

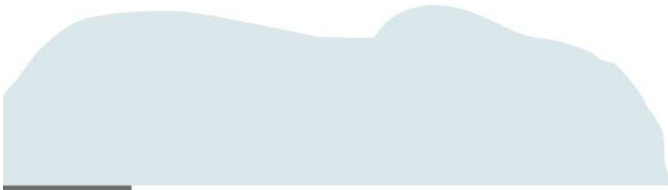
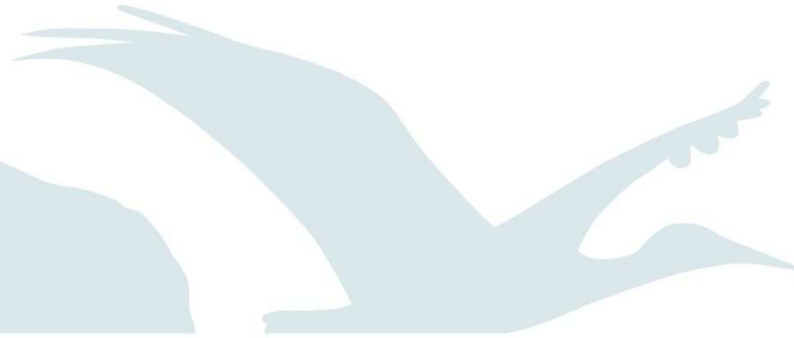


# BUILDING RESEARCH CAPACITY IN LUXEMBOURG

9<sup>th</sup> ERA-AGE Forum Meeting, Bucharest  
Norman Fisch, 28 November 2012

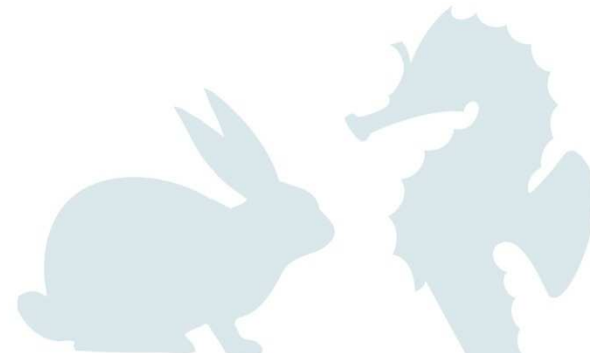


Fonds National de la  
Recherche Luxembourg



# National Context

 Fonds National de la  
Recherche Luxembourg



# Strength & Weaknesses of Luxembourg's Research Environment

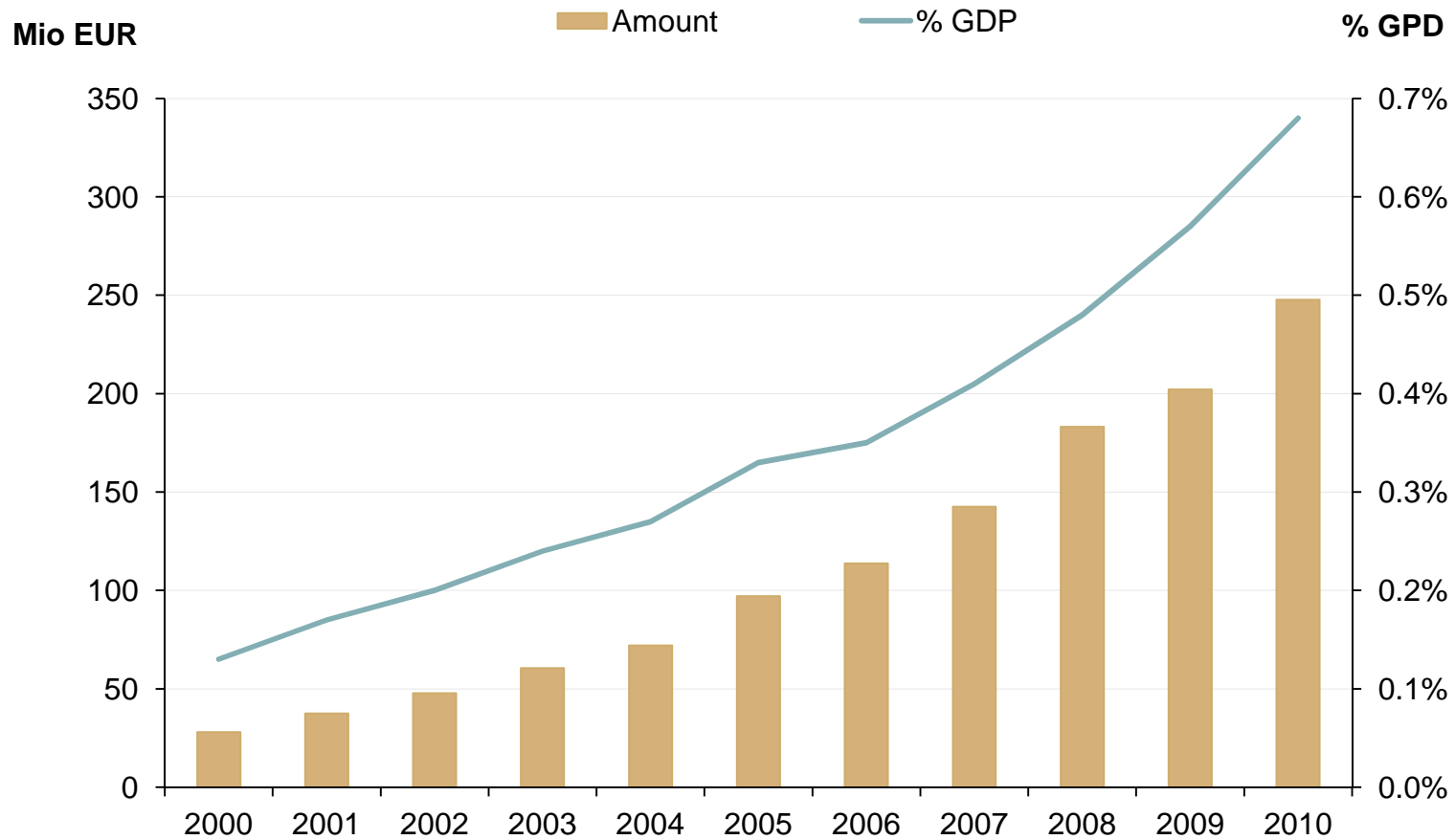
## Strength:

- Research budgets ↗
- International networks
- Strategic orientation

## Weaknesses:

- Academic tradition
- Size (limited resources)

# Investments in RDI



# 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)



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# Research Landscape

## Researchers

- Public: 750 FTE
- Private: 1600 FTE

## 4 Public Research Centres:

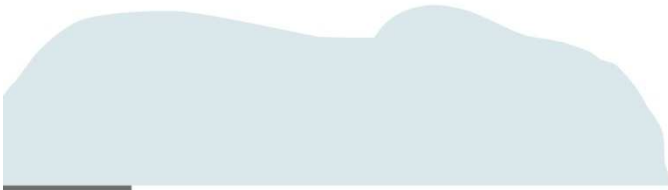
- CRP Gabriel Lippmann
- CRP Henri Tudor
- CRP Santé
- CEPS / INSTEAD

University of Luxembourg

Other: LNS, CHL, IBBL

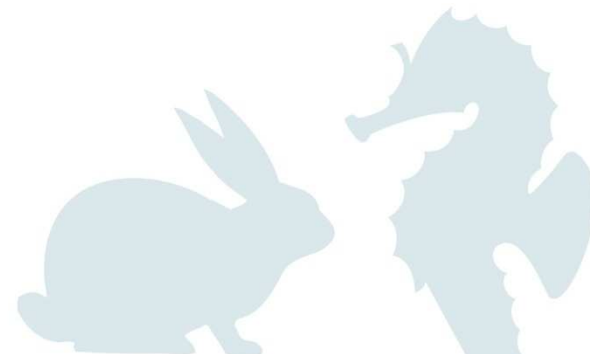


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# FNR Instruments

 Fonds National de la  
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# FNR

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



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# 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



# FNR Programme: PEARL

## 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

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Support up to 5M€ for 5 years per candidate  
4 projects funded until now

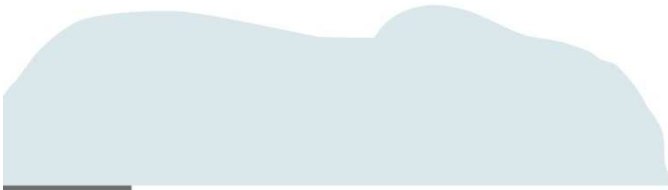
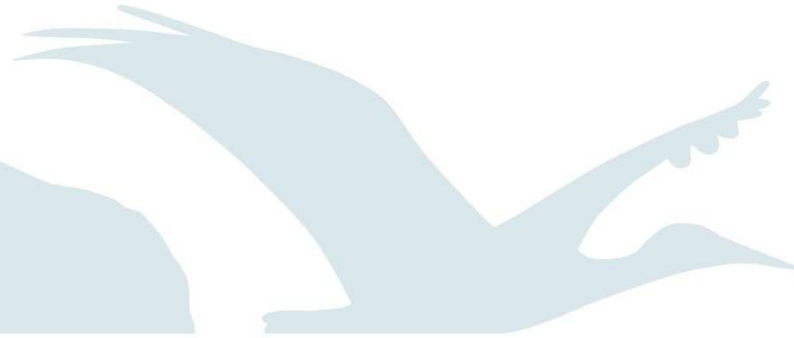
# AFR: PhD and Postdoc Grants

## Objective:

- Provide grants for PhD and postdoctoral research training (mostly work contracts)

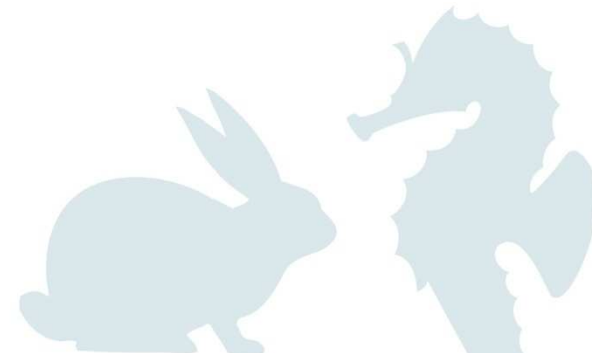
Funds researchers in- and outside Luxembourg  
2/3 of the grants allocated to researchers at  
Luxembourg research institutions  
Partial funding from EU-FP7 COFUND

Grants: 355 AFR PhD / 127 AFR Postdoc



# Research in Ageing

 Fonds National de la  
Recherche Luxembourg



# University of Luxembourg: INSIDE

## 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

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# 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.



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# 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



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# Integrated BioBank of Luxembourg (IBBL)

## Biobanking and biotechnology foundation

### Services:

- Biospecimen Collection and Biorepository
- Biorefinery Analysis and Research service
- Clinical and biospecimens data



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# 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



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# 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

[www.fnr.lu](http://www.fnr.lu)