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PRESENTER FULL NAME: Zeynep Yumrutaş

ORGANIZATION: Farplas

WORKSHOP NAME: Twin Green and Digital Transition of Industry

E-MAIL: zeynep.yumrutas@farklabs.com

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Description of the Organisation

Farplas researches, develops, and manufactures superior automotive polymer systems, provides innovative solutions, and implements state-of-the-art technologies to make mobility safer, reliable, affordable, and efficient.

Farplas is a full system solutions partner for the automotive industry, striving for excellence in the manufacturing and development of innovative polymer systems.

One of Türkiye’s top 250 industrial companies, Farplas has been the solution partner of automotive industry for more than 50 years. With an annual revenue of 240M €, we operate in 5 countries with 3 R&D and technology centers, 6 plants, and 2300 employees.

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Farplas R&D Team Focus Areas;

- **Resilience**
- **Lightweight**
- **Sustainability**
- **Digital Transformation**
- **Transforming Industry**
- **Advanced Projects**

Industry 4.0 & Smart Manufacturing

Sustainable Materials & Recycling

Lightweighting & Advanced Polymer Technologies

Surface Quality & Aesthetic Parts

Circular Economy & End-of-Life

Vehicle Recycling

Hydrogen Storage & Energy Solutions

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Research Fields of Farplas

Nano materials
Bio materials
Circular materials

Hydrogen storage
Battery modules and casings for EV's

Chemcycling
Solvent based recycling
Sorting for circularity

Industry 4.0
Iot devices
New sensors for manufacturing.
Image processing
Advanced manufacturing systems

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Ongoing Projects of Farplas

VITAL

InnoVatIve processing Technologies for bio-based foAmed thermopLastics

SYNTECS

SustainablY aNd digiTally driven hiErarchical laser texturing for Complex Surfaces

ZEVRA

Zero Emission electric Vehicles enabled by haRmonised circulArity

BIAS
Mitigating biases of AI in the labour market

Mitigating Diversity Biases of AI in the Labor Market

WAVE

Efficient HV-electric modular battery and distribution systems for sustainable WAterborne VEssels

CREDIT

Circularity and Remanufacturing-Enabling DIgital Twins

BIONTIER

BreakIng FrOntiers in sustainable and circular biocomposites with high performance for multi-sector applications

TALENT PASS

Fostering European Talents for Widening Circular Economy

Light-G-Comp

Lightweight, sustainable and energy-efficient designs and production methods for upcycled Graphene reinforced hybrid Composites

EIT Manufacturing

EIT Manufacturing: RESTORE

Resource Optimization and Tracking for Enhanced Recovery in the Circular Economy

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Interested Calls

- HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated approaches for remanufacturing (Made in Europe Partnership) (IA)
- 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)
- HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-35: Embedding upcycling technologies into viable business (Processes4Planet partnership) (IA)
- HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-36: Safe and clean processing technologies and products (Processes4Planet partnership) (RIA)
- HORIZON-CL4-2025-03-DIGITAL-EMERGING-06: Innovative Advanced Materials (IAMs) for conformable, flexible or stretchable electronics (RIA) (New European Partnership on innovative materials)

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Project Ideas

Call Topic: HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01: Integrated approaches for remanufacturing (IA)

Objectives: Integrate design for sustainability, enabling reuse and performance testing of automotive parts.

Expected Results: Full lifecycle integration of reuse and recycling — from part and process design to remanufacturing.

Call Topic: HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-05: Advanced manufacturing technologies for leadership of EU manufacturers in products for the net-zero industry

Objectives: Reimagine energy-efficient manufacturing using advanced materials like high-flow thermoplastics and recyclable thermosets for Reaction Injection Molding (RIM).

Expected Results: Cost-effective, energy-efficient part manufacturing processes supporting net-zero goals.

Call Topic: HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-35: Embedding upcycling technologies into viable business

Objectives: Integrate solvent-based recycling with existing pyrolysis systems to enhance non-mechanical recycling in industrial supply chains.

Expected Results: Closed-loop, high-efficiency circular systems in local industry zones.

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PRESENTER CONTACT DETAILS:
zeynep.yumrutas@farklabs.com
COUNTRY: Türkiye