

## Coordinator and Partner: Automotive Remanufacturing Project Focused on AI and Circularity (HORIZON-CL4-INDUSTRY-2025-01- TWIN-TRANSITION-01)

### Summary

Profile type

**Technology offer**

Company's country

**Türkiye**

POD reference

**TOTR20250707002**

Profile status

**PUBLISHED**

Type of partnership

**Research and development  
cooperation agreement**

Targeted countries

**• World**

Contact Person

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Term of validity

**7 Jul 2025****7 Jul 2026**

Last update

**7 Jul 2025**

### General Information

#### Short summary

A Tier-1 automotive supplier from Turkey specializing in cold stamping is seeking partners for a Horizon Europe proposal under the call HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01. The focus is on AI-powered traceability, advanced remanufacturing, and lifecycle assessment of automotive components. The company is looking for OEMs, upstream steelmakers, and a capable project coordinator to co-develop circular manufacturing solutions. Partners with expertise in sorting, disassembly, or material

#### Full description

A Tier-1 automotive supplier from Turkey, with extensive expertise in high-quality cold stamping, is seeking partners for a collaborative Horizon Europe project under the call HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated Approaches for Remanufacturing. The company focuses on precision parts manufacturing for the automotive industry and is committed to enhancing sustainability, efficiency, and innovation through circular production strategies.

#### Project Focus:

The company aims to contribute to the development and demonstration of integrated remanufacturing solutions by

focusing on the following areas:

**AI-Powered Traceability Systems:** Development and testing of AI-supported systems to track components throughout their lifecycle, enabling better sorting, recycling, and material recovery.

**Advanced Remanufacturing Techniques:** Pilot-scale implementation of hardware and process solutions to enable the reuse and refurbishment of automotive parts with improved sustainability.

**Life Cycle Assessment (LCA):** Use of LCA tools to assess end-of-life scenarios, guide process improvement, and support decision-making for sustainable automotive manufacturing.

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#### Advantages and innovations

Proven industrial capabilities in cold stamping and automotive manufacturing.

Strong commitment to circular economy principles.

Facilities and technical capacity for piloting and demonstration activities.

Willingness to collaborate and co-develop innovations aligned with EU sustainability targets.

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Technical specification or expertise sought

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#### Stage of development

**Concept stage**

IPR Status

**No IPR applied**

IPR Notes

#### Sustainable Development goals

• **Goal 7: Affordable and Clean Energy**

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## Partner Sought

#### Expected role of the partner

Project Coordinator (Lead Partner):

-Manage the Horizon Europe proposal preparation and submission process,

- Structure and coordinate the consortium throughout the project,
- Oversee technical and administrative reporting,
- Ensure compliance with EU regulations and manage budget allocation.

Automotive OEMs (Original Equipment Manufacturers):

- Provide real-life use cases and define key requirements,
- Support in testing, validation, and demonstration of remanufacturing solutions,
- Facilitate the identification and disassembly of parts for remanufacturing.

Steel Manufacturers and Material Suppliers:

- Support traceability and quality assurance of materials in circular supply chains,
- Contribute to solutions for the efficient recovery and reuse of steel from vehicle parts,
- Help align materials flow with circular economy goals.

AI and Computer Vision Solution Providers:

- Develop AI-powered systems to track components across their lifecycle,
- Design and implement automated sorting and classification tools for end-of-life parts,
- Enhance process efficiency through data-driven insights.

Disassembly, Sorting, and Recycling Technology Developers:

- Provide technologies for efficient dismantling and evaluation of end-of-life automotive parts,
- Contribute to the setup and testing of pilot lines or physical demonstrators,
- Enable material recovery and component reuse at industrial scale.

LCA (Life Cycle Assessment) Experts:

- Conduct environmental impact assessments of remanufacturing processes,
- Quantify sustainability improvements and support decision-making,
- Guide the development of eco-design strategies based on LCA results.

Research Institutions / Universities:

- Contribute to technological development and TRL advancement,
- Support scientific validation, training, and dissemination activities,
- Collaborate on data analysis, modeling, and knowledge transfer.

## Type of partnership

**Research and development cooperation agreement**

## Type and size of the partner

- **University**
- **R&D Institution**
- **SME 11-49**
- **Big company**
- **SME <=10**
- **SME 50 - 249**

## Dissemination

## Technology keywords

- **02007010 - Metals and Alloys**

## Market keywords

- **08003001 - Machine tools, other metal working equipment (excl. numeric control)**

## Targeted countries

- **World**

## Sector groups involved