

# Pitching session



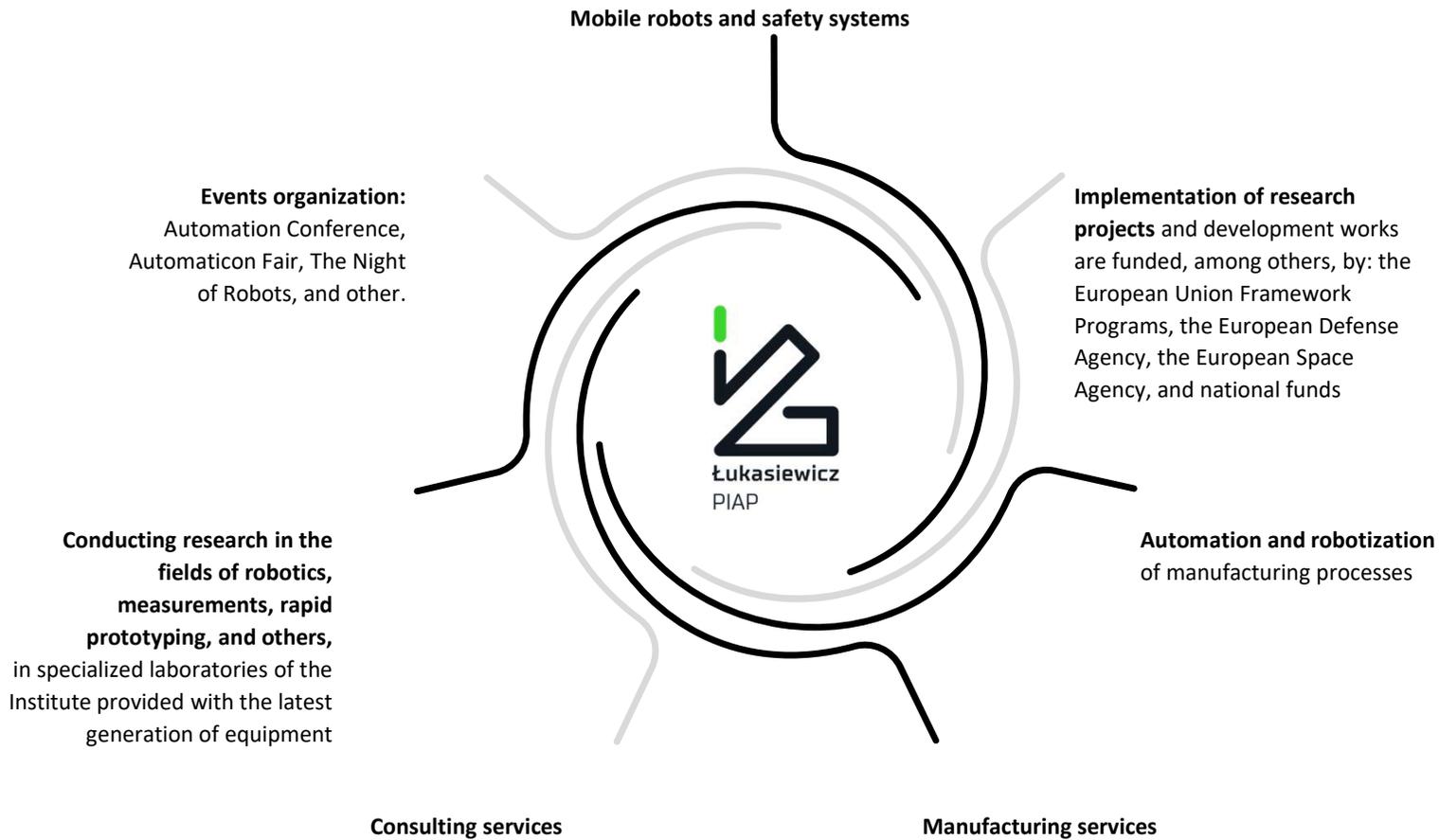
## Jan Piwiński

Industrial Research Institute for Automation  
and Measurements PIAP

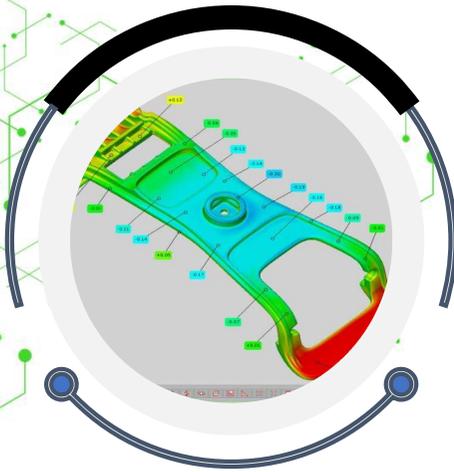


# Łukasiewicz - PIAP

## Areas of activity

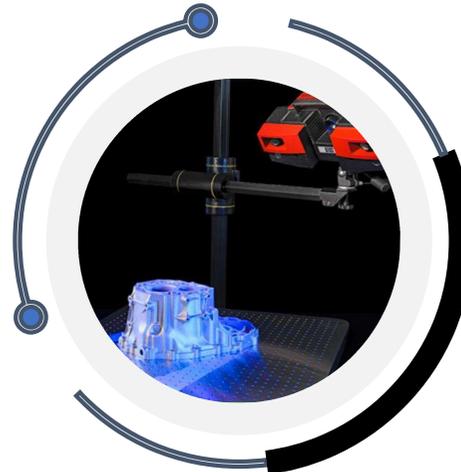


# Offer for industries



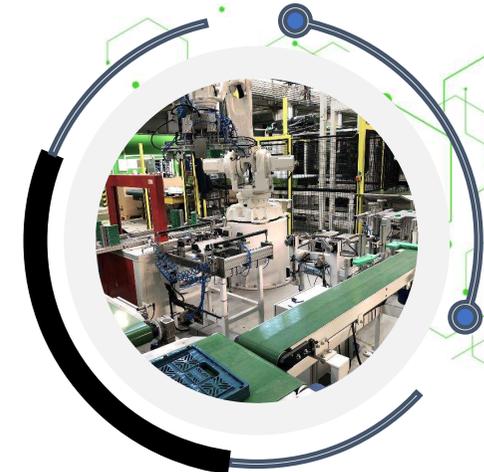
## **3D Scanning**

ultra-fast reproduction  
of worn components



## **3D Printing**

manufacturing spare  
parts made of heavy-  
duty bio-compatible  
materials



## **Fast delivery of spare parts**

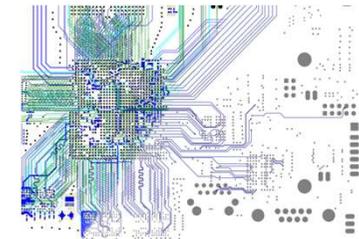
conveyors, feeders,  
process lines,  
instruments

# Reserach in Space, Industry, local ecosystem



## Digital Innovation

- Supporting SMEs
- More automation
  - AI
  - Robots
  - Agile solutions
- Big data, Cloud services, Apps
- IoT, Edge computing
  - Cyber-physical systems



# Research interest

**Remanufacturing** of both components and products towards full circularity:

- Production lines upgrade with **advanced machinery, robots**, etc.
- **Additive manufacturing** for remanufacturing

**Manufacture as a Service (MAAS)** - **Sustainable and Agile Manufacturing with AI control.**

**Circularity (recycling and recovery of materials)** - **Circular Economy** technology for efficient recovery of high-value materials by robotized disassembly of electronics waste.

Helping industry to respond to customers' demand for personalised products & services implementing **Smart specialization strategy**: National Smart Specialization “Automation and Robotics of technological processes”.

*We are looking for partners and Coordinators to the 2024 Calls.*

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