



This project is co-financed by the European Union  
and the Republic of Türkiye



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ORGANIZATION: **LEITAT Technological Center**

WORKSHOP NAME: ***Twin Green and Digital Transition of Industry***

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## Description of the Organisation

Founded in **1906**, **LEITAT** is a non-profit organisation, known as an **international leader** and the **oldest technological centre** in Europe



Terrassa (headquarters)

**LEiTAT**  
managing technologies

<i>Income in 2024</i>	<i>European projects</i>	<i>National projects</i>	<i>Industrial R&amp;D projects</i>
<b>€47M</b>	<b>+300</b>	<b>+700</b>	<b>+3400</b>

**Third-largest Spanish technological center** in terms of revenue and private turnover, as well as in securing **European projects**

Multidisciplinary team of **400+ professionals** with **know-how** and experience in various areas of knowledge, specialising in **technology transfer**

## 5 Areas of Knowledge



### CIRCULAR ECONOMY & DECARBONISATION



### HEALTH & BIOMEDICINE



### APPLIED CHEMISTRY & MATERIALS



### DIGITAL INDUSTRY



### ADVANCED TECHNOLOGICAL SERVICES

■ **LEITAT** collaborates with companies and institutions to address their challenges or projects in a highly competitive, globalized and constantly evolving environment



### R&D PROJECTS UNIQUE INITIATIVES



### LABORATORY TESTING AND CERTIFICATION

■ Offering **suitable and sustainable** solutions for each sector



## Our research fields – Digital Industry Area

- **Digital manufacturing:**

- *Design and engineering of advanced additive manufacturing applications*
- *Development of innovative materials and processes*
- *Post-processing strategies and 3D component functionalization*
- *Development of new robotic technologies and processes*



- **Connectivity and Information:**

- *Development and application of new IoT device connectivity protocols*
- *Security and embedded intelligence in devices*
- *System interoperability and heterogeneous data integration*
- *Applied AI and software engineering*



- **Advanced Data and Sensors:**

- *Development, testing, and validation of industrial, health, and environmental monitoring sensors*
- *Development of microfluidic devices and diagnostics*
- *Development of photonic systems and advanced vision technologies*



- **Intelligent Product Development:**

- *Product design and engineering*
- *System testing, experimentation and validation of target applications*
- *Support and guidance to industrialization*



## Our on-going European Projects



*Recycling technologies for circular  
Aluminium*



*Gen. 4b Solid State Li-ion battery by  
additive manufacturing*



*Battery Material Characterisation and Digital  
Twins for Cell to Pack Performance in Agile  
Manufacturing Pilot Lines and Automotive Field*



*Alternative processes and equipment for  
advanced manufacturing of PV technologies to  
boost the european energy independence*



*Recycling of end of life battery packs for  
domestic raw material supply chains and  
enhanced circular economy*



*Electronic Components and Systems for  
flexible, coordinated and resilient  
Distributed Renewable Energy Systems*

## Project Cooperation

*Draft version*

**Call Topic: HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-11:**  
*Enhanced logistics and operations of construction sites (IA)*



**Deadline Dates: 23 Sep 2025**

**Expected Outcomes:**

- *Reduce the time needed to carry out site operations in construction or demolition*
- *Increase on-site circular approaches like re-use and recycling, reducing waste and improving waste management*
- *Improve health and safety of construction workers*

**Scope:**

- *Develop technologies to enhance efficiency, speed, and safety, ensuring interoperability with Digital Twins and BIM*
- *Improve traceability and apply circular economy strategies for waste reduction and management*
- *Reduce errors, boost resilience, and address SSH and human-centric aspects for market adoption*

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Early-stage idea

➤ **LEITAT's contributions (as partner):**

- Development of AI-driven algorithms for transport synchronization, optimizing Estimated Time of Arrival (ETA) calculations to ensure proper timing for material deliveries.
- Creation of interoperable data-sharing environments enabling seamless information exchange between suppliers, logistics providers and on-site operators.
- Use of AI-powered computer vision for personal protective equipment (PPE) compliance and adaptive PPE design on construction sites



# THANK YOU!

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LEITAT Technological Center

SPAIN

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