



FNR ANNUAL REPORT

The Luxembourg National Research Fund (FNR) is the main funder of research activities in Luxembourg. The FNR invests public funds and private donations into research projects in various branches of science and the humanities, with an emphasis on selected core strategic areas. Furthermore, the FNR supports and coordinates activities to strengthen the link between science and society and to raise awareness for research. It also advises the Luxembourg government on research policy and strategy.



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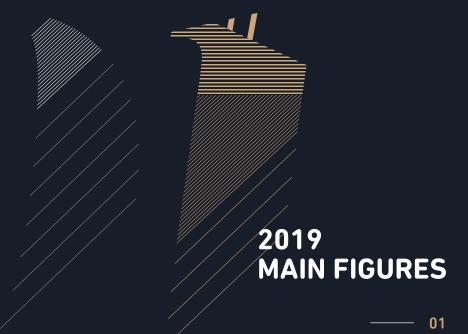
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Seeds of excellence are present, a culture of quality is emerging, impact orientation is gaining momentum and collaboration between institutions is advancing.

Excellence and long-term socio-economic benefit. These are the two cardinal values that must guide the path of Luxembourg's public research. It is only by applying these two principles rigorously that the Luxembourg National Research Fund (FNR) can achieve its ambitious goal of establishing Luxembourg as a knowledge-based society focused on science, research and innovation, in order to contribute to the economic diversity, social well-being and the future prosperity of our country.

Within only two decades, Luxembourg's public research has already come a very long way. Seeds of excellence are present, a culture of quality is emerging, impact orientation is gaining momentum and collaboration between institutions is advancing. Finishing the high growth start-up phase that commenced at the turn of the millennium, public research has now entered its consolidation phase, during which it will have to prove its excellence and quality in a fiercely competitive worldwide research landscape.

The role of public research is to be the driving force of the Luxembourgish research ecosystem. It has the potential to fuel others, but to achieve impact, it also needs the determination and the energy of the private sector. The Luxembourg public research ecosystem is young, attractive and dynamic, and the Belval R&I Campus, which embodies both the country's past and the future of research, is its impressive showcase. Abroad, the excellence of the ecosystem is a supplementary asset for the country, because it has an undeniably unique business card.

In 2019, the Luxembourg National Research Fund will celebrate its $20^{\rm th}$ anniversary. Since its creation back in 1999, the FNR has played an essential leading role in the

development of this vibrant research ecosystem, driving the national strategy and keeping high the standards of excellence in research and socio-economic impact.

For the upcoming four years - the current multiannual contract with the Government goes for the period 2018-2021 - the FNR has the firm intention to continue in that direction, and it will dedicate a total budget of 341 million euros to make continued progress in the realisation of its vision and mission.

To achieve this realisation, three strategic objectives have been set, articulated around six key value drivers. The FNR also wants to push forward a competitive and comprehensive culture of excellence and has therefore defined six dimensions that constitute the agency's understanding of "excellence in research". Scientific excellence will evidently remain the key criterion throughout the FNR schemes, but it will be tied to strategic considerations and a greater emphasis on the generation of economic and societal impact through research.

As unambiguously formulated in its mission, the FNR will continue to put all its efforts in setting up a sustainable world-class research system in Luxembourg that will generate societal and economic impact in key strategic areas. One further step towards that goal is the redefinition process of the national research priorities, for which the FNR has been mandated by the Ministry of Higher Education and Research, an important process that took place in 2018 and will be finished by mid-2019.

Marc Schiltz, Executive Head



Marc Schiltz



OBJECTIVES, STRATEGY, POLICY

Luxembourg National Research Fund Research with impact

WHAT WE DO

The Luxembourg National Research Fund (FNR) is the main funder of research activities in Luxembourg. The FNR invests public funds and private donations into research projects in various branches of science and the humanities, with an emphasis on selected core strategic areas. Furthermore, the FNR supports and coordinates activities to strengthen the link between science and society and to raise public awareness for research. It also advises the Luxembourg government on research policy and strategy.

OUR VISION

To establish Luxembourg as a leading knowledgebased society through science, research and innovation, thereby contributing to the country's economic diversification and future prosperity.

OUR MISSION

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

OUR STRATEGIC PRIORITIES

The FNR aims to be a driving force for Luxembourg's innovation capabilities and focuses on the three following strategic objectives to foster research with impact:

- Attaining scientific leadership in key areas
 By setting the highest quality standards, the FNR contributes to establishing international research excellence in Luxembourg. By attracting and training the most talented scientists, the FNR helps to build critical mass in key research areas, thereby supporting economic development and societal progress.
- Turning public research into a competitive advantage for Luxembourg

The FNR supports the advancement of Luxembourg's knowledge-based economy by supporting industry-informed research, by reinforcing co-operation between public research and innovative industries and by facilitating the commercial exploitation of research results.

Anchoring Science and Research in Society
 The FNR promotes the active involvement of researchers and scientists in addressing current and future societal challenges. To ensure that research is established sustainably in the public consciousness as an important pillar of Luxembourg's knowledge society, the FNR supports an active exchange between scientists and the public at large.

HOW WE WORK

Our most highly valued criteria are excellence and quality in research. In order to identify the most promising and most excellent projects and researchers, we systematically submit funding requests to an assessment by independent international experts. The FNR implements the "Principles of Scientific Merit Review", which embody the highest international standards of expert assessment, transparency, impartiality, confidentiality and integrity.

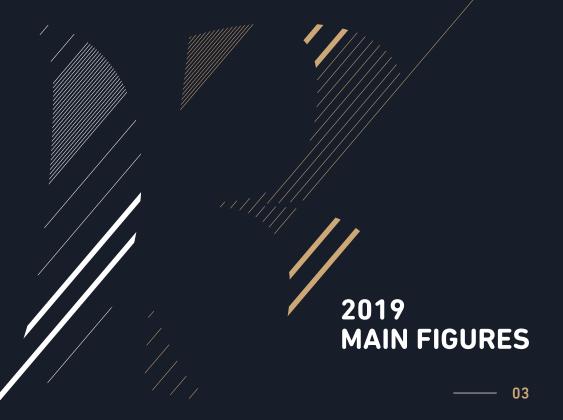
OUR CORE VALUES

- Towards researchers and research institutions
 We implements a fair and transparent process in our decision taking and nurture an open dialogue with the scientific community.
- Towards the government, tax-payers and donators
 We are accountable for the usage of funds that we are entrusted with and we strive for efficiency in our operations.
- Towards the general public

We care for the long-term interest of the country and consider engagement with society as a constitutive part of science.

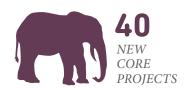
Towards our collaborators

We aim to stimulate talent-development and competence building of our staff, who translate the FNR's vision, mission and core values into action.



2019 MAIN FIGURES





18
INTERNATIONAL BILATERAL
COOPERATION AGREEMENTS
RUNNING IN 12 COUNTRIES
WORLDWIDE IN 2019

671PROJECTS EVALUATED

217
FUNDED PROJECTS

1,097
REALISED EXPERTISES

209
FINISHED PROJECTS

580RUNNING PROJECTS

(*31.12.2019)







21.86

MEUR COMMITTED TO INTERNATIONAL PROJECTS







12,000 visitors @ Science Festival





2019 ACTIVITY REPORT

In 2019, the FNR celebrated its 20th anniversary of creation. A number of events and activities took place under that label.

I. MAJOR PROJECTS

The FNR finalised the "Revision of national priorities for public research" report in close consultation with Ministry for Higher Education and Research. After discussions with international experts, researchers, research institutions and national stakeholders, the FNR's proposal for new priorities was sent to the Ministry in April. Further consultations took place with other Ministries. The final National Research Priorities are part of the "National Research and Innovation Strategy for Luxembourg" which approved by the Government in December 2019. The new set of national priorities will be incorporated into FNR's calls for projects from 2020 onwards.

Over the past two years, the FNR CEO had set up regular meetings (4 times per year) with the CEOs of all research institutions (University, LIH, LIST, LISER) to coordinate strategic actions on a national level and to exchange on strategic and policy issues. This group was formalized as part of the National Research and Innovation Strategy for Luxembourg into a *Strategic Steering Group* (SSG), now chaired by the Ministry. The initiative « Research Luxembourg » has been set up as a joint endeavour to promote Luxembourg research at the an international level. Similarly, a joint Workig Group has been set up to define a national action plan for promoting gender equality in research.

In an effort to achieve an increase in the number of women in leadership roles in the academic and research

sector, the FNR had introduced the condition that at least 40% of submissions for the ATTRACT programme come from female applicants for the period 2017-2021 (30% for PEARL). After three calls, this condition remains a long way from being fulfilled. Hence, for the ATTRACT 2020 and subsequent calls, the FNR has introduced the requirement of gender parity (by the institution) for the submission of dossiers.

In July, the FNR and the C²DH announced the recruitment of Professor Dr Sean Takats, an internationally renowned expert on digital history, backed by an FNR PEARL Chair. Professor Takats' PEARL project aims to transform historical research practises to meet the demands of the digital age and establish Luxembourg as one of the global leaders in digital history research and development. The project named DHARPA (Digital History Advanced Research Projects Accelerator) will assess the impact of technology on historical research, and it will experiment with how technology can reshape the methodological underpinnings of history as a scientific discipline.

In October, Professor Gilbert Fridgen has been appointed the inaugural PayPal-FNR PEARL Chair in Digital Financial Services which will allow him to conduct scientific research at the digital transformation of financial services and the intersection of finance and technology. This unique funding through PayPal and the FNR PEARL programme has an initial duration of five years.

¹ https://www.fnr.lu/prio-fnr-propositions-government/

https://www.fnr.lu/national-research-priorities-for-luxembourg-approved/

³ http://www.mesr.public.lu/presse/communiques/2020/FEVRIER-2020/Presentation-de-la-strategie-nationale-de-la-recherche-et-de-l_innovation1/09711_MESR_SnRI_Broch_en_WEB-_002_.pdf

It is jointly supported by PayPal and the Luxembourg National Research Fund (FNR) and hosted at the Interdisciplinary Centre for Security, Reliability and Trust (SnT) of the University of Luxembourg. Gilbert Fridgen is a renowned expert in blockchain, systems engineering and information technology platform development, with extensive and very successful experience with private-public partnerships. He is founder and co-director of the Fraunhofer Blockchain Lab.

The FNR published the results of the opinion poll on the perception of science and scientific research, the detailed results of which are available at fnr.lu. The survey observed a steady rise of interest in science and scientific research. Approximately 61% of the population say they are interested in science and research in Luxembourg. This overall score has risen by 18 percentage points compared with 2013. The population has a very positive view (68%) of research that raises knowledge, even if it does not have an immediate impact. A clear majority (77%) believe that even a small country like Luxembourg should carry out scientific research.

Since 2013, the recognition level of the FNR has risen by nine percentage points up to 70%.

The second edition of "Pairing scheme - Politics meets Research" project, initiated in 2016, was organised in 2019. It has been carried out in close cooperation with Parliament (*Chambre des députés*). Following a call for candidates, 13 'couples' were formed - each comprising a researcher and a Member of Parliament. The 'pairs' meet at least twice in their respective professional environments. The objective was to establish sustainable links between the world of politics and research. Tracy Brown, director of the NGO Sense about Science was invited to the closing ceremony of this second edition at the Parliament, to give a keynote speech on why evidence matters in political decision making.

In December, the FNR co-organised the 12th edition of the Science Festival, a four days festival taking place in the Neumünster Abbey and the Natural History Museum in Luxembourg City. During four days scientists, researchers, science communicators and the audience had the opportunity to communicate with each other and to experiment. With 56 experimental workshops, 7 interactive shows and 2 exhibitions, the Science Festival invited young and old to participate in the experiments and presentations actively. Some 12.000 people participated in this 12th edition.

The FNR continues to be a very active or organisation on the Europen and international level, through its engagement with partner research funding agencies and its participation in international associations, and its contribution to international rearch policy networks. On 27th November, he FNR CEO Marc Schiltz was reelected for a second 2-year term as President of Science Europe, the European association representing the main national research funding and performing organisations. He was also re-elected on the Governing Board of the Global Research Council, which comprises the Heads of research funding bodies from around the world.

In May, the auditor recommended maintaining the ISO 9001: 2015 certification (No. 9108637133, www.tuv.com) for quality management systems.

II. FNR GOVERNANCE

Board of Directors

The Board of Directors held five meetings in 2019, chaired by Ms. Véronique Hoffeld.

The *Chairmanship* (Ms. Véronique Hoffeld, Mr. Thierry Wolter and Mr. Marc Schiltz) met five times during 2019.

The Audit and Finance Committee of the Board of Directors (comprising Ms. Andrée Billon and Mr. Roger Assacker) held four working sessions, three of which by written procedure.

The Appointments and Remuneration Committee of the Board (comprising Ms. Véronique Hoffeld, Mr. Thierry Wolter and Ms. Christiane Hoffmann) met twice in 2019.

Mr. Romain Martin succeeded to Mr. Robert Kerger as Government Commissioner for the FNR on 1st July 2019. The Government Commissioner attends all meetings of the Board of Directors in an advisory role.

On March 29th, the Board of Directors and the Scientific Council held a joint meeting to discuss the final FNR recommendation for the National Research Priorities document that the FNR sent to the Ministry of Higher Education and Research in April 2019.

A new Board of Directors was appointed as of 1st December 2019. Ms. Martine Reicherts was appointed Chair of the Board and Mr. Thierry wolter was renewed for a second term as Vice-chair. The new Board members are:

- Martine Reicherts (Chair), former Director General at the European Commission;
- Thierry Wolter (Vice-chair), Member of the Executive Committee, Ceratizit, Luxembourg.
- Tania Brugoni, Director, 1535° Creative Hub, Luxembourg;
- Stéphanie Damgé, Director, Jonk Entrepreneuren Luxembourg ASBL;

- Jean-Marc Fandel, expert advisor, scale up, Luxembourg;
- Yves Fromes, doctor and research director,
 Laboratoire de RMN CEA-Institut de Myologie, France;
- Anouk Hilger, Director of Renewable Energy, Enovos, Luxembourg;
- Isabelle Schlesser, Director, ADEM, Luxembourg;
- Richard Sedrani, Director, Novartis, Switzerland;

Scientific Council

The FNR's Scientific Council met twice in 2019, chaired by Mr Yves Fromes. In addition, a joint meeting with the Board of Directors was held on March 29^{th} .

General Managementl

The Executive Management Team helds fortnightly meetings under the leadership of Mr. Marc Schiltz. A total of 14 Decision-making sessions took place in 2019.

III. PROGRAMMES⁴ AND PRIORITY ACTIONS

The activities carried out during the year for the strategic objectives laid down in the multi-annual agreement are summarised as follows:

STRATEGIC OBJECTIVE 1:Strengthening the foundations

- Focus on research priorities and ensure strategic alignment
- Attract and nurture talents
- Foster international cooperation

⁴ In-depth information on the FNR's different financing instruments (CORE, OPEN, INTER, etc.) is available on the www.fnr.lu website.

The report on the Assessment of the National Quality framework for Doctoral Training was finalized and presnetd in the Board. The FNR implemented key recommendations for Doctoral training Units in the 2019 PRIDE Call.

The FNR co-organized the National PhD Welcome Day on 21st November 2019. This annual event, brings together all newly hired PhD students in Luxembourg.

The FNR provided grants for young researchers to participate in the 2019 Lindau Nobel Laureate Meeting and in the STS Forum Young Leaders' Program in Kyoto.

CORE

The FNR received 131 proposals, 123 of which were eligible. After evaluation by independent international experts, the FNR selected 40 projects for funding (including 17 "CORE Junior" proposals and 4 proposals within the framework of bilateral international cooperation), amounting to EUR 22.6 million. The five international selection panels confirmed that the selection process is being implemented according to the highest international standards.

OPEN

The FNR received 12 proposals, all of which were eligible. After an assessment by international experts, the FNR selected 4 projects, which were given a total of EUR 2.3 million in funding.

INTER

The FNR assessed 188 proposals and granted funding to 19 projects (13 bilateral, 6 multilateral) for a total of EUR 7.1 million. There was no project selected as part of the AAL and EUROSTARS programmes.

Furthermore, the FNR evaluated 16 INTER-Mobility proposals, of which 7 were selected for a total of EUR 500,000.

As part of the Fulbright programme, 2 projects were granted funding amounting to EUR 30,000.

Within the framework of international cooperation, 6 bilateral collaborations have been renewed (EMBL, ANR, RIKEN, FNRS, FWO and NCBR). A first call from ERAnet CORE-ORGANIC (Susfood) was launched in autumn 2019.

In July, the "RIKEN Outpost Labs" in Luxembourg were inaugurated. RIKEN is the largest Japanese Research organisation and the FNR has been supporting the collaboration with Luxembourg since 2015, through the funding of several PhD positions at LCSB and LIH as well as through funding of exchange stays in Japan an Luxembourg of several scientists.

The FNR participated in the 2019 Annual Meeting of the Global Research Council that took place on 1–3 May 2019 in São Paulo, Brazil, with a focus on 'Addressing Expectations of Societal and Economic Impact'. Over 150 delegates attended the Annual Meeting with over 60 Heads of Research Councils participating from around 50 countries to share good practices and discuss research funding policy issues.

RESCOM

The FNR assessed 16 proposals, 12 of which were retained for a total budget of EUR 400,000.

OPEN ACCESS

The FNR evaluated and retained 2 proposals for a total budget of EUR 14,000.

AFR

The panel of experts assessed a total of 119 eligible proposals, 30 of which were retained for a total budget of EUR 5.6 million.

PEARL

As part of the 2018 PEARL call for projects, three PEARL projects were submitted, one of which was selected and received EUR 3.1 million in funding in 2019: Dr Sean Takats' project (University of Luxembourg/C²DH). The recruitment process for the "PayPal-FNR PEARL Chair in Digital Financial Services" was finalised in 2019 with the arrival of Professor Gilbert Fridgen (University of Luxembourg), who will start in January 2020.

ATTRACT

In 2019, four (male) candidates applied for the ATTRACT programme. The FNR selected one candidate, Dr Thomas Cauvin (University of Luxembourg/C²DH) for a financial contribution of EUR 2 million. In mid-2019, the 2020 call was launched (incorporating the conditions of gender parity and co-financing). At the end of 2019, five preliminary projects were received (three submitted by men, two by women), of which four were invited to submit a developed project. The evaluation process will continue until spring 2020.

PRIDE

In summer 2019, the third PRIDE call was launched. Based on the final report of the external evaluation of the implementation of the "National Quality Framework for Doctoral Training", a number of recommendations, concerning doctoral training and supervision, have been incorporated into the new guidelines. At the end of 2019, nine proposals were submitted by Doctoral Training Units (DTU). The evaluation process will continue until spring 2020.

NCER-PD - National Centre of Excellence in Parkinson Disease Research

At its meeting in January 2019, the steering committee confirmed the very positive progress of the research competence centre "NCER-PD", and approved the funding of the second phase for an amount of EUR 6 million. Please note that the steering committee will be changed to a "Scientific Advisory Board".

STRATEGIC OBJECTIVE 2: Shaping a shift in Luxembourg

- Stimulate knowledge transfer and entrepreneurship through cooperation with economic and societal actors
- Anchor Science in Society

JUMP (Proof of Concept (PoC), Pathfinder)

The FNR assessed 20 Pathfinder proposals and granted funding to 13 projects, totalling EUR 500,000.

The FNR evaluated 14 Proof of Concept proposals and granted funding to eight projects, totalling EUR 1.7 million.

Knowledge & Innovation Transfer Support (KITS)

As part of the KITS programme, a project was evaluated and retained for an amount of EUR 300,000.

BRIDGES and Industrial Fellowships

A total of 27 BRIDGES projects and 24 Industrial Fellowship projects were evaluated. 17 BRIDGES projects, receiving EUR 5.7 million in funding, and 15 Industrial Fellowships projects, receiving EUR 2.7 million in funding, were selected after evaluation.

IPBG

As part of the "Industrial Partnership Block Grant" (IPBG) programme, launched in 2016, a request was made by the SNT and SES, the evaluation of which took place at the end of the year. The financing of this project is budgeted for 2020.

Public2

There was no programme call in 2019. Various discussions have been held with the Ministry of Agriculture and the Ministry of Defence with a view to launch joint calls for co-financing research projects.

INITIATE

As part of the INITIATE pilot programme, launched at the end of 2019, a request in the field of digital healtzn (CLINOVA) was assessed and received EUR 300,000 in financing.

PSP

PSP-Classic: the FNR evaluated 38 project proposals and granted funding to 30 projects for a sum of EUR 700,000.

PSP-Flagship: a new call was closed in September 2019. Three projects have been submitted and are under evaluation.

Science in Society

To strengthen the exchange between researchers and society, the FNR has taken the following steps:

Events: In collaboration with the National Museum of Natural History (MNHN), the FNR co-organised the 12th Science Festival at the Neumünster Abbey with 56 workshops, 7 shows, 2 exhibitions - the event attracted around 12,000 visitors. As part of the "Chercheurs à l'école" initiative, 101 researchers visited 56 classes in 30 high-schools in Luxembourg. The "Pairing Scheme" took place for a second time, with 13 researcherpolitician couples. The FNR also launched the "Evidence Matters" project with the NGO Sense about Science and the Irish Science Foundation. In May 2019, the FNR invited the famous German YouTuber and moderator Mai-Thi Nguyen-Kim for a speech (160 participants) and training (27 participants) as part of the cooperation between the FNR and Wissenschaft im Dialog for the FastForward Science competition. Finally, the FNR organised a second "Science Communicator Networking Event" which brings together all stakeholders in the field of scientific communication in Luxembourg; 60 participants took part.

Media: In 2019, the FNR renewed its existing "Mr Science" media partnerships with RTL Télé Lëtzebuerg, RTL Radio and Eldoradio. The science.lu website continues to attract and retain readers. Since its launch, it has gained

more than 2,500,000 views and 1,300,000 unique visitors to the website; it also has almost 24,000 Facebook fans, 1,100,000 views on YouTube, 1,200 followers on Twitter and 1,500 on Instagram. In 2019, the "science.lu" media partnership with Radio 100.7 was renewed and three new partnerships with RTL Today, RTL 5 minutes and the Lëtzebuerger Journal were launched.

Training: The FNR offered 14 training courses (for researchers, teachers, educators) in the field of scientific communication and popularisation, including a new training course for primary school teachers which was set up in cooperation with SCRIPT on the basis of a new section - science.lu "Ideas for teaching science at basic school". The latter is now offered through IFEN.

FNR AWARDS 2019

For the eleventh consecutive year, the research and innovation community met in the Halle des poches à fontes in Belval to reward the best researchers and scientific mediators in the country, as well as their respective institutions. During this 11th FNR Awards, the Fonds National de la Recherche (FNR) awarded six prizes for excellence. These prizes were awarded in the categories "Outstanding Scientific Publication", "Outstanding PhD Thesis" and "Outstanding Promotion of Science to the Public"; each winner received EUR 5,000.

Promotion of FNR activities

The FNR regularly communicates via its website fnr. lu as well as via its digital channels (LinkedIn, Twitter, Facebook and FNRInfo), to inform the scientific community and the general public about its activities, as well as the results of Luxembourg research. By way of example, the miniseries "Spotlight on Young Researchers" dsiplays portrait-interviews on fnr.lu that highlight early-career researchers across the globe, with a connection to Luxembourg. In November, the FNR organised its first hybrid event, mixing science and theatre (The House of Frankenstein). This event brought together citizens and researchers in order to encourage dialogue between these two groups.

The FNR actively supports the project to create a common brand for Luxembourg public research « Research Luxembourg », a project initiated by public research stakeholders with the aim of promoting the project at international level.

STRATEGIC OBJECTIVE 3: Promoting Innovation in Strategic Research Management

Become an innovative Agency

An strategic plan on Innovation within the FNR has been developed and will be presented to the Board in 2020.

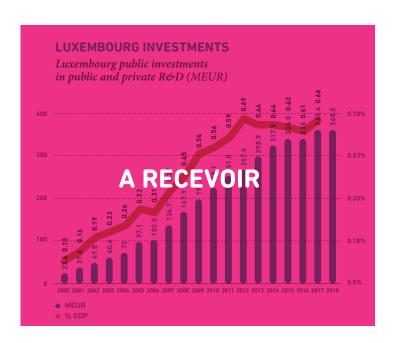
We have started to build up in-house competences in the field of Science of Science and Innovation Policy. Dr. Cindy Lopes-Bento has a joint appointment at FNR and at KU Leuven university. She is an expert on quantitative assessment of science and innovation strategies and policies. At FNR, she will set-up the infrastructure and analytical tools to perform more rigorous monitoring and assessment of the outcomes and impact of Luxembourg research efforts.

FNR has started a collaboration with the Swiss publisher Frontiers to use advanced AI tools for the selection of Experts and reviewers.

Various upgrades of our information systems have started and will continue over the next two years.

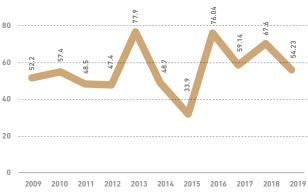


STATISTICS

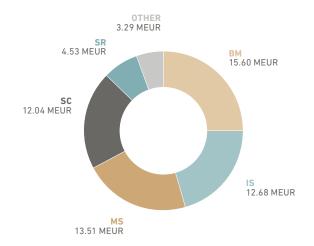


FNR FUNDING

FNR: Annual funding commitments (MEUR)



FNR committed 2019 per domain



- $\overline{\mbox{MS}}$ New Functional and Intelligent Materials and Surfaces and New Sensing Applications
- **BM** Biomedical Sciences/Regulation of Chronic, Degenerative and Infectious Diseases
- SR Sustainable Resource Management in Luxembourg
- IS Innovation in Services
- SC Societal Challenges (LM+ID)

FNR NEW COMMITTED 2019

108 FNR-funded projects	51.626 (MEUR)
40 CORE <i>Projects</i>	? 22.636
1 PEARL Project	₹₹ 3.086
1 ATTRACT Project	2.000
1 NCER Project	6.000
19 INTER Projects	7.064
8 JUMP (POC) Projects	1.676
13 JUMP (Pathfinder) Projects	≉ 0.515
1 KITS Project	0.349
1 INITIATE Project	0.250
4 OPEN Projects	2.298
2 OPEN ACCESS Project	0.014
17 BRIDGES (CORE PPP) Projects	5.738
0 IPBG Projects	0.00
0 PUBLIC2 Projects	0.00

30 PSP 7 INTER MOBILITY 12 RESCOM 6 AWARDS 9 ART 3.5	1.738 (MEUR)
30 PSP Classic	**** 0.681
O PSP Flagship	₩ 0.00
7 INTER-MOBILITY	0.524
6 AWARDS	0.030
9 ART 3.5	0.071
12 RESCOM	₹ 0.432

45 Early Career Grants		8.277	(MEUR)
30 AFR PhD Grants		*	5.16
15 INDUSTRIAL FELLOWSHIP	9 AFR-PPP		1.841
	6 AFR-PDR-PPP		0.861
O AFR Bilateral		*	0.00
0 PRIDE		1	0.00

FNR NEW COMMITTED 2014-2019

499 FNR-funded projects	254.45 (MEUR)
209 CORE Projects	121.66
5 PEARL Project	<i>₹</i> ₹ 19.72
10 ATTRACT Project	18.04
1 NCER Project	6.00
118 INTER Projects	44.83
43 JUMP (POC) Projects	11.28
33 JUMP (Pathfinder) Projects	1.32
9 KITS Project	2.92
1 INITIATE Project	0.25
14 OPEN Projects	¾€ 7.13
3 OPEN ACCESS Project	0.0155
49 BRIDGES (CORE PPP) Projects	77.61
1 IPBG Projects	2.68
3 PUBLIC2 Projects	1.01

248 PSP 65 INTER MOBILITY 105 RESCOM 12 AWARDS 21 ART 3.5	14.30 (MEUR)
248 PSP Classic	₩ 3.74
7 PSP Flagship	2.70
65 INTER-MOBILITY	4.88
6 AWARDS	0.06
21 ART 3.5	0.21
105 RESCOM	% 2.70

412 Early Career Grants		104.96 (MEUR)
236 AFR PhD Grants		⇒ 5.16
54 AFR Postdoc Grants		♦ 6.35
92 INDUSTRIAL FELLOWSHIP	57 AFR-PPP	11.27
	35 AFR-PDR-PPP	4.72
13 AFR Bilateral		⋧ 3.69
17 PRIDE		7 39.87



FUNDING AND PROJECTS FIGURES 2019

1977
TOTAL AMOUNT REQUESTED
IN MEUR

61.64

NEW COMMITTED BY FNRTOTAL AMOUNT IN MEUR

31.18%

OVERALL FUNDING
SUCCESS RATE

532PROJECTS SUBMITTED IN 2019

201

PROJECTS FUNDED IN 2019*
*WITHOUT ART. 3.5 AND AWARDS

37.8%

OVERALL PROJECT SUCCESS RATE*
*WITHOUT FNR AWARDS 8 ART. 3.5.

PUBLIC-PRIVATE PARTERSHIPS

BRIDGES*	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
National private partners	5	4	4	3	5	7	2	1	6	9	9	15	70
International private partners	5	4	2	1	2	3	2	2	0	1	7	2	31
TOTAL	10	8	6	4	7	10	4	3	6	10	16	17	101

^{*}BRIDGES (former CORE-PPP)

IF*	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
PhD	1	12	1	10	13	9	7	9	9	15	15	9	110
Postdoc	1	1	0	2	1	1	3	4	7	9	9	6	44
TOTAL	2	13	1	12	14	10	10	13	16	24	24	15	154

^{*}Industrial Fellowship (former AFR-PPP)

FUNDING INSTRUMENTS 2006-2019

(Statistics of ongoing instruments)

2006	Launch date	Programme title	number of submitted proposals	number of FNR funded projets fi	number of nished projets	committed (MEUR)
2008 CORE Multi-annual Thematic Research Programme 1373 412 233 226.07 2008 AFR PhD Grants + BFR-AFR Transitions 2165 1100 939 124.94 2008 AFR Postdoc Grants 756 346 258 31.49 2009 RT PEARL Excellence Programme for Research in Luxembourg 27 11 5 46.99 2012 INTER Mobility Promotion of International Scientific Exchange 186 81 60 4.0814 2012 RESCOM 263 151 102 3.37 2012 RESCOM Exploratory Workshops 37 15 9 0.16 2012 RESCOM Exploratory Workshops 3 37 </td <td>2006</td> <td>ATTRACT Opportunities for Outstanding Young Researchers in Luxembourg</td> <td>78</td> <td>19</td> <td>10</td> <td>30.10</td>	2006	ATTRACT Opportunities for Outstanding Young Researchers in Luxembourg	78	19	10	30.10
2008	2006	INTER Promotion of International Cooperation	1341	203	106	72.18
2008	2008	CORE Multi-annual Thematic Research Programme	1373	412	233	226.07
2009 PEARL Excellence Programme for Research in Luxembourg 27	2008	AFR PhD Grants + BFR-AFR Transitions	2165	1100	939	124.94
2012 NTER Mobility Promotion of International Scientific Exchange 186 81 60 4.0814 2012 RESCOM 263 151 102 3.37 2012 RESCOM International Scientific Conferences 70 44 21 0.65 2012 RESCOM Exploratory Workshops 37 15 9 0.16 2012 RESCOM Exploratory Workshops 37 15 9 0.16 2012 RESCOM Scientific Monographs 5 2 0 0.07 2012 RESCOM Scientific Monographs 65 24 22 0.07 2012 PSP Promoting Science to the Public 416 337 291 5.06 2012 JUMP (POC) Proof of Concept 68 45 21 12.86 2013 DEEN Multi-annual Research Programme 44 16 5 8.13 2015 KITS Knowledge & Innovation Transfer 10 9 2 2.92 2016 PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 AFR Bilateral 31 13 8 3.69 2016 PSP-Flagship 16 6 1 2.33 2016 PSP-Flagship 16 6 1 2.33 2016 PSP-Flagship 10 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 10 48 1 9.57 2018 OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART 3.5 12 12 0 0.21 2018 ART 3.5 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 0.25 2019 INITIATE 1 1 0 0.25 2019 INITIATE 1 1 0 0.25 2019 INITIATE 1 1 0 0.25 2010 INITIATE 1 1 0 0.25 2011 Company Initiate 1 1 0 0.25 2012 INITIATE 1 1 0 0.25 2013 DATE INITIATE 1 1 0 0.25 2014 INITIATE 1 1 0 0.25 2015 INITIATE 1 1 0 0.25 2016 INITIATE 1 1 0 0.25 2017 INITIATE 1 1 0 0.25 2018 INITIATE 1 1 0 0.25 2019 INITIATE 1 1 0 0.25 2019 INITIATE 1 1 0 0.25 2010 INITIATE 1 1 0 0.25 2011 INITIATE 1 1 0 0.25 2012 INITIATE 1 1 0 0.25 2013 INITIATE 1 1 0 0.25 2014 INITIATE 1 1 0 0.25	2008	AFR Postdoc Grants	756	346	258	31.49
2012	2009 🦟	PEARL Excellence Programme for Research in Luxembourg	27	11	5	46.99
2012	2012	INTER Mobility Promotion of International Scientific Exchange	186	81	60	4.0814
2012	2012	RESCOM	263	151	102	3.37
2012 € RESCOM Lecture Series 32 40 11 0.17 2012 € RESCOM Summer Schools 5 2 0 0.07 2012 € RESCOM Scientific Monographs 65 24 22 0.07 2012 € PSP Promoting Science to the Public 416 337 291 5.06 2012 € JUMP (POC) Proof of Concept 68 45 21 12.86 2013 € OPEN Multi-annual Research Programme 44 16 5 8.13 2015 KITS Knowledge & Innovation Transfer 10 9 2 2.92 2016 ♠ PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 ♠ AFR Bilateral 31 13 8 3.69 2016 ♠ PSP-Flagship 16 6 1 2.33 2016 ♠ PSP-Flagship 16 6 1 2.33 2016 ♠ PSP-Flagship 10 48 1 9.57 2016 ♠ INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 ₱ PUBLIC² 7 3 0 1.01 2018 ♠ RNA AWARDS 52 6 <td< td=""><td>2012</td><td>RESCOM International Scientific Conferences</td><td>70</td><td>44</td><td>21</td><td>0.65</td></td<>	2012	RESCOM International Scientific Conferences	70	44	21	0.65
2012 € RESCOM Summer Schools 5 2 0 0.07 2012 € RESCOM Scientific Monographs 65 24 22 0.07 2012 ♥ PSP Promoting Science to the Public 416 337 291 5.06 2012 ₱ JUMP (POC) Proof of Concept 68 45 21 12.86 2013 ★ OPEN Multi-annual Research Programme 44 16 5 8.13 2015 KITS Knowledge & Innovation Transfer 10 9 2 2.92 2016 ★ PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 ★ PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 ★ PSP-Flagship 16 6 1 2.33 2016 ★ PSP-Flagship 16 6 1 2.33 2016 ★ PSP-Flagship 16 6 1 2.33 2016 ★ PSP-Flagship 10 48 1 9.57 2016 ★ INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 ★ OPEN ACCESS 3 <td< td=""><td>2012</td><td>RESCOM Exploratory Workshops</td><td>37</td><td>15</td><td>9</td><td>0.16</td></td<>	2012	RESCOM Exploratory Workshops	37	15	9	0.16
2012	2012	RESCOM Lecture Series	32	40	11	0.17
2012	2012	RESCOM Summer Schools	5	2	0	0.07
2012 JUMP (POC) Proof of Concept 68 45 21 12.86 2013 OPEN Multi-annual Research Programme 44 16 5 8.13 2015 KITS Knowledge & Innovation Transfer 10 9 2 2.92 2016 PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 IPBG Industrial Partnership Block Grant 3 1 0 2.68 2016 IPBG Industrial Partnership Block Grant 3 1 0 2.68 2016 PSP-Flagship 16 6 1 2.33 2016 PSP-Flagship 7 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 FNR AWARDS 52 6 0 0.06	2012	RESCOM Scientific Monographs	65	24	22	0.07
2013 ★ OPEN Multi-annual Research Programme 44 16 5 8.13 2015 KITS Knowledge & Innovation Transfer 10 9 2 2.92 2016 ★ PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 ★ PRBIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 ★ PSP-Flagship 3 1 0 2.68 2016 ★ PSP-Flagship 16 6 1 2.33 2016 ★ BRIDGES (CORE PPP) 75 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC ² 7 3 0 1.01 2018 ★ OPEN ACCESS 3 1 1 0.01 2018 ★ OPEN ACCESS 3 1 1 0.06 2018 ★ JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 0.25	2012	PSP Promoting Science to the Public	416	337	291	5.06
2015 KITS Knowledge & Innovation Transfer 10 9 2 2.92 2016 ♣ PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 ♣ AFR Bilateral 31 13 8 3.69 2016 IPBG Industrial Partnership Block Grant 3 1 0 2.68 2016 ₱ PSP-Flagship 16 6 1 2.33 2016 ₱ BRIDGES (CORE PPP) 75 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 ♣ OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 1 0 0.21 2019 NCER 1 1 0 6 2019 INITIATE 1 1 </td <td>2012 🥕</td> <td>JUMP (POC) Proof of Concept</td> <td>68</td> <td>45</td> <td>21</td> <td>12.86</td>	2012 🥕	JUMP (POC) Proof of Concept	68	45	21	12.86
2016 PRIDE Research Intesive Doctoral Education 95 17 0 39.87 2016 AFR Bilateral 31 13 8 3.69 2016 IPBG Industrial Partnership Block Grant 3 1 0 2.68 2016 PSP-Flagship 16 6 1 2.33 2016 BRIDGES (CORE PPP) 75 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 0 0.21 2018 ART. 3.5 12 12 0 0.21 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25 <	2013 🎇	OPEN Multi-annual Research Programme	44	16	5	8.13
2016 AFR Bilateral 31 13 8 3.69 2016 IPBG Industrial Partnership Block Grant 3 1 0 2.68 2016 PSP-Flagship 16 6 1 2.33 2016 BRIDGES (CORE PPP) 75 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 0.25	2015	KITS Knowledge & Innovation Transfer	10	9	2	2.92
2016 IPBG Industrial Partnership Block Grant 3 1 0 2.68 2016 PSP-Flagship 16 6 1 2.33 2016 BRIDGES (CORE PPP) 75 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2016	PRIDE Research Intesive Doctoral Education	95	17	0	39.87
2016 → PSP-Flagship 16 6 1 2.33 2016 → BRIDGES (CORE PPP) 75 49 2 17.61 2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 → OPEN ACCESS 3 1 1 0.01 2018 ART. 3.5 12 12 0 0.21 2018 → JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2016 💣	AFR Bilateral	31	13	8	3.69
2016	2016	IPBG Industrial Partnership Block Grant	3	1	0	2.68
2016 INDUSTRIAL FELLOWSHIP (AFR PhD PPP) 110 48 1 9.57 2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2016 🧺	PSP-Flagship	16	6	1	2.33
2016 INDUSTRIAL FELLOWSHIP (AFR PDR PPP) 39 31 0 4.26 2017 PUBLIC² 7 3 0 1.01 2018 OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2016	BRIDGES (CORE PPP)	75	49	2	17.61
2017 PUBLIC² 7 3 0 1.01 2018 ♣ OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 12 0 0.21 2018 ✔ JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2016	INDUSTRIAL FELLOWSHIP (AFR PhD PPP)	110	48	1	9.57
2018 ★ OPEN ACCESS 3 1 1 0.01 2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2016	INDUSTRIAL FELLOWSHIP (AFR PDR PPP)	39	31	0	4.26
2018 FNR AWARDS 52 6 0 0.06 2018 ART. 3.5 12 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2017	PUBLIC ²	7	3	0	1.01
2018 ART. 3.5 12 12 0 0.21 2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 1 0 6 2019 INITIATE 1 1 1 0 0.25	2018 🎇	OPEN ACCESS	3	1	1	0.01
2018 JUMP (Pathfinder) 42 20 10 1.33 2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2018	FNR AWARDS	52	6	0	0.06
2019 NCER 1 1 0 6 2019 INITIATE 1 1 0 0.25	2018	ART. 3.5	12	12	0	0.21
2019 INITIATE 1 1 0 0.25	2018 🦽	JUMP (Pathfinder)	42	20	10	1.33
	2019	NCER	1	1	0	6
TOTAL 7,423 3,064 2,118 651.94	2019	INITIATE	1	1	0	0.25
	TOTAL		7,423	3,064	2,118	651.94

CORE

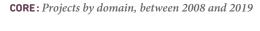
Sum of Committed Funding (in MEUR)/Domain

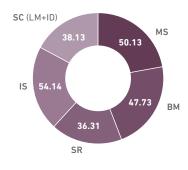
DOMAIN	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
MS_New Functional and Intelligent Materials and Surfaces and New Sensing Applications	3.40	3.40	4.50	2.90	2.00	6.90	3.32	3.92	4.60	6.17	4.10	4.92	50.13
BM_Biomedical Sciences/Regulation of Chronic, Degenerative and Infectious Diseases	3.20	1.90	5.40	2.80	6.60	3.40	3.42	3.99	4.12	4.50	3.71	4.69	47.73
SR_Sustainable Resource Management in Luxembourg	2.50	4.20	3.00	3.10	4.20	3.50	3.40	2.09	1.90	4.13	1.98	2.31	36.31
IS_Innovation in Services	2.40	3.30	2.70	3.80	3.80	3.80	3.86	5.69	3.82	7.11	6.88	6.98	54.14
SC_Societal Challenges (LM+ID)	2.60	1.40	3.80	2.90	4.20	3.10	2.98	2.10	3.91	2.47	4.94	3.74	38.13
TOTAL	14.10	14.20	19.40	15.50	20.80	20.70	16.98	17.78	18.35	24.38	21.61	22.64	226.44

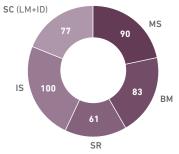
Projects by Domain

DOMAIN	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
MS_New Functional and Intelligent Materials and Surfaces and New Sensing Applications	7	8	8	5	4	10	7	7	8	10	7	9	90
BM_Biomedical Sciences/Regulation of Chronic, Degenerative and Infectious Diseases	7	3	8	5	9	7	7	6	8	8	6	9	83
SR_Sustainable Resource Management in Luxembourg	6	11	5	5	6	4	4	4	3	6	3	4	61
IS_Innovation in Services	8	10	6	7	8	6	8	10	6	11	9	11	100
SC_Societal Challenges (LM+ID)	6	4	9	6	9	5	4	4	7	5	11	7	77
TOTAL	34	36	36	28	36	32	30	31	32	40	36	40	411

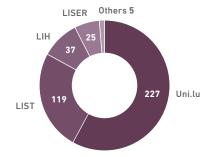
 $\textbf{CORE:} Funding \ by \ domain, \ between \ 2008 \ and \ 2019 \ (MEUR)$







CORE: Projects by institution, between 2008 and 2019





★ AFR PHD & POSTDOC GRANTS

AFR: PhD Grants per host institution (2008-2019)

Other (Intl.)

234

Other (Lux.)

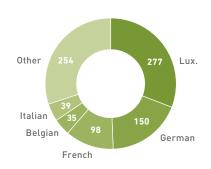
LISER

LIH

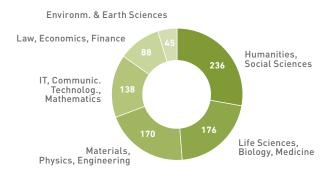
89

LIST

AFR: PhD Grants by nationality (2008-2019)



AFR: PhD Grants by domain (2008-2019)



BALANCE SHEET

BALANCE SHEET

The accounts have been audited by Grant Thornton Luxembourg (Audit & Assurance), société anonyme, and approved by the Board of Directors on March 27th, 2020. Only the original French version of the annual accounts and the audit opion is binding. For the complete annual report (in French), please refer to www.fnr.lu/annualreports

BALANCE SHEET

As at 31 December 2019 (EUR)

ASSETS	2019
FIXED ASSETS	
Intangible fixed assets	94,828.52
Tangible fixed assets	87,921.88
CURRENT ASSETS	
Budgetary allocations to be received	111,793,760.61
with a maturity less than 1 year	67,290,000.00
Other receivables	157,370.14
Cash at bank	89,465,144.71
DEFERRED CHARGES	63,757.87
TOTAL ASSETS	201,662,783.73
LIABILITIES	2019
CAPITAL AND RESERVES	

LIABILITIES	2019
CAPITAL AND RESERVES	
• Reserves	5,396,297.67
Result for the financial year	117,705.72
CREDITORS	
Trade payables	718,911.85
Tax and social security debts	80,358.71
Amounts owed to beneficiaries	162,241,486.94
with a maturity less than 1 year	64,810,624.92
Other debts	303,224.34
DEFERRED INCOME	32,804,798.50
TOTAL LIABILITIES	201,662,783.73

PROFIT AND LOSS ACCOUNT

As at 31 December 2019 (EUR)

INCOME	2019
Budgetary allocation	59,431,207.20
Other operating income	30,528.86
Commitments made	(54,230,677.74)
Operating costs (including staff costs)	(5,125,297.39)
Value adjustments on fixed assets	(74,392.68)
Interest receivable and similar income	87,176.86
Interest payable and similar charges	(839.39)
PROFIT FOR THE FINANCIAL YEAR	117,705.72





FUNDING INSTRUMENTS

FUNDING INSTRUMENTS

CORE

CORE is a traditional programme for the funding of research projects. Proposed projects are submitted by the research institutions (bottom-up approach) and are part of the national research priorities defined by the Government (top-down approach). The projects are selected on the basis of their scientific quality.

INTER

The objective of the INTER programme is to strengthen international cooperation and increase the impact of research activities in Luxembourg by promoting research projects which combine Luxembour and ECEVOIRT programme aims to strengthen the in three segments: (1) the international mobility programme, (2) bilateral cooperation, and (3) multilateral cooperation. The projects are selected on the basis of their scientific quality.

RESCOM (Support for Research Communication)

The objective of the RESCOM instrument is to promote communication and exchange between researchers, notably by subsidising scientific events of an international scope.

OPEN

The OPEN programme allows researchers to submit research projects whose themes are not covered by the fields of the CORE programme and therefore make it possible to identify research groups which are competitive at international level outside national priorities. The projects are selected on the basis of their scientific quality.

PEARL

The PEARL programme aims to contribute to developing a truly critical mass and international visibility of research priorities in Luxembourg both in quantitative and qualitative terms. The principal aim of PEARL is to offer a flexible and highly attractive tool to institutions so they can attract more experienced and established researchers who are recognised at international level. These parties will transfer and develop their research programmes to Luxembourg and thereby contribute to accelerating the development of national priorities.

excellence of Luxembourg research by attracting researchers of an excellent scientific level who are able to draw upon recognised professional experience in research. The programme offers researchers not yet established in Luxembourg the opportunity to set up their own research in a public research body in Luxembourg which is prepared to accommodate them with a jointly submitted project.

AFR (Aides à la Formation-Recherche) Individual

The AFR programme is one of the FNR's longestrunning funding schemes and now serves the specific purpose of providing funding to the best researchers who are studying at doctorate levels. The AFR PhD grant scheme is divided into two sub-categories: AFR PhD in Luxembourg (AFR Incoming) and AFR PhD abroad (AFR

CORE

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ATTRACT

The ATTRACT programme aims to strengthe Are REC excellence of Luxembourg research by attracting researchers of an excellent scientific level who are able to draw upon recognised professional experience in research. The programme offers researchers not yet established in Luxembourg the opportunity to set up their own research in a public research body in Luxembourg which is prepared to accommodate them with a jointly submitted project.

AFR (Aides à la Formation-Recherche) Individual

The AFR programme is one of the FNR's longestrunning funding schemes and now serves the specific purpose of providing funding to the best researchers who are studying at doctorate levels. The AFR PhD grant scheme is divided into two sub-categories: AFR PhD in Luxembourg (AFR Incoming) and AFR PhD abroad (AFR Outgoing).

PRIDE

PRIDE is the FNR's new programme for funding doctoral research in Luxembourg. Under this programme, a block of PhD grants is awarded to a consortium of excellent researchers grouped around a coherent research and training programme. PRIDE is open to all domains of research and technological development. PRIDE aims at attracting excellent PhD candidates to Luxembourg and offering them a high quality interdisciplinary research training. Compared to the AFR individual grant scheme for PhDs, PRIDE provides greater advantage to institutions and PhD candidates, as institutions are able to immediately offer a full PhD grant to promising

Without having to undergo a separate application and selection procedure at the FNR.



PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
• AxPD	Axonal dying-back in Parkinson's disease is caused by local axonal accumulations of defective mitochondria	Cláudia Saraiva	UL	ВМ	569,000.00
• COMPARE	Collaboration with Parents and Multiliteracy in early Childhood Education	Claudine Kirsch	UL	SC	350,000.00
■ TuCaNG, for Tun	Experimental and Numerical Investigation on Synthesis of Tungsten and Tungsten Carbide	Alvaro Antonio Estupinan Donoso	UL	MS	404,000.00
BEEHIVE	Behaviour-Induced Configuration of High Variability-Intensive Systems	Maxime Cordy	SnT (UL)	IS	656,000.00
STEERMOB	Strain-engineering the hole mobility in off-stoichio- metric copper chromium delafossite	Petru Lunca Popa	LIST	MS	657,000.00
HYBMES	Hybrid mesoscale devices based on quantum Hall edge states	Edvin Idrisov	UL	MS	357,000.00
• ACTIVASION	Actin cytoskeleton remodeling in tumor immune evasion - mechanistic aspects	Clément Thomas	UH	ВМ	394,000.00
• ASSESS	Are People Aware of their (Housing) Wealth? Assessing Owner-Estimated Home Values in Survey and Experimental Data	Sofie Regina Waltl	LISER	SC	391,000.00
MultiMath	Acquisition of Number Concepts in the Multilingual Brain	Amandine Van Rinsveld	UL	SC	617,000.00
ULTRON	Ultrafast coherent hybridization of photons and spins in multi-functional magnetoplasmonic metamaterials	Nicolò Maccaferri	UL	MS	430,000.00
• STARTS	Security Assessment of TrustZone-M enabled Software	Antonio Ken Iannillo	SnT (UL)	IS	511,000.00
● MATURITY	A single cell-based computational platform for cel- lular conversion to generate functionally mature cells – application to regenerative therapies	Antonio Del Sol Mesa	UL	ВМ	658,000.00
● IDeM	The role of NR2F1 in Parkinson's disease	Silvia Bolognin	UL	ВМ	509,000.00
• DATA4WIND	Data-Driven Approach for Urban Wind Energy Harvesting	Anina Glumac	SnT (UL)	SR	582,000.00
● APLICA	Analysis and Protection of Lightweight Cryptographic Algorithms	Alex Biryukov	SnT (UL)	IS	586,000.00
• COATIHN	Deposition of Multifunctional COATings with Inter- penetrating Hydrogel Networks by Liquid nanopulsed Plasma Polymerization	Roberto Quintana Vicente	LIST	MS	590,000.00
EquiVox	Secure, Quantum-Safe, Practical Voting Technologies	Peter Y. A. Ryan	SnT (UL)	IS	602,000.00
RASoRS	Risk Analysis of Software Requirements Specification	Michail Papadakis	SnT (UL)	IS	614,000.00
FAIR-ITEMS	Fairness of latest Innovations in Item and Test development in Mathematics	Philipp Sonnleitner	UL	SC	368,000.00
• ALAC	Age Acceleration and the Life Course	Conchita D'Ambrosio	UL	SC	654,000.00
• ASA	Academic Success in Autism: The impact of emotions and multilingualism	Andreia Costa	UL	SC	397,000.00
CAPACITY	ClimAte and Plant hydrAulics Controls on drought predIction uncertainty in a new-generation Terres- trial sYstem model	Mauro Sulis	LIST	SR	522,000.00
• NTEC	Nonequilibrium Thermodynamics of Electronic Circuits	Massimiliano Esposito	UL	MS	610,000.00
PolaRAS2	Investigation of nanoscale RAS polarizations in instructing cancer cell stemness	Daniel Abankwa	UL	ВМ	518,000.00
DISCO	Diatoms as indicators of soil conditions: a high throughput sequencing approach	Carlos Wetzel	LIST	SR	466,000.00
● DynCell	Dynamics modelling from single-cell data	Atte Aalto	UL	ВМ	439,000.00
AltFin	Regional approaches towards alternative economies and sustainable finance	Christian Schulz	UL	SR	740,000.00
● metaPUF	The dark metaproteome: identifying proteins of unknown function in the human gut microbiome	Paul Wilmes	UL	ВМ	262,000.00
• CLASMARTS	Cluster Assembled Materials Tuning for Sensing	Emanuele Barborini	LIST	MS	764,000.00

UL University of Luxembourg
LCSB Luxembourg Centre for Systems Biomedicine
SnT Interdisciplinary Centre for Security, Reliability and Trust
LIH Luxembourg Institute of Health
LIST Luxembourg Institute of Science and Technology
LISER Luxembourg Institute of Socio-Economic Research

BM Biomedical Sciences/Regulation of Chronic, Degenerative and Infectious Diseases

IS Innovation in Services

SC Societal Challenges (LM+ID)

MS New Functional and Intelligent Materials and Surfaces and New Sensing Applications

SR Sustainable Resource Management in Luxembourg

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
● CAMeSyn	Contribution of Astrocyte Metabolism to Synucle- inopathy in Parkinson's disease.	Anne Grünewald	UL	ВМ	876,000.00
ByzRT	SByzRT: Intrusion resilient real-time communication and computation in autonomous systems	PPaulo Esteves- Verissimo	SnT (UL)	IS	982,000.00
• FlexSAT	Resource Optimization for Next Generation of Flexible SATellite Payloads	Eva Lagunas	SnT (UL)	IS	696,000.00
● LoRaSAT	Design of LoRaWAN protocol Optimisation over SATellite Connection for precision agriculture applications	Maria Rita Palattella	LIST	IS	572,000.00
BEEBS	Building Effective European Banking Supervision	David Howarth	UL	IS	266,000.00
• 5G-Sky	Interconnecting the Sky in 5G and Beyond - A Joint Communication and Control Approach	Bjorn Ottersten	SnT (UL)	IS	865,000.00
• WARLUX	WARLUX: Soldiers and their communities in WWII: The impact and legacy of war experiences in Luxembourg	Denis Scuto	UL	SC	958,000.00
• QML-FLEX	QUANTUM-BASED MACHINE LEARNING FOR FLEXIBLE MOLECULES	Igor Poltavskyi	UL	MS	345,000.00
• ASWELL	Autonomous Network Slicing for Integrated Satellite- Terrestrial Transport Networks	Symeon Chatzinotas	SnT (UL)	IS	633,000.00
• TOPOFLUME	Topological Fluid Mechanics: Decoding emergent dynamics in anisotropic fluids and living systems	Anupam Sengupta	UL	MS	763,000.00
• APPEAL	Assessment of Primary Care Performance in Luxembourg	Valerie Moran	LISER	ВМ	463,000.00
TOTAL					22,636,000.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/core

BRIDGES 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
STABILITY4.0PP	Seamless TraceABILITY for I4.0	Yves Le Traon	SnT (UL)	IS	395,623.70
RESUPPLIPP	High REsistance SUPerhydrophobic PLasma films	Patrick Choquet	LIST	MS	400,000.00
ARTAGOPP	Artificial Intelligence-enabled Automation for GDPR Compliance	Mehrdad Sabetzadeh	SnT (UL)	IS	380,523.99
MaaS4AllPP	MaaS4All	Francesco Viti	UL	MS	211,413.84
IntuitBuyPP	Intelligent Algorithms to Support Buyer Intuition	Nils Löhndorf	UL	LE	203,998.75
ExLiFTPP	Explainable Machine Learning in FinTech	Jacques Klein SnT (UL)		IS	388,780.00
DISBuSPP	Dynamic Beam Forming and In-band Signalling for Next Generation Satellite Systems	Symeon Chatzinotas	SnT (UL)	IS	399,906.66
IgnitionPP	Investigations to understand the thermo-fluid dynamics of high- purity oxygen flow in pressure regulator – piping systems	Stephan Leyer UL		MS	386,761.37
Heat2Power	Heat2Power	Alexandre Bertrand	LIST	MS	278,114.71
EMDD	Enhancement of Extruder Modelling with a Data-Driven Approach	Jörg Baller	UL	MS	391,531.90
spacePD	Microgravity as a Testbed for Advanced Research in Parkinson Disease Modeling	Jens Schwamborn	UL	ВМ	395,781.66
CDI	Connected Dynamic Insurance	Raphael Frank	SnT (UL)	IS	224,354.58
SKIMAS	SKin Inflammation imaging by MAss Spectrometry	Gilles Frache	LIST	MS	400,000.00
AuFoSat	Development Tool for Autonomous Constellation and Formation Control of Microsatellites	Holger Voos	SnT (UL)	MS	399,427.09
HybridSimCVD	Addressing challenges in industrial Chemical Vapour Deposition Processes with a hybrid data-driven and equation-based computational framework	Eleni Koronaki	UL	MS	188,647.00
НЕРНОТО	High Efficient Water Splitting over Fe:NaTaO3 Photocatalysts	Bianca Rita Pistillo	LIST	MS	399,993.26
ROPETEST	Towards efficient simulations of aggregates of slender bodies	Lars Beex	UL	MS	293,982.38
TOTAL					5,738,840.89

INTER 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
• VISIONNANO	VISIONNANO - Viscoelastic proper- ties, entanglements, and polymer dynamics in ionic nanocomposites	Argyrios Karatrantos	LIST	MS	283,000.00
• TINPERO	Epitaxially grown tin perovskites	Alex Redinger	UL	MS	339,000.00
• Try-IBD	Multi-dimensional resolution of tryptophan-driven immune-metabolism as a novel pathophysiological principle in inflammatory bowel disease	Johannes Meiser	LIH	ВМ	482,000.00
QuantPhonon	Dynamical Quantum Properties of Phonons in Crystals	Alexandre Tkatchenko	UL	MS	366,000.00
• ACCEPT	AnharmoniC and exChangE interactions in Phonon specTra	Ludger Wirtz	UL	MS	272,000.00
• SLANT	Spin and bias in Language Analyzed in News and Text	Sjouke Mauw	SnT (UL)	IS	253,000.00
• SWITECH	Secure Software using Whitebox Technology	Jean-Sébastien Coron	SnT (UL)	IS	519,000.00
• DISAFECAP	Safe Solid-state Supercapacitors using Dynamic Ion Gels from Poly(Ionic Liquids)	Alexander Shaplov	LIST	MS	525,000.00
• EURO- FINGERS	EURO-FINGERS multimodal precision prevention toolbox for dementia in Alzheimer's disease	Jean Georges	Alzheimer Europ	ВМ	215,000.00
• PREADAPT	Identification of personalized inflammatory profiles of aging and senescence which are modified specifically by risk factors of dementia modulating the pre-dementia speed of symptomatic progression.	Reinhard Schneider	UL	ВМ	353,000.00
HeartMed	HeartMed: an ICT platform combin- ing preclinical and clinical informa- tion for patient specific modelling in cardiovascular medicine to improve diagnosis and help clinical decision making	Reinhard Schneider	UL	ВМ	299,000.00
• EUFIRST	Globalization, Inequality and Populism across Europe	Frederic Docquier	LISER	LE	646,000.00
• SusDens	Sustainable Residential Densification	Hichem Omrani	LISER	SR	577,000.00
• Mi*EGDE	Modelling cell plasticity at the invasive Edge to Diminish Glioblastoma Early relapse risk	Michel Mittelbronn	LNS	ВМ	325,000.00
• ML4SCOPF	Machine learning based enhancements of security constrained optimal power flow computations	Florin Capitanescu	LIST	MS	428,000.00
• D-DAB	New Methods for Bridge Damage Assessment	Stefan Maas	UL	MS	270,000.00
• 5FC HIV- Crypto	Improved flucytosine formulation for the treatment of meningitis in advanced HIV disease	Michel Vaillant	LIH	ВМ	163,000.00
MIMVaC- Africa	A multilateral initiative to foster the clinical development of effective malaria vaccine candidates in Africa	Michel Vaillant	LIH	ВМ	321,000.00
• LiFT	From Low fares to no fares: an analysis of economic, operational, socio-spatial and political dynamics of fare-Free public Transport	Veronique Van Acker	LISER	SR	428,000.00
TOTAL					7,064,000.00



INTER-MOBILITY 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
• PD-BIOMARK	Investigation of the role of gene- environment interactions for predispo- sition to Parkinson's disease	Rejko Krüger	UL	ВМ	67,000.00
• ENAML	ENhancing Atomistic ModeLing: Physically Robust Atomistic Machine Learning Models for Predictive Insights into Solvated Chemical Reactions	Alexandre Tkatchenko	UL	MS	79,000.00
• 3DMitoPore	Exploring mtDNA release in Par- kinson's disease using 3D correlative light-electron microscopy	Sandro Lino Cardoso Pereira	UL	ВМ	35,000.00
• GloLux	The Luxembourgish Financial Centre in a Global Perspective	Benoit Majerus	UL	SC	37,000.00
• Co π2	Coupling photo-pyro-piezo-effects in ferroelectrics	Jens Kreisel	UL	MS	87,400.00
• DLAI	Deontic Logic for Artificial Intelligence	Leon van der Torre	UL	IS	100,000.00
• Sleepless@ Seattle	Research Stay at University of Washington and Microsoft Research for Secure and Reliable Software Systems	Jacques Klein	SnT (UL)	IS	118,400.00
TheCoco	Thermodynamics of Computation and Communication	Massimiliano Esposito	UL	MS	42,000.00
TOTAL					524,600.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/inter



RESCOM 2019

PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
ESORICS 2019 - The 24th European Symposium on Research in Computer Security	Peter Y.A. Ryan	SnT (UL)	IS	50,000.70
• 5th International Systems Biomedicine Symposium - "Systems neuroscience: bridging the scales of the brain"	Alexander Skupin	UL	ВМ	25,000.00
21st European Colloquium on Theoretical and Quantitative Geography	Geoffrey Caruso	LISER	SC	35,000.00
8-th European Conference on Injury prevention and safety promotion Main theme: Research for enhancing impact of strategies and actions	Laetitia Huiart	LIH	ВМ	27,000.00
• IMISCOE 2020 Conference: "Crossing borders, connecting cultures"	Birte Nienaber	UL	SC	50,000.00
• 12th International Conference "Water and Sea in Word and Image"	Nathalie Roelens	UL	SC	50,000.00
• 4th International Metaproteomics Symposium	Paul Wilmes	UL	ВМ	24,300.00
• The 12th Conference of the International Test Commission	Samuel Greiff	UL	SC	47,900.00
• 35th European Conference on Surface Science (ECOSS 35)	Ludger Wirtz	UL	MS	50,000.00
Solidarity and the European Social Model	Luca Ratti	UL	SC	13,700.00
Finance Seminar of Luxembourg School of Finance (2019-2020)	Stefanova Denitsa	UL	LE	30,000.00
LISER Research Seminar Series (RSS)	Aline Muller	LISER	SC	30,000.00
TOTAL				432,900.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/rescom

UL University of Luxembourg **LCSB** Luxembourg Centre for Systems Biomedicine **SnT** Interdisciplinary Centre for Security, Reliability and Trust

LIH Luxembourg Institute of Health
LIST Luxembourg Institute of Science and Technology
LISER Luxembourg Institute of Socio-Economic Research

 $\textbf{BM} \ \mathsf{Biomedical} \ \mathsf{Sciences}/\mathsf{Regulation} \ \mathsf{of} \ \mathsf{Chronic}, \mathsf{Degenerative} \ \mathsf{and} \ \mathsf{Infectious} \ \mathsf{Diseases}$

IS Innovation in Services

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SR Sustainable Resource Management in Luxembourg



PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
DHARPA	Digital History Advanced Research Projects Accelerator	Sean Takats	UL	SC	3,086,000.00
TOTAL					3,086,000.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/pearl

NCER 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
• NCER-PD	National Centre of Excellence in Research on early Diagnosis and Stratification of Parkinson's Disease, NCER-PD (Phase II)	Reiko Krüger	UL	ВМ	6,000,000.00
TOTAL					6,000,000.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/ncer

KITS 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
Ulstars	A global immersive accelerator to boost technology transfer and commercialisation at the University of Luxembourg	Pranjul Shah	UL	IS	349,700.00
TOTAL					349,700.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/kits

OPEN 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
• SOUND	Synchronization of biological networks	Jorge Gonçalves	UL	MT	531,000.00
SYBION	Systoles, Orthogeodesics and Underlying Moduli Spaces	Hugo Parlier	UL	SC	322,000.00
• REFUND	Life Cycle Assessment of green funds and bonds	Enrico Benetto	LIST	SC	699,000.00
• CPLJ	Comparative Procedural Law and Justice	Burkhard Hess	Max Planck Lux	LE	746,000.00
TOTAL					2,298,000.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/open

INITIATE 2019

PROJECT ACRONYM	PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
Clinnova 2.0	Clinnova: Unlocking the potential of data science and artificial intelligence in health care	Ulf Nehrbass	LIH	ВМ	250,000.00
TOTAL					250,000.00



ACTION	PROJECT ACRONYM			HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
Pathfinder	AptaLux	Aptamer as a tool for adenovirus detection	Leslie Ogorzaly	LIST	ВМ	33,000.00
Pathfinder	DigitalUs	DigitalUs	Beltran Borja Fiz Pontiferos	SnT (UL)	IS	45,150.00
Pathfinder	eFLUX	Embedded FLowful User eXperience platform	Yannick Naudet	LIST	IS	46,880.00
Pathfinder	EVACUATE	Indoor Tracking Emergency Evacuation Decision Support System	Peiman Alipour Sarvari	LIST	SR	30,000.00
Pathfinder	FIBer	FIBer the FILE Blockchain	Eric Falk	SnT (UL)	IS	50,000.00
Pathfinder	INTERceptor	Targeting chemokine receptors for improved cancer immunotherapy	Martyna Szpak- owska	LIH	ВМ	42,000.00
Pathfinder	KYC-DSB	KYC Data Sharing Blockchain	Robert Norvill	SnT (UL)	IS	32,435.00
Pathfinder	Microbiome Desi	Designer microbial community for improved anaerobic digestion of biomass	Magdalena Calusinska	LIST	ВМ	29,900.00
Pathfinder	MUST	Manage Urban Spaces Together (formerly PUPaD)	Elie Daher	LIST	IS	44,330.00
Pathfinder	NIRW	NIR WATCHDOG	Radu State	SnT (UL)	IS	34,395.00
Pathfinder	NOFAKES	No more fakes: giving goods a physical unclonable identity	Gabriele Lenzini	SnT (UL)	IS	48,000.00
Pathfinder	REST	Software for home-based REhabilitation of STroke survivors (REST)	Enjie Ghorbel	SnT (UL)	ВМ	45,000.00
Pathfinder	SCALEM	Software for CALculating EMergy based on life cycle inventories	Tomas Navarrete Gutierrez	LIST	MS	34,250.00
TOTAL						515,340.00
• POC	ActPoSS POC	Active Power Support for Smart Grids	Patrick Kobou Ngani	UL	MS	100,000.00
• POC	DigitalUs POC	DigitalUs	Raphaël Frank	SnT (UL)	IS	200,000.00
• POC	HAPPY-	High throughput microfluidics-based replicative lifespan determination in yeast cells	Carole Linster	UL	ВМ	219,250.00
• POC	MaGrid-	A language-neutral application for teaching and learning early mathematical skills	Antoine Fischbach	UL	IS	199,850.00
• P0C	MAISA2	Maintenance of Semantic Annotations 2	Cédric Pruski	LIST	IS	183,400.00
• POC	MEGAKINE	Megakines - novel tools for structural insight into receptor:chemokine complexes	Andy Chevigné	LIH	ВМ	374,500.00
• POC	MoNeyBox	"Mobile Money in a Box" - Inclusive, Interoperable & Secure by Design	Tegawendé Bissyandé	SnT (UL)	IS	199,450.00
• POC	SHIM-	Smart Waterjet Head for Industry 4.0 Manufacturing	Edoardo Copertaro	UL	MS	199,550.00
TOTAL						1,676,000.00

For a detailed summary of each project as well as other information, please refer to www.fnr.lu/jump

BM Biomedical Sciences/Regulation of Chronic, Degenerative and Infectious Diseases

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MS New Functional and Intelligent Materials and Surfaces and New Sensing Applications

INDUSTRIAL FELLOWSHIP 2019

TYPE	NAME	PROJECT TITLE	PROJECT DOMAIN	HOST INSTITUTION	COLLABORATING INST.	FNR CONTRIBUTION IN EUR
PDR	Percy Blount	Cybersecurity in the Space Domain: Understanding the Legal Requirements for Cybersecure Space Operations	LE	SES	UL	143,210.00
PDR	Taynara Tuany Borges Valeriano	Modelling pests and diseases impact on hazelnut production	SR	Council for Agricul- tural Research and Economics	Ferrero	143,210.00
• PDR	Ali Margot Huerta Flores	Atmospheric Pressure Plasma Deposition of Perovskite-type Complex Oxide Thin Films for Visible-Light Photocatalysis for Solar Fuel Generation	MS	LIST	Molecular Plasma Group	144,960.00
• PDR	Martin Rehor	Robust Incompressible FLow solver Enhancement	MS	Rafinex	UL	143,210.00
• PDR	Dheeraj Reddy Bobbili	Empowering the individuals to access their personal genome data	ВМ	Megeno	UL	143,210.00
• PDR	Mohammad Zare	Improving SImulation and Prediction of flash Flood to develop a decision-making model for flood protection in LUxemburg	SR	RSS-Hydro	UL	143,460.00
TOTAL						861,260.00
• PhD	Francesco Deboli	Formulation and Characterization of Novel Hierarchical Ion Exchange Membranes for Electrodialysis Application	MS	Amer-Sil	KU Leuven	208,066.00
● PhD	Marwa Kechaou	Machine Learning for wood defects segmentation and classification	MT	LuxScan	INSA-ROUEN	187,084.00
• PhD	Laurent Lesage	Data Analysis For Insurance	IS	UL	Foyer Assurances	208,066.00
• PhD	Qinzhuan Qian	Vehicle In-cabin Scene Analysis	IS	IEE	TU Kaiserslautern, DFKI	209,816.00
● PhD	Gabriel Tedgue Beltrão	MIMO Distributed Radar for Indoor Applications	IS	UL	IEE	212,670.00
● PhD	Vasile Ciorna	Visual Analytics for Tire Engineers	IS	Goodyear	University of Bordeaux, LIST	212,670.00
● PhD	Puneeth Jubba Honnaiah	Resource Allocation and IntErference MitiGation for demand based capAcity adaptabiLity in Satellite Communication System.	IS	UL	SES	178,267.00
● PhD	Joe Lorentz	Towards edge-optimized deep learning for explainable quality control	IS	DataThings	UL	212,670.00
● PhD	Alexander Medina Peschiutta	Rheology of Hard Metal Pastes.	MS	UL	Ceratizit	212,670.00
TOTAL						1,841,979.40



PROJECT TITLE	PRINCIPAL INVESTIGATOR	HOST INSTITUTION	DOMAIN	FNR CONTRIBUTION IN EUR
Public History as the New Citizen Science of the Past	Thomas Cauvin	UL	SC	2,000,000.00
TOTAL				2,000,000.00

★ AFR PhD 2019

FIRST NAME	LAST NAME	HOST INSTITUTION	DOMAIN	TITLE OF PROJECT	FNR CONTRIBUTION IN EUF
Navid	Aminnia	UL	MS	Investigation into the evolution of grain structure for metal additive manufacturing	191,552.00
Philip	Bertemes	University of Innsbruck	ВМ	Towards a reversible bio-inspired glue for medical application.	190,302.00
Zoé	Bürger	Eberhard-Karls University Tübingen	ВМ	Hormonal contraception and stress reactivity in women	190,302.00
• Naja	Camisa	UL	SC	EU Migration Policies in Crisis: The role of traditional and social medi in shaping the European policy attention and actions	ia 190,302.00
Samuele	Ceolin	LIST	SR	Root dynamics under varying water and nutrient supply	190,552.00
Jorge Alfonso	Charry Martínez	UL	MS	Towards First-Principles Understanding of PositronMolecule Interactions	192,052.00
• Luca	Courte	Albert-Ludwigs University Freiburg	MT	Scaling Laws and Emergent Effects for Plasticity in Heterogeneous Materials	190,302.00
Lancelot	Da Costa	Imperial College London	MT	Active Optimisation	190,302.00
Bastien	Dubuisson	UL	SC	Books, Saints, and Men: for a Revaluation of Latin Hagiographic Culture in the Diocese of Trier (13th-16th centuries)	190,302.00
Noémie Catherine	Engel	University of Bath	ВМ	Sex role evolution in the wild: sexual selection and parental cooperation in a social network	n 190,552.00
• Lynn	Erpelding	UL	SC	Body image distortion and cardio-visual integration in anorexia nervosa	190,302.00
Christopher	Geisser	University of Geneva	SC	The moderating role of intergroup contact on discriminatory news	190,552.00
Arkajyoti	Ghoshal	UL	MS	Microbial Signal Transduction Under Fluctuating Fields	192,052.00
Kim	Greis	Free University of Berlin	MS	Studying Glycosyl Cations using Gas-Phase Infrared Spectroscopy	190,302.0
Thierry	Groff	UL	SC	Die Legio XXII Primigenia Pia Fidelis: Eine epigraphische Studie zu Migration und Mobilität römischer Soldaten am Rande des Imperium Romanum.	190,302.0
Hailong	HU	UL	IS	Privacy Attacks and Protection in Machine Learning as a Service	192,052.0
Pelin	Kaya	UL	ВМ	Evaluation of the biological activity of novel PDE6D inhibitors	191,052.00
Jill	Kries	Catholic University of Louvain	SC	Developing a neurodiagnostic test for aphasia: EEG as a measure of speech processing	130,302.0
Gustavo	Larrea-Gal- legos	LIST	SR	Using AgEnt based models and NEtwork AnalySis to assess supply chains criticalities	192,052.0
• Anna	MACHURA- URBANIAK	UL	LE	Investment fraud in the light of behavioral finance - integration of psychological aspects into financial regulation	190,302.0
● Milan	Milenovic	LIST	SR	Effect of Climate Change on the interaction between whiteflies, parasitoids, endosymbionts, and the host plant in European and Mediterranean regions	190,802.00
Christophe	Pixius	University of Heidelberg	MS	Cosmic Structure Formation with Kinetic Field Theory	190,302.00
Goya	Razavi	University of Chicago	LE	The Sources of Intergenerational Mobility in Luxembourg and the US	190,302.0
Julien	Rippinger	Free University of Brussels	SC	Descriptive Geometry and Infographics: Towards the Formulation of a Theory of Projective Representation for Computer-aided Architectural Drawing Tools	
Gabriel	Rivera Cosme	UL	sc	Language Policy and Planning in Luxembourg and Eastern Belgium: Ideologies of Standardization	190,302.00
Jonathan	Rommelfangen	UL	MS	Functionalization of MoS2 via ion beams and alkali metals	190,302.0
● Eric	Schanet	Ludwig-Maximilians University, Munich	MS	Search for electroweak supersymmetric particles with the ATLAS detector at the LHC.	158,294.0
Lucas Jean Nicolas	Schaus	California Institute of Technology	ВМ	Machine Learning as a Tool in Cytochrome P450 Enzyme Discovery	78,250.0
Gilles	Stebens	Albert-Ludwigs University Freiburg	MS	C-H-Bond Activation as a Model Process for the Transfer of Gas-Phase Ion-Chemistry into the Condensed Phase	190,302.0
Yannick	Weyer	Innsbruck Medical University	ВМ	Functional characterization of a novel endosome and Golgi associated degradation (EGAD) system	190,302.0
TOTAL			-		5,575,750.00



Indiana Jos- Naturwëssenschaft an Technik entdecken Ökologische Exkursion auf Norderney Élèves chercheurs au LRSL FIRST Global Robotics Challenge 2019 Forschungsstation Wattenmeer: Anpassungen an ein Ökosystem mittels einer multidisziplinären Zusammenarbeit untersuchen und verstehen. Ökologisches Praktikum auf der Insel Norderney SC Studienreise: Ökologie einer Insel im Wattenmeer im Wandel der Zeit Make Permafrost Great Again 2.0 / Pour que les cartoons cartonnent CHO Polaren Dustbuster LGE- CSI: Esch, Cool Science Investigations - 2nd Edition Junglinster im 2ten Weltkrieg Future Digital Leaders 2019-2020 Projet interdisciplinaire: Etude écologique du "Wattenmeer" Goodyear STEM Student Challenge Recherche, Opinions, Décisions - Cycle de débats interactifs sur le thème « Vivre, Travailler et Décider Ensemble »	PARC NATUREL DE 30,000.00 ELISABETHANNEAS 100,000.00 ATERT LYCÉE RED 4,962.00 //OYAGES SCIENTI 11,000.00 Make it asbl be 10,700.00 LYCÉE CLASSIQUE 3,900.00
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Recherche, Opinions, Décisions - Cycle de débats interactifs sur le thème « Vivre, Travailler et Décider Ensemble » Digital life skills, coding and logical thinking workshop for kids ages SC	Lycée Grevenmac 7,650.00
thème « Vivre, Travailler et Décider Ensemble » • Digital life skills, coding and logical thinking workshop for kids ages • SC	GOODYEAR 5,000.00
- 8	ASTI a.s.b.l. 33,400.0
	Kids Life Skill 43,671.0
LUNEX Sport Science Days 2020 SC	LUNEX Internati 20,000.00
Falling Only for Science: promoting fall prevention science to older SC adults in Luxembourg	LUNEX Internati 24,000.00
Congrès MATh.en.JEANS 2020 SC	JNILU 21,500.00
Freizeitaktivitäten in Wissenschaft und Natur für Kinder und SC Jugendliche (Panda Club und Science Club am MnhnL)	MNHN 38,500.00
The Lost Ocean VR SC	MNHN 50,000.00
Science to be Green SC I	LISTLUXEMBOURG 30,500.00
La vie quotidienne en 2040, le point de vue de la science SC I	ECOLE PRIVÉE NO 29,071.00
Ökologische Praktikum "Wattenmeer"	LYCÉE CLASSIQUE 6,750.00
LJBM: Science for kids 2020 SC	LYCÉE JOSY BART 2,830.00
élèves chercheurs au LRSL SC	/OYAGES SCIENTI 7,500.00
ScienceAlert SC (GROUSSGASMASCH 46,305.00
Réponses des cellules cérébrales suite à un stimulus pro-inflammatoire SC - Cibles thérapeutiques pour les maladies neurodégénératives	YCÉE MICHEL RODANGE 2,113.0
Parents As Trainers (PAT) Luxembourg - "Learning by Doing" SC	Sakthivel Manik 12,300.00
TOTAL	

AWARDS 2019

DOMAINE	ACTION	SOCIETE	FNR CONTRIBUTION IN EUR
SC	AWARDS-PSC	Juliette Pertuy - Laura Star - Noémie Guerisse - Malou Fraiture - Joanna Muz - Arnaud D'Agostini - Federica Amato	5,000.00
SC	AWARDS-PSC	Fondation Jeunes Scientifiques Luxembourg	5,000.00
IS	AWARDS-PUB	Eva Lagunas - Shree Krishna Sharma - Sina Maleki - Symeon Chatzinotas - Björn Ottersten	5,000.00
ВМ	AWARDS-PUB	Antonio Del Sol Mesa & Satoshi Okawa	5,000.00
MS	AWARDS-PHD	Riccardo Rao	5,000.00
ВМ	AWARDS-PHD	Linda Wampach	5,000.00
TOTAL			30,000.00





ORGANISATION

The FNR is a public institution created by statute (Law of 31 May, 1999) and enjoys legal capacity and full administrative and financial autonomy. Our overall strategy is laid down in a four-year contract with the Luxembourg Government, which also defines our budget appropriation.

THE BOARD

Our Board supervises the organisation and approves the overall policies and strategic priorities of the FNR. It is appointed by the government and is composed of nine independent directors active in industry, business and the civil society. The members of the Board act in full autonomy.

Chair

Véronique HOFFELD, Attorney-at-law, Member of the Executive Committee and partner at Loyens & Loeff (until 11/19).

Martine REICHERTS, Head of the Directorate - General for Education and Culture (2015-2018). Member of the board of Directors of the Banque Centrale de Luxembourg (FNR Board Chair since 12/19).

Vice-Chair

Thierry WOLTER, Member of the Executive Board and the Supervisory Board of CERATIZIT



BOARD

from left to right: Richard Sedrani, Roger Assaker, Robert Kerger (Government Commissioner), Marc Schiltz (Secretary General), Thierry Wolter (Vice-Chairman of the Board), Véronique Hoffeld (Chair of the Board), Hjoerdis Stahl, Christine Hoffmann, Edmond Differding, Andrée Billon, Yves Fromes (ex-officio member)



BOARD

from left to right: Isabelle Schlesser, Richard Sedrani, Jean-Marc Fandel (sitting), Anouck Hilger, Stéphanie Damgé (sitting), Nadine C Martin (sitting), Marc Schiltz (Secretary General), Thierry Wolter (Vice Chairman of the Board, sitting), Martine Reicherts (Chair of the Board), Romain Martin (Government Commissioner, sitting), Yves Fromes. Not in the picture: Tania Brugnoni

Members

Andrée BILLON, Executive Director of "Commission de Surveillance du Secteur Financier" from 2009-2016 (until 11/19)

Edmond DIFFERDING, Managing Director of Differding Consulting (Louvain-la-Neuve, Belgium) (until 11/19)

Christiane HOFFMANN, Manager of Lilith Project.

Anouk HILGER, Head of Project Development Renewable Energies at Enovos Luxembourg S.A.

Richard SEDRANI, Executive Director at the Novartis Institutes for BioMedical Research (Basel, Switzerland)

Roger ASSAKER, Co-founder and CEO of e-Xtream engineering (until 11/19)

Yves FROMES, Professor and associate researcher at the Paris Institute of Myology (FNR Board Member since 12/19)

Jean-Marc FANDEL, Board and C-level Advisor, Meraki Management SARL (FNR Board Member since 12/19)

Isabelle SCHLESSER, Director ADEM (FNR Board Member since 12/19)

Stéphanie DANGÉ, Director Jonk Entrepreneur Luxembourg asbl (FNR Board Member since 12/19)

Tania BRUGNONI, Director 1535° Creative Hub (FNR Board Member since 12/19)

Ex-officio (non-voting) members

Marc SCHILTZ, Secretary General of the FNR

Robert KERGER, Government Commissioner (until 03/19)

Romain MARTIN, Government Commissioner (since 04/19)

Yves FROMES, Chair of the Scientific Council of the FNR (until 11/19)

Nadine C. MARTIN, Chair of the Scientific Council of the FNR (since 12/19)

THE SCIENTIFIC COUNCIL

Our Scientific Council acts as an advisory body to the FNR. Appointed by the Government, it is composed of international experts. The current Scientific Council was appointed by ministerial decree in June 2015.

Chair

Prof. Dr Yves FROMES, Institut de Myologie, Paris (France) (until 11/19)

Nadine C. MARTIN,

Siten-insel AG (Switzerland) (FNR Scientific Council Chair since 12/19)

Vice-Chair

Mrs Gabriele DOBENECKER, Empa, Dübendorf (Switzerland)



SCIENTIFIC COUNCIL

from left to right: Aloyse Schoos, Dr Patrycja Paruch, Dr Marc Schiltz (Secretary General of the FNR), Prof. Dr Ursula Lehmkuhl (Vice-Chair), Prof. Dr Yves Fromes (Chair), Prof. Dr Moira Norrie, Prof. Dr Yves Cocard, Gabriele Dobenecker.
Not in the picture: Prof. Claudine Mangen

Members

Prof. Dr Yves COCARD,

Pädagogische Hochschule Bern (Switzerland)

Prof. Dr Claudine MANGEN,

Université Concordia, Montréal (Canada)

Prof. Dr Moira NORRIE,

ETH Zurich (Switzerland)

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Université de Genève (Switzerland)

M. Aloyse SCHOOS,

IEE, Contern (Luxembourg)

Prof. Freya BAETENS,

Leiden University (Netherlands)

University of Oslo (Norway)

Prof. John SCHEID,

(Collège de France) (until 08/19)

Prof. Dr Burkhard STILLER,

University of Zurich (Switzerland)

Prof. Dr Nicolas GENGLER,

University of Liège (Belgium) (FNR Scientific Counsil Member since 12/19)

EXECUTIVE OFFICE

The Secretary General of the FNR is the chief executive of the organisation. He heads the Executive Office, implements the strategy, oversees programme development and manages all running activities. He is appointed by the Board of the FNR, subject to approval from the Government. The Executive Office is composed of more than 29 committed collaborators, who are experienced and highly-qualified professionals with a strong track record in science and research management or in the field of science communication.



Florencia BALBASTRO Programme Manager



Jean-Paul BERTEMES
Head of Unit – Science in
Society



Olivier BUCHHEIT
Programme Manager



Dr Helena BURG Head of International Relations



Angelina CLEMENS
Administrative Assistant



Patricia DRIMEYER Administrative Assistant



Didier GOOSSENS Head of Corporate Communication



Emily IVERSEN
Digital Communication
Manager



Tom JAKOBS Administrative & IT and Data Management Assistant



Christiane KAELL Head of Unit - Thematic Research Programmes



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Cindy LOPES-BENTO Head of Science of Science and Innovation Policy



Marie-Claude MARX PhD, Programme Manager



Dr Andreea MONNAT Head of Unit – Innovation Programmes



Jill MOUSEL Administrative Assistant



Sandra NITTEL Administrative Assistant



Ionut PERES, IT Manager



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Sonia RAMOS Communication & Event Manager



Melanie REUTER
Science Communication
Assistant



Susanne RICK Programme Manager



Marc ROCK, Head of Finance



Joseph RODESCH
Science Communicator



Asaël ROUBY Programme Manager



 $\begin{array}{c} \textit{Sean SAPCARIU} \\ \textit{PhD, Programme Manager} \end{array}$



Dr Richard NAKATH
Programme Manager



Dr Marc SCHILTZ
Secretary General,
Executive Head of the FNR



Josiane STAUS Administrative Assistant



Linda WAMPACH
Programme Manager



Michele WEBER
PhD, Science Communicator
& Programme Manager

For the pictures ©: Christoph Weber Eric Devillet Olivier Minaire FNR (all others)

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