





PRESENTER FULL NAME: E. ERKİN BİLALOĞLU

ORGANIZATION: COŞKUNÖZ KALIP MAKİNA

WORKSHOP NAME: Workshop 2: Twin Green and

Digital Transition of Industry

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Description of the Organisation







AUTOMOTIVE

- BIW
- Closures
- Chassis
- Modules



ADVANCED MANUFACTURING

- Joining Technologies
- Additive Manufacturing
- Metal Forming



SPIN-OUTS









Your Teams'
Expertise



Products

Cooling Plates
Battery Housing
PFEM Plates
Metal AM Products



Manufacturing Tech.

Friction Stir Welding
Laser Welding
PBF
DED LMD
DED WAAM
Conventional Welding





Your On-going Projects





METAL MATRIX NANO-COMPOSITE COATINGS UTILIZATION AS ALTERNATIVE TO HARD CHROMIUM

CL4



FRUGAL ZERO-EMISSION VEHICLES FOR THE URBAN PASSENGER
CHALLENGE

CL5



DEMONSTRATION OF A SUSTAINABLE CIRCULAR-BY-DESIGN
MANUFACTURING SYSTEM BASED ON ADDITIVE MANUFACTURING

CL4



VOCATIONAL TRAINING FOR OPTIMAL LEARNING AND GROWTH IN THE EUROPEAN BATTERY INDUSTRY

ERASMUS+ Centralized Project



Project Idea

Advanced Manufacturing Processes + Innovative Production Processes + Use Of Innovative Materials

- Additive manufacturing or cladding for manufacturing and/or repair;
- ✓ Advanced joining technologies;
- ✓ Advanced Forming and material shaping technologies;
- Surface (pre-)processing technologies, nano- or micromanufacturing;
- ✓ High precision machining and assembly.

New Product Features

Challenges:

- / In terms of geometry
- ✓ Weight
- ✓ Robustness
- ✓ Functional Integration
- ✓ Re-use-potential
- ✓ Etc.

HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-05

Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry (Made in Europe Partnership) (IA)

Outcomes:

- > Improve productivity and upscaling
- Decrease waste
- > Shorten time-to-market and process integration times
- > Can be applicable more than one ...
- Reducing energy consumption and CO2 emissions.



Advanced Forming, Advanced Joining, Additive

Manufacturing – Utilitization

USE CASE Provider





Project Idea

HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-43

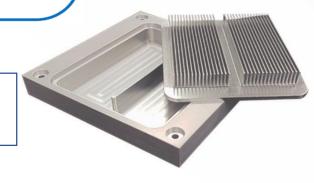
Innovative Advanced Materials (IAMs) for robust, fast curing sealants and coatings for manufacturing and final assembly (IAM-I) (IA)

- ✓ Coatings
- ✓ Functionalised surfaces
- ✓ Sealings

- Prolong lifespan and performance
- Challenging requirements (fast curing and drying, mechanical robustness, protection)
- ☐ Harsh environments (sun, rain, snow, humidity, corrosion, erosion, temperature)
- ☐ Increased recyclability
- ☐ Reduced cost of ownership
- ☐ Lower environmental impact



USE CASE PROVIDER – AUTOMOTIVE / ENERGY STORAGE







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