

Foreword

A year of great mobilisation



2017 was a year of great mobilisation at the University of Luxembourg. The University community, the Rectorate, the University Council and the Board of Governors showed everyone that they are one team, geared towards the development of the University. Financial challenges were identified and addressed in a very professional manner and the dedication of each player turned a difficult year into a positive one. For the way our community tackled adversity, it has all my admiration.

During 2017, the University realised the need to upgrade its management practices. A wonderful start-up of 14 years, the University has experienced rapid growth and amazing scientific results, reaching 11th place in the world among universities younger than 50 years, and 179th among all universities, according to Times Higher Education's rankings. Few universities in the world have achieved

such recognition in such a short number of years. To make sure future academic development is never at risk, our management needs to be irreproachable and highly professional.

Our new four-year plan is an ambitious one. Our goal is simply excellence in all dimensions of our tasks.

At the start of the new year, I would like to thank the University community for making me feel so much at home in Luxembourg and in Belval. It is a true pleasure for me to join the wonderful team that has given its name to the University and a privilege to be able to contribute to its future history.

The University of Luxembourg is a jewel. Our goal is to make it shine for the development of science, knowledge and society.

A stylized, handwritten signature in black ink, belonging to Stéphane Pallage. The signature is fluid and cursive, with a long, sweeping tail that extends downwards and to the right.

Stéphane Pallage

Rector

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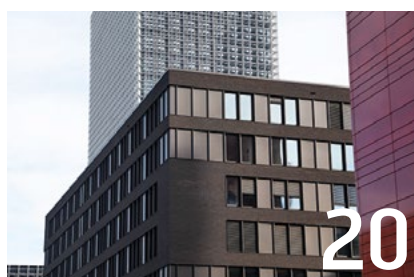
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Rector's interview

"At the forefront of Team Luxembourg"



Professor Pallage, what struck you most about the Grand-Duchy upon revisiting after so many years?

Luxembourg is no longer the country it was in my childhood. It has experienced amazing growth and diversification. I view it as a very cosmopolitan place, open to the world, highly ambitious and multicultural. The country can legitimately aspire to become a Silicon Valley of Europe. The University has a key role to play in the national strategy. It will contribute to the country's development, as it has over the last 14 years.

What attracted you to the University of Luxembourg?

Few universities in the world have a higher potential at the moment. The University of Luxembourg is among the leaders in many fields and its growth is quite spectacular. Having the chance to contribute to the development of a university such as this one is a unique opportunity. I simply could not resist joining that collective dream.

As the one and only public university in this country, this institution faces many expectations...

And justifiably so. We should work to make Luxembourg society proud of its University. By investing in us, society invests in its future. Designing the best future for this country is an essential part of our mission.

What are your priorities?

Making our University agile, resource-efficient, client-oriented and financially transparent is one of my goals. Through the next four-year contract that we have signed with the Minister of Higher Education and Research, the Government of Luxembourg has confirmed its trust in our University by increasing our public endowment over the next four years by 30%. It is very important that we become a model of university management to deserve that trust. Making our University an enjoyable place for faculty members, students and staff is another



Prof. Pallage during his inaugural speech at the University on 15 January 2018, which was attended by over 800 staff members.

of my goals. Quality of life on campus, career development perspectives, people development and quality assurance are all associated goals. Collaboration is high on the agenda as well. In Luxembourg and abroad, the University should be at the forefront of a Team Luxembourg for research.

How will you use your knowledge of both the European and the North-American academic culture to give fresh impetus to the institution?

The University of Luxembourg resembles neither a German, nor a French, nor even a Belgian university. The University of Luxembourg is special. It is very much Luxembourgish. It reminds me of North American educational institutions. Much of what I know from my time in the US and Canada is practised here. Especially the focus on research - which enriches the teaching - and the teaching in small groups, highly interactive, with a strong emphasis on learning.

in brief

Prof. Stéphane Pallage, a Belgian and Canadian national, took office as Rector of the University of Luxembourg on 1 January 2018. Prior to joining the University of Luxembourg, he was the Dean of the School of Management at the University of Quebec in Montreal (ESG UQAM) from 2013 to 2017. Stéphane Pallage started his academic career at the University of Liège. He holds a Master's degree in Industrial Administration (Finance) and a PhD in Economics from Carnegie Mellon University in Pittsburgh, USA. He was appointed Professor of Economics at the University of Quebec in Montreal in 2003.

The University of Luxembourg Entrepreneurship Programme

A wake-up call for dormant ideas

Training a new breed of innovative, creative and entrepreneurial minds and contributing to the socio-economic growth of the “Start-up Nation” Luxembourg: this is the overall goal of a new initiative launched by the University of Luxembourg with the support of the Luxembourg National Research Fund (FNR) and the Fondation Veuve Emile Metz-Tesch (FVENT) for all students and staff.

September 2017, Welcome Day for the new students on Belval campus. 130 students team up, armed with spaghetti, glue and a marshmallow to compete against gravity. Their task is to use these ingredients to build a tower that will not collapse – and incidentally learn what “ingredients” are necessary for a successful company – things like teamwork, strategic thinking and creativity. The workshop is fully booked out and is

the opener for the “University of Luxembourg Entrepreneurship Programme”.

“Luxembourg needs more entrepreneurs. With our initiative, we want to actively promote the entrepreneurial spirit of students and researchers of all disciplines, to make our graduates more competitive, and to contribute to the entrepreneurial culture of the country,” explains Prof. Romain Martin, Vice-Rector for Academic Affairs of the University. At the same time, he dispels a potential misunderstanding: “It is not our main goal to turn all of our students into company bosses.”

Programme Manager Sivakumar Bactavatchalou explains: “It’s about teaching skills such as idea generation, presentation, negotiation skills, project management and leadership. Graduates of every field of study from physics to philosophy will need these so-called transversal competencies at every stage of

their professional life – even as employees. People these days, however, are changing their expertise and professions more rapidly than ever.” The University is therefore developing “intrapreneurs”. And should the initiative happen to give rise to start-up companies, that would be a happy side-effect.

The Entrepreneurship Programme is not a course as such, rather a University-wide offer that will initially run for two years, and is being funded by FNR and FVENT. It is managed by Vice-Rector Prof. Romain Martin, Vice-Rector Prof. Tonie van Dam and Acting Director of Administration Dr Erica Monfardini, with the support of Business Development and Innovation Expert Dr Pranjul Shah at LCSB and Study Director of the Master in Entrepreneurship and Innovation Prof. Mickaël Geraudel. The head office and first point of contact is the Incubator in the Student Lounge building, opposite the House of Innovation on Belval campus. This offers space for workshops such as the Ideation Camp, infrastructure for prospective start-ups and individual consulting services for everything from idea evaluation to full business plans.

Whether FinTech services, a BioTech product or an innovative restaurant concept – all ideas are welcome. Building on recommendations from the Massachusetts Institute of Technology (MIT), the programme furthermore provides prospective companies with mentors who can offer access to their network of potential customers and investors to them. This “venture mentoring” will ensure every entrepreneur receives optimal advice.



From left to right: Siva Bactavatchalou, Prof. Martin, Prof. van Dam, Dr Pranjul Shah

Learning to structure creativity

The activities in Luxembourg to foster entrepreneurship are already bearing fruit. Events such as the Ideation Camp helped participants to generate and refine ideas, find suitable team partners for their projects, explore potential career paths, or simply be inspired by the entrepreneurial spirit.



Left to right upper then lower stair level : Prasad Bikkineni, Mike Pereira Gonçalves, Joni Beu, Himadri Pathak (all CheckMath), Lucian Trestioreanu (PlayCraft, together with Himadri Pathak).

HIMADRI PATHAK,

Master of Information and Computer Science

After attending the Ideation Camp, Himadri initiated two start-up projects: **PlayCraft** makes musical instruments affordable for everyone by using scrap material to build them. The idea was well received by a community centre in Luxembourg, which invited the PlayCraft team to run an instrument-building workshop. With another team, Himadri developed **CheckMath**, an app that helps students to solve maths problems by providing live feedback on their performance and notifications in the case of mistakes. CheckMath won the first prize at the Start-up Weekend Luxembourg 2017. Since then, the student entrepreneurs have been constantly working on refining their app to marketability. "In the back of our minds we always have CheckMath going on," explains Himadri. "Even in our lectures we think, according to what we are taught, how we can relate this to the problems we have to solve for our app."



Selvi Pjeshka, Arjana Gjeta (Hire Students)

ARJANA GJETA AND SELVI PJESHKA,

Master and Bachelor in Economics and Finance...

...won 4th prize at the Start-up Weekend Luxembourg 2017 after having first teamed up at the Ideation Camp. Their start-up project is a job platform that allows companies located in Luxembourg to find the perfect match among University students.

Their first steps in the start-up world have provided the young entrepreneurs with a new career perspective: "Entrepreneurship is definitely a career path I want to try out," says Arjana. However, a sound concept alone does not guarantee quick success: "Our main problem is currently to convince companies to work with us," explains Selvi.

Speaking of finding a student job: Selvi's sister ERA PJESHKA (Bachelor en Sciences Économiques et de Gestion) supported the Entrepreneurship Programme as "student ambassador". This job allows students to gain experience in event organisation, while attending events featuring renowned speakers and teaching relevant vocational skills.

DIMITRI EFREMOV,

Master of Learning and Communication in Multilingual and Multicultural Contexts

"The Ideation Camp was a rollercoaster of experiences and emotions. What I liked most about it was the enthusiasm and seemingly endless energy of the organisers. Their passion was contagious and I will definitely participate in the next Ideation Camp."

Megeno: A European hub for personalised disease prevention

The start-up Megeno affiliated with the Incubator of the University of Luxembourg is building the organisational and technical framework to create a “safe haven” for highly sensitive genomic data. It aims to support individuals to use their genomic data to identify and address personal



Dr Shaman Narayanasamy, Dr Erich Felber, David Rubio Hermosa

predispositions, thereby preventing diseases and conditions even before they manifest. Its founder, Dr Erich Felber, looks back at a success story with Micromet, a cancer research company that started as part of the Munich Biotech cluster and was sold for over \$1 billion to a multinational biopharmaceutical company. What leads a native German to launch a company in Luxembourg after such an encouraging entrepreneurial experience in his home country? “I was impressed by the strong commitment of the country to leverage its existing infrastructure and to invest in areas such as systems biomedicine, biobanking and cyber security,” explains Felber, “Luxembourg’s history of assuming a supranational role across Europe and its capability to combine technological excellence with innovations in law (think of data embassies or space mining) convinced me to bring Megeno and its initial funds to Belval - a rising academic and start-up hub. We absorb talent from the strong local academic environment and are impressed by the entrepreneurial perspectives they bring to the company.” Just recently, Megeno hired a graduate of the University of Luxembourg after a first contact at the Ideation Camp.

Technoptiz’: Research “made in Luxembourg” to meet national objectives

It was her PhD project that led Dr Khadidja Chaib Draa to join the University of Luxembourg. What led her to stay after the doctorate was the decision made during the Ideation Camp to create a company in order to make sensible use of her research findings: “Climate change and the solutions I can bring to counteract it have been on my mind for years. Thanks to my results, I know that notable improvements can be achieved by applying automatic control to the complex energy production processes. Luxembourg wants to double its share of renewable energies in the next two years and I have now the means to help it meet this objective,” explains Khadidja. One of her innovative approaches: connecting biogas plants

in a virtual network to compensate fluctuations in energy production, stabilise the power grid and maximise revenues. “Potential customers to whom I have presented my concept were excited about it,” rejoices the young entrepreneur, adding: “I will also provide a range of consulting services, among others in continuous improvement, monitoring and diagnosis.”

Dr Pranjul Shah, serial entrepreneur and member of the Entrepreneurship Programme’s advisory board, supports start-ups like Technoptiz’ through his global business network. Thanks to his broad international experience, he is well aware of the radiance of some start-up ecosystems abroad: “Our Incubator provides a unique opportunity to keep highly skilled and motivated re-

searchers, like Khadidja, in Luxembourg and to make the country a competitive start-up nation in the long term.”



Dr Khadidja Chaib Draa

Four-year plan

A mark of confidence



Vice-Rector Tonie van Dam was tasked with overseeing the development of the plan.

One of the first official acts of the new Rector of the University of Luxembourg, Prof. Stéphane Pallage, was to sign the new four-year contract between the University and the Ministry of Higher Education and Research. The contract was signed by Stéphane Pallage and Minister Delegate Marc Hansen at the beginning of January 2018. With the new contract, the Luxembourg government has assured the University roughly 767 million euros in funding up until the end of 2021 – a 25 per cent increase over the previous funding period.

The agreement is based on a four-year strategy developed by the University over the summer of 2017. “We worked very hard on this strategy,” says Prof. Tonie van Dam, Vice-Rector for Doctoral Education and Training, Gender, and International Relations, who was tasked with overseeing the development of the plan. “A key element of the University is autonomy in research. However, for the four-year plan it was necessary for all members of the University research community to agree on the focal topics that would be inclusive of as many scientists as possible.”

Creating this understanding of a common future worked out well, thanks to plenty of discussion, as Tonie van Dam points out: “In the preparation phase for the four-year plan, we experienced a very lively discourse between the Rectorate, the deans, and the directors of the interdisciplinary centres.

We debated not only the focus points themselves, but also about how we can sensibly combine them and engage as many research units as possible.”

The four-year plan also puts special emphasis on teaching and learning. The University must do more for the Grand Duchy of Luxembourg than deliver results in terms of innovation and economic advancement. Rather, the plan outlines a teaching and learning strategy that demonstrates that it is equally important to present new opportunities for the country’s young people by providing an excellent education while also emphasising training in life skills such as communication and leadership.

The Luxembourg Ministry of Higher Educational and Research’s agreement to substantially increase the University’s budget is testament to the successful efforts of the rectorate, management team, and all others who contributed by creating a coherent and compelling four-year plan. “We successfully underpinned our strategy with credible, concrete goals,” commented Tonie van Dam.

“This fourth edition of the four-year plan continues the pursuit of excellence across every aspect of the University’s mission,” commented Stéphane Pallage. “However, we will not limit this pursuit to the (focus) areas in the document. Excellence must be a goal in all our actions, our teaching, our service to the community, our research – whether or not it appears in the four-year plan.”

ULLA – University of Luxembourg Leadership Academy

Talent promotion complements talent acquisition

It could be said that a university's capital resides in the minds of its employees. There are two ways to increase this capital: you can recruit new talent; and you can develop the talent that is already there. Better still would be to do both. Over the past years – during the start-up phase – the University of Luxembourg has recruited a great number of new, talented scientists and administrative staff members. Last year, it launched a project aimed specifically at their further development. Its name is ULLA, the University of Luxembourg Leadership Academy.

Responsible for establishing ULLA is the Head of the Research Support Department, Heike Scheuerpflug. "We felt it important to align the Academy to the needs of the University members," she tells us. "So we convened a steering committee in which members from the different areas of the University could contribute their ideas." Based on their input, the research support team then created the concept for ULLA and, together with the steering committee, selected external trainers.

The ULLA training offers are aimed primarily at postdocs who are currently setting up their own research groups, but are also open to experienced researchers and administrative staff. The first course at ULLA took place in November 2017. To participate, interested parties had to apply with a CV, a cover letter and a recommendation from their superiors. 25 applications came in, and ultimately 20 participants took part in the four-day programme.



Among the participants was Daniel Peter. He is an employee in Heike Scheuerpflug's team and was involved in the conceptual design of ULLA. "We wanted to know, first hand, how the courses went and were received by the participants," Peter says, and offers a positive summary: "There was an excellent, trusting working atmosphere, where the participants had the chance to tell about specific challenges in their daily work." This is a key prerequisite for dealing truly efficiently with topics such as work organisation, team development or conflict management, working from real-world examples.

"Following the pilot phase, we will now continue refining the concept," Heike Scheuerpflug explains the next step. "Promotion of talent should be as much of a priority as talent acquisition at the University of Luxembourg."



ERC Grants

Accolade for researchers

In the academic world, winning one of the highly esteemed grants awarded by the European Research Council (ERC) is akin to a knighthood for the researcher, but also a huge gain in prestige for the research institution. Gaining four ERC grants within one year, speaks volumes about the quality of a university's research. In this respect, 2017 was an outstanding year for the University of Luxembourg.

It is little wonder, therefore, that Prof. Jean-Pierre Bourguignon, President of the European Research Council, paid a visit to the University in May to meet the rectorate and the current ERC fellows in acknowledgement of the institution's high success rate in ERC applications.

2017 started off well when the University announced that Prof. Alexandre Tkatchenko from the Physics and

Materials Science Research Unit had been awarded a Consolidator Grant by the ERC. Investigating the interactions between molecules, which determine the properties and behaviour of materials, Tkatchenko will be receiving about 1.8 million euros in funding over five years.

For Prof. Björn Ottersten, Director of the Interdisciplinary Centre for Security, Reliability and Trust (SnT) at the University, it was already the second time he was able to win an ERC Advanced Grant. He will be using the grant to develop a novel overarching technical framework that could be used to simplify the design and operation of complex systems in different areas, such as automotive radar, caching and wireless networking.

Prof. Ines Thiele, researcher at the Luxembourg Centre for Systems Biomedicine, was awarded an ERC Starting Grant for her project "Bug the Drug".

Her project is to develop novel computer models that will assist in the personalisation of drugs used in cancer therapy or for treating Parkinson's disease, so that the best drug for each individual patient can be prescribed.

Coming from the University of Cambridge, Josip Glaurdić joined the University of Luxembourg as an Associate Professor of Political Science in April 2017. He brought with him an ERC Starting Grant for the research project "ELWar" that investigates the political legacies of war and analyses the electoral behaviour over three decades in six post-war states: Bosnia and Herzegovina, Croatia, Kosovo, Macedonia, Montenegro and Serbia.

Moreover, with the physicists and material scientists Jan Lagerwall and Massimiliano Esposito, the engineering scientist Stéphane Bordas and the IT scientist Lionel Briand, the University hosts seven ERC fellows.



From left to right: Profs Massimiliano Esposito, Alexandre Tkatchenko, Stéphane Bordas, Jean-Pierre Bourguignon, Josip Glaurdić, Jan Lagerwall

Conferment of first University of Luxembourg Teaching awards

Passion teaches best

Excellence in teaching is not only a matter of strategies and programmes: It is, above all, a matter of dedicated people. "Passion teaches best," says Romain Martin, Vice-Rector for Academic Affairs. To thank those with special commitment and success in the classroom, the Vice-Rector has launched the so called "University of Luxembourg Teaching Award of the Year". Each of the three faculties selects two candidates, based on the criteria the faculty defines. The awards are endowed with 2,500 euros each – money that can be invested in teaching-related activities such as continuing education or networking – and are not only dedicated to professors and associate professors, but also to academic mid-level positions such as PhD or post-docs who are high level performers in teaching. Presented below are our six laureates in 2017 and what they feel is important when standing before a lecture hall.



"What I like most about teaching is getting the message across and creating curiosity among students. A good lecture for me is when the students are really quiet - not because they are asleep but because they are captivated, with eyes wide open, and you can feel that they are truly learning."

Dr Alexandre Salsmann – Life Sciences



"Students today know different things than in the past. They might know less French and German grammar, but speak English better and understand more about computers. (...) I've always tried to get students to work out the answers themselves and not only teach them a course."

Prof. Michel Pauly - History



"There is nothing better than when students react positively to a lecture. A good course is a kind of expedition that I undertake together with the students. Interaction with them is key."

Prof. Pierre Kelsen – Computer Science



"A good seminar is a seminar that provokes critical thinking and one that engages the students in an active role in the learning process."

Prof. Theoharry Grammatikos
– Corporate Finance



"I like to create a world of trust with students and to encourage them to participate as much as possible in the course. I also like to adapt myself to their understanding and to make a very complicated subject thereby accessible."

Fatima Chaouche – Tax Law



"I like the contact with young people because then you don't notice you are growing old. The students learn from you, hopefully, but you also learn a lot from the students. It is very rewarding and enriching."

Prof. Jean-Jacques Weber
– English and Education

New Dean for the Faculty of Law, Economics and Finance (FDEF)

It's good. Now let's make it better.



When asked about the strengths of the FDEF, Prof. Katalin Ligeti does not need to hesitate before answering but gets straight to the point: “With the three fields of law, economics and finance, the FDEF is highly interdisciplinary. We have to continue to increase this interdisciplinarity in the coming years, and connect ourselves even more closely with other areas of the University.” Since taking her new office as Dean in September 2017, the professor of European and International Criminal Law has the opportunity to actively shape this process.

Ligeti sees the development of the University in a positive light – and wants to make the good situation even better. “The start-up years were characterised by strong dynamism in many fields. Now we have reached the consolidation phase, where we have to concentrate on our strengths.”

The law professor’s faculty is dear to her: “Two of the FDEF’s core topics are defined in the new four-year plan as pillars of excellence for the University: European and International Law, and Finance and Financial Innovation. Yet, other fields of research in this faculty, such as economics and supply chain management, entrepreneurship and asset management, are

also extremely important. Only in conjunction with these will the core topics move forward.”

Even beyond the limits of the FDEF, she sees cooperation as important and forward-looking, for example in the fields of biomedicine, law and ethics or data modelling simulation: “We can support the colleagues in these fields very well from within the FDEF, for example in data modelling. Interdisciplinarity is integral to this field.”

The Dean feels it is important to address the needs of partners – not only within the research community, but also those in teaching and external cooperation. “As the only establishment of its kind in Luxembourg, the University is under a strong obligation to provide a benefit to the society that sustains us. At the FDEF, opportunities are offered to young people through our educational programmes.” Partners in industry and the public and private sectors should equally benefit from the research being done at the FDEF: “Luxembourg has an impressive diversity of institutions that are of great importance for the fields of law, economics and finance, in particular. Our research has therefore the potential to give fresh impetus that can spread from here throughout all of Europe. I believe that this is only possible in a country like Luxembourg.”

Attracting researchers to Luxembourg and facilitating exchange between industry and academia

One of the key requirements for a career in research is flexibility. If scientists want to be successful, they need to be willing to frequently switch jobs, take career detours, relocate and sometimes move back and forth between industry and academia. Prosperous companies, on the other hand, have to

identify and attract the right talents in order to stay competitive.

As of 2017, scientists and corporations alike can avail themselves of a new tool that brings researchers, entrepreneurs, universities and businesses together and facilitates a constant exchange between both worlds. The platform www.euraxess.lu helps researchers to identify new career opportunities, while companies and research institutions can find and attract talent from abroad. The portal provides practical information on how to settle in Luxembourg; its new features also allow users to browse through thousands of job offers, funding opportunities, partnership opportunities and researcher profiles.

During the launch event in September 2017, high-ranking delegates from industry, politics and academia came together to learn about the new features of the platform and how users can benefit from it. "Companies should use the portal as a recruitment tool. It enhances their visibility internationally and helps them in finding the right personnel," explains Barbara Daniel, National Coordinator of the EURAXESS Luxembourg Network. Georges Thielen, Manager of Governmental Relations and R&D Partnerships at the tyre manufacturer Goodyear adds that his company already makes wide use of the opportunities of the website. "We have hired 25% of our candidates for our public-private partnerships through the Euraxess portal," he said.



Erasmus celebrates its 30th anniversary

The Erasmus Programme has helped millions of young people and education professionals to travel abroad, study and gain experience and skills. In 2017, the programme, now called Erasmus+, celebrated its 30th anniversary.

In Luxembourg, the highlight of these celebrations was a conference organised jointly by the national Erasmus+ agency Anefore, the European Commission representation in Luxembourg and the University of Luxembourg in the presence of Prime Minister Xavier Bettel and other distinguished guests.

For the University, as one of the few universities that requires all its Bachelor students to study abroad, it has been an essential tool to facilitate student exchanges. During the academic year 2016–2017, more than 450

students went abroad thanks to the Erasmus+ programme and, in turn, the University welcomed around 150 incoming Erasmus students through agreements with around 260 partner institutions, both within and outside Europe.

However, Erasmus+ is about more than just student mobility. More than 50 staff members used the programme in 2017 to further their professional

development through a teaching or training period abroad. 18 of them did so outside the EU thanks to the new International Credit Mobility programme, in which the University has been participating since 2015.

In 2017, the University was also involved in about 20 other projects in the framework of Erasmus+, such as strategic partnerships and Jean Monnet activities.



The panel included Minister for Education Claude Meisch, Director-General for Education and Culture Martine Reicherts, Erasmus student Sarah Amchi Dit Yakoubat, Vice-Rector Prof. Romain Martin and CERATIZIT HR Manager Matthieu Cisowski.



Transatlantic Dialogue

A very strong bridge

In the beginning, it was pure fortuity when representatives from Miami University in Ohio, USA, visited the University of Luxembourg in 2006 while François Carbon, currently the Cultural Advisor for the University, happened to be standing in for the Vice-Rector. That same year, they decided they would hold a joint conference in 2008 as a “Transatlantic Dialogue” (TAD) – under Carbon’s management. Their first conference drew in 80 participants. In 2017, the conference was held for the fourth time and was attended by 480 people from Europe, Africa, Asia and North and South America, and by 32 partner organisations. Clearly, dialogue between researchers, politicians, and artists from all continents is tremendously popular. And the TAD serves as a very strong bridge.

“As the Cultural Advisor, I became the conference chair on the premise that cultural matters would be the focal topic of the TAD,” says François Carbon. With great interest, the participants at the Dialogue examined the influence our culture has on our way of learning, communicating, making policies and living overall – in and out of universities.

The theme of last year’s TAD was “Creating Human Bonds through Cultural Diplomacy”. In a broad spectrum of sessions,

the conference attendees reflected on the role cultural diplomacy can play in strengthening the community of mankind, civilised dialogue and our common bonds. It starts in childhood, as François Carbon explains: “In one session it was discussed, for example, how children can be given a more global cultural education, in an age when the parental homes often underestimate this crucial responsibility.” But it is precisely this childhood formation that is so important, he argues, so that the cultural ties between human beings do not break, and we constantly continue shaping our future together.

The TAD always tackles pressing issues. But that is not the only reason why it has become such a successful model, Carbon continues: “Each day at the conference gives you the opportunity to be creative. The participants have a close and personal experience of ‘culture’, from improvisational theatre to musical performances. You get at least as much dialogue through these media as in the conference room – and everyone has the chance to put forward his or her cultural inspirations. That is a big part of the secret of why more people attend the TAD each time.”

There will be another chance to attend in 2020: the next Dialogue will take place in 2020, with the theme “Cultural Diplomacy, World Peace & the Tower of Babel”.

Bringing ideas to market

A university is not only a place where new ideas are born, it should also be able to help its creative minds to transform their research insights into practical applications and new businesses. Here is an overview of spin-offs that are based on intellectual property created at the University of Luxembourg.



Open Assessment Technologies S.A. (OAT) provides enterprise-class solutions that enable universities, ministries of education and credentialing organisations to assess the skills of students and employees online. These organisations rely on OAT to deliver powerful assessment solutions that enable them to improve learning outcomes and capitalise on digital education. The company was launched in 2013 with the goal of commercialising the open source assessment platform TAO, the fruit of a joint research project between the University of Luxembourg and LIST. The Community Edition of TAO is available free, and has been downloaded by users in over 170 countries.

Year established: 2013, Website: taotesting.com

DataThings was founded in 2017. It develops innovative software solutions for analysing complex 'data in motion' coming from sensors and other sources. Its state-of-the-art machine learning algorithms make it possible to detect patterns over time, analyse behavioural changes and even to make predictions based on these changes over time. Their GreyCat data management solution (<http://greycat.ai>) is designed for any business that deals with live data, from health care and the financial sector to transportation systems and building/plant operations management.

Year established: 2017, Website: datathings.com



Information Technology
for Translational Medicine

Companies in the healthcare and life sciences market deal with vast amounts of often unstructured data. **ITTM S.A.** offers services to clients in these areas to better organise, maintain, clean and analyse their data. In a secure IT infrastructure, the company provides data integration and knowledge management solutions and services in all bio-medical research areas. The start-up develops solutions that help companies to optimise their data flow, data life cycle and work processes.

Year established: 2015, Website: ittm-solutions.com



LuxAI is the vendor of QTrobot, one of a handful of humanoid social robots that exist worldwide, and the only robot built in Luxembourg for healthcare and education and in particular for children with special educational needs. The first market for QTrobot is in therapy for children with autism. The robot improves the effectiveness of therapies by increasing the attention and engagement of children as well as providing frequent repetitions. Furthermore, QTrobot increases access to autism therapies in situations where human therapists are scarce. It can be used by all autism therapists and educators, as well as parents of children with autism.

Year established: 2016, Website: luxai.com



Motion-S specialises in analysing and augmenting mobility data collected from any device. One of many application examples is a mobile app that uses GPS data from smartphones to evaluate the driving behaviour and the exposure to risk of motorists in order to give them recommendations to improve road safety and eco-efficiency. By profiling and scoring the data, the users can create their individual mobility profiles, which can be used to get the best offers for their personal mobility needs. Motion-S target markets are insurers, car-sharing, ride-sharing and leasing companies, as well as manufacturers, tier 1 suppliers and fleet managers.

Year established: 2014, Website: motion-s.com



Blackswan is a high-tech spin-off of the University of Luxembourg, active in the field of predictive analytics and anomaly detection. Following more than ten years of academic research in the field, the founders have developed an algorithm that allows them to analyse in real time biometric data from sensors in wearable devices. The technology enables tailored applications to detect anomalies and dangers for people in high risk situations, such as rescue workers, elderly people living at home, extreme sportsmen and women.

Year established: 2015, Website: safeliveapp.com

Braingineering Technologies (BTech) has developed a new high-tech 3D Brain Organoid technology that mimics the environment of the human mid-brain. In doing so, the company supports pharmaceutical companies in the drug discovery and preclinical testing phase, helping them to increase their efficiency and the success rate of compounds that pass the clinical trials. Simultaneously, the technology might reduce the need for animal testing. Since January 2018, the start-up conducts its own R&D on Parkinson compounds.

Year established: 2016, Website: braingineering.lu



The first Graduation Week

Congratulations to more than a thousand graduates

The end of the year is always a festive time, and this is as true in academia as anywhere else. In a series of events in December 2017, more than a thousand graduates of the University of Luxembourg received their diplomas. Overall, 562 Bachelor, 387 Master and 138 doctoral students graduated last year at the University.

For the first time, all graduation events were centrally organised for all faculties and study levels to be held during one week at the University's headquarters on Belval campus. The so-called Graduation Week is intended to foster the spirit of community and to draw more attention to this important and highly emotional moment in the students' lives.

Graduation is not only a time to say goodbye. For the University, it is also an opportunity to thank the students for the trust they have placed in the young institution over the years.

Along with heartfelt thanks and best wishes for the graduates' future careers, speakers at each event appealed to the freshly minted alumni to stay in touch with their university and the country over the coming years. It was the unani-



mous opinion that Luxembourg's economy and society need knowledgeable, committed young people with creative and critical minds. The graduates now have the opportunity to inspire others by becoming ambassadors for the University and for Luxembourg.



Offers for refugees

"The University's doors are open to everyone"

Two of the main problems faced by young refugees wishing to finish their studies far from home are having no proof of their educational qualifications and not knowing the language well enough. Since the end of 2016 in Luxembourg, an Inclusion Officer has been addressing the specific concerns of refugees and asylum seekers. "We are the only helpline for refugees when it comes to higher education," says Tarik Belamine. "As an important social institution, the University's doors must be open to everyone." Belamine also advises other socially disadvantaged groups such as single parents, people in financial difficulties and disabled people.

The most important things to offer in the name of refugee relief include free language courses, the validation of existing educational qualifications and general help with navigating through the educational system. Last year, the University signed a cooperation agreement with Kiron Open Higher Education, a non-profit organisation working to make it easier for refugees to get into higher education through an online study programme. This Refugees' Higher Education Programme has received funding from l'Oeuvre Nationale de Secours Grande-Duchesse Charlotte, and officially starts in the winter semester of 2018.

The fact that this offer is urgently needed can be seen from the initial



numbers of refugees who have applied. While refugees sought advice 182 times during the winter semester of 2017/18, the number has already risen to 231. The number of regular students ultimately registered at the University rose from 10 to 48 – "a sign that the quality of integration is increasing," Belamine asserts.

Student commitment rewarded with the "Student Initiative Award"

Traditionally marking the start of the academic year, the "Séance de la Rentrée académique" introduced its new concept in 2017: the Student Initiative Awards.

A University lives through its students and this award recognises students whose commitment and motivation stand out. On Thursday 12 October, six young representatives of the Junior Enterprise Association (JELux) received the first Student Initiative Award. These students had launched the "Bridging the Gap Research Fair" in May 2017, where students could present their research projects, case studies or course projects, while receiving valuable insights and networking with distinguished guests. JELux is a non-profit student association that acts as a bridge between university and

labour market. One of its main goals is to expand students' professional competences by enabling them to undertake projects for companies.



From left to right: Jonathan Arias, Nicholas Bahrach, Kateryna Konoplova, Prof. Romain Martin, Corentin Debuq, Paola Hernandez

Campus development

News from the construction site

Through a window on the 14th floor of the Maison du Savoir, Belval, Thomas Barra looks out over a landscape of buildings near completion and the future domiciles of University institutes. Barra is the Head of Service de Développement des Sites – the department of the University that ensures employees and students can research, learn and work in modern, appropriately equipped premises.

“We organise ourselves exclusively in the form of projects,” Barra says. “Our work begins with planning the buildings and ends with the University members moving into them.” His department relies on the cooperation of many different players, the architect explains. “My team comprises ten people. So,

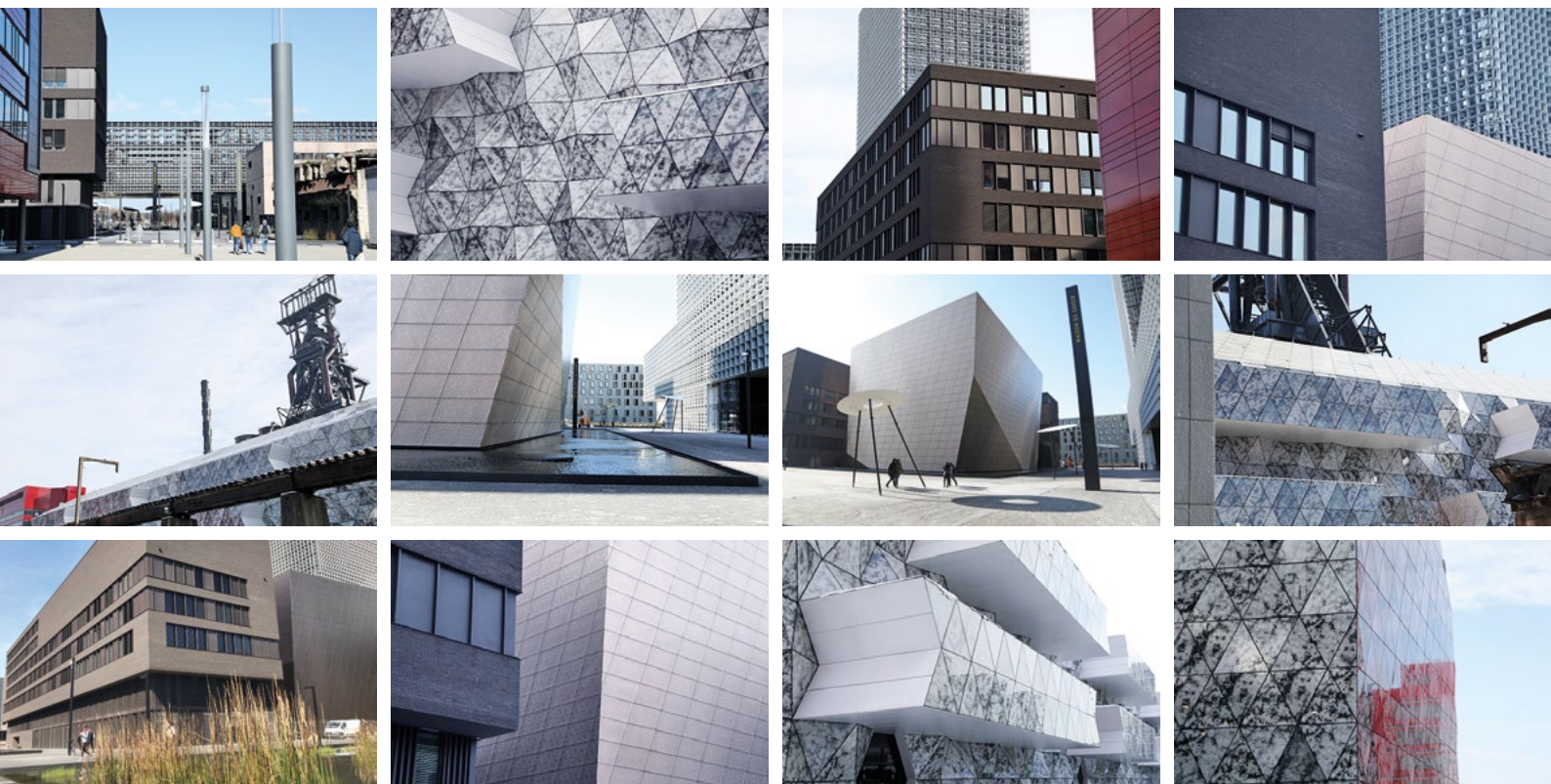
each project also has to involve colleagues from other departments, and particularly from the IT department and Facility Management. Because we value communication so highly, this is very efficient.”

It is also important to keep in communication with external actors, ministries, approval authorities and the Fonds Belval. The Fonds represents the State of Luxembourg as the owner of the buildings on the new campus, and provides them to the University. Barra adds “This extensive communication has to start right from the planning phase, to ensure the fundamental design of the rooms and laboratories meets our needs.”

After handover by the Fonds Belval, the construction work continues. Barra

and his team oversee the user-specific interior design. This is managed in many projects. The Maison du Nombre was occupied in 2017, the Maison des Arts et Etudiants and the Hall d'essai are near completion, and the Learning Centre is set to open in 2018.

“The Learning Centre especially is a highly ambitious project,” Barra says. “It is said to be the Library of the Future.” The challenge is that a gigantic amount of IT has to be installed – technology that is revolutionised practically every year. “This means the plan has to be continually revised – always in close coordination with everyone involved.” Thanks to the considerable experience the Location Development department has already amassed, Barra is confident: “The Learning Centre will be ready for opening by autumn 2018.”



Perspectives for administration

Optimise processes – promote talent

Dr Monfardini, when offered the position of Acting Director of Administration of the University last summer, what was it about the offer that appealed to you?

It was a great opportunity to work with a new team, for growing talents and for developing skills, structures and processes. I really enjoy this.

Why is that important for the University?

The University of Luxembourg has grown unbelievably fast over the last few years. What was basically a start-up has now become a mid-sized university with around 6,500 students and nearly 2,000 employees in research, teaching and administration. It's clear that its administrative structures have to catch up with this. My team and the staff managing the Administration are putting a lot of energy into handling this change.

What is your goal for this work?

Administration's job is to support research and teaching at the university and to offer excellent service. If the scientists and professors can work productively – and are not hampered by the administration – then we know we have done our job well.

So, what are you focussing on now, in particular?

We have to adapt the administrative processes to the size of the University in all areas, from personnel recruiting and budgeting to purchasing and controlling. We have outstanding, talented employees working on all of these processes. We have to organise the structures such that these talents are indeed put to best use: by combining mandatory – and therefore reliable – processes with personal responsibility, transparency and decision-making freedom. We need to make sure we all work at the same speed and with the same mindset.



How do you go about that, exactly?

Painstakingly. We analyse every process, check whether it is properly structured and whether it is supported by the right tools and approval flow. That last point is vital, so that central administration, the faculties and the interdisciplinary centres can all cooperate smoothly.

The University is still in the process of moving into its new Belval campus. What effect does that have in this context?

We have already done a good job of tackling the biggest challenge, of relocating most of the faculties and administration. We are cooperating intensively and successfully with the Fonds Belval and we are really looking forward to collaborating with them to an even greater extent.

FSTC in brief

Number of students

External funding in 2017

Number of publications

The Faculty of Science, Technology and Communication (FSTC) contributes multidisciplinary expertise in the fields of Mathematics, Physics, Engineering, Computer Science and Life Sciences. Through its dual mission of teaching and research, the FSTC seeks to train new generations of responsible citizens and leaders in order to better understand, explain and advance the society and the environment we live in.

With five Bachelor and 11 Master degrees, one doctoral school in Science and Engineering as well as different lifelong learning programmes, the FSTC offers excellent working environment and opportunities with multilingual and small-group courses, early involvement in research projects and close connections with institutions and industries. Composed of five research units, the FSTC also takes part in cutting-edge science and innovation in collaboration with local and international partners.

1,660

9.4 million euros

614

FDEF in brief

Number of students

External funding in 2017

Number of publications

The Faculty of Law, Economics and Finance (FDEF) is divided into three research units – the Centre for Research in Economics and Management (CREA), the Luxembourg School of Finance (LSF) and the Research Unit in Law (RUL) – as well as incorporating the Luxembourg Centre for Logistics and Supply Chain Management (LCL).

Over a dozen research areas have been identified within the FDEF's research units. A key theme to all of the FDEF's activities is a European and international outlook that is rooted in the Luxembourg context.

By offering three Bachelor and 12 Master degrees as well as numerous lifelong learning/vocational programmes, the FDEF aims to educate critical thinkers able to provide solutions to the challenges of today and tomorrow, in Luxembourg and beyond.

2,457

3.5 million euros

287

FLSHASE in brief

Number of students

External funding in 2017

Number of publications

The Faculty of Language and Literature, Humanities, Arts and Education (FLSHASE) covers a wide range of areas in the fields of humanities, linguistics, cognitive sciences and social and educational sciences. The aim of the Faculty's research and teaching is to create new knowledge about society's social, economic, cultural, political and educational aspects. Our ambitious, interdisciplinary research addresses key issues such as education in multilingual and multicultural environments, interactions between health and behaviour, migration and identity, social inequalities, and sustainable development.

Our four Bachelor's and 18 Master's degree programmes and our doctoral school offer an innovative approach and attractive prospects for the next generation of academics and professionals.

2,215

10.5 million euros

519

FSTC

Mathematics: raising awareness about a ubiquitous discipline



Playing with mathematics, Science Festival, December 2017

Mathematics is increasingly necessary to understand a world in which conceptual and quantitative methods play a prominent part. Despite modern technology often using recent mathematical advances, most people don't even know research in maths exists and generally perceive the subject as difficult and inaccessible. To fight these stereotypes, the University's mathematicians have put a considerable amount of effort into the dissemination of mathematics at national level.

Prof. Martin Schlichenmaier, Head of the Mathematics Research Unit (RMATH) from its creation in 2003 to 2017, shares his viewpoint: "In just a few years, we've succeeded in building an internationally renowned department which received an excellent evaluation in 2017. We offer an outstanding learning environment and a wide scope of job opportunities. More recently, Gabor Wiese and other colleagues began promoting this fascinating discipline in Luxembourg. Mathematics is a creative science, full of internal beauty, riddles and mysteries. It is the ultimate intellectual challenge and a way to understand the world around us."

Experiencing the life of a researcher in mathematics

This year, RMATH organised a variety of successful outreach activities, many with the support of the Luxembourg National Research Fund (FNR) and notably under the impetus of the three most recent permanent hires (Profs. Hugo Parlier, Antonella Perucca and Dr Bruno Teheux). The MATH.en.JEANS initiative began in September 2017 in three "Lycées", enabling students to experience mathematical research. Throughout the year they work in small groups, tackling challenging projects. RMATH has also initiated Math Olympiad trainings for high school students, worked with the Scienceteens Lab to offer workshops on number theory and cryptography and proposed IFEN (Institut de formation de l'Éducation nationale) teacher training.

Explaining contemporary mathematics

These activities complement multiple general audience events organised in 2017 to foster interest in mathematics, including public lectures and a round table on the gender gap in STEM (Science, Technology, Engineering, and Mathematics). The RMATH exhibit at the Science Festival, illustrating mathematical research through games and puzzles, was a stunning success.

Future projects

Prof. Jean-Marc Schlenker, the new Head of RMATH, wants to take things further: "While continuing to develop our excellent research and high level mathematical training, it is more important than ever to encourage outreach activities showing the importance of mathematics in modern society". New projects in 2018 include a touring interactive exhibition and a collaboration with the Science Center. This flurry of activity continues to promote not only mathematics, but also our University on a national and global scale.

FDEF

Marking 15 years of research and teaching in finance

The Luxembourg School of Finance (LSF) celebrated its 15th anniversary in October 2017, marking the occasion during its annual Luxembourg Asset Management Summit.

"The LSF is active in areas that are of importance for the Luxembourg financial centre," explained Prof. Jang Schiltz, Head of the LSF, about its key focus areas: asset management, institutions and financial innovation. "Investment funds and wealth management are two of the Luxembourg financial centre's main activities." Indeed, according to the Association of the Luxembourg Fund Industry (ALFI) and financial sector supervisory body CSSF, Luxembourg recorded over 4 trillion euros in net assets under management in investment funds at the close of November 2017.

Financial innovation, in particular digital disruption and financial technology, on the other hand plays a role in all aspects of the financial centre. "The pace of innovation is staggering and globally financial service providers are grappling with turning this challenge into opportunities," commented Schiltz. "Understanding how institutions work is a key element of developing new business models."

The LSF's research therefore does not consist of three isolated spheres but presents a web of activities. He continues: "The evolution of the financial centre is a complex, continuous process, Disruption is not a one-time event."

In order to bridge the research-practice divide, the LSF organises key events in line with its research priorities. In 2017, it hosted its second annual Financial

Technology Symposium. The event was dedicated to technology-enhanced investment platforms, including presentations and panels on robo-advisory services and the future of marketplace lending. In addition, together with ALFI and the support of Arendt & Medernach, Dechert LLP and the Luxembourg Bankers' Association (ABBL), the LSF organised regular industry-meets-academia events with a focus on alternative investments. Topics discussed included private equity, active shares, the hedge fund industry and the foreign exchange market.

A highlight of 2017 was the 6th Luxembourg Asset Management Summit, which featured a keynote speech by Prof. Andrei Shleifer (Harvard University, USA) on "Expectations in Finance", exploring the usefulness of survey data, for example in the prediction of investor behaviour.

The summit also marked the official anniversary celebration of the LSF, which was founded a year before the University of Luxembourg but joined the latter shortly after its inauguration in 2003. Among the guests of honour was Luxembourg Minister of Finance Pierre Gramegna who expressed his congratulations on past achievements and wished the LSF "Alles Guddes" for the future.



From left to right: Prof Andrei Shleifer, Prof Roman Kräussl, Minister of Finance Pierre Gramegna and Prof Jang Schiltz at the 6th Luxembourg Asset Management Summit.

FLSHASE

Moving beyond the 'crisis' in social sciences and humanities

The social sciences and humanities still matter, despite the so-called crisis we have been hearing about for many years now. In 2017, two high-profile international conferences organised at the Faculty of Language and Literature, Humanities, Arts and Education confirmed the vital contribution that both disciplines can make to society, now and in the future.

International experts from various fields including medicine, psychiatry, public health, sport, biology, statistics and computer science met at the University of Luxembourg for the international conference of the Society for Ambulatory Assessment. For three days, they discussed the opportunities and risks of digital health care. New digital and computer-assisted methods and devices have fundamentally changed the way physical and mental health issues are diagnosed, treated and monitored. "Digital technologies allow us to measure and understand patient symptoms more accurately so that we can develop treatments tailored to patients' needs, which will result in more effective treatments at lower costs. We are now talking increasingly about precision medicine, which is not just a buzzword but may well be the future of health care," explains Claus Vögele, Professor of Clinical and Health Psychology and conference organiser.

At the Institute for Health and Behaviour, Prof. Vögele and his team are using digital devices to investigate chronic pain syndromes and addictive behaviours such as eating disorders. In a lab, volunteers confront situations



The "End(s) of the Humanities" round table panel: Prof. Hans Ulrich Gumbrecht of Stanford University, Profs. Michel Margue, Georg Mein, Vice-Rector for Research Prof. Ludwig Neyses and Christophe Langenbrink from the Luxemburger Wort.

they find problematic while their bodily responses such as blood pressure, heart rate and respiration are recorded. Beyond lab-based investigations, participants carry portable devices to measure such responses in their everyday environments. "We need to make sure we address the challenges related to handling large volumes of patient data," warns Vögele, concluding that "we should not forget that, while technology can help optimise treatments, it can never replace clinicians."

Psychology and health disciplines have found their place in the digital age and the humanities have gone digital too, exploring the human condition in new ways. The "End(s) of the Humanities" conference brought together international scholars to determine the responsibilities of the humanities in today's society and to discuss their role for the future.

"We are living in a time of transition; the ways we perceive knowledge and access information have changed dramatically

over the last 25 years. The humanities can provide us with guidelines and orientation in today's world," explains Prof. Georg Mein, Dean of the Faculty and conference organiser. "However, decision-makers need to be reminded of the value of history, arts, language and philosophy and the important role they have to play in solving the problems of modern society," he adds.

In more than 70 sessions and four keynote speeches, the overall consensus was that today's global issues cannot be solved without the humanities. The humanities explore the human condition in all its forms, and connecting them to other disciplines will bring new ideas to the table and help us develop innovative solutions to global challenges such as migration, educational and political questions, social inequalities and employment issues. The distinction between "hard" and "soft" sciences is becoming increasingly blurred; if we are to succeed in and make sense of a rapidly changing world, both types of knowledge are essential.

LCSB in brief

The **Luxembourg Centre for Systems Biomedicine (LCSB)** is an interdisciplinary research centre at the University of Luxembourg that employs 238 scientists, technicians and support staff. The LCSB is accelerating biomedical research by closing the link between systems biology and medical research. In 17 research groups, collaboration between biologists, medical and computer scientists, physicists, engineers and mathematicians is offering new insights into complex systems like cells, organs and organisms. These findings are essential for understanding principal mechanisms of disease pathogenesis and for developing new tools in diagnostics and therapy.

Neurodegenerative diseases like Parkinson's disease and description of diseases as networks are the focus of LCSB's research. The Centre has established strategic partnerships with leading biomedical laboratories worldwide and with all major biological and medical research units in Luxembourg. The LCSB fosters collaboration with industrial partners and accelerates the translation of fundamental research results into (clinical) applications.

External funding in 2017

7.3 million euros

Number of publications

115

SnT in brief

The **Interdisciplinary Centre for Security, Reliability and Trust (SnT)** conducts internationally competitive research in information and communication technology, ICT, with high relevance creating socio-economic impact. In addition to long-term, high-risk research, SnT engages in demand driven collaborative projects with industry and the public sector. Therefore, the centre has set up a Partnership Program with 38 members targeting strategic areas addressing challenges confronting industry and the public sector in ICT. These resulting concepts present a genuine, long-lasting competitive advantage for companies in Luxembourg and beyond.

SnT has undergone rapid development since its launch in 2009, recruiting top scientists, launching over 50 EU and ESA (European Space Agency) projects, creating a technology transfer office (TTO), protecting and licensing IP, launching four spin-offs, and creating a dynamic interdisciplinary research environment.

External funding in 2017

12.4 million euros

Number of publications

305

C²DH in brief

The **Luxembourg Centre for Contemporary and Digital History (C²DH)** focuses on the contemporary history of Luxembourg and the history of Europe in the 20th and 21st centuries. A third research area looks at digital history, analysing the impact of the digital turn on the practice of historical research, conceptualising the use of digital methods and tools and serving as a catalyst for innovative and creative scholarship and new forms of public dissemination.

Public history, outreach and societal engagement with history in Luxembourg are a core aim of the centre's approach. A series of events, Forum Z (Z stands for "Zeitgeschichte", the German word for contemporary history), offers a platform for a critical and open discussion of current issues related to contemporary Luxembourgish and European history.

The C²DH doctoral school in Digital History and Hermeneutics, which hosts 13 PhD students, is committed to training the next generation of history scholars in digital literacy.

External funding in 2017

0.96 million euros

Number of publications

140

LCSB

ELIXIR-LU: giving life to biomedical data



The ELIXIR-LU team, from left to right, Dr Venkata Satagopam, Dr Wei Gu, Dr Regina Becker, Dr Reinhard Schneider, Dr Noua Toukourou, Dr Dietlind Gerloff, Dr Christophe Trefois, Dr Roland Krause, Jacek Lebioda and Dr Pinar Alper

In September 2017, the Luxembourgish Node of ELIXIR was launched. ELIXIR is a network of twenty countries working towards a common goal: to help researchers take advantage of the huge amounts of data produced in the life sciences. Within the network, ELIXIR Luxembourg, or ELIXIR-LU for short, focuses on biomedical data. This new European platform for data sharing, based at the LCSB and funded by the Ministry of Higher Education and Research, facilitates the archiving and exploitation of large data sets, to integrate clinical information with molecular and cellular data for a better understanding of diseases.

Nowadays researchers generate data of inestimable scientific value for medical research. However, only a fraction of the potential wealth is used because the information is hidden in local and temporary databases. "Many research institutions don't have the capacity to store the vast amounts of data generated," says Dr Reinhard Schneider, Head of ELIXIR-LU and the LCSB Bioinformatics Core. ELIXIR-LU will provide controlled access to human biomedical data and make them available to the entire research community for future use. "Initially, scientists browse a catalogue and may find that we host relevant data sets for

them." Dr Schneider continues. "Their analyses of these data in different contexts could lead to new diagnostic methods or better therapies." Data sets from two Innovative Medicine Initiative projects, OncoTrack focusing on colon cancer and Predict-TB on tuberculosis, are already being prepared to become available.

Besides storing and sustaining them, ELIXIR-LU "gives life to the data". Part of this means converting these medical data into standardised formats to render them useful for new investigations. The platform also provides tools for analysis and visualisation, helping researchers make the most of a given data set. Privacy and data protection are at the core of ELIXIR-LU as well. "We ensure that only authorised researchers have access and that the identity of the patients is protected," explains Dr Regina Becker, in charge of strategy. "We are developing tools to automate compliance with the new General Data Protection Regulation (GDPR), even across the different national legislations."

Supported by a recently formed independent scientific advisory board, ELIXIR-LU is now looking forward to developing collaborations with national and international partners, making Luxembourg the "go-to" European repository for biomedical data.

SnT

Bringing artificial intelligence to Luxembourg's legal industry

Did you notice the new look of Legilux (legilux.public.lu), the Grand Duchy's official legal portal?

Traditionally, Legilux, like other national legal portals around the world, has relied on print-only formats such as PDF for legal documents. But this concept isn't future-proof. "Print-only formats are quite limited when it comes to building smart, interactive legal services. We need flexible formats that support not only the traditional way of working with legal texts but also more advanced and computer-assisted forms of interaction", says John Dann, the director of the Ministry of State's Service central de législation (SCL). But then, what would happen to the thousands of pages of existing legal texts?

Manually transforming this content into a machine-readable format would be prohibitively expensive.

SCL, Digital Lëtzebuerg and SnT teamed up in 2016 to explore the use of artificial intelligence for analysing Luxembourg's laws. "Both government and the private sector are already heavily invested in software-based legal services. AI can dramatically improve these services by providing advanced automation opportunities", states Dr Mike Sabetzadeh, the lead researcher on the project. He further explains: "Using natural language processing and machine learning, we are developing tools that can do most of this transformation automatically."

The project has already come to fruition with the revamp of Legilux in

2017: technologies developed at SnT were applied over existing legal codes, converting these into a web-enabled and user-friendly format.

But SnT researchers are taking it a step further: legal compliance is one of the key topics they are investigating at the moment. To this end, the team is using AI to automatically extract compliance requirements from legal texts and transform these requirements into precise rules. "We strive to focus our effort on problems that are of great societal impact. The result of our collaboration with SCL is an excellent example of what we aspire to achieve via research," states Prof. Lionel Briand, Vice-Director of SnT. It's clear that AI is already making waves in industry, SnT researchers now aim to nudge these waves toward the legal domain.



Dr Nicolas Sannier, Dr Mike Sabetzadeh, Virgil Tassan-Zanin-Caser, Pascal Thill (SCL), John Dann (SCL), Marc Hisette (SCL), Prof. Lionel Briand, Amin Sleimi

C²DH

How digital technologies are transforming contemporary history

The Luxembourg Centre for Contemporary and Digital History (C²DH) was officially opened on 22 May 2017 at a ceremony attended by Marc Hansen, Minister Delegate for Higher Education and Research. The C²DH is the University of Luxembourg's third interdisciplinary centre. Research activities are based around four thematic areas: contemporary history of Luxembourg, contemporary history of Europe, public history and digital historiography. The Centre's research projects systematically incorporate digital methods and tools. This innovative approach encourages researchers to explore the multiple avenues that have been opened up by the advent of the digital age, ranging from new methods for the exploration of historical sources and for data storage, organisation, analysis and visualisation to transmedia storytelling and public outreach.

The project "Media monitoring of the past. Mining 200 years of historical newspapers", launched in 2017, aims to link some 140 digitised newspapers from Switzerland, Luxembourg, France, Belgium and Germany and to develop multilingual text-mining tools to analyse them. Another important project involves the creation of a digital exhibition on the First World War in Luxembourg, which went live in April 2018. The exhibition showcases a series of themes, enabling users to engage in a narrative and multimedia-based exploration of the events and consequences of the First World War.

All projects carried out at the C²DH are designed to explore new forms

and formats of contemporary history, based on a critical engagement with digital tools and technologies. The C²DH Digital Lab is the place where students and researchers can experiment and tinker with digital technologies such as 3D scanners and printers and virtual reality tools, identifying ways in which these technologies can be applied to research and teaching.

One of the C²DH's missions is to serve as a platform for critical reflection on the methodological challenges raised by historiography in the digital age. Source criticism is one such challenge, going right to the heart of the scientific practice and profession of the historian. With the "digital turn", source criticism has become all the more important. To address this issue, the C²DH has set up a digital platform containing a wide range of resources geared towards teaching the next generation of historians about digital source criticism. The Centre also aims



to facilitate critical debate on contemporary history in Luxembourg. To this end, the C²DH regularly organises events for researchers and the general public, known as "Forum Z" (the "Z" stands for *Zeitgeschichte*, the German word for contemporary history). Following on from the first Forum Z on the question of digital archiving, others have explored the future of storytelling and contemporary European historiography. In this way, the C²DH is fulfilling its mission to act as a catalyst for public history in Luxembourg.



The fourth Forum Z explored the history of the financial sector in Luxembourg.

Milestones in 2017

JANUARY

Benny Mantin appointed Director of the LCL
Prof. Benny Mantin begins his mandate as Director of the Luxembourg Centre for Logistics and Supply Chain Management (LCL), founded in December 2015 to establish Luxembourg as a world-class research and teaching hub in the field.



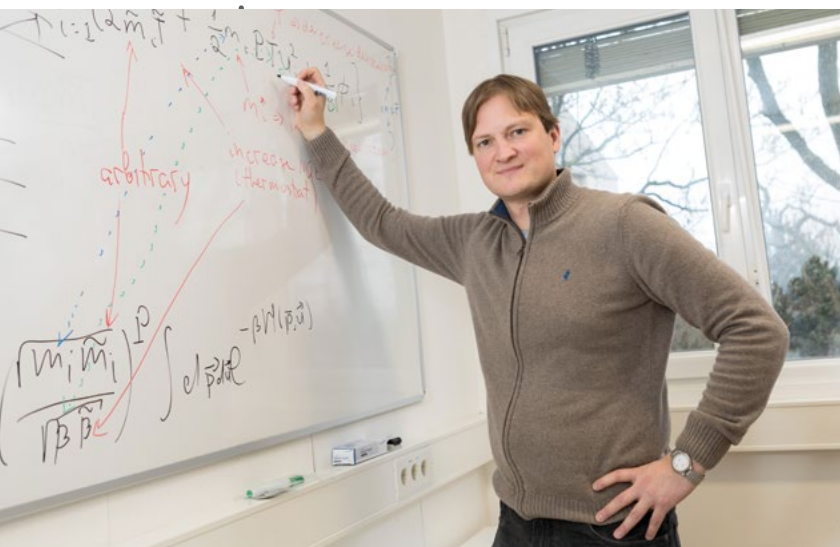
JANUARY

Tonie van Dam assumes office as Vice-Rector
The management team of the University was reinforced by the addition of another Vice-Rector, Prof. Tonie van Dam. The American national has been professor of physical geodesy at the University since 2006. As Vice-Rector, she is primarily concerned with further expanding the doctoral schools as well as with international relations and gender issues.

2017

JANUARY

Alexandre Tkatchenko wins prestigious ERC Grant
Prof. Alexandre Tkatchenko from the Physics and Materials Science Research Unit of the University of Luxembourg won a highly esteemed "Consolidator Grant" awarded by the European Research Council (ERC). Tkatchenko investigates the interactions between molecules, which determine the properties and behaviour of materials. He will receive about 1.8 million euros in funding over five years.



FEBRUARY

Third external evaluation of the University of Luxembourg
External evaluators have awarded the University of Luxembourg excellent marks for its research and for the institution's development phase. The four-year cycle procedure stipulated in university legislation has now been conducted for the third time. The evaluation presented was split into two parts: research and institutional.

MARCH

New Chair in Digital Financial Services to be established
PayPal (Europe), the Luxembourg National Research Fund (FNR) and the University of Luxembourg have signed a Memorandum of Understanding to create an FNR PEARL Chair in Digital Financial Services (FinTech).

APRIL

ERC Fellow Prof. Josip Glaurdić joins the University of Luxembourg

Josip Glaurdić joined the University of Luxembourg as an Associate Professor of Political Science and ERC Fellow in April 2017. Coming from the University of Cambridge, he has been awarded a Starting Grant from the European Research Council (ERC) for the research project ELWar, a five-year venture assessing the impact of war on political behaviour in Southeast Europe.



From left to right: Dr Christophe Lesschaeve, Prof. Josip Glaurdić, Dr Michal Mochtak.

MAY

Official opening of the Luxembourg Centre for Contemporary and Digital History

The University of Luxembourg officially launched its Luxembourg Centre for Contemporary and Digital History (C²DH) on 22 May 2017 in the presence of Minister Delegate for Higher Education and Research, Marc Hansen. The Centre investigates the political, economic, cultural and social history of Luxembourg in the 20th and the 21st century, including the world wars and the transition from an economy based on the steel industry to a service economy with a strong financial sector.

MAY

Resignation of the Rector of the University of Luxembourg

The Rector of the University of Luxembourg Prof. Rainer Klump announced his resignation in May 2017. Rainer Klump had served as Rector since January 2015. Vice-Rector for Research Prof. Ludwig Neyses took over responsibility for the day to day running of the University as Acting Rector.

MAY

Prof. Björn Ottersten receives an ERC Advanced Grant

Prof. Björn Ottersten, Director of the Interdisciplinary Centre for Security, Reliability and Trust (SnT) at the University of Luxembourg, has been awarded an Advanced Grant, the most prestigious award offered by the European Research Council (ERC).



JUNE

Erica Monfardini becomes Acting Director of Administration

Dr Erica Monfardini takes over new responsibilities as Acting Director of Administration of the University as of 1 June 2017. Before, Dr Monfardini was Head of Administration of the Luxembourg Centre for Systems Biomedicine.

SEPTEMBER

New FDEF Dean takes office

Prof. Katalin Ligeti officially took office as Dean of the Faculty of Law, Economics and Finance (FDEF) on Friday, 1 September 2017, marking a new chapter in both her career and the history of the Faculty. Katalin Ligeti joined the FDEF in 2009 as an associate professor, later taking on a post as a full professor specialising in European and International Criminal Law.



SEPTEMBER

THE Rankings 2017–2018: Most international university worldwide

In the 2018 edition of the Times Higher Education (THE) World University Rankings, the University of Luxembourg achieved the rank of 179, which it shares with the University of Twente. Since its entry into the THE rankings in 2016, the University has consistently ranked among the best 200 universities.

OCTOBER

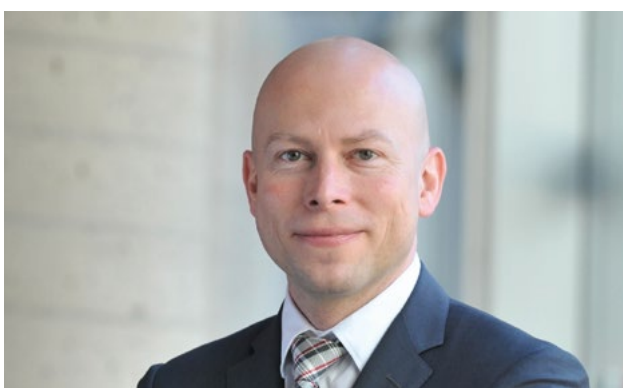
Leading European politicians discuss the EU's future with students

Jean-Claude Juncker, President of the European Commission, and other European officials came together at the conference "Shaping the Europe of the future" hosted by the Luxembourg Centre for Contemporary and Digital History of the University of Luxembourg to engage in discussions with high school pupils and students on the future of Europe.



OCTOBER

Prof. Stéphane Pallage appointed Rector of the University
HRH the Grand Duke appointed Prof. Stéphane Pallage as the new Rector of the University of Luxembourg on 9 October 2017. Pallage's mandate was set to start on 1 January 2018. Acting Rector Prof. Ludwig Neyses remained in charge of day to day running until the arrival of Prof. Pallage.



OCTOBER

University researchers honoured at FNR Awards

At the ninth edition of the FNR Awards, several researchers of the University of Luxembourg won prizes in two categories for their work on a model of the human intestine and socially assistive robots, respectively. Dr. Pranjul Shah and Prof. Paul Wilmes were honoured for their paper describing a new technology to mimic the conditions in the human intestine. The model also won the award in the category "Outstanding Research-Driven Innovation". The second award in this category also went to a University member: Pouyan Ziafati of the SnT developed the technology for the socially assistive robot "QT".

NOVEMBER

Grand Prix 2017 of the Institut Grand-ducal for Tonie van Dam
The Grand Prix 2017 in Geological Sciences from the Institut Grand-ducal was awarded by an international jury to Tonie van Dam, Vice-Rector of the University and Professor for Physical Geodesy. Professor van Dam received the award for her project "Absolute Gravity and Surface Displacements in Greenland". In December, she was invited to give the 2017 Bowie Lecture. Invitations are extended to researchers in recognition of outstanding contributions to fundamental geophysics.



DECEMBER

Prestigious ERC Grant for LCSB Researcher Ines Thiele

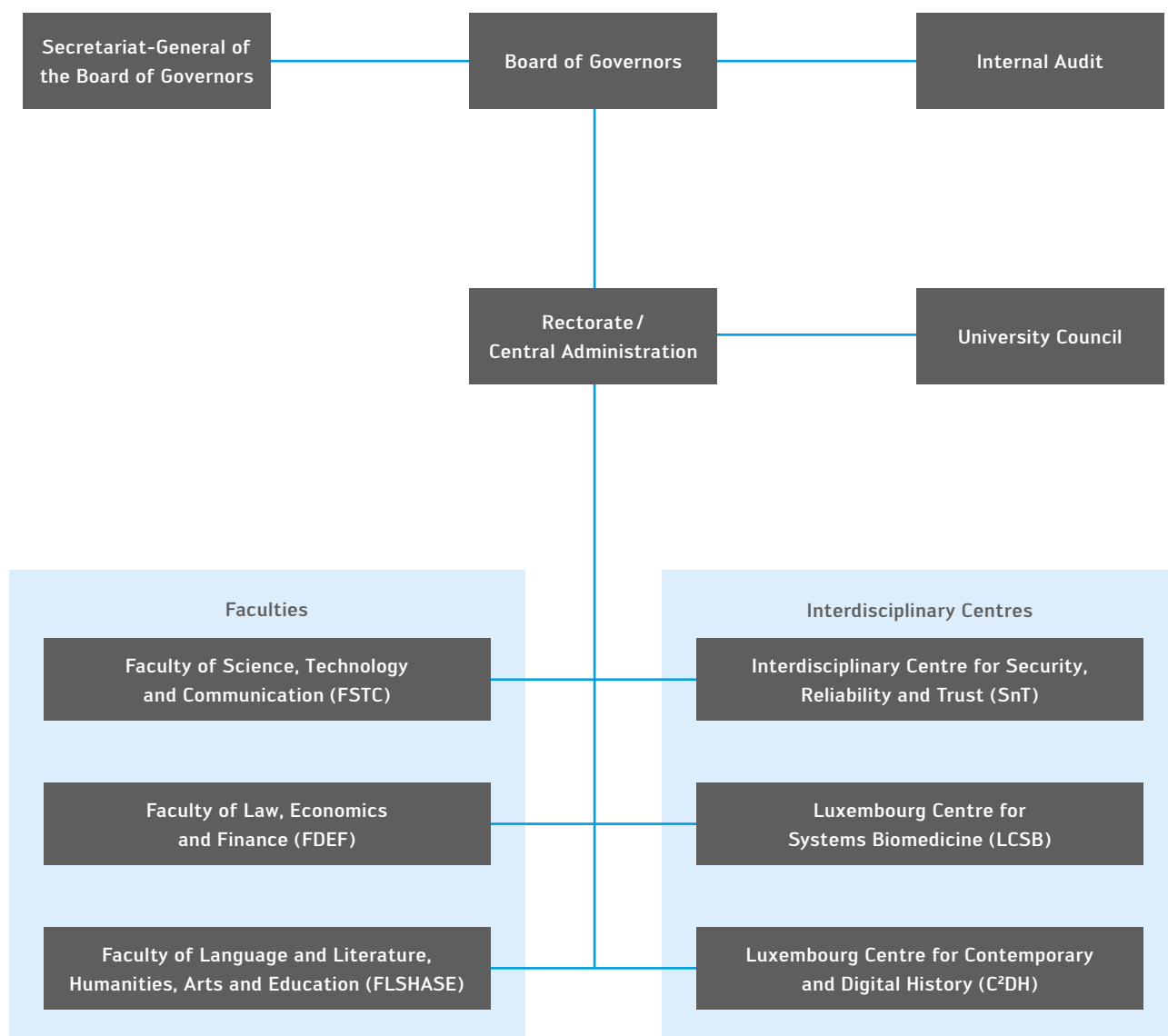
Prof. Ines Thiele, researcher at the Luxembourg Centre for Systems Biomedicine (LCSB) at the University of Luxembourg has been selected for the highly prestigious research funding of the European Research Council (ERC). The Head of the LCSBs Molecular Systems Physiology group and ATTRACT fellow of the Luxembourg National Research Fund (FNR) has been awarded an ERC Starting Grant for her project "Bug the Drug". Her project is to develop novel computer models that will assist in the personalisation of drugs used in cancer therapy or for treating Parkinson's disease, so that the best drug for each individual patient can be prescribed.

2018

Most important data of the year 2017

Facts and figures

Organisation chart





Members of the Board of Governors (1. January 2018)

Name	Function
Yves Elsen	Chairman of the Board of Governors and Managing partner and CEO of HITEC Luxembourg
Yvonne Flour	Former vice-president of the Board of Panthéon-Sorbonne University, France
Michel Goedert	Head of the division of neurobiology, Medical Research Council Laboratory of Molecular Biology, Cambridge, UK
Gérard Hoffmann	Chairman and Managing Director of Telindus Luxembourg. CEO of Proximus Luxembourg
Kristín Ingólfssdóttir	Former president of the University of Iceland. Professor at the Faculty of Pharmaceutical Sciences, University of Iceland
Alain Kinsch	Country Managing Partner of Ernst & Young Luxembourg
Danilo Zavrtanik	President of the University of Nova Gorica, Slovenia
Stéphane Pallage	Rector of the University of Luxembourg (as from 1 January 2018, replacing Rainer Klump)
Jörg Gerkrath	Representative of the academic staff (as from 16 September 2017, replacing Raymond Bisdorff)
Norbert Rugira	Student representative (as of 8 December 2017, replacing Stijn Lamberigts)
Léon Diederich	Commissioner of the Government
Massimo Malvetti	Secretary-General of the Board of Governors
Anne Christophe	Deputy Secretary-General of the Board of Governors

Mission of the Board of Governors

The Board of Governors decides upon the University's general policies and strategies and controls the University's activities. The Board of Governance is composed of seven members whose four at least practise or have practised academic responsibilities. Mr Yves Elsen is Chairman of the Board as at 29th July 2016. The University Rector, the Government Commissioner, a representative from the Teaching Body and a Students' Representative participate on equal terms in a consultative capacity at meetings held by the Board of Governors.

Expertise in key domains

The composition of the Board of Governors reflects the diversity of the University's missions. Its members have complementary and balanced skills and experience that are key for the University:

- Research, teaching and innovation
- Experienced in University management and general management
- Links with the civil society
- Experienced in the governance of complex national and international institutions

Members of the University Council

(31 December 2017)

Name	Function
Rudi Balling	Director of Interdisciplinary Centre - LCSB
Antonio Di Maio (as from 27 September 2017, replacing Mr. Vladimir Salnikov)	Representative of Intermediate Academic Staff - FSTC
Marco Antonio Dias Da Costa	Student Representative - FLSHASE
François-Xavier Flotterer	Student Representative - FSTC
Jörg Gerkrath	Representative of Academic Staff - FDEF
Paul Heuschling	Dean - FSTC
Adelheid Hu	Representative of Academic Staff - FLSHASE
Andreas Irmen	Representative of Academic Staff - FDEF
Pierre Kelsen	Representative of Academic Staff - FSTC
Katalin Ligeti (as from 27 September 2017, replacing Stefan Braum)	Dean - FDEF
Romain Martin	Vice-Rector
Georg Mein	Dean - FLSHASE
Erica Silvia Monfardini	Acting Administrative Director
Ludwig Neyses	Vice-Rector and acting rector (acting rector from 3 May 2017 to 31 December 2017)
Björn Ottersten	Head of Interdisciplinary Centre - SnT
Beth Park-Furlong	Representative of Library Scientific Staff
Christoph Purschke (as from 28 June 2017, replacing Caroline Döhmer)	Representative of Intermediate Academic Staff - FLSHASE
Berta Rato	Representative of Scientific, Administrative and Technical staff - FSTC
Norbert Rugira	Student Representative - FDEF
Georges Steffgen	Representative of Academic Staff - FLSHASE
Antoine Thevenoux	Student Representative - FSTC
Sonja Ugen	Representative of Scientific, Administrative and Technical staff - FLSHASE
Tonie van Dam	Vice-Rector (from 15 January 2017)
Anne-Marie Vesdrevanis	Representative of Scientific, Administrative and Technical staff - FDEF
Olivier Voordeckers (replaced Heleen de Geest starting 15 March 2017)	Representative of Intermediate Academic Staff - FDEF
Christopher Weyer	Student Representative - FLSHASE
Guillaume Wirtz (as of 17 January 2017, replacing Edoardo Tiberi)	Student Representative - FDEF
Ludger Wirtz	Representative of Academic Staff - FSTC

Research activity

List of all accepted Horizon2020 projects at the University of Luxembourg*

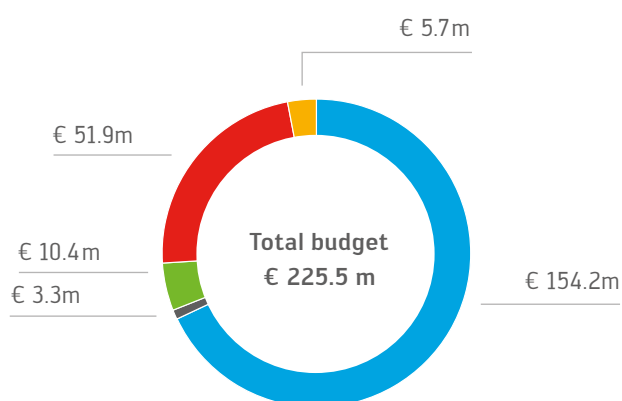
Horizon 2020 (H2020) is the biggest Research and Innovation programme of the European Union ever with nearly 80 billion euros of funding available over seven years (2014 to 2020). It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market. For a research-centered and innovative university such as the University of Luxembourg, it is an important goal to be part of the H2020 community and to continue to successfully apply for these funding opportunities.

Faculty or Inter-disciplinary Centre	Responsible PI within University of Luxembourg	Project	Funding Scheme	Role of University of Luxembourg
C ² DH	Catherine Jones	CROSSCULT	IA	Partner
Central / Library	Marie-Pierre Pausch	OpenAIRE Advanced	RIA	Partner
Central / Gender	Tonie van Dam / Christel Baltes-Löhr	Genderaction	CSA	Partner
Central / Library	Marie-Pierre Pausch-Antoine	OpenAIRE2020	RIA	Partner
FDEF	Angelo Marletta	ADCRIM	HERCULE-AG	Coordinator
FDEF	Katalin Ligeti	Jude-IT	DG Just	Partner
FLSHASE	Ute Karl	MOVE	RIA	Coordinator
FLSHASE	Claus Vögele / Sybille Petersen	CIP	MSCA-IF-EF-ST	Coordinator
FLSHASE	Dieter Ferring	MinD	MSCA-RISE	Partner
FLSHASE	Birte Nienaber	RELOCAL	RIA	Partner
FLSHASE	Claus Vögele / Dimitri Van Ryckeghem	PainDynamics	MSCA-IF-EF-ST	Coordinator
FLSHASE	Birte Nienaber	CEASEVAL	RIA	Partner
FLSHASE	Birte Nienaber	LU EMN NCP	AMIF-AG	Coordinator
FSTC	Thomas Sauter	MEL-PLEX	MSCA-ITN-ETN	Partner
FSTC	Jean-Sébastien Coron	HEAT	RIA	Partner
FSTC	Tonie Van Dam	EGSIEM	RIA	Partner
FSTC	Susanne Siebentritt	Sharc25	RIA	Partner
FSTC	Ludger Wirtz	EJD-FunMat	MSCA-ITN-EJD	Partner
FSTC	Christoph Odenbreit	REDUCE	RFCS-2015	Partner
FSTC	Thomas Engel	EXCITING	CSA	Partner
FSTC	Stephane Bordas	Rainbow	MSCA-ITN-EJD	Partner
LCSB	Rudi Balling	SysMedPD	RIA	Coordinator
LCSB	Rejko Krüger	CENTRE-PD	CSA-TWINING	Coordinator
LCSB	Rudi Balling	Clinnova	CSA	Partner
LCSB	Reinhard Schneider	SYSCID	RIA	Partner
SnT	Thomas Engel	FLYSEC	RIA	Partner
SnT	Thomas Engel	PRIVACY FLAG	RIA	Partner
SnT	Thomas Engel	TARGET	RIA	Partner
SnT	Thomas Engel	F-Interop	RIA	Partner
SnT	Thomas Engel	Atena	IA	Partner
SnT	Djamila Aouada	STARR	RIA	Partner
SnT	Leon Van Der Torre	MIREL	MSCA-RISE	Coordinator
SnT	Yves Le Traon	bloTope	IA	Partner
SnT	Leon Van Der Torre / Livio Robaldo	ProLeMAS	MSCA-IF-EF-ST	Coordinator
SnT	Symeon Chatzinotas	SANSA	RIA	Partner
SnT	Thomas Engel	SAINT	RIA	Partner
SnT	Peter Ryan	FutureTPM	RIA	Partner

* Excluding ERC Projects. Data from end December 2017

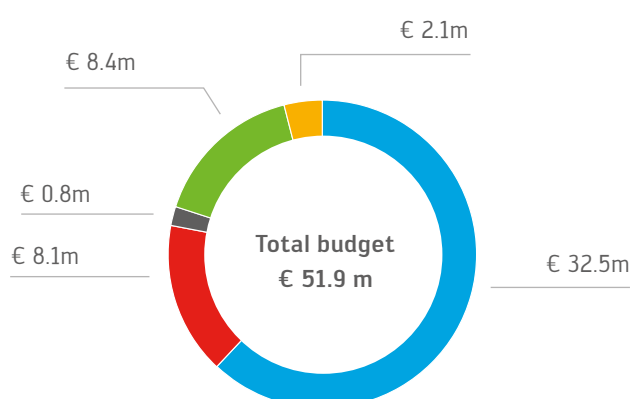
University budget in 2017 *

- State endowment
- Belval project
- Self funding
- Third party funding
- State personnel seconded to the UL



Total third party funding in 2017 *

- FNR
- Other partners
- Chairs
- European projects
- Ministries



* Realised amounts in millions of euros as of 31.12.2017

Endowed chairs since 2006

The University of Luxembourg benefits from a growing number of private and corporate donations. The most visible ones are the endowed chairs:

Chair	founded in	filled by
ATOZ Chair in European and International Taxation Law	2009	Prof. Werner Haslechner
SES Chair in Space, SatCom and Media law	2010 (renewed in 2015)	Prof. Mahulena Hofmann
Arcelor Mittal Chair in Facade Engineering	2010 (renewed in 2015)	Prof. Christoph Odenbreit
City of Esch-sur-Alzette Chair in Social Business and Social Management	2013	Under recruitment
ADA Chair on Financial law (Inclusive finance)	2014	Prof. Dirk Zetzsche
Chair in Capital Markets and Post Trade	2016	Under recruitment
PayPal PEARL Chair in Disruptive Financial Technologies	2017	Under recruitment

The University of Luxembourg has also been awarded:

Awarded
Two Jean Monnet Chairs in European Studies (for Prof. Herwig Hofmann since 2012 and for Prof. Eleftheria Neframi since 2013)
A UNESCO Chair in Human Rights (for Prof. Jean-Paul Lehnens since 2012)

Research project applications accepted in 2017

FNR schemes	Projects accepted 2017	Funding awarded 2017 (€)
ATTRACT	1	1,500,000.00
AFR PhD	15	1,845,000.00
AFR PPP	16	2,447,000.00
AFR Bilateral	4	830,938.00
CORE	25	15,929,000.00
CORE PPP	2	850,000.00
INTER	12	4,870,000.00
INTERMOBILITY	8	514,000.00
PUBLIC 2	1	464,908.00
PEARL *	0	0.00
PRIDE	6	13,875,900.00
PSP FLAGSHIP	0	0.00
PSP Classic	1	27,500.00
OPEN	3	1,332,000.00
RESCOM	9	257,700.00
PoC	5	1,293,300.00
KITS	4	1,370,000.00
Total	112	47,407,246.00

EU schemes	Projects accepted 2017	Funding awarded 2017 (€)
H2020	10	2,491,757.00
ERC	3	5,030,693.00
Total	13	7,522,450.00

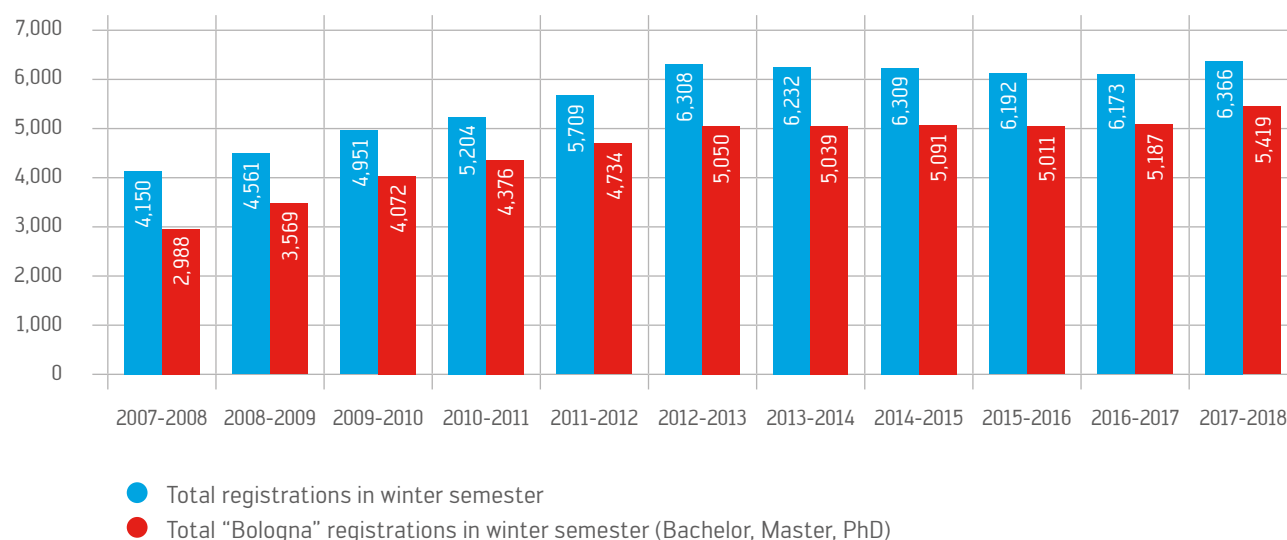
* under evaluation

Publications

	2017
Authored books	20
Edited books	34
Chapters	207
Refereed articles	689
Refereed conference publications	601
Other scientific publications	336

Student statistics

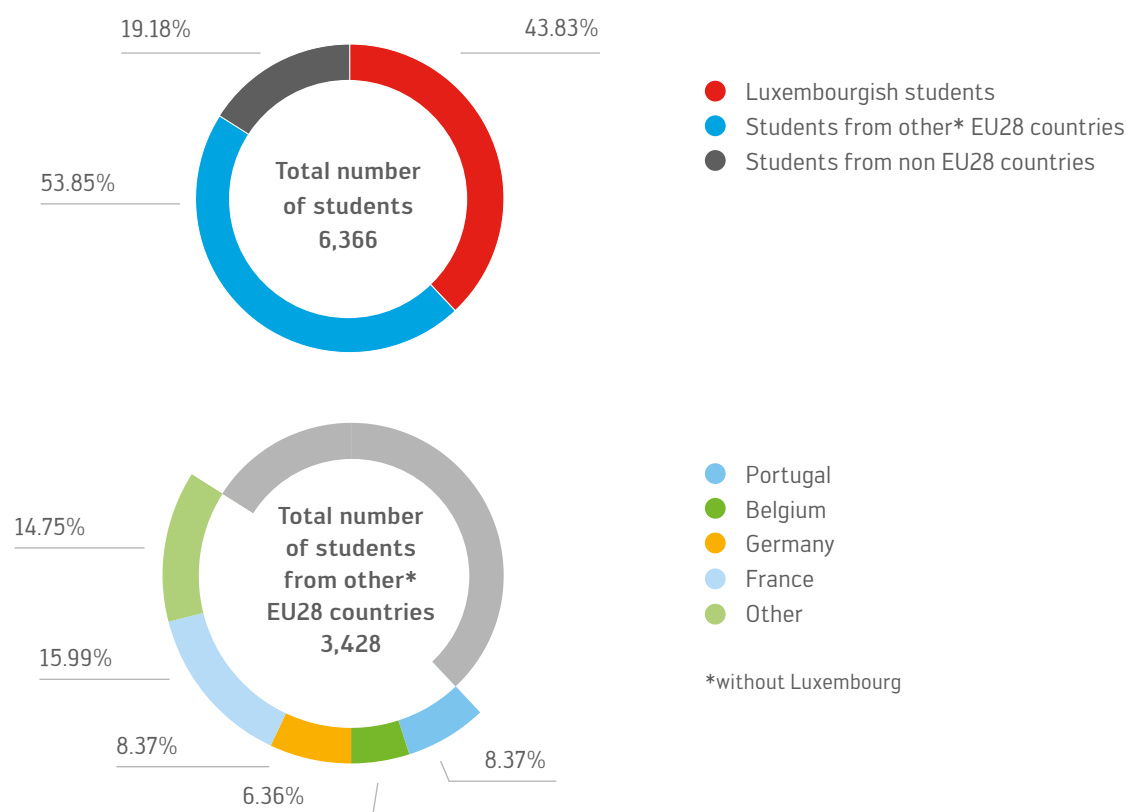
Total number of student registrations over time



Number of students

	Winter term 17/18	Annual evolution
by faculty		
FSTC	1,660	139
FDEF	2,491	-78
FLSHASE	2,215	132
by programme level		
Bachelor	3,078	53
Bachelor - Education	2,994	2
Bachelor - Training	84	51
Master	1,649	128
Master - Education	1,237	68
Master - Training	412	60
PhDs	692	51
Vocational programmes and lifelong learning	947	-39
LLL - Education	0	0
LLL - Training	947	-39
TOTAL	6,366	193
TOTAL - Education	4,923	121
TOTAL - Training	1,443	72
Bologna index	43.2%	3.6%
Master +PhDs	2,341	8.3%
All Bologna students	5,419	4.5%
Guest students	157	-62

Total student nationalities



In total **113** different student nationalities.

Note: as of the AY 15/16 dual nationalities are observed. The percentage is therefore not based on the total number of students.

Graduates over time

	2016-2017	Annal evolution
Total UL degrees	1,510	-59
Total Bologna degrees	1,156	1
Bachelor	581	-20
Master	447	1
PhD	128	20
Vocational programmes and lifelong learning	354	-60
Total FSTC	307	-21
FSTC Bologna	243	21
Bachelor	105	27
Master	68	-17
PhD	70	11
Vocational programmes and lifelong learning	64	-42

	2016-2017	Annal evolution
Total FDEF	746	-24
FDEF Bologna	527	-38
Bachelor	252	-70
Master	254	27
PhD	21	5
Vocational programmes and lifelong learning	219	14
Total FLSHASE	457	-14
FLSHASE Bologna	386	-18
Bachelor	224	23
Master	125	-9
PhD	37	4
Vocational programmes and lifelong learning	71	-32

Staff statistics

Personnel 2014-2017

	2014	2015	2016	2017	ETP 2017
Central administration					
Rectorate	5	5	6	3	3.00
Academic staff	4	4	1	1	1.00
Administrative staff	163	189	247	231	213.95
Scientific staff	1	2	4	1	0.80
Technical staff	43	31	30	27	25.75
Total	216	231	288	263	244.50
FDEF					
Dean's office	1	1	1	1	1.00
Academic staff	50	47	55	56	56.00
Intermediate academic staff	83	72	73	73	73.00
Administrative staff	30	34	39	45	41.10
Scientific staff	13	18	20	13	12.35
Technical staff	-	1	1	1	1.00
Total	177	173	189	189	184.45
FLSHASE					
Dean's office	1	1	1	1	1.00
Academic staff	96	97	98	96	92.00
Intermediate academic staff	149	145	131	144	143.60
Administrative staff	41	48	54	60	54.25
Scientific staff	125	123	124	117	104.65
Technical staff	7	9	10	16	13.80
Total	419	423	418	434	409.30
FSTC					
Dean's office	1	1	1	1	1.00
Academic staff	70	76	74	77	76.25
Intermediate academic staff	152	179	186	182	181.00
Administrative staff	27	31	35	41	34.35
Scientific staff	69	89	106	111	106.25
Technical staff	28	31	33	35	33.45
Total	347	407	435	447	432.30

	2014	2015	2016	2017	ETP 2017
SnT					
Management	1	1	1	1	1.00
Academic staff	4	6	7	7	7.00
Intermediate academic staff	92	77	73	88	88.00
Administrative staff	13	17	18	24	21.90
Scientific staff	63	69	88	97	94.80
Technical staff	-	-	-	1	1.00
Total	173	170	187	218	213.70
LCSB					
Management	1	1	1	1	1.00
Academic staff	5	3	3	4	4.00
Intermediate academic staff	44	50	47	42	41.50
Administrative staff	16	23	28	36	32.40
Scientific staff	100	106	112	100	96.00
Technical staff	8	15	17	30	28.10
Total	174	198	208	213	203.00
C²DH					
Management			1	1	1.00
Academic staff			-	7	7.00
Intermediate academic staff			3	17	16.00
Administrative staff			1	15	13.10
Scientific staff			-	16	15.10
Technical staff			1	3	2.00
Total			6	59	54.20
Total number of staff	1,506	1,602	1,731	1,823	1,741.45
thereof PhD students with work contract	416	423	429	487	485.00
Note: student jobs	198	213	195	157	36.56

Nominations or renewal of nomination of guest professors and honorary professors

Name	G/H/A	Home institution	Decision of the Board of Governors	Faculty	Field	Duration	Start
Kenneth Dyson	H	Cardiff University	19/05/2017	FLSHASE	Political Science	2 years	01/06/2017
Michel Fayol	G	Université de Clermont Blaise Pascal	14/10/2017	FLSHASE	Psychology	2 years	01/10/2017
Frank Hertel	H	Centre Hospitalier de Luxembourg (CHL)	19/05/2017	LCSB	Neurosurgery	3 years	01/06/2017
Patrick Kinsch	H	Barreau de Luxembourg	19/05/2017	FDEF	Private International Law	3 years	01/09/2017
Jens Kreisel	A	Luxembourg Institute of Science and Technology (LIST)	19/05/2017	FSTC	Materials Research and Technology Department	LIST mandate	01/09/2017
Yves Mersch	H	Vice-President of the European Central Bank	14/10/2017	FDEF	Law and Finance	3 years	01/11/2017
Michel Mittelbronn	A	Laboratoire National de Santé	01/04/2017	FSTC	Neuropathology	LIST mandate	01/05/2017
Aline Muller	A	Luxembourg Institute of Socio-Economic Research (LISER)	01/04/2017	FDEF	Economics and Finance	LISER mandate	01/05/2017
Laurent Pfister	A	LIST (director of group "Catchment and eco-hydrology" in the Environmental Research and Innovation department)	08/07/2017	FSTC	Environmental sciences	LIST mandate	01/09/2017
Henderik Proper	A	LIST	19/05/2017	FSTC	Computer Science	LIST mandate	01/09/2017
Jean-Louis Schiltz	H	Barreau de Luxembourg	19/05/2017	FDEF	Law	3 years	01/09/2017
Hilmar Schneider	H	Chief Executive Officer at the Institute for the Study of Labor (IZA), Bonn	19/05/2017	FDEF	Economics	3 years	01/09/2017

G: Guest professor, H: Honorary professor, A: Affiliated professor

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Project coordination: Laura Bianchi, Thomas Klein, Britta Schlüter

Realisation: scienceRELATIONS, Hannover/Berlin, Germany

Layout: www.spezial-kommunikation.de

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Photos: Michel Brumat (12, 19, 30, 31², 34), Eric Chenal (13, 32¹), Institut Pierre Werner (25), David Laurent (9),
Sophie Margue (1, 4, 5, 6, 20, 32², 33¹), Herve Muller (29), Marc Schmit Xero (11), scienceRELATIONS (21, 27, 33),
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