import, transit, brokerage, intangible transfer and technical assistance of controlled goods, software and technology. In the subscription-based SaaS platform, clients will find different modules: risk assessment, customer screening, product classification, end-use

checks, license determination, sanctions & embargoes, knowledge base.

RespectUs' one-stop-shop online portal greatly reduces the risk of inadvertently exporting to a restricted end-user, or exporting for a prohibited end-use or activity.

Customers are exporters, traders, shippers, suppliers, banks and other parties involved in the export, import, transit and otherwise trade of sensitive goods. These are controlled goods that have strategic significance or military or national security implications. These include defence-related products and dual-use items used for both civilian and military applications.

The product is clearly focussed on space companies, but the platform may be used in many other industries, including aerospace, defence & security, chemical, electronic & telecommunications, engineering & manufacturing, healthcare and energy.



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RSS-HYDRO

RSS-Hydro is a young Luxembourg R&D company, founded in 2017, with business activities focusing on innovative uses of remote sensing and space technologies for geospatial services in environmental applications. The company's activities pivot around three business pillars: research and development, commercial products and services, and expert consulting. The pillar of commercial products and services includes production and sales of geospatial products as well as drone-related services through RSS-Hydro's recently added service department RSS-Drones. RSS-Hydro's main business consists of developing science-driven products and services focusing on environment and water-related hazards and risks, in particular floods, using computer simulations and remote sensing technologies. We are a team of internationally-recognized scientists, geoscience technicians and trained drone pilots. RSS-Hydro also runs a government-

accredited private research institute with its Research and Education Department, where we host and train a number of PhD students and postdoctoral researchers. The team regularly submits research projects to a number of national and international programs. Furthermore, we stand for open data, promote open public IP and we publish our methods and algorithms in open-access scientific journals. RSS-Hydro builds on transparency and strategic public-private partnerships to advance important issues, such as the SDGs. We have recently joined forces with the Luxembourg Institute of Science and Technology (LIST) and leading Italian software company Fadeout to create a joint venture called WASDI, that offers a fully interoperable platform, on which users can develop and execute EO-based apps for a variety of applications, including disaster assistance tools such as global flood mapping and fire detection from satellites.



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SES

SES has a bold vision to deliver amazing experiences everywhere on earth by distributing the highest quality video content and providing seamless connectivity around the world. By leveraging a vast and intelligent, cloud-enabled network, SES is able to deliver high-quality connectivity solutions anywhere on land, at sea or in the air, and is a trusted partner to the world's leading telecommunications companies, mobile network operators, governments, connectivity and cloud service providers, broadcasters, video platform operators and content owners. SES's video network carries over 8,650 channels and has an unparalleled reach of 361 million households, delivering managed media services for both linear and non-linear content.

As the leader in global content connectivity solutions, SES operates the world's only multi-orbit constellation of satellites with the unique combination of global coverage and high performance, including the commercially-proven, low-latency Medium Earth Orbit (MEO) O3b system. SES is also launching its second-generation MEO in the coming months. The O3b mPOWER terabit-level system will deliver connectivity services that are extremely flexible and scalable, and can reach virtually anywhere on the globe. SES is listed on Paris and Luxembourg stock exchanges (Ticker: SESG).



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SPACE PRODUCTS AND INNOVATION

SPiN S.A.R.L brings modularity to the new space industry through a universal adapter, MA61C, transforming incompatible off-the-shelf components to plug-and-play.

SPiN's modularity as a service for the new space industry offers customers the choice of their satellite components as COTS, benefiting from an extended range of

supplier options and high flexibility in the design and manufacturing process.

This service ranges from testing equipment to complete satellite design, which are provided as an a-la-carte menu with no need for significant commitment from the customer and can be reorganized during the process.



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SPACETY LUXEMBOURG

Spacety is a leading provider of satellite-based services with 21 satellites launched and operated and more on the launchpad. It provides fast, frequent, flexible, and low-cost space missions with its advanced and reliable small satellite fleet. These space missions support science experiments or observation, and in-orbit demonstrations and/or validations of space technologies, products and space systems. Those quick turnaround and end-to-end services have enabled world class space research and helped innovative space technologies to gain space heritage. Spacety is also building and deploying a microwave-based (Synthetic Aperture

Radar) satellite Earth Observation constellation to provide the world with global coverage and real-time imagery data as a service (DaaS). This C and X-band SAR constellation will monitor and observe the Earth day and night, rain or shine, and make SAR imagery of every point on Earth accessible and affordable to users. The SAR data will enable innovative solutions to manage our changing world and make it better.

Finally, Spacety provides a secured data platform that integrates space & Earth data to enable innovative applications and solutions.



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SPIRE GLOBAL

Whether it is accurate weather forecasts or location data to protect assets, monitor borders, sea, or airspace - access to the right data at the right time enables decision-makers to address the toughest challenges with deliberate speed. Through these offerings, we enable customers to rapidly address their challenges on a global scale.

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THE LUNAR GRID

The Lunar Grid is a young and innovative company developing power beaming solutions for mobile robotic machines. This technology is capable of wirelessly transmitting energy over long distances and allows a fully remote and continuous operation of mobile platforms, hugely increasing the system's performance and enabling entirely novel business concepts.

The Lunar Grid has developed several technologies for terrestrial applications providing energy to robots and rovers and is working on extending the capabilities to airborne platforms such as drones and UAV's. Among the major application domains of our technology are distributed mining, harsh environment exploration, maritime, surveillance, disaster relief or military applications.

As our corporate name suggests, The Lunar Grid bares a determined vision to employ these technologies in space and to set up a full power distribution network on the moon. This network will provide a flexible and continuous power supply to all actors across the surface of the moon and thrive new lunar activities.

Hence, The Lunar Grid powers the lunar economy!



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THEMIS LEX

Established for more than 10 years in Luxembourg, Themis Lex is a law firm specialized in business law.

Our areas of expertise:

- Private Equity / Venture capital
- Investment fund
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- Banking, stock-exchange, and financial Law (securitization, crypto-currencies, ICO, issuance of securities).
- Commercial law (contracts, incorporation of commercial companies, legal advice, etc.).
- Intellectual property
- Innovation: media, telecoms, computer law, ICT, space law, biotech (technical contracts, due diligence, legal advice).



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We assist start-ups at different stages of development (incubation, fund raising, etc.).

Our clientele is composed of industrial groups, trading or financial companies, project leaders (start-up), high net worth individuals aiming to optimize the management of their wealth, institutional investors, state agencies and investment fund. Our customers are established in more than thirty jurisdictions on all the continents.

Themis Lex is one of the sponsors and partner of the association LuxAfrica, created in 2014 and which gathers professionals established in the Luxembourg representing the different centres of excellence of the country (private bank, lawyers, audit, trustee, ICT etc.). This association aims to the development of business relationships between the Luxembourg and the African continent.

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