SystemX intensifies its open innovation momentum
by increasing its contributions to the open source community

Palaiseau, 28 June 2023 – The RTO SystemX (*Institut de recherche technologique* – IRT) dedicated to the digital engineering of the systems of the future, aims to become an important player of open source. Every year, along with industrial and academic partners, the teams of the institute develop a vast number of technological assets (software, datasets, etc.) within the framework of research projects and programmes. By opening the source codes of some of its assets, in line with its role as accelerator of digital transformation, SystemX aims for a wider dissemination of the results of their works towards the socio-economic world.

"From the onset, SystemX has offered a place of innovation open to all its partners because we believe in collective intelligence. The development of an open source strategy is thus perfectly in line with our approach and values. Open source also has a prominent role in scientific research. At the foundation of critical software and key scientific projects, it has become a decisive element in the processes of innovation led by digital businesses," underlines Paul Labrogère, Director General of IRT SystemX.

The drive of the institute to multiply the transition of its technological assets to open source is in line with several objectives:
- **Generate a lever effect** on its assets to enrich them and strengthen them further by mobilising various communities, including the scientific community;
- **Simplify the mutualisation and re-use of its assets** in the institute's projects and by its partners;
- **Streamline their adoption by the industrial world** and accelerate the digital transformation of key fields;
- **Boost the emergence of new opportunities,** namely in the area of training or even consultancy services.

Here are some of the technological assets already available in open source, originating from R&D research carried out within the institute:
- DebiAI: a bias detection and contextual assessment tool for AI models, aimed at data scientists. It is namely used by different partners within the framework of the Confiance.ai programme;
- FRSign: a unique dataset including over 100,000 real images illustrating the different classes of French railway traffic lights and their combination of colours, including all associated manual qualifications;
- OpenPisco: a topological optimisation platform steered by the level set method.

All the assets of the institutes that can contribute to the world of open source are available at https://github.com/IRT-SystemX

About IRT SystemX - www.irt-systemx.fr

SystemX, a French Institute for Technological Research (IRT), specialises in digital systems engineering. It provides expertise in analysis, modelling processes, and decision-making simulations of complex systems. SystemX coordinates partnered research projects, and promotes work relations between academia and industry, and across disciplines and fields. This means jointly tackling technological and scientific challenges in five top IT industries: autonomous transport and mobility, industries of the future, defence and security, environment and sustainable development, and health and digital. Through use-case projects, SystemX research engineers address major societal and technological challenges in order to accelerate the digital transformation of industries, services and territories. Since its creation in 2012, SystemX has launched 62 research projects (38 of which are ongoing), as part of the Paris-Saclay research and university cluster, which is driving the revival of French and European industries. These projects involve over 100 industrial partners and 55 academic laboratories, 181 full-time employees (ETP schemes) and 134 individuals who rely on their own resources. SystemX also has project teams in Lyon and Singapore.

For more information: www.irt-systemx.fr/en | @IRTSystemX | LinkedIn | YouTube

Press contact
Marion Molina
Teel. 06 29 11 52 08
Email: marionmolinapro@gmail.com