

EU Brokerage Event

on Industrial KET* in Horizon Europe

*Key Enabling Technologies

10th November 2022 • Strasbourg

Conference &
Bilateral/B2B Meetings

Calls
2023- 2024

Project idea/ Field of expertise:

Developing a European digital Platform for accelerating the circularity of automotive components

Organisation Name:

Vicomtech

Addressed topic(s):

HORIZON-CL4-2024-TWIN-TRANSITION-01-05: Technologies/solutions to support circularity for manufacturing (Made in Europe Partnership) (RIA)

Our expertise:

ARTIFICIAL VISION

ACTION

- Computer Graphics
- Computer Vision
- Digital Media
- Dialogue & Speech
- ...

ARTIFICIAL INTELLIGENCE

DECISION

- Machine Learning
- Visual Analytics
- Data Intelligence
- Language Processing
- Digital Security

Fields of application:



MANUFACTURING



DIGITAL ENERGY



HEALTH & MEDICAL
DEVICES



DIGITAL SECURITY



SMART MOBILITY



ICT AND MEDIA

Vicomtech in numbers:

Staff	Ph.D	International	Income	IPR Income	Projects	Clients & partner
225	80	14%	13M€	573K€	109	479

Developing a European digital Platform for accelerating the circularity of automotive components

SoA of automotive components reuse

➤ **Low circularity**

The recycled content of a vehicle is only about 20%¹ / Poor collection

➤ **Steel components**

They make 60% of the weight of an average vehicle² / Recycled by 95% but as low-quality scrap.

➤ **Plastic components**

They make 17% of the weight of an average vehicle by 2030³ / Recycled by 2.5%.

➤ **Aluminum components**

They make about 19-20% of the weight of an average vehicle⁴ / Recycled by 90-95% but badly collected.

➤ **Other components & materials**

Batteries: Co, Ni, Cu Li, ...

Principal objectives

- **Increase** the circularity of automotive components
- **Improve** the collection of the materials/components at the end of life of a vehicle
- **Connect** all the stakeholders
- **Develop** digital passports for potentially recyclable components
- **Create** a BD platform as a tool for circularity in automotive components
- **Facilitate** the reusing of well conserved components

Refs:

1 <https://www.linkedin.com/pulse/increasing-circularity-steel-automotive-industry-nick-silk/>

2 Trends In Steel Usage In The Automotive Industry

3 Driving change: A circular economy for automotive plastic , Oakdene Holling 2021

4 EUROPEAN ALUMINIUM | A strategy for achieving aluminium's full potential for circular economy by 2030

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