

THE MONTHLY LIST

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LIST SHIFTS LUXEMBOURG'S CIRCULAR ECONOMY AMBITIONS INTO HIGHER GEAR

For the first time ever, LIST and the Ministry of the Economy presented a stand dedicated entirely to the circular economy in Luxembourg at the OekoFoire 2016 trade fair. Around a hundred guests, including five high-ranking government representatives, attended the official opening of this initiative supported by the Ministry of Sustainable Development and Infrastructure. This success further accentuates that the path chosen by LIST, consisting in applying new information technologies to its different areas of research in a systematic way and in accordance with the principles of circularity and environmental impact reduction, is in accordance with the national strategy.

Photo: from left to right: Carole Dieschbourg (Minister of the Environment, Ministry of the Environment), Francine Closener (Secretary of State for the Economy, Ministry of Economy), Lucien Hoffmann (Director of ERIN, Luxembourg Institute of Science & Technology)

On 23, 24 and 25 September 2016, the Luxembourg Institute of Science and Technology (LIST) and the Ministry of the Economy presented a stand dedicated entirely to the circular economy in Luxembourg at the OekoFoire trade fair, as part of an initiative supported by the Ministry of Sustainable Development and Infrastructure. Among 180 international exhibitors at the trade fair, held in the halls of the Luxexpo exhibition centre, experts from LIST and their counterparts from the Ministry presented the principles of the circular economy, particularly biological and technological cycles, while also giving the trade fair's 10,000 visitors the opportunity to find out about the national initiatives relating to this topic.

For their stand, the highlight was indisputably its official opening on Friday 23 September at 5 pm. Francine Closener, Secretary of State for the Economy, Gabriel Crean, then CEO of LIST, and Lucien Hoffmann, Director of LIST's Department of Environmental Research and Innovation (ERIN), each appeared in turn before around a hundred hand-picked guests. Among the latter, the Deputy Prime Minister and Minister of the Economy, Etienne Schneider, the Minister of Research, Marc Hansen, the Minister of the Environment, Carole Dieschbourg, and the Secretary of State for Sustainable Development and Infrastructure, Camille Gira, attended their speeches.

LIST, a driving force for the national circular economy

The circular economy, a form of collective intelligence that essentially involves rethinking on a global scale, backed up by ICT and Big Data analysis as the Key Enabling Technology, forming a sort of adhesive linking the different research areas, lies at the heart of LIST's activities. Indeed, LIST endeavours to apply new information technologies to its different areas of research in a continued and systematic way, all in accordance with the principles of circularity and environmental impact reduction. This will allow LIST to develop truly intelligent technologies that meet the economic and social challenges of our time. More specifically, LIST is tackling the challenges of Smart Cities, Smart Manufacturing, Smart Finance and Smart Space. These large-scale challenges correspond to LIST's four major multidisciplinary research programmes which not only guarantee the described link between its different departments but also unite almost all its research activities.

OTHER HIGHLIGHTS



Environment

FONDATION ENOVOS AND LIST DEVELOP ENERGY DECISION MAKING TOOL FOR “SMART CITIES”

On 13 September 2016, LIST and the Fondation Enovos presented the promising results of a research project focusing on photovoltaic energy. The PV Forecast project has successfully developed a model capable of predicting regional energy production of photovoltaic systems for the next 72 hours. The two partners also presented SEcURE, a new follow-up project due to the fruitful collaboration. Based on the Smart energy cities concept, SEcURE will focus on the implementation of a platform to help municipalities of Luxembourg and the Greater Region to accelerate the penetration of the production of photovoltaic energy, increase energy efficiency measures for buildings and promote the use of biomass of agricultural origin for the production of renewable heat. [Learn more on www.list.lu](http://www.list.lu)

Industry

LIST HELPS PM INTERNATIONAL DESIGN BETTER PRODUCTS

LIST recently signed a cooperation agreement with health and beauty product leader PM International AG. The new partners will collaborate on innovative bio-based supplements for health, fitness, wellness and beauty product lines. For the five coming years, LIST will not only carry out research projects with PM International AG, but will also support it in the creation of a corporate research and development center in Luxembourg. LIST and PM International AG will therefore extend the scope of their collaboration in order to establish a joint infrastructure, and eventually joint labs for operations and investments in the area of the extraction and processing of plant-based molecules.

[Learn more on www.list.lu](http://www.list.lu)



Luxembourg

ADEM AND LIST RETRAINING JOB SEEKERS IN CHANGED JOB MARKET

LIST, in collaboration with the *Agence pour le développement de l'emploi* (ADEM) and the *Centre National de Formation Professionnelle Continue* (CNFPC) launches the 6th edition of a training programme dedicated to logistics jobs. Named QUALILOG, this 12-week programme is specifically designed for jobs seekers interested in joining the logistics sector and willing to enhance their knowledge and skills in the field. In order for logistics companies to have a better insight into the qualities of the candidates and immediately detect those comfortable with logistics, LIST experts have carried out both the programme teaching engineering and making pedagogical recommendations. QUALILOG is a proven success with 75% of the participants having found a job after its completion.

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International

LIST RESULTS PUBLISHED IN LEADING SCIENTIFIC JOURNAL

The notable output of a study performed by a LIST guest researcher Ingrid Miller from the University of Veterinary Medicine, Vienna, has been published in the September 2016 issue of *Toxicology Research*. During her research stay at LIST, Ingrid Miller benefited in particular from LIST Environmental Research and Technology Platform's high-end technology to perform the relevant analyses. Co-promoted by LIST researchers, her PhD thesis has found that studying only one sex (male or females animals) may produce wrong answers about the hazard of a compound. Ingrid Miller's outstanding results have also been published in 4 other peer-reviewed articles. [Learn more on www.rsc.org](http://www.rsc.org)



WHERE INNOVATIONS BEGINS

Located at the heart of Belval's Research & Innovation Campus, LIST can ideally connect its over 500 specialists in materials, environment and IT, including its more than 70 PhD students, through a broad range of joint projects, programmes and partnerships with virtually all of Luxembourg's other major research players. At Belval, the University of Luxembourg, LIH, LISER, Technoport, Luxinnovation and the National Research Fund are all literally within arm's reach.



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