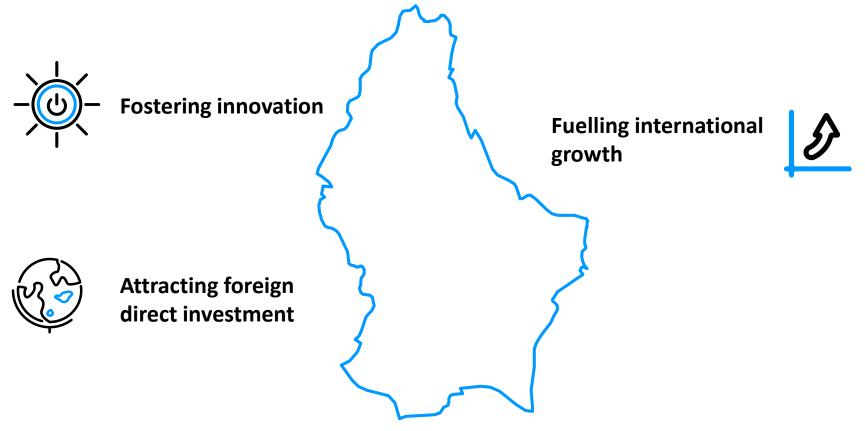
Luxembourg

Innovation Landscape



LuxInnovation, Our mission

Contribute to Luxembourg's economic development by:





LuxInnovation, Our services









Funding opportunities

- National
- European

Luxembourg Cluster Initiative

- Innovation
- Business development
- Cross-sector cooperation

Entrepreneurship support

- Start-up creation
- Business acceleration

Invest in Luxembourg

- BusinessDevelopment
- Promotion & Prospection
- Marketing & Communication



The Grand Duchy of Luxembourg

- The only Grand Duchy in the world
- Constitutional Monarchy (Head of State Grand Duke Henri, Prime Minister Xavier Bettel)



A century of innovation **DIGITAL ECONOMY** Internet of Things Artificial intelligence **Robotics** 3D printing **SATELLITE** Biotechnologies **SES** Blockchain Space resources **Today RADIO** Radio Luxembourg 2000 1980 1960 1940 **INTERNET** 1920 PayPal, Skype, www Amazon, eBay... TV **RTL** Television

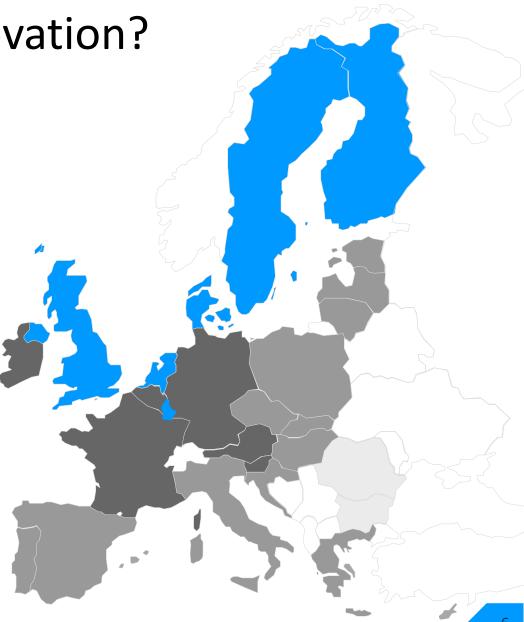
How do others evaluate us in terms of innovation?

European Commission

2018 European Innovation Scoreboard

Innovation leader
Strong Innovators
Moderate Innovators
Modest Innovators





How do others evaluate us in terms of innovation?

European Commission



Denmark

human resources and innovation-friendly environment



Luxembourg

attractive research system





France

finance & support



Ireland

innovation in SMEs, employment impacts & sales impacts



Belgium

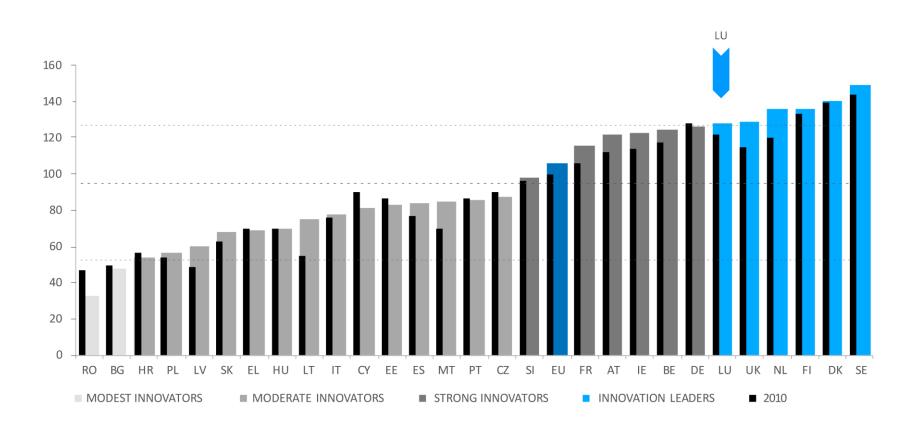
innovation linkages & collaboration





How do others evaluate us in terms of innovation?

European Commission

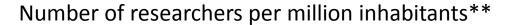




How do we rate in terms of innovation?

Global Innovation Index *

15



5,058

*Cornell University, INSEAD & World Intellectual Property Organisation (WIPO)





^{**}World Bank

University of Luxembourg:

- Founded in 2003
- Multilingual, international and research-oriented
- 850 Scientific and research staff + 242 Professors
- 6,500 Students from 110 different countries

Role is to foster innovation that will drive sustainable socio-economic growth





University of Luxembourg:

Pillars of Excellence:









Materials Science

Computer Science & ICT Security

European & International Law

Finance & Financial Innovation



Luxembourg Institute of Science & Technology (LIST):

R&D Infrastructures:

- National Composites Centre
- Materials Characterisation & Testing Centre
- Environmental Research & technology Centre
- Connected Objects







Others:

- Luxembourg Institute of Health
- IBBL (Integrated BioBank of Luxembourg)
- Luxembourg Institute of Socio-Economic Research (LISER)
- Max Planck Institute Luxembourg for International,
 European & Regulatory Procedural Law
- European Centre for Geodynamics & Seismology

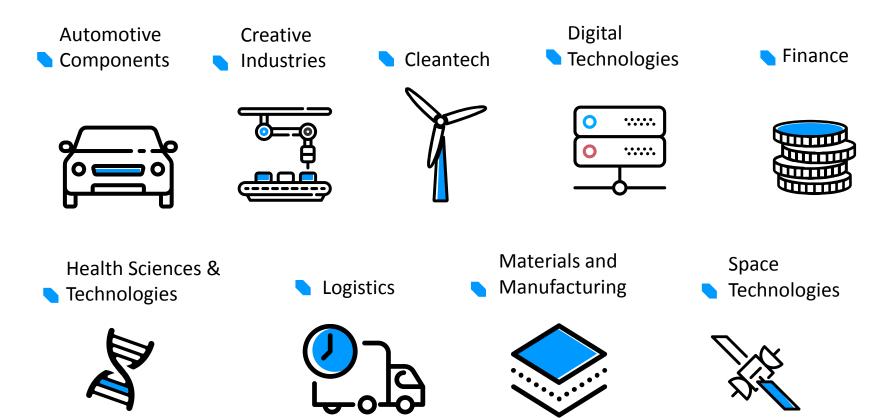
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What about the Private Sector?

Innovative sectors:





What about the Private Sector?

Support schemes:

- National funding programmes
- European funding programmes
- European Space Agency funding programmes
- Company performance programmes
- Luxembourg Cluster Initiative

• • •





Innovation made in Luxembourg

Some examples:



Putting the ball in ballpoint pens

If you write with a ballpoint pen, there is a very good chance that the ball at its tip was made in Luxembourg, where hard materials

Manufacturer **Ceratizit** turns out 12 billion such balls every year. This represents 40 to 45 % of the global production.



Innovation made in Luxembourg

Some examples:



Burj Khalifa Tower: the world's tallest tower

Guardian Luxguard S.A., based in Luxembourg, developed and supplied 600,000m2 of low-emissivity glass for the 206-storey Burj Khalifa Tower. Located in the United Arab Emirates, the tower reaches a height of 828m.



Innovation made in Luxembourg

Some examples:



Satellite pioneers from Luxembourg

SES S.A., created in Luxembourg in 1985,

is one of the world's leading providers of satellite communications and broadcasting services.

SES operates a fleet of more than 50 geo-stationary reaching 99% of the world's population and transmits vital services to keep billions of people connected around the globe.

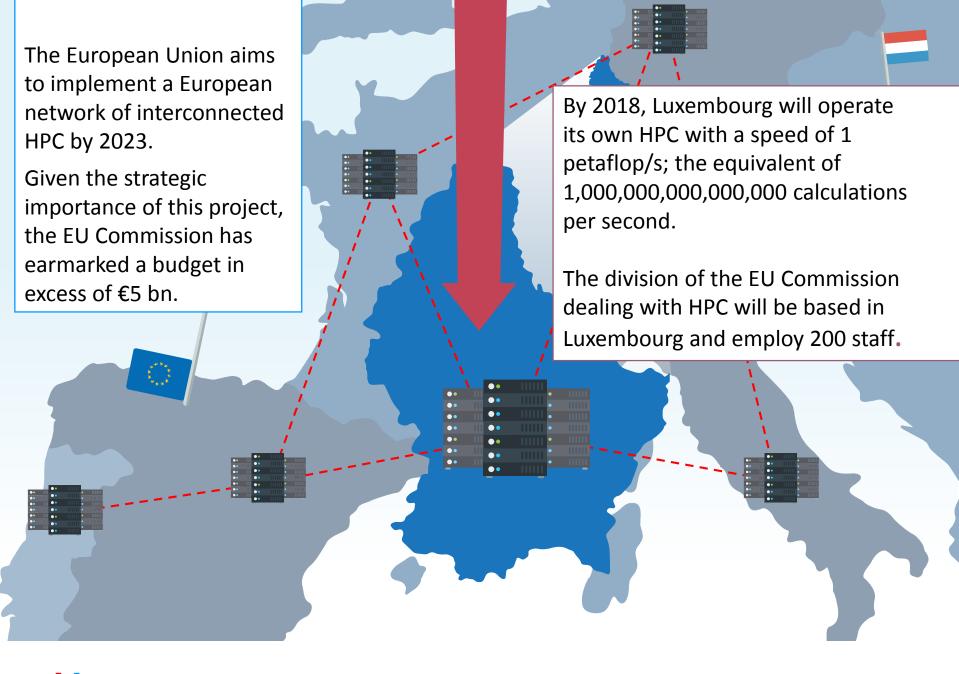


How is Innovation Shaping our Future?

High Performance Computing for Big Data Enabled Applications



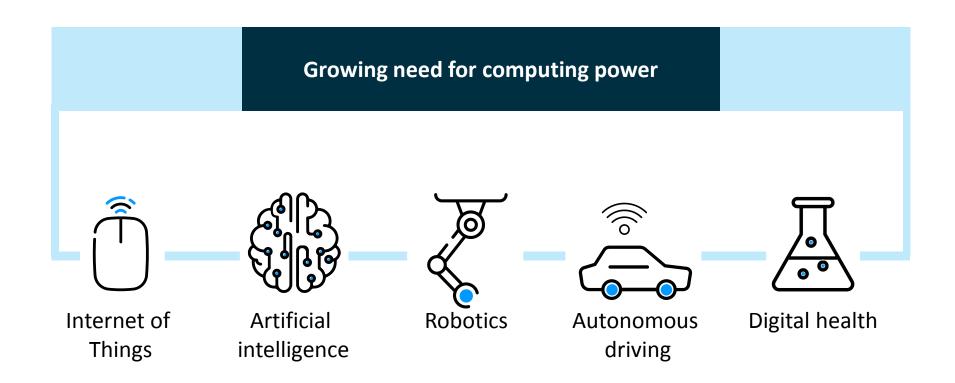






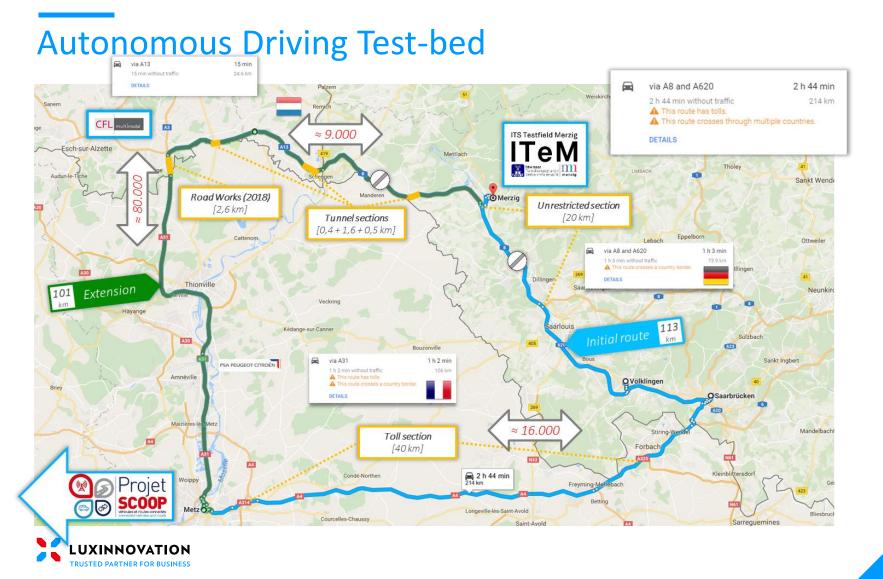
At the centre of a European network of supercomputers

High-Performance Computing



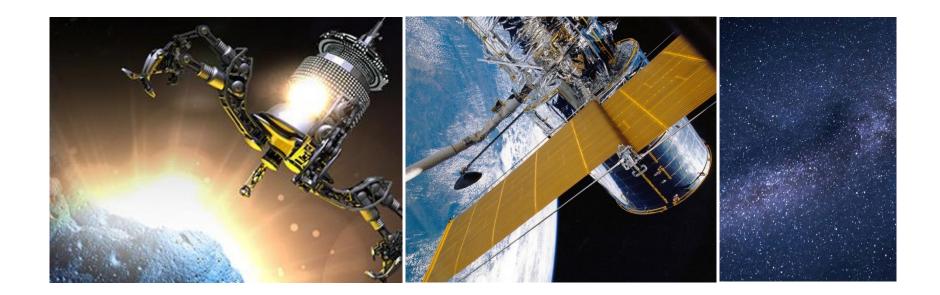


How is Innovation Shaping our Future?



How is Innovation Shaping our Future?

Space Resources





Thank you!

David Foy

Head of Sector Development
Digital Economy

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