

















IN A FEW WORDS...

Luxembourg is reinventing itself – again.

Once a leading steel producer and later a global financial centre, Luxembourg is now also an international academic hub fostering research and innovation. This nation's research landscape — sustained by robust state funding and public support — makes it an attractive place to excel.















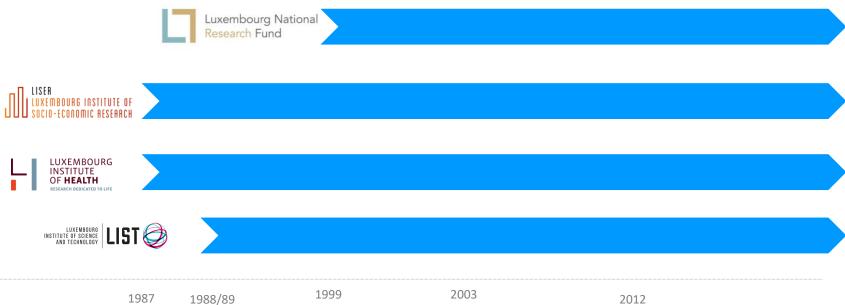


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OUR STORY

 A fast growing landscape of research bodies





UNIVERSITÉ DU LUXEMBOURG

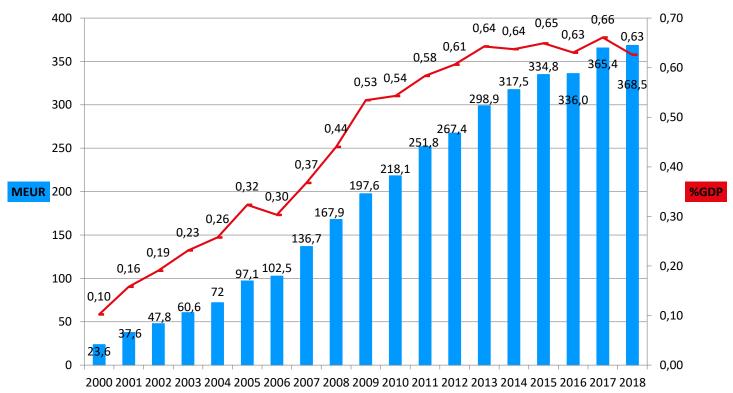




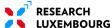


A PROVEN GOVERNMENTAL PRIORITY TO DEVELOP R&D

Luxembourg Public Investments in Public and Private R&D



- Sustained funding growth from successive governments - from €24 million in 2000 to €1.5 billion for the 2018-2021 period
- Objective: raise public spending on R&D, for both the public and the private sector, to 1% of GDP by 2023





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AN ATTRACTIVE PLACE TO EXCEL!

Government support has built an attractive and fertile research landscape, gaining high international recognition in specific domains:

- Materials science
- Health
- ICT
- Data science
- Education

13 ERC grants were awarded between 2014 and 2019











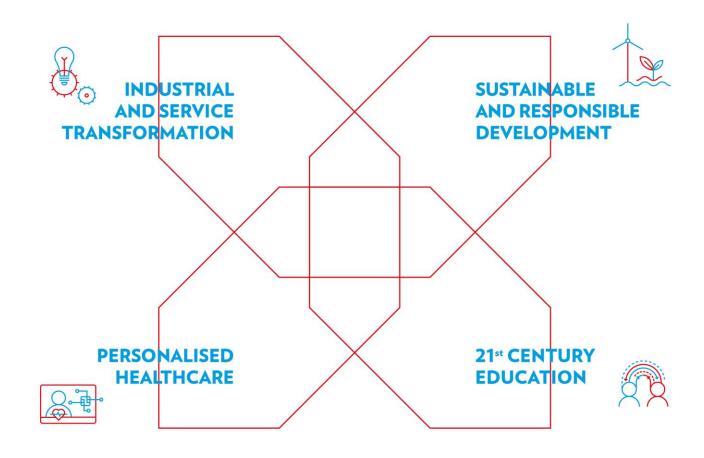


AN ATTRACTIVE PLACE TO EXCEL!

National research and innovation strategy approved by the Government in December 2019

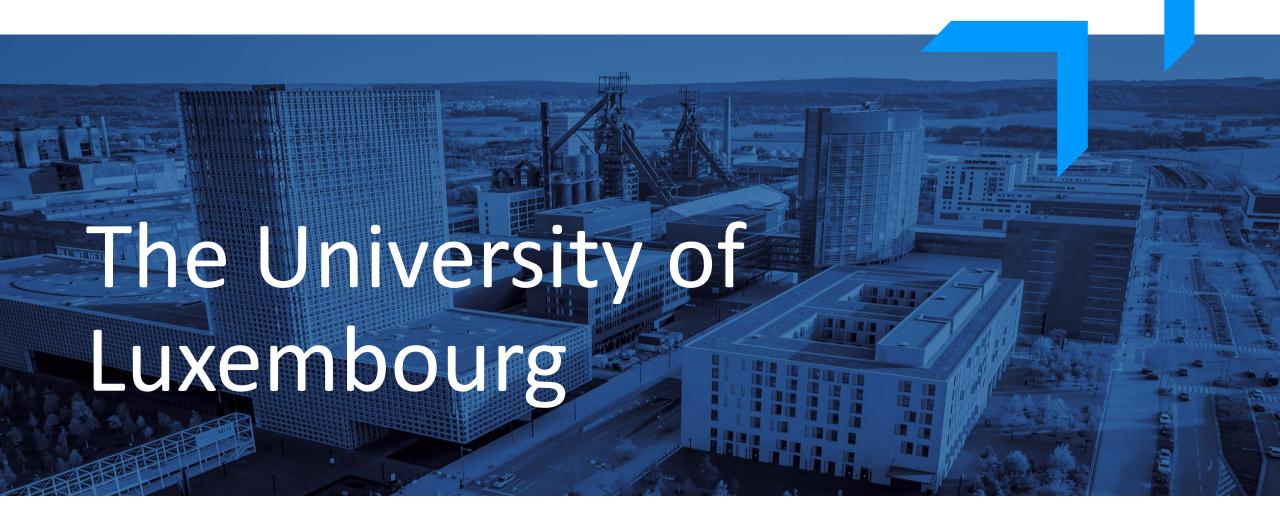
Mission: make Luxembourg a sustainable, knowledge-driven, diverse and trusted digital society by 2030

Four interdisciplinary research priority areas to fulfill the mission













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Towards an international leader in selected areas of research

- 6,400 students, thereof 1,650 Master students and 900 PhD candidates
- 14 Bachelor and 42 Master degree programmes, 4 doctoral schools
- 270 faculty members, 500 researchers
- 54% students from abroad, multilingual teaching and mandatory semester abroad
- 32 chairs since 2005, thereof 12 ERC chairs; 70 Horizon2020 grants
- Ranked No.17 (THE Young Universities) and No.1 for its international outlook
- Ranked No.14 in the NATURE index 2018 of "rising stars"*

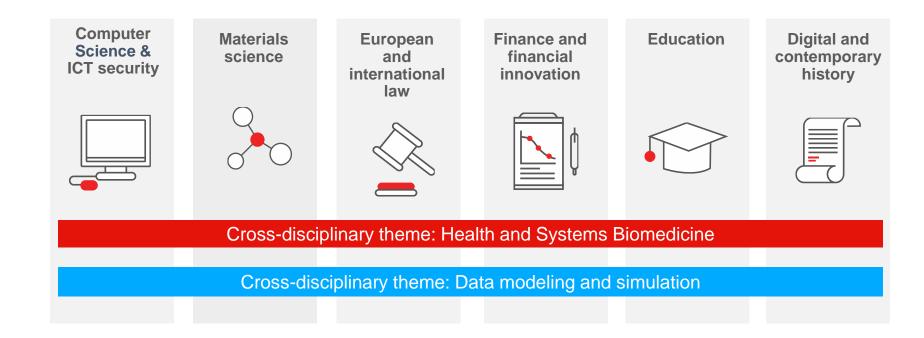








INTERDISCIPLINARITY



>> On the agenda: SPACE and GREEN FINANCE















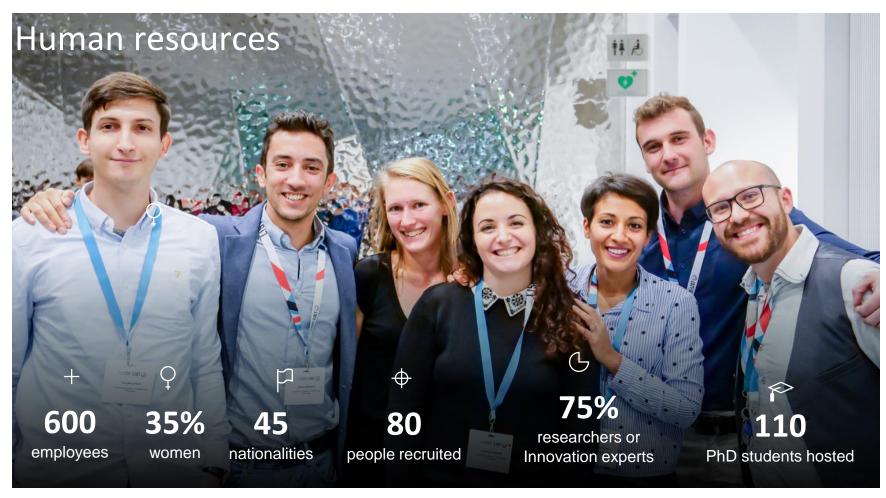
MISSION







FACTS & FIGURES







THE NEW research and technology organisation















Luxembourg Institute of Health (LIH) in a nutshell



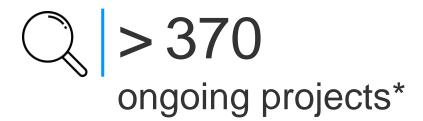
LIH performs outstanding research for the benefit of patients



research departments

higher













LIH tomorrow: Vision and mission

Towards a centre of excellence aiming at impacting on patients' needs.



LIH diseases model and approaches:

- Cancer and Immunological diseases
- Population Health



Set up to lead the way in a new era of data driven, patient based research



Transversal, translational bed-to-bench-to-bed programmes:

- Connecting unmet needs of patients in hospitals with cutting edge biomedical research
- Driving new therapy developments forward into a clinical trial dimension













VISION AND MISSION

LISER is a socio-economic research institute internationally recognised, focused on societal challenges.

Through its multi and interdisciplinary research,
LISER contributes in an active and focused way
to a sustainable and inclusive knowledge society
at national and international levels.



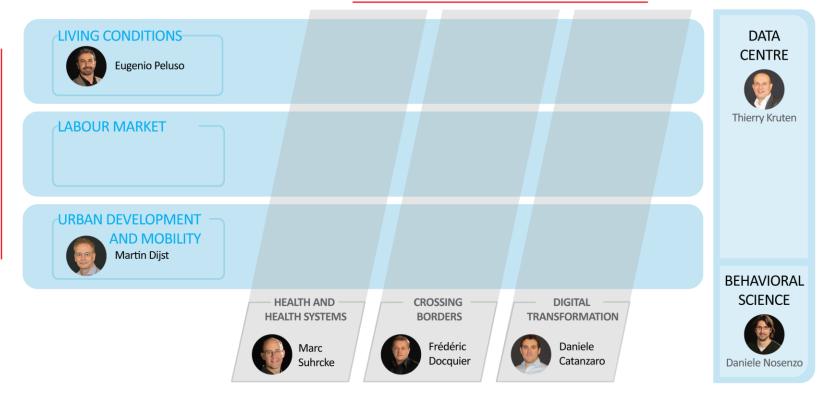




LISER'S ORGANISATION

INTERDISCIPLINARY RESEARCH PROGRAMMES

RESEARCH DEPARTMENTS







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FACTS AND FIGURES





- INGRID 2, MIGAPE, EXHAUSTION (H2020)
- MMUST, SDT-GT/REK-GR (FEDER-INTERREG)
- CECCUT (Erasmus+, Jean Monnet)
- Evalab4Lux (FSE)
- A-HOUSE, TIMING, TER_INEQ, CASinO, CROSS-POP (FNR Luxembourg)



INTERNATIONAL ORGANISATIONS

- European Commission
- United Nations
- OECD
- WHO
- ILO
- World Bank

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INTER-INSTITUTIONAL COLLABORATIONS

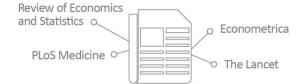
- Sciences Politiques, Paris
- NYU (Abu Dhabi)
- University of Zurich
- Paris 1 Sorbonne
- University of Oxford
- Institut des Systèmes complexes
- European Social Observatory

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VISITING AND MOBILITY PROGRAMMES



115 VISITOR WEEKS in 2018



SCIENTIFIC OUTPUTS

±80 PEER-REVIEWED ARTICLES PER YEAR



2 PILLARS ACTIVITY

the data collection capability
the data archiving and o

the data archiving and data management capability and is in charge of the EU-wide data collection surveys in Luxembourg **SURVEYS**



HFCS EU-SILC EVS SHARE

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VISION AND MISSION

Our Mission

To set up a sustainable world-class research system in Luxembourg that will generate societal and economic impact in key strategic areas

- Supports excellence and quality in research
- Project selection always based on external peer-review
- Supports the transfer of research results
- Collaborates with many funding agencies worldwide
- Promotes science in society





FACTS AND FIGURES



Sustainable Resource Management:

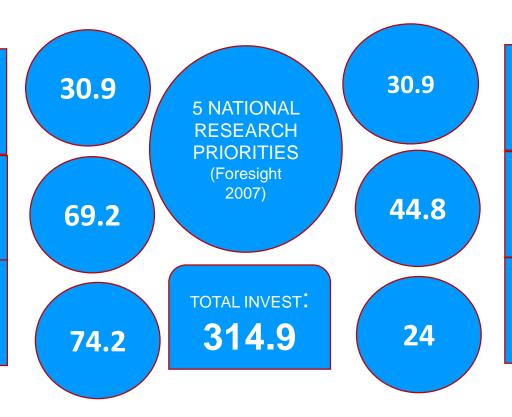
Water resources, bio resources, building and bioenergy, urban development

Biomedical and Health Sciences:

age-related diseases, translation research, public health

Material Sciences:

new functional and intelligent materials and surfaces, new sensing applications



Innovation in Services:

finance, business, information services, telecommunication

Societal Challenges:

social and economic cohesion, education and learning, identities diversity and interaction

OTHER:

law and economics: mathematics

- -21% of all the FNR funded projects were international projects
- -20,5% of the total FNR budget were dedicated to international projects







FNR: INTERNATIONAL COLLABORATION



- Project funding in the framework of bilateral or multilateral collaborations built on joint research activities
- Mobility scheme for experienced researchers
- AFR Bilateral: Specific calls for PhD and Postdoc Grants with selected partners









RELATIONS WITH ASEAN COUNTRIES

- About 30 students from ASEAN countries enrolled at the University of Luxembourg in 2018/2019; majority from Vietnam
- Interuniversity agreements with
 - University Gadjah Mada (Indonesia)
 - Nanyang Technological University (Singapore)
 - King Mongkut's University of Technology Thonburi (Thailand)
 - Chulalongkorn University (Thailand)
 - Hanoi University of Science and Technology (Vietnam)
- Cooperation of University of Luxembourg with National University of Laos in the field of Law, with the support of Luxembourg Development Cooperation







RELATIONS WITH ASEAN COUNTRIES

Examples of research collaboration:

- University of Luxembourg National Science and Technology Development Agency (NSTDA)/National Electronics and Computer Technology Centre (NECTEC), Thailand: high performance computing;
- University of Luxembourg National University of Singapore: mathematics (joint PhD projects funded by FNR)
- Luxembourg Institute of Science and Technology (LIST) National University of Singapore, Nanyang Technological University and Agency for Science, Technology and Research, Singapore: Nanomaterials and Nanotechnology, Environmental and Industrial Biotechnologies
- LIH Institut Pasteur Laos/ Red Cross Laos/ National University of Laos
- LIH National University of Singapore: Regulatory RNA markers, cancer

EURAXESS Luxembourg: services centre at the University of Luxembourg to foster researcher mobility and provide information and assistance for researchers moving to Luxembourg





















