Phoenix Learning Partners

UK learning partnerships for global employers.

HORIZON EUROPE / CLUSTER 4 / CONSORTIUM OPPORTUNITY

Human–AI-assisted de- and re-manufacturing

MAT-PROD-03 | Emerging project concept | Seeking partners

ACTION	INDICATIVE GRANT	EXPECTED MATURITY	DEADLINE
RIA / lump sum	€5–6.5m / project	TRL 4–5 to TRL 6	2 February 2027

THE OPPORTUNITY

Better recovery decisions, without unnecessary automation

We are exploring a factory-level research concept for **worn or returned industrial components**, such as pumps, gearboxes and production-line modules. The premise is to combine condition data with operator judgement and digital models to improve decisions on repair, reuse, remanufacture or recycling — and test when automation makes technical and economic sense. No pilot site is confirmed.

THREE CALL-ALIGNED RESEARCH DIRECTIONS

1. **Assess component condition**
   Multimodal sensor data, AI and human inputs to assess defects, recoverability and uncertainty.
2. **Use CAD and digital twins**
   Model-based component information to guide operators through appropriate recovery processes.
3. **Sequence operations adaptively**
   Condition-dependent disassembly and handling, with human–AI guidance and selective robotics.

PRIORITY PARTNERS SOUGHT

01 **Experienced coordinator**
University or RTO with a strong Horizon RIA track record and remanufacturing expertise.

02 **Remanufacturing operators**
Companies processing real returned components, able to define needs and explore demonstrations.

03 **Research and technology**
Multimodal sensing, AI, robotics, CAD/digital twins and adaptive process R&D.;

04 **Standards and circularity**
Safety, LCA, resource efficiency and industrial adoption capabilities.

PROPOSED PLP CONSORTIUM CONTRIBUTION

Industrial and end-user requirements; stakeholder and operator engagement; skills and adoption needs; market validation; **business case, exploitation strategy and replication pathways**. PLP is seeking an agreed research and innovation beneficiary role alongside appropriate technical and industrial partners.

CURRENT STATUS Design stage. Exploratory discussions only; no consortium, pilot or role commitments.

Concept outline for partner discovery, 30 October 2026. Scope, pilot access, tasks and budgets to be confirmed.

DISCUSS COORDINATION OR PARTNER FIT

Paul Nabosnyi | Founder & Managing Director

paul@phoenixlearningpartners.co.uk | phoenixlearningpartners.co.uk

OFFICIAL CALL

HORIZON-CL4-2027-01-MAT-PROD-03