

# INNOVATION TOUR

SPRING - May 21, 2021

Welcome to the Innovation Tour organized by **CEA List** and **Systematic Paris-Region**, members of DigiHall. In just half a day, we offer you a sweeping panorama of digital technologies for the industry and a techshow dedicated to advanced manufacturing, based on CEA-List's innovation spaces and the presentation of two of its startups.

## Techshow

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- **Interactive Simulation Platform:** A R&D platform accessible to CEA List's academic and industrial partners, to break down technological barriers, and create or validate new concepts using virtual and mixed reality.
- **Interactive Robotics Platform:** This R&D platform aims to develop collaborative robotics, cobotics and teleoperation technologies, including exoskeletons, dextral manipulation, mobile robotics or industrial process automation.
- **Technology Showroom:** A place of open innovation presenting the digital technology demonstrators of DigiHall members through an immersive experience.
- **Isybot Startup:** Isybot designs collaborative robots with unique mechanical qualities, bringing competitiveness and attractiveness to manual operations considered non-automatable.
- **Tridimeo Startup:** Tridimeo offers manufacturers a reliable robotic guidance solution through innovative solutions such as the multispectral 3D camera or the Apertis vision software.

These moments of discovery will allow you to **share and interact** with all your contacts on the challenges of the industry of tomorrow.

## Program

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**09:00 a.m. - 09.15 a.m.:** Introduction by **Soumaya Rouwane**, Industry & Services Challenge Coordinator at Systematic and **Mounir Bakkali**, Head of Industrial Partnerships at CEA-List

**09.15 - 12:15 p.m.:** Tour of the following areas in two groups:

- CEA List's Interactive Simulation Platform
- CEA List's SMART Interactive Robotics Platform
- DigiHall Showroom Startups Isybot and Tridimeo

**12:15 p.m. - 12:30 p.m.:** Q/A and end of the Innovation Tour

## The startups

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### Isybot

At the heart of the industry of the future, ISYBOT designs collaborative robots resulting from CEA research.

Thanks to its unique mechanical qualities, ISYBOT brings competitiveness and attractiveness to manual operations considered non-automatable.

Without modifying the working environment, our interactive COBOTS improve productivity while reducing operator fatigue.

Agile automation is modernizing the current scenario through:

1. Adaptability to the existing workstation;
2. Speed of integration and learning;
3. Parallelization of tasks: Time Gain cycle;
4. Connectivity to the company's ERP / MES network;
5. COBOT's mobility between workstations.

Without specific training, operators can become COBOT Operators, while retaining their profession. They integrate and optimize the use of the COBOT by enhancing their know-how. ISYBOT meets the need for flexibility and increased production at an acceptable cost.

### **Tridimeo**

Tridimeo is revolutionizing vision with complete and innovative solutions: multispectral 3D cameras + Apertis vision software. The combination of spectrally coded light technology and the simplicity of Apertis software with unparalleled performance algorithms ensures the reliability of production lines in robotic guidance and quality control processes. Thus, bin picking, palletizing/depalletizing, picking, kitting, assembly and other robotic processes are carried out 3 to 10 times faster with an accuracy just as good for black and reflective parts. Moreover, ambient light correction ensures repeatability and reliability under all conditions.

Tridimeo, a key player in the digital transformation of factories, has successfully met the needs of various sectors: automotive, foundry & forging, plastics, food, cosmetics, medical, etc.

## **The organizers**

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### **DIGIHALL**

DIGIHALL is the excellence cluster for digital technologies at Paris-Saclay. Dedicated to artificial intelligence, cybersecurity, digital infrastructures, quantum computing and the industry of the future, DIGIHALL brings together in an iconic location the major stakeholders in scientific and technological research on digital technology in Paris-Saclay: CEA, Inria, Paris-Region Systematic Cluster, IRT SystemX, University of Paris-Saclay, Institut Polytechnique de Paris, with the support of the Île-de-France region. Its 1,500 researchers offer DIGIHALL partners unique access to their expertise and resources of excellence, but also to creativity and design mechanisms through Open Innovation @Paris-Saclay. Guided by this transdisciplinary and multi-partner vision, DIGIHALL aims to become the catalyst for a strong and competitive digital industry, at the forefront of societal and economic issues.

### **CEA-List**

CEA-List, the CEA institute dedicated to smart digital systems, contributes to the industrial competitiveness of its partners through innovation and technology transfer. Its R&D programs focus on artificial intelligence, advanced manufacturing, cyber-physical systems, computing, especially quantum computing, and digital health.

The 900 engineer-researchers and technicians at CEA-List put their expertise at the service of major socio-economic issues by offering human-centric technological innovations with high added value, while promoting values of social and environmental responsibility. The quality of its partnership research has earned the List the Institut Carnot certification in 2020 for the fourth time in a row.

**For more information:** [www-list.cea.fr](http://www-list.cea.fr) | [@CEA\\_List](#) | [LinkedIn](#) | [YouTube](#).

[Read our 2020 activity report!](#)

### **Systematic Paris-Region**

Systematic Paris-Region, a global competitiveness cluster, brings together and manages an ecosystem of excellence with 900 members, dedicated to Deep Tech (Open Source, Digital Trust, Digital Infrastructure and IoT, Digital Engineering, Data Science & AI, Photonics). Systematic thus addresses 3 major economic and societal challenges: the digital transformation of the regions, that of industry and services as well as that of society.

The Cluster accelerates digital projects through collaborative innovation, the development of SMEs, networking, and business sourcing in sectors that have a bright future: energy, telecoms, health, transport, information systems, factories of the future, digital cities, and security. The Cluster is also tasked with promoting its members, its region and its innovation projects in order to become better known and to develop the region's appeal. The actions of Systematic Paris-Region are supported by the State and the Île-de-France region in particular.

**Systematic in a few figures:**

€3.18 billion for R&D

625 innovation projects

More than 620 products and services resulting from collaborative R&D

To know more: <https://systematic-paris-region.org/fr/> | [@Pole\\_Systematic](#) | [LinkedIn](#) | [YouTube](#)

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