Key Performance Indicators
2018 -2021
Solicited under the "Contrat d'Etablissement Pluriannuel entre l'Etat et l'Université du Luxembourg 2018-2021"
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Progress 2018-2021

Publication intensity: 99.5% of 2021 annual goal. Annual average: 2.0 publications per researcher. (2018-2021 average: 2.03 (101.5%))

First quartile publications: 120.6% of 4-year goal. Goal 18/21: 3000

Top 10% publications: 122.7% of 4-year goal. Goal 18/21: 1800

Joint publications with other LIs: 151.3% of 4-year goal. Goal 18/21: 300

New ERC grants: 112.5% of 4-year goal. Goal 18/21: 8

Ph.D. degrees awarded: 130.8% of 4-year goal. Goal 18/21: 400

Patents submitted: 75.0% of 4-year goal. Goal 18/21: 40

PPP-funded doctoral candidates and postdoctoral researchers: 120% of 4-year goal. Goal 18/21: 90 positions

Competitive funding - National: 88.3% of 4-year goal. Goal 18/21: 150 M euros

Competitive funding - International (H2020 / FP9): 130.9% of 4-year goal. Goal 18/21: 25 M euros

Collaborative funding: 127.8% of 4-year goal. Goal 18/21: 68 M euros

Mobility ECTS: 108.0% of 2021 annual goal. Annual average: 25 ECTS. (2018-2021 average: 26.19 (104.8%))

Accreditation: 83.3% of 4-year goal. Goal 18/21: 6 BA/MA prog. accredited

Female full professors: 96.3% of 4-year goal. Goal 18/21: 30% ratio increase

103.7% of global competitive and collaborative goal achieved.
## Goals and Performance – Overview
### 2018 – 2021

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Goal</th>
<th>Performance</th>
<th>Value achieved (2018-2021)</th>
<th>Initial goal*</th>
<th>Performance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publication intensity</td>
<td>2.0</td>
<td>101.5% achieved (average)</td>
<td>2.03 (average)</td>
<td>1.6</td>
<td>126.8% achieved (average)</td>
</tr>
<tr>
<td>First quartile publications</td>
<td>3000</td>
<td>120.6% achieved</td>
<td>3619</td>
<td>2000</td>
<td>180.9% achieved</td>
</tr>
<tr>
<td>Top 10% publications</td>
<td>1800</td>
<td>122.7% achieved</td>
<td>2209</td>
<td>1000</td>
<td>220.9% achieved</td>
</tr>
<tr>
<td>Joint publications with other LIs</td>
<td>300</td>
<td>151.3% achieved</td>
<td>454</td>
<td>200</td>
<td>227% achieved</td>
</tr>
<tr>
<td>New ERC grants</td>
<td>8</td>
<td>112.5% achieved</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ph.D. degrees awarded</td>
<td>400</td>
<td>130.8% achieved</td>
<td>523</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patents submitted</td>
<td>40</td>
<td>75% achieved</td>
<td>30</td>
<td>20</td>
<td>150% achieved</td>
</tr>
<tr>
<td>PPP-funded doctoral candidates and postdoctoral researchers</td>
<td>90</td>
<td>120% achieved</td>
<td>108</td>
<td>45</td>
<td>240% achieved</td>
</tr>
<tr>
<td>Competitive funding – national</td>
<td>150 M</td>
<td>88.3% achieved</td>
<td>132.5 M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Competitive funding – international</td>
<td>25 M</td>
<td>130.9% achieved</td>
<td>32.7 M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collaborative funding</td>
<td>68 M</td>
<td>127.8% achieved</td>
<td>86.8 M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total competitive and collaborative funding</td>
<td>243 M</td>
<td>103.7% achieved</td>
<td>252 M</td>
<td></td>
<td></td>
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<tr>
<td>Mobility ECTS</td>
<td>25</td>
<td>104.8% achieved (average)</td>
<td>26.19 (average)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accreditation</td>
<td>6</td>
<td>83.3% achieved</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female full professors</td>
<td>30% ratio increase</td>
<td>96.3% achieved</td>
<td>28.9%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Initial value of the goals for P4 2018-2021; the value was revised in 2019.
Research and Development Indicators
Publication intensity 2018 – 2020

Intensité de publication: nombre de publications scientifiques à comité de lecture scientifique par chercheur par année

99.5% of 2021 annual goal

2018-2021 average publication intensity: 2.03 (101.5%)

Goal 18/21
2.0 annually

Number of publications and number of publications by researcher versus contractual goal

Number of publications in 2021, by type of publication

- Refereed Conference proceedings
- Refereed journals
- Authored books
- Edited books
- Book chapters
First quartile publications 2018 - 2021

Premier quartile Q1: nombre d’articles scientifiques publiés dans des revues de premier quartile, basé sur le facteur d'impact normalisé du champ

Number of first quartile, Q1, peer-reviewed publications by year versus contractual goal

Goal 18/21
3000

Goal in 2021: 3000

120.6% of 4-year goal
**Top 10% publications**
**2018 – 2021**

**Top 10%: nombre d’articles scientifiques publiés dans des revues classées dans le top 10%, basé sur le facteur d’impact normalisé du champ**

122.7% of 4-year goal

**Goal 18/21**
1800

Number of top 10% peer-reviewed publications by year versus contractual goal

Goal in 2021: 1800
Joint publications 2018 – 2021

Publications conjointes: nombre de publications scientifiques [...] conjointes entre au moins un auteur de l'Université et [...] un auteur d’une ou plusieurs institutions de recherche luxembourgeoises

151.3% of 4-year goal

Goal 18/21
300

Number of joint peer-reviewed publications by year versus contractual goal

Goal in 2021: 300

Joint publications observed with:

<table>
<thead>
<tr>
<th>Institute</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUXEMBOURG INSTITUTE OF HEALTH</td>
<td>29</td>
<td>38</td>
<td>43</td>
<td>79</td>
</tr>
<tr>
<td>LIST</td>
<td>36</td>
<td>49</td>
<td>65</td>
<td>81</td>
</tr>
<tr>
<td>LINTER</td>
<td>9</td>
<td>8</td>
<td>7</td>
<td>10</td>
</tr>
</tbody>
</table>
### ERC grants

**2018 – 2021 (September 2021)**

**Bourses ERC**: nombre de nouvelles bourses du Conseil européen de la Recherche (ERC)

<table>
<thead>
<tr>
<th>Year</th>
<th>Researcher name</th>
<th>Grant type</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td></td>
<td></td>
<td>No projects</td>
</tr>
<tr>
<td>2020</td>
<td>Bissyande, Tegawende</td>
<td>Starting</td>
<td>NATURAL - Natural Programme Repair</td>
</tr>
<tr>
<td></td>
<td>Ottersten, Björn</td>
<td>PoC</td>
<td>DREAM - Demonstration of a Radar Enabled weArable platforM</td>
</tr>
<tr>
<td></td>
<td>Podolskij, Mark</td>
<td>Consolidator</td>
<td>STAMFORD - Statistical Methods for High Dimensional Diffusions</td>
</tr>
<tr>
<td></td>
<td>Tkatchenko, Alexandre</td>
<td>PoC</td>
<td>DISCOVERER - A novel chemical discovery platform enabled by machine learning</td>
</tr>
<tr>
<td>2019</td>
<td>Lagerwall, Jan</td>
<td>PoC</td>
<td>Verifying authenticity with liquid crystal-derived anti-theft encoding</td>
</tr>
<tr>
<td></td>
<td>Wilmes, Paul</td>
<td>Consolidator</td>
<td>ExpoBiome: Deciphering the impact of exposures from the gut microbiome-derived molecular complex in human health and disease</td>
</tr>
<tr>
<td>2018</td>
<td>Coron, Jean-Sebastien</td>
<td>Advanced</td>
<td>CLOUDMAP: Cloud Computing via Homomorphic Encryption and Multilinear Maps</td>
</tr>
<tr>
<td></td>
<td>Brida, Daniele</td>
<td>Consolidator</td>
<td>Ultrafast Tunneling Microscopy by Optical Field Control of Quantum Currents – UpTEMPO</td>
</tr>
<tr>
<td></td>
<td>Leist, Anja</td>
<td>Starting</td>
<td>Cognitive Aging: From Educational Opportunities to Individual Risk Profiles - CRISP</td>
</tr>
</tbody>
</table>

### Research projects by theme/pillar

- Materials Science (2018)
- Health and Systems Biomedicine (2018)
- Materials Science (2019)
- Health and Systems Biomedicine (2019)
- Computer Science & ICT Security
- Computer Science & ICT Security
- Data Modelling and Simulation
- Materials Science
Ph.D. degrees awarded
2018 – 2021

Thèses soutenues : nombre de thèses soutenues

Number of Ph.D. degrees awarded versus contractual goal

Number of Ph.D. degrees awarded by discipline as defined under the Frascati manual*

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Natural Sciences</th>
<th>Engineering and Technology</th>
<th>Medical and Health Sciences</th>
<th>Social Sciences</th>
<th>Humanities and The Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016/2017</td>
<td>152</td>
<td>13</td>
<td>51</td>
<td>22</td>
<td>53</td>
<td>13</td>
</tr>
<tr>
<td>2017/2018</td>
<td>135</td>
<td>25</td>
<td>42</td>
<td>18</td>
<td>39</td>
<td>11</td>
</tr>
<tr>
<td>2018/2019</td>
<td>108</td>
<td>18</td>
<td>38</td>
<td>18</td>
<td>24</td>
<td>10</td>
</tr>
<tr>
<td>2019/2020</td>
<td>129</td>
<td>12</td>
<td>50</td>
<td>7</td>
<td>41</td>
<td>19</td>
</tr>
<tr>
<td>2020/2021</td>
<td>151</td>
<td>48</td>
<td>55</td>
<td>7</td>
<td>36</td>
<td>12</td>
</tr>
</tbody>
</table>

* 0 observations for Agricultural and veterinary sciences and as such left out from the table.

1027
PhD registrations in winter term 2021/22 (of which 150 contracted with Luxembourgish research institutions)

Goal 18/21
400

130.8% of 4-year goal
Patents submitted
2018 – 2021

Brevets soumis : Nombre de brevets soumis OLB ou OEB ou OAB

Total number of patents submitted, per year and cumulative, versus contractual goal

Goal 18/21
40

75.0% of 4-year goal

Patents submitted

Goal in 2021: 40

75.0% of 4-year goal
PPP-funded doctoral candidates and postdoctoral researchers, 2018 – 2021

Partenariats: nombre de doctorants et post-doctorants en PPP (Industrial Fellowships, BRIDGES) nouvellement acquis

Goal 18/21
90

Total number of PPP positions, per year and type of fellowship, versus contractual goal

120% of 4-year goal

Cumulative total goal in 2021: 108
Financial Indicators
Financement compétitif national (en millions d’euro)

Total revenues (in million euros) from national competitive funding sources by year versus contractual goals

Goal 18/21
150

88.3% of 4-year goal

NOTE: Income from FNR Covid-19:
2020: EUR 867,101
2021: EUR 683,455
Total revenues (in million euros) from international competitive funding sources by year versus contractual goals

- 2018: 7 Mio
- 2019: 7 Mio
- 2020: 8 Mio
- 2021: 10 Mio

Cumulative goal: 130.9% of 4-year goal

Indicative yearly goal:
- 2018: 7 Mio
- 2019: 7 Mio
- 2020: 8 Mio
- 2021: 10 Mio

130.9% of 4-year goal

Goal 18/21: 25
Collaborative funding
2018 – 2021

127.8% of 4-year goal

Total revenues (in million euros) from collaborative funding sources by year versus contractual goals

Cumulative goal

Indicative yearly goal

Revenues in euros

- 2018
- 2019
- 2020
- 2021

15 Mio
20 Mio
23 Mio
27 Mio

Cumulative goal

Goal 18/21
68
Other Indicators
Moyenne de crédits ECTS validés comme crédits obtenus pendant le parcours de mobilité [...] par les étudiants inscrits dans les programmes d'études menant au grade de bachelor pendant leur semestre de mobilité

Goal 18/21

25

108.0% of 2021 annual goal

27.01 ECTS

Average number of credits registered for outgoing students in academic year 20/21

2018-2021 average mobility ECTS: 26.19 (104.8%)
Accreditation 2018 – 2021

Accréditation par une agence inscrite à l’EQAR ou par AACSB, EQUIS, AMBA d’un [...] bachelor et d’un […] master par faculté

83.3% of 4-year goal

List and number of accredited study programmes by agency and end year validity*

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Study programme</th>
<th>Agency</th>
<th>Status</th>
<th>End year validity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHSE</td>
<td>Bachelor of Science in Psychology</td>
<td>ACQUIN</td>
<td>Accredited</td>
<td>WS 2028/2029</td>
</tr>
<tr>
<td>FHSE</td>
<td>Master of Science in Psychology – Psychological Intervention</td>
<td>ACQUIN</td>
<td>Accredited</td>
<td>WS 2028/2029</td>
</tr>
<tr>
<td>FSTM</td>
<td>Bachelor in Applied Information Technology</td>
<td>ACQUIN</td>
<td>Accredited</td>
<td>WS 2028/2029</td>
</tr>
<tr>
<td>FSTM</td>
<td>Bachelor in Applied Information Technology – Continuous Education Programme</td>
<td>ACQUIN</td>
<td>Accredited</td>
<td>WS2028/2029</td>
</tr>
<tr>
<td>FSTM</td>
<td>Master in Information and Computer Sciences</td>
<td>ACQUIN</td>
<td>Accredited</td>
<td>WS 2028/2029</td>
</tr>
<tr>
<td>FDEF</td>
<td>MSc in Quantitative Economics and Finance</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2025/2026</td>
</tr>
<tr>
<td>FDEF</td>
<td>MSc in Finance and Economics</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2025/2026</td>
</tr>
<tr>
<td>FDEF</td>
<td>Master in Entrepreneurship and Innovation</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2027/2028</td>
</tr>
<tr>
<td>FDEF</td>
<td>Master in Accounting and Audit</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2027/2028</td>
</tr>
<tr>
<td>FDEF</td>
<td>Master in Wealth Management</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2027/2028</td>
</tr>
<tr>
<td>FDEF</td>
<td>MA in European and International Tax Law LLM</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
<tr>
<td>FDEF</td>
<td>MA in European and Banking and Financial Law LLM</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
<tr>
<td>FDEF</td>
<td>MA in European Business Law LLM</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
<tr>
<td>FDEF</td>
<td>MA in European Economic and Financial Criminal Law LLM</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
<tr>
<td>FDEF</td>
<td>MA in European Union Law and Litigation</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
<tr>
<td>FDEF</td>
<td>MA in Space, Communication and Media Law LLM</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
<tr>
<td>FDEF</td>
<td>Master en Droit européen L.L.M. Première année</td>
<td>FIBAA</td>
<td>Accredited</td>
<td>WS 2024/2025</td>
</tr>
</tbody>
</table>

Goal completion by faculty and degree level

<table>
<thead>
<tr>
<th></th>
<th>BA</th>
<th>MA</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSTM</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>FDEF</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>FHSE</td>
<td>✔</td>
<td>√</td>
</tr>
</tbody>
</table>

Goal 18/21 6
Augmentation de 30% (par rapport à la situation au 31 décembre 2017) de la proportion des femmes professeurs ordinaires [...] au nombre total de professeurs ordinaires

96.5% of 4-year goal

28.9% increase between 31.12.2017 and 31.12.2021

Goal 18/21
30% increase

Share of female full professors among all full professors, as percentage (headcount)

Total arrivals/departures of full professors in 2021 by gender

<table>
<thead>
<tr>
<th>Year</th>
<th>Female Full Professors</th>
<th>Male Full Professors</th>
<th>% Female Full Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>19</td>
<td>104</td>
<td>14.3%</td>
</tr>
<tr>
<td>2018</td>
<td>21</td>
<td>119</td>
<td>15.0%</td>
</tr>
<tr>
<td>2019</td>
<td>26</td>
<td>118</td>
<td>18.1%</td>
</tr>
<tr>
<td>2020</td>
<td>26</td>
<td>123</td>
<td>17.4%</td>
</tr>
<tr>
<td>2021</td>
<td>28</td>
<td>124</td>
<td>18.4%</td>
</tr>
</tbody>
</table>

Female
Arrival: 1
Departure: 0

Male
Arrival: 4
Departure: 3