

PRESS RELEASE

ENGLISH

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LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST)

The Luxembourg Institute of Science and Technology (LIST) is a mission-driven Research and Technology Organization (RTO) that develops advanced technologies and delivers innovative products and services to industry and society. As a major engine of the diversification and growth of Luxembourg's economy through innovation, LIST supports the deployment of a number of solutions to a wide range of sectors, including energy, IT, telecommunications, environment, agriculture, and advanced manufacturing at national and European level. Thanks to its location in an exceptional collaborative environment, namely the Belval Innovation Campus, LIST accelerates time to market by maximizing synergies with different actors, including the university, the national funding agency and industrial clusters.

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LIST ANNUAL REPORT 2018

As the largest Research and Technology Organization (RTO) in Luxembourg, LIST continues to stand out on the national and European research scene. The year 2018 was marked by new partnerships as well as the continuation of strategic collaborations with partners from the private and public sectors. These remarkable achievements were possible thanks to the recognised excellence of our research, the outstanding infrastructure provided by LIST to our researchers and partners, and above all to our performance culture and “one team” philosophy.

In the course of the year, LIST's mission was strengthened by the signing, with the Ministry of Higher Education and Research, of its performance contract covering the period 2018-2021. This multi-year agreement confirms LIST's growing leadership in three thematic areas: environmental research and innovation, development of innovative IT solutions, and cutting-edge research on advanced materials.

The continuation of strategic partnerships

In that respect, LIST continued its collaboration with Goodyear Tire and Rubber Company on sustainable mobility and the materials of the future. This partnership has already given birth to some first promising innovations. 2018 was also marked by the deepening of a strategic partnership signed in 2017 with the lunar exploration company ispace Europe, aiming specifically at the detection and analysis of lunar resources through LIST-developed technology.

New industrial partnerships

Furthermore, LIST entered into new international industrial partnerships throughout the year: with STMicroelectronics on thin-film technologies for intelligent systems, with Intel on low-power magneto-electric materials, and XNERGI on 3D micro-batteries. LIST also brings its expertise and know-how to MET-LUX to develop new transparent flexible packaging with very low gas permeability.

At the national level, collaborations have started with Arcelor and Ceratizit in the Data Analytics field, as well as with Paul Wurth and Luxair in the field of digital transformation of organisations and with Polygone to solve waste transformation issues. In 2018, LIST also supplied the first functional micro-turbines for the valves of Rotarex.

At the service of public bodies

At a more institutional level, new know-how has been developed. With its high-resolution flood maps, generated through patented algorithms, LIST has helped disaster authorities and international organisations around the world respond effectively in times of crisis. Similarly, LIST also processes satellite-based imagery to better monitor and understand what is happening on the earth's surface. These competencies have led to the signing of a cooperation agreement with the Defence Directorate in the field of data processing. Finally, the "GDPR Compliance Support Tool" created by LIST for the National Commission for Data Protection received the special "GDPR Initiative of the Year" award at the Information Security Awards 2018.

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Marketing of a tool developed at LIST

Lastly, and in accordance with its mission of transferring innovation for the benefit of the local industry, LIST worked until February 2018 on the development of its latest spin-off Luxembourg Ion Optical Nano-Systems sarl, which commercializes the VECTOR500 SIMS, a unique tool for high-resolution, high sensitivity correlative microscopy developed at LIST's laboratories. The research team that developed this technology received an "Outstanding Research-Driven Innovation Award" at the 2018 FNR Awards.

Key figures

In 2018, LIST took part in a total of 284 RDI projects and contracts:

- 110 national competitive projects
- 23 European competitive projects
- 1 international competitive project (non-EU)
- 101 collaborative projects and similar
- 36 large-scale service contracts
- 13 projects supported by various European funds.

LIST researchers, our greatest asset, published in 2018 223 scientific papers in the international top 25% of their respective category.

To discover the 2018 highlights, reports and achievements by field of application and by research department, please check the 2018 LIST Annual Report available in French and English here:

<https://www.list.lu/en/media-centre/downloads/>

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