

# Łukasiewicz-PIAP - Industrial Research Institute for Automation & Measurements



## Field of expertise:

Robotics & Automation for: Manufacture as a Service (MAAS) - **personalization** of the manufactured products, **E-Waste Circularity**, DT, Flexible, **Bio-**

## Field of expertise:

**based** & On-Site **3D construction printing** for building renovation and fabrication, **specialized grippers for industrial robots**, Foresight

## Addressed topic(s):

HORIZON-CL5-2026-09-D4-01: Researching the technical, social & economic factors impacting the energy performance of Smart Buildings (Built4People Partnership)

HORIZON-CL5-2026-09-D4-02: Low disturbance prefabrication approaches for deep renovation of multi-storey buildings (Built4People Partnership)

HORIZON-CL5-2026-09-D4-03: Advanced data platforms to integrate whole life carbon in building information tools, assessments, and certification (Built4People Partnership)

HORIZON-CL5-2026-09-D4-04: Validating policies and business models for affordable and sustainable housing (Built4People Partnership)

HORIZON-CL5-2027-05-D4-05 On-site robotic and automated techniques for building renovation and new construction



# Łukasiewicz-PIAP

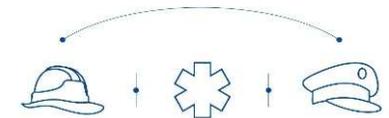


**RTO**, system integrator, **mobile robots producer/integrator**, 300 workers.

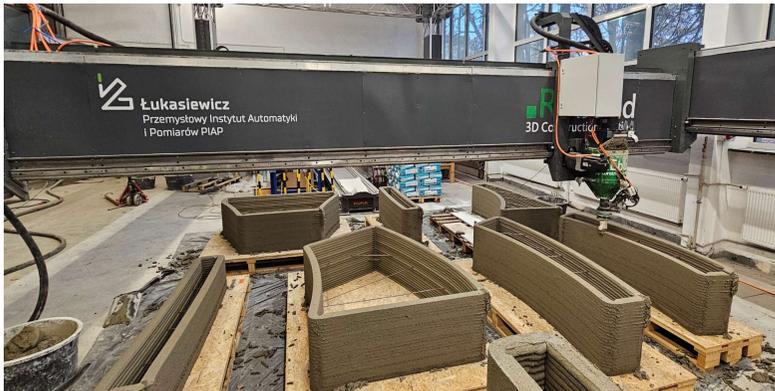
Technology Centre: AI, Robotics, Automation, CPS, IoT, Edge computing

**3D Scanning/Printing/Fast delivery of spare parts**

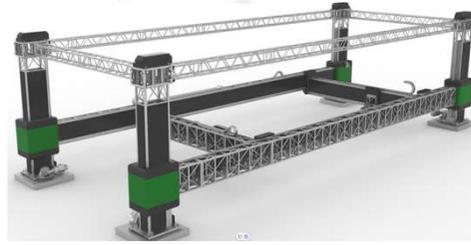
Digital Innovation HUB. **ADRA**, **INSIDE** member.  
EIT-ManufacturingHub Poland



assistance

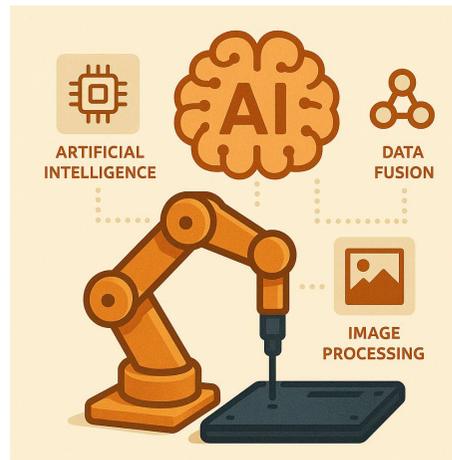


# Our project idea / expertise



## USE CASES:

- **smart manufacturing in 3D printing (MasS)** – printing to metal (robotized), large scale printing to concret, Continuous glass/carbon fiber reinforcement, Insulation retrofits (**bio-based with conopy**)
- **intralogistics with our AMR/AGV** - cloud based real-time data acquisition from AMR and **AI based data analysis on inventory, operations**, and other relevant factors, providing valuable insights for decision-making to enhance Flexibility and Adaptability
- **remanufacturing & circularity** – **AI based Robotized repair and circular valorisation of laptops and electronic devices**. Implementation of AI-supported models for elements of laptops, image recognition and identification. **Machine learning algorithms** covering convolutional neural networks (**CNN, e.g., YOLO - You Only Look Once**) and Deep Neural Networks (**DNNs**), including attention mechanisms



# Contact details



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<b>Contact person</b>	<b>Jan Piwiński</b>
Organisation	Łukasiewicz-PIAP
Country	POLAND
E-mail	jan.piwinski@piap.lukasiewicz.gov.pl
B2Match profile	<a href="https://www.b2match.com/e/kets-2026/participants/3296229">https://www.b2match.com/e/kets-2026/participants/3296229</a>
LinkedIn	<a href="https://www.linkedin.com/in/jan-piwi%C5%84ski-2a17942a2/">https://www.linkedin.com/in/jan-piwi%C5%84ski-2a17942a2/</a>