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**UNIVERSITY WEST**

**MADE IN EUROPE 2026**

**ONLINE PITCHING**



LET'S SHAPE THE FUTURE OF  
MANUFACTURING TOGETHER!

**23 June 2026**



- Located in the beautiful town of Trollhättan
- Situated close to Goteborg, Sweden's 2nd largest city

- ~700 employees
- ~14,000 students
- 27 undergraduate programs
- 17 second-cycle programs

University focus: Work-integrated learning and **Production Technology**

Campus



Production Technology Center PTC



## Production Environment

### 1. Mechanical Engineering

- Thermal spray (Shrikant Joshi)
- Welding and welding based Additive Manufacturing (Jörg Volpp)
- Powder bed fusion additive manufacturing (Thomas Hansson)
- Advanced non-destructive testing & evaluation (Håkan Wirdelius)

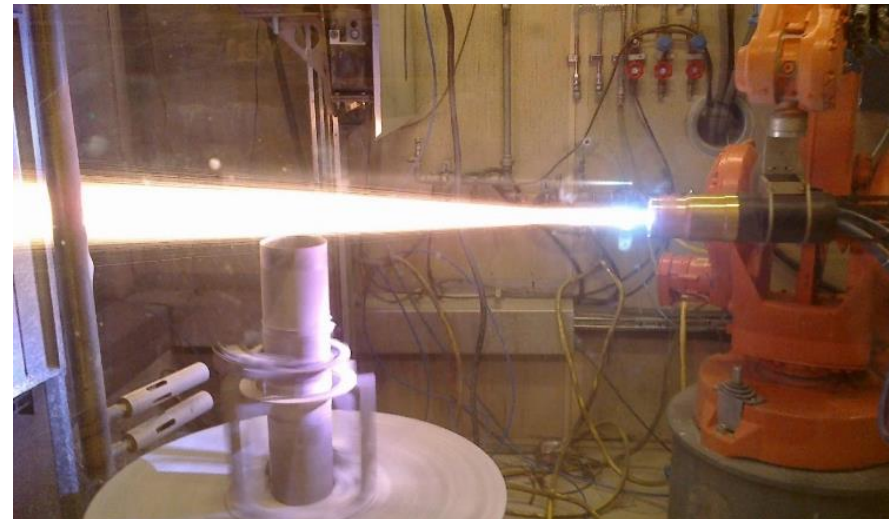
### 2. Industrial automation

- Flexible Automation (Fredrik Danielsson)

### 3. Industrial Engineering

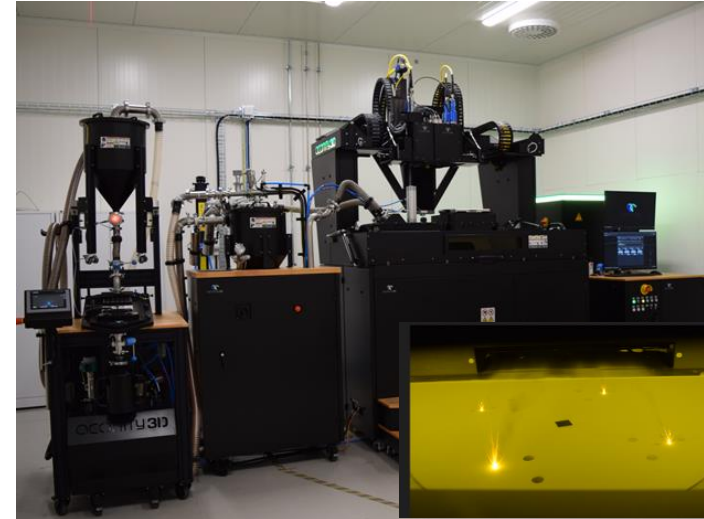
- Operations & supply chain management (Leif-Magnus Jensen)

## Production Environment Fields



### Thermal spray

- Repair, Remanufacture
- Thermal barrier barrier etc.
- Wear (abrasion, erosion, sliding)
- Corrosion (room temp, high temp)



### Powder bed fusion

- Process development
- Sensors and control
  - Post-processing
- Material properties

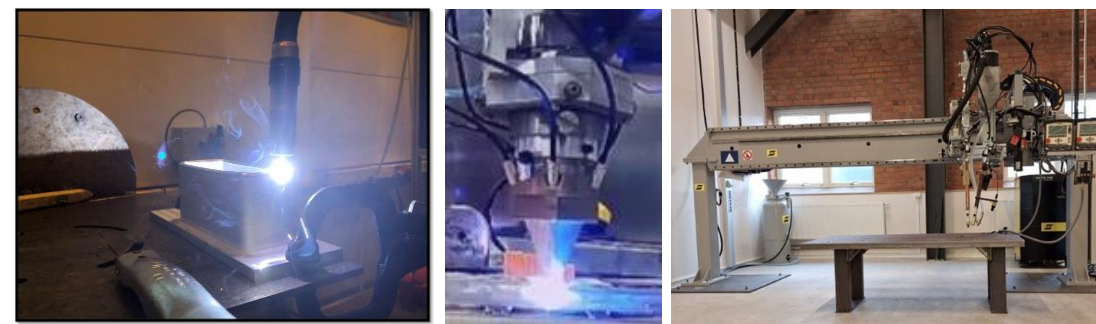


### Where Industry Meets Research

*Management Innovation · Operations · Supply Chain · Quality · Sustainability*

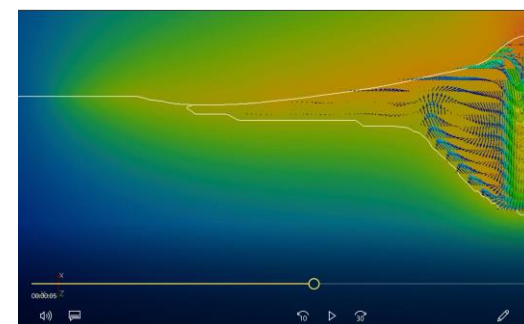
### Operations and Supply Chain management

- Human-centered automation, Information technology
- Industry 4.0 and 5.0 and Circular Economy
- Quality & Continuous Improvement
- Management Innovation & Leadership



### Welding-based additive manufacturing

- Process (laser, arc), powder and wire based
- Large scale repair and functionalization
- Monitoring and control
- Process simulation (CFD)

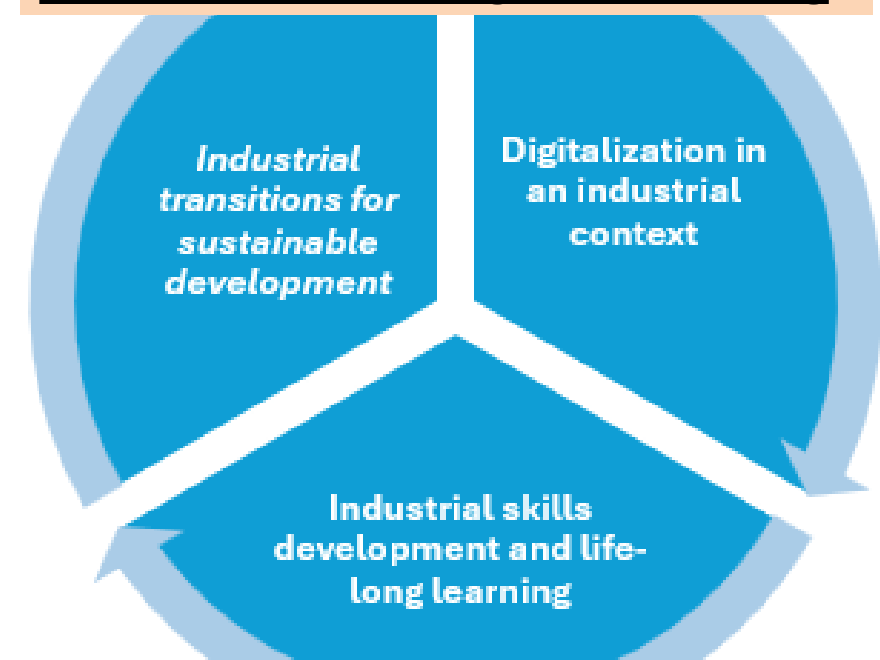


### Flexible automation

- Plug & Produce
- Smartness
- Circularity
- Human-Centric
- Flexibility



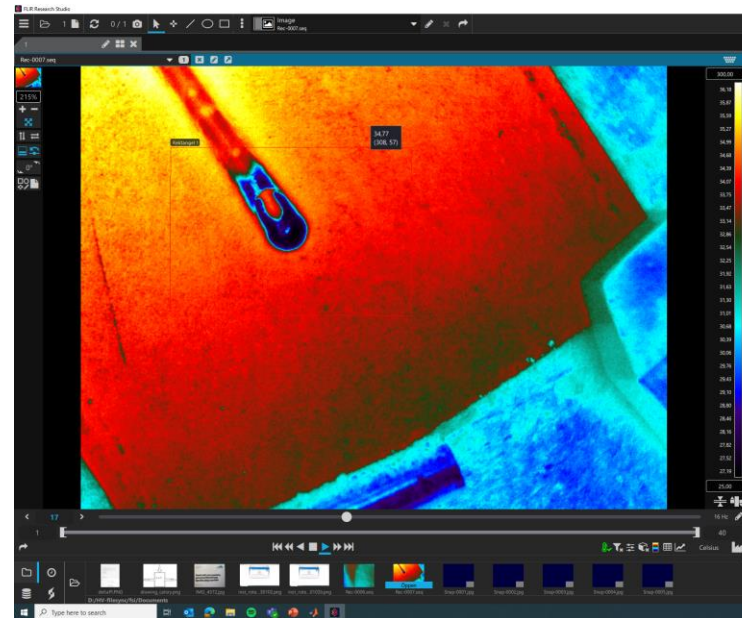
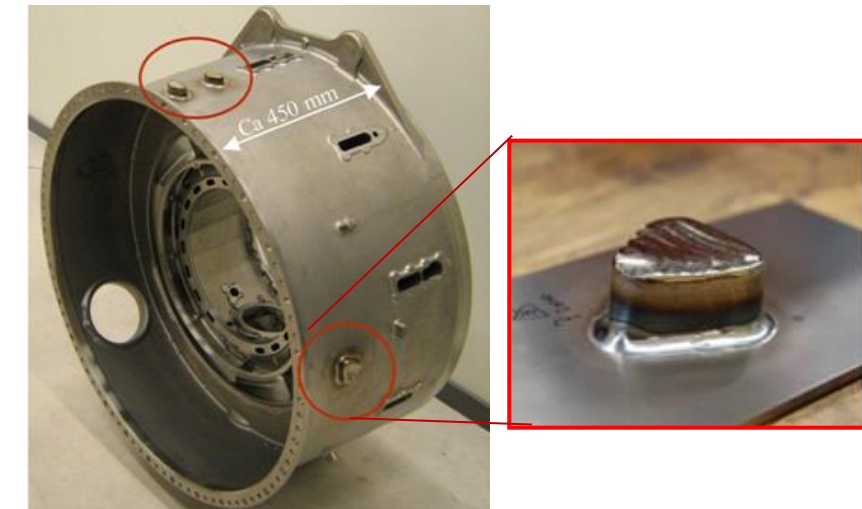
### Industrial work-integrated learning



## Factory processes and automation for de- and re-manufacturing (RIA) (Made in Europe partnership), HORIZON-CL4-2027-01-MAT-PROD-03

### What we offer

- Remanufacturing processes and their development (Coating, AM)
- In-operando process monitoring and quality control supported by Machine Learning
- Testing (e.g. Ultrasonic Testing for Robotic Inspection of Complex Components)
- Operational management aspects

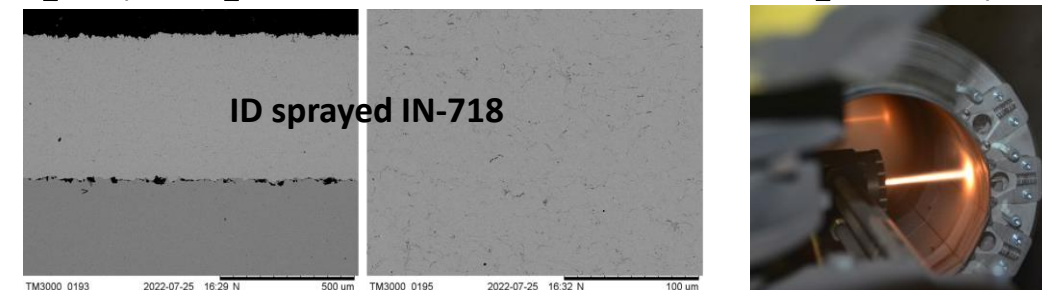


## Factory processes and automation for de- and re-manufacturing (RIA) (Made in Europe partnership), HORIZON-CL4-2027-01-MAT-PROD-03

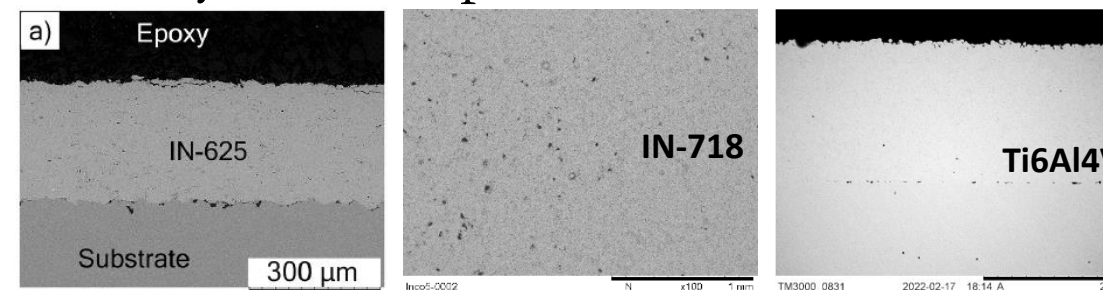
### What we offer

- Material analysis (e.g. thermal cycling, wear, corrosion)
- Surface and sub-surface characterization
- Pre-treatment / surface preparation
- Post-treatment / machining
- Human-centered automation
  - AI-driven decision support for remanufacturing procedures
  - Real-time data analysis
  - Automated inspection decision
  - Traceability, safety

- ✓ Repair of internal diameter surfaces via spray deposition of Ni-based superalloys



- ✓ Large and small area spray deposition of Ti alloys for component refurbishment



- ✓ Recycling of overspray powders for circularity



## Factory processes and automation for de- and re-manufacturing (RIA) (Made in Europe partnership), HORIZON-CL4-2027-01-MAT-PROD-03

### Our possible roles in the project

- Technology partner for sustainable, circular material use during (re-)manufacturing to retain, reuse, upgrade or adapt parts and components
- Machine Learning supported process control for reducing feedstock and part waste (first-time-right manufacturing)
- Material analysis (Gleeble, metallurgy, properties,...)
- Automation and operation planning
- Local re-manufacturing demonstration cases

→ WP leader 're-manufacturing'

→ Support in industrial partner search, (industrial) education and dissemination aspects

# THANK YOU

**Contact:**

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**Making re-manufacturing  
processes work**