



This project is co-financed by the European Union
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ORGANIZATION: FORD-WERKE GmbH



WORKSHOP NAME:

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Description of the Organisation

European Plant Overview



IMG Plant Overview



Ford-Werke GmbH is a German automobile manufacturer headquartered in Cologne, Germany. It is one of the largest automakers in Germany, employing approximately 18,000 people

MTD&I

-Global Lead for New Manufacturing Technologies in EU & IMG Plants

Your Teams' Expertise



- cooperation with global plants, universities and suppliers
- cross functional governance funding projects (EU/ UK/ Spain/ Germany/ US)
- joint grants projects with Ford Otosan



- Manufacturing Technologies:
- Joining
- AVM
- Industry 4.0
- Forming Technologies
- Vehicle Assembly
- E-Motor Manufacturing
- Battery Manufacturing
- 3D printing

Your Research Fields

- E Motor Manufacturing
- E Sheet Lamination
- New Joining Technologies



- Affordable Low Volume Vehicle Manufacturing Technologies



- AVM
- In Plant Remote Marshalling
- Conveyor-less Plant



- Sustainable Manufacturing
- Circular Battery
- Vehicle Remanufacturing

Your On-going Projects

EU:

-EIT

-MaaSBrakeAM (Brake Coating & Repair)

UK:

-E-Sheet (New Manufacturing Technology e-Lamination E-Motors)

-E-Beam (Electron Welding of Hairpins)

Germany:

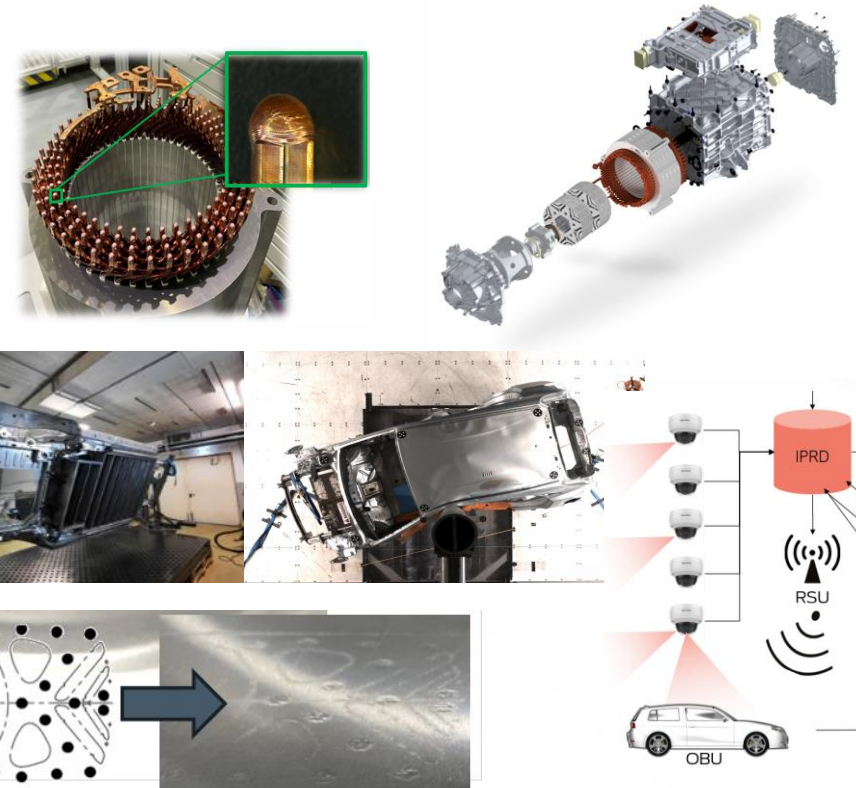
-Peakbat (Structural Batteries)

-Screenprint (Printing Technologies for E-Motor E-Sheets)

-E-Self (In Plant Marshalling)

-NUMA 4.X (Human Centred Industry 4.0)

-Zirkulea (Battery Disassembly Technologies)



Project Idea

Call Topic: HORIZON-CL5-2025-04-D6-01: Advancing remote operations to enable the sustainable and smart mobility of people and goods based on operational and societal needs (CCAM Partnership) – Societal Readiness Pilot

Deadline Dates:

- ☐ **Objectives: Transport of people and goods with remotely operated shared vehicles**
- ☐ **Expected Results:**
 - exploring the operational and societal conditions and prerequisites for complementing the ODD of CCAM solutions through remote operations**
 - taking over control in scenarios like emergency responses, system malfunctions, ADS system limits, or complex navigational challenges unforeseen by the CCAM system**

Project Idea

Call Topic: HORIZON-CL5-2025-04-D6-02: Preparing for large-scale CCAM demonstrations (CCAM Partnership) – Societal Readiness Pilot

Deadline Dates:

- ☐ **Objectives:** Establish the foundation for future use case specific projects in different domains, such as public and private road transport and logistics, alongside the large-scale demonstrations
- ☐ **Expected Results:**
 - foster the collaboration between public and private stakeholders to achieve common objectives and assess societal impacts
 - Engagement of key stakeholders, covering the whole CCAM ecosystem, such as mobility and transport users, , public transport, shared mobility and logistics operators, infrastructure providers, traffic managers, public authorities, and research institutions

Ford already has samples of automated vehicle marshalling and is interested exploring usages for logistics (in plant and open roads)

Project Idea

Call Topic: HORIZON-CL5-2025-04-D5-03: Safe post-crash management of road Light Duty Battery Electric Vehicles (BEVs) (2ZERO Partnership)

Deadline Dates:

- ☐ **Objectives:** In addition to protection during a collision, it is the post-crash phase, immediately after the collision, that is crucial for the consequences of a road crash.
- ☐ **Expected Results:**
 - Significant improvement of vehicle designs
 - Re-purposing/re-using/re-cycling of batteries from crashed BEVs
 - Best practices in fire handling and fire suppression
 - shuttle vehicle on a public road with speed of up to 50 km/h

Ford can support in the areas of safe battery design and battery recycling

Project Idea

Call Topic: HORIZON-CL5-2025-04-D5-04: Extended lifetime of road Battery Electric Vehicles (BEV) (2ZERO Partnership)

Deadline Dates:

- ☐ **Objectives: Make use of the residual value of BEV cars beyond classical shredding**
- ☐ **Expected Results:**
 - Future sustainable, economy-design concept evaluation for extended lifetime with minimum use of resources and re-use, recycle and End of Life**
 - Advanced prospective/prescriptive maintenance and repair concepts to extend useful lifetime of BEV and minimise the used resources**

Ford can support in the areas of battery recycling and vehicle refurbishment concepts

Consortium - profile of known partners (if any)

No	Partner Name	Type	Country	Role in the Project
01	Copernikus	Company	Germany	Develop plant infrastructure
02	NFF (TU Braunschweig)	Institute	Germany	Modelling
03				
04				
05				

Consortium – required partners

No	Expertise	Type	Country	Role in the project
01	E-Mobility (motors, drives,..)	Research institutes or Company	EU	Partner
02	Support in Europe mobility and transport calls	Research institutes or Company	EU	Support
03	Automotive/ Autonomous Driving	Research institutes or Company	EU	Partner
04				



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