



LUXEMBOURG
SPACE AGENCY

LUXEMBOURG, THE PLACE FOR SPACE DEVELOPMENT



LUXEMBOURG YOUR HUB FOR COMMERCIAL SPACE IN EUROPE

- **Global leader in satellite telecoms infrastructure**, connecting Europe and the world
- Home to **50+ space companies** and research labs
- **800+ people** employed in the space sector
- Full member of **ESA** since 2005
- Space sector's contribution to the nation's GDP is amongst the **highest in Europe**
- Home to a **unique business environment** with capabilities across the space sector value chain: ground – space – service segments
- **Outstanding digital infrastructure** to support space companies
- Easy access to **decision makers**



Unique **Interdisciplinary
Space Master** at the University
of Luxembourg

A WIDE SPECTRUM OF SPACE CAPABILITIES



THE SERVICE SEGMENT

- Teleport services
- Satellite-based media and telecommunications services
- Risk management services
- Data analytics

1st

First European country
to offer a legal framework
enabling private companies
to explore and use
space resources

RESEARCH, DEVELOPMENT & INNOVATION

80+

research
projects

- **80+ research projects** are conducted at the **University of Luxembourg** and the **Luxembourg Institute of Science and Technology**
- **Key focus areas:** autonomous vehicles, robotics, space communications, system critical software, material sciences, biological sciences, and Earth observation
- **National and international collaborations** with NASA, ESA, SES, Airbus Defence and Space, OHB, TAS and many others.
- Set up of **Space Resources Innovation Centre**



THE GROUND SEGMENT

- Ground stations development
- Mechanical and electrical ground support equipment
- Communication networks
- Operations



THE SPACE SEGMENT

- Manufacturing of satellites
- Electric propulsion for satellites
- Robotics
- In-space manufacturing
- Composites



10 petaflops

Home to HPC Meluxina, member of the EuroHPC network, enabling 'Smart Space' and big data-enabled applications with a capacity of 10 petaflops

DIGITAL SPACE INFRASTRUCTURE

- **LSA Data Center:** access to Earth observation data to develop new services and applications
- **Data Lake:** Luxembourg is home to one of the world's largest data lakes for space data analytics

#1

for
technological
readiness
worldwide

A COMPETITIVE INTERNATIONAL BUSINESS ENVIRONMENT

- **#2 for attracting talent worldwide**
(INSEAD Global Talent Competitiveness Index 2018)
- **#2 for labour productivity worldwide**
(The Conference Board Productivity Brief 2019)
- **#1 for technological readiness worldwide**
(Global Competitiveness report, the world economic forum 2017-18)
- **#3 most inclusive economy in the world**
(World Economic Forum, Inclusive Development Index 2018)

FUNDING INNOVATION



Wide range of programmes

- **National Programme:** LuxIMPULSE is managed by the Luxembourg Space Agency and implemented by the European Space Agency
- **ESA Programmes:** access to a wide range of programmes covering technology or applications for telecommunications, navigation, Earth observation and space safety
- **EU Programmes:** Horizon 2020, EUREKA, Galileo, Copernicus
- **Dedicated Funds:** space fund, Luxembourg Future Fund
- **Grants** for Research, Development and Innovation projects

- A **leading** European Union financial centre
- Europe's **number 1 investment fund centre**
- International banking centre: 130 banks
- Home to the **European Investment Bank**
- Local investors (Business Angels, VCs, Family Offices, etc.)
- The 13 largest **Private Equity houses** in the world are operating out of Luxembourg
- **100+ global VC firms** within 1-hour flight



International expertise



START-UP SUPPORT ECOSYSTEM

Luxembourg is home to several start-up accelerators, incubators and innovation hubs:

Space Accelerator:



Startup Hub:

HOUSE OF **STARTUPS**
powered by the Luxembourg Chamber of Commerce

Startup Incubator:

technoport[®]
technology business incubator

SOME OF THE SPACE COMPANIES THAT TOOK OFF FROM LUXEMBOURG

			
			
			
			
			



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