Press release

SystemX establishes itself in Singapore and Lyon

In line with its 2020 strategic plan to expand its R&D capability in France and internationally, the Institute for Technological Research (IRT) SystemX plans to forge new public-private partnerships with a view to working on new use cases in these two centres of innovation. François-Xavier Lannuzel heads up the Singapore office while The Lyon facility is led by Lionel Scremin.

Palaiseau, 28 September 2017 – The IRT SystemX, a key player in partner-based research and open innovation in France working on digital engineering of complex systems, has opened a representative office in Singapore and a research facility in Lyon in line with its 2020 strategic plan.

Since it was established four years ago, the SystemX facility in Paris-Saclay has conducted 31 multi-partner research projects and four European projects, involving 200 full-time equivalent employees, 75 industrial partners (large companies, SMEs and startups) and 21 university laboratories. The next step for the IRT is to extend the reach of its applied research activities by co-locating with key stakeholders in territories outside Paris Region.

SystemX opens an international office in Singapore
The opening of SystemX's office in Singapore follows on from the memorandum of understanding (MoU) signed between Nanyang Technological University (NTU) in Singapore and the IRT during the French President's state visit to Singapore in March 2017.
SystemX is starting off its activities in Singapore by participating in the CETRAN (Centre of Excellence for Testing and Research of Autonomous Vehicles) project. The aim of this five-year applied research project spearheaded by the Energy Research Institute @ NTU (ERI@N) is to determine the conditions for the safe operation of autonomous vehicles in Singapore. It encompasses activities related to digital modelling and simulation of operational safety and digital security applied to autonomous modes of transport. SystemX will work on areas in which it has particular expertise, developed through its projects [SVA (Simulation of Autonomous Vehicle Safety)](), [CTI (Cybersecurity for Intelligent Transport)]() and [ISE (Intelligent Transport Systems Security)]().

SystemX chooses the La Doua campus in Villeurbanne for its Lyon facility
Housing the Université Claude Bernard Lyon 1, three engineering schools (INSA Lyon, Polytech Lyon and CPE Lyon) and several university institutes of technology (IUTs), La Doua is one of the region's leading research sites with almost 2,000 researchers based there.
SystemX will focus on key digital technology themes for the benefit of the entire Auvergne-Rhône-Alpes region. Beyond the La Doua campus, SystemX will form research partnerships with the scientific centres of Grenoble and Clermont-Ferrand, working with the region's research clusters focused on digital technologies compatible with the activities of SystemX, such as Minalogic and LUTB-RAAC.
The IRT's first project will focus on smart territories in connection with Greater Lyon's Smart City initiative. The aim is to develop decision-aid tools that harness the potential of urban data.

The IRT's objectives in setting up these new facilities are to:
- Work in synergy with the territories that represent new testing grounds for digital innovation
- Develop and enhance the IRT's assets for the benefit of its industrial and academic partners
- Forge new industrial and academic partnerships
- Increase the IRT's attractiveness outside Paris Region, providing its engineers and researchers with new opportunities to develop their scientific and technological excellence.

"*In four years, SystemX has demonstrated its ability to respond to the challenges presented by the digital transformation through a flexible, open, partner-based approach to applied research. Now it is time for us, in accordance with our 2016-2020 roadmap, to embark on a new phase in our growth, with these two new facilities in Lyon and Singapore. We are keen to make our platforms and capabilities available to more academic and industrial partners, and bring our expertise to bear on innovative new use cases. We are proud to be joining the ecosystems of Greater Lyon and the City-State of Singapore, two territories at the cutting edge of digital innovation*", says François Stephan, Deputy CEO – International & Development at SystemX.

François-Xavier Lannuzel, Head of the SystemX office in Singapore

François-Xavier Lannuzel is a chemical engineer with a PhD in materials science. A graduate of the ENSCR chemical engineering school in Rennes, he did his PhD at the Institut des Matériaux Jean Rouxel CNRS in Nantes. He then worked as an R&D project manager in industry, at the interface between university laboratories and SMEs. From 2004 to 2011, he was Technology Transfer Officer and later Technology Transfer and Research Support Head at the Université de Bretagne-Sud. From 2011 to 2015, he was Science and Technology Attaché at the French Embassy in Norway, after which he held a similar position at the French Embassy in Singapore from 2015 to 2017. He took the helm of the new SystemX office in Singapore on 1 September 2017.

Lionel Scremin, Managing Director of the SystemX facility in Lyon

After graduating from Supélec with a degree in electronic engineering, Lionel Scremin spent the first fifteen years of his career with the Alstom group in North America. He held various systems engineering and product management positions, managing the delivery and implementation of high-tech digital solutions for telecoms, multimedia and security, transport and infrastructure systems. He broadened his expertise by obtaining a Master's in Applied Sciences and an MBA from the University of Montreal. He joined the IRT SystemX in 2013 to manage an applied research project in multimodal transport, combining his interests in innovation and management. Since 2017, he has been managing the development of SystemX's activities in Lyon.

About IRT SystemX

Based at the Paris-Saclay campus, the IRT SystemX is positioned as a digital transformation accelerator. Its research projects focused on digital engineering of complex systems deal with the scientific and technological issues faced by various sectors of industry, including transport and mobility, energy, digital security and telecoms. They address the challenges that manufacturers encounter in the design, modelling, simulation and testing of tomorrow's products and services, which increasingly incorporate digital technology.

The IRT's 2016-2020 roadmap is centred on four programmes: agile industry, autonomous transport, smart territories and the internet of trust. Today, SystemX is engaged in 31 projects involving 75 industrial partners (large companies, SMEs and startups) and 21 university laboratories, occupying a total of 260 people including 120 direct employees.

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