National Context
Strength & Weaknesses of Luxembourg’s Research Environment

Strength:
- Research budgets
- International networks
- Strategic orientation

Weaknesses:
- Academic tradition
- Size (limited resources)
Investments in RDI

- **Amount:**
  - 200 Mio EUR
  - 250 Mio EUR
  - 300 Mio EUR
  - 350 Mio EUR

- **% GDP:**
  - 0.0%
  - 0.1%
  - 0.2%
  - 0.3%
  - 0.4%
  - 0.5%
  - 0.6%
  - 0.7%
RDI Policy in Luxembourg

1984: Creation of Luxinnovation
1999: Creation of the National Research Fund
2003: Creation of the University of Luxembourg
2015: Cité des Sciences (Belval)
Research Landscape

Researchers
• Public: 750 FTE
• Private: 1600 FTE

4 Public Research Centres:
• CRP Gabriel Lippmann
• CRP Henri Tudor
• CRP Santé
• CEPS / INSTEAD

University of Luxembourg
Other: LNS, CHL, IBBL
FNR Instruments
Public institution with scientific, financial and administrative autonomy.

Objectives:
• Scientific excellence
• Favourable environment for competitive research
• Promoting scientific culture

Multiannual Performance Contract (Budget 2011-2013: ~190M€)
• Multiannual Research Programmes
• PhD and Post-Doc
• Accompanying Measures
• Promotion of Scientific Culture
FNR Programme: CORE

Annual thematic research programme
• Framework programme to foster scientific quality.

Relevant domains:
• Biomedical Sciences (Regenerative Medicine in Age-related Diseases)
• Labour Market, Educational Requirements and Social Protection

Allocated budget: 95M€
Funded Projects: 136
FNR Programme: ATTRACT

Objective:
• Attracting junior researchers with outstanding level of scientific ability
• Offer such researchers the opportunity to set up their own research team

Support up to 1,5M€ for 5 years per candidate
5 projects until now
Objective:

- Attracting established and highly recognised researchers
- Establish their research programme in a key strategic position within a public-sector research institution
- Develop and strengthen strategically important research fields for Luxembourg

Support up to 5M€ for 5 years per candidate
4 projects funded until now
AFR: PhD and Postdoc Grants

Objective:
• Provide grants for PhD and postdoctoral research training (mostly work contracts)

Funds researchers in- and outside Luxembourg
2/3 of the grants allocated to researchers at Luxembourg research institutions
Partial funding from EU-FP7 COFUND

Grants: 355 AFR PhD / 127 AFR Postdoc
Research in Ageing
Integrative Research Unit: Social and Individual Development (INSIDE)
- interdisciplinary research unit (psychology, sociology, educational sciences and social work)
- study of individual and social development

Generations and Development across the Life-span:
- Ageing and Life-span Development
- Technology and Ageing
Prof. Dieter Ferring

Director INSIDE, Professor of Psychology

Research:

• Life span developmental psychology
• Psychogerontology
• Self-regulation and coping in age and old age
• Subjective well-being and quality of life
• Intergenerational family relations
• Conditions of dependency and autonomy in old age
• Technology and ageing.
Luxembourg Centre for Systems Biomedicine (LCSB)

Research:
• Neurodegenerative diseases (Parkinson’s)
• Experimental and computational approaches

Highly interdisciplinary environment
• Experimental Neurobiology
• Computational Biology
• Metabolomics (ATTRACT)
• Bioinformatics
• Translational & Experimental Medicine
Integrated BioBank of Luxembourg (IBBL)

Biobanking and biotechnology foundation

Services:
- Biospecimen Collection and Biorepository
- Biorefinery Analysis and Research service
- Clinical and biospecimens data
International Programmes

Ambient Assisted Living (AAL)
• Virtual Coach Reaches Out To Me (V2me), INSIDE, 480.000€
• Sustainable E2 Mobility Services for Elderly People (STIMULATE), CRP Henri Tudor, 570.000€

ERA-AGE 1 & 2
• FLARE projects
Discussion

- CORE: research = excellence + priority
- ATTRACT: research = opportunity + challenge
- PEARL: research = flexibility + synergies
- INTER: research = mobility + collaboration
- AFR: research = training + perspective
- AM: research = support + promotion
- PSC: research = communication + promotion