



€ **3**
million
funding

10
partners

7
countries

48
month
duration

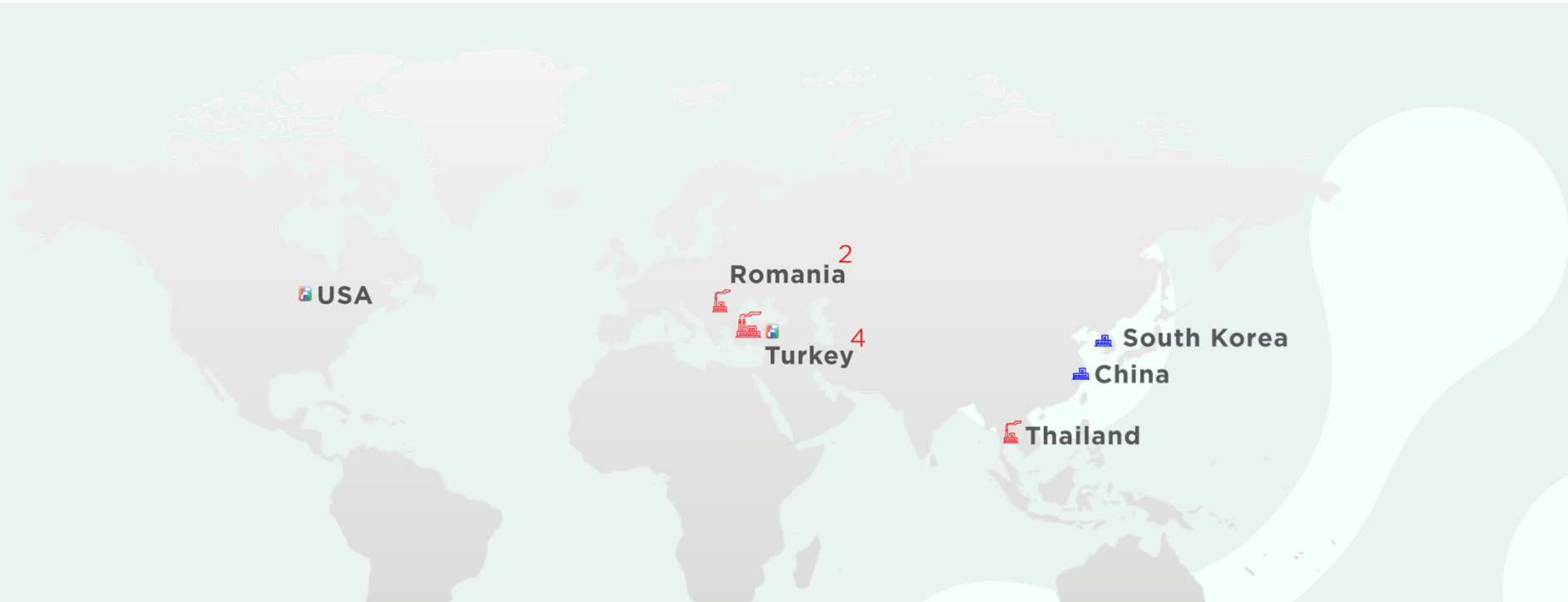
Empowering Innovation

Through Mobility & Collaboration



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Farplas Global Footprint - Current



- Plant
- Innovation Center
- Technical Center



1968
Establishment



202 M
Turnover
2024



1.840
Stars



2 R&D
Technology
Center



7
Production
Plant



Farplas Plants in Türkiye



Partnership

: 100% Farplas

Location

: Kocaeli, Turkey

Total Production Site

: 72,000 m2

Production Techniques

: Injection Technologies

Paint Processes

Bonding/Welding Technologies

Robotic Assembly and Trimming

Joining, Coating, Marking Technologies

Mold Production

Just in Sequence (JIS)

Farplas in Romania – Mioveni Plant



Partnership	: %60 Farplas, %40 Smart Plast Solutions
Establishment	: May 2020
SOP	: Q2, 2021
Location	: Mioveni, Romania
Production Site	: 3.300 m2
Number of Employees	: 66
Main Business	: Automotive
Production Techniques	: Injection Technologies



Paint Processes
Bonding/Welding Technologies
Robotic Assembly and Trimming
Just in Sequence (JIS)



Farplas in Romania – Oarja Plant



Partnership : %60 Farplas, %40 Smart Plast Solutions

Establishment : 2023

SOP : Q4 2023

Location : Oarja, Romania

Production Site : 6.000 m2

Number of Employees : 45

Main Business : Automotive

Production Techniques : Injection Technologies

Ultrasonic Welding

Vibration Welding

Robotic Assembly and Trimming

Airbag Marking (Laser Scoring)

Just in Sequence (JIS)



Thailand – FarAero



Partnership	: %49 Farplas, %51 Aeroklas
Establishment	: November 2020
SOP	: Q1, 2022
Location	: Rayong, Thailand
Production Site	: 4.000 m2
Number of Employees	: 42
Main Business	: Automotive
Production Techniques	: Injection Technologies Robotic Assembly



Current Products and Segmentation



Industrial Competencies



R&D

R&D Centers:

- 7 R&D Centers & 4 Tech Centers in Group
- +250 Engineers, ~20 PHD
- Testing, Prototype and benchmark facilities

Competencies:

- Polymer Science
- Circular Economy
- Machine Learning & AI
- Bonding Technologies
- Electronics & Computer Vision

Advanced Projects:

- Embedded Electronics
- Composite Closures
- Polymer Battery box
- Metal Replacement
- Advanced sensors & cameras

Examples from running R&D projects

Material Development PA 6 / PA 6.6 (Faramid)



Fiber form - Battery Carrier



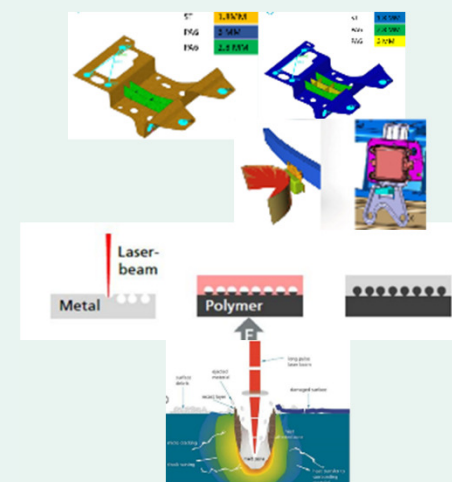
Natural Fibers



Smart Chemical Foaming Tooling



Plastic Laser Welding on Sheet Metal



Industrial Competencies



DESIGN &
DEVELOPMENT

Concept Design:

- Dedicated team for creative solutions



Product Development:

- 30 years of experience
- Multi-national design teams in Turkey, Korea and France
- Resident engineering in Italy, UK, Germany, USA, ...
- PLM data management

Simulations and FEA:

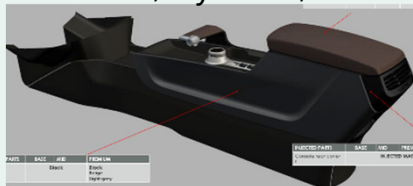
- Thermo mechanical
- NVH
- Durability & Stiffness
- Mold Flow
- Abaqus, Hyper works, Moldex 3D
- Ansys, Optics

Examples from running and previous development projects

Complete Cockpit for EV SUV Project



Center Consoles for Toyota, Renault, Hyundai, TOGG



Spoilers for Renault, Hyundai



Front End Modules for Hyundai, Renault



Fuel Filler & Charge Port Systems for Ford, Hyundai, Renault, TOGG, Honda



PMMA, 2K, Back Injection Interior & Exteriors for Ford, Hyundai, Renault, TOGG, Honda, Fiat



Industrial Competencies



MANUFACTURING TECHNOLOGIES

Injection Molding:

- 2K, Gas Injection
- Physical, Chemical Foaming
- IMD (In mold decoration)
- Back Injection
- Composite Fiber Form

Painting:

- Pearly Body Color
- Piano Black
- Soft Touch
- Electrostatic
- Azote Cleaning

Bonding:

- COD (Cure on Demand)
- Vibration
- Ultrasonic
- Hot Plate
- Infrared
- Heat Staking

Finishing:

- Airbag Scoring
- Wrapping
- Robotic Trimming
- Laser Cutting
- Punching
- Thermoforming
- Foaming (pur)
- Printing, Vacuum Metallizing

Assembly:

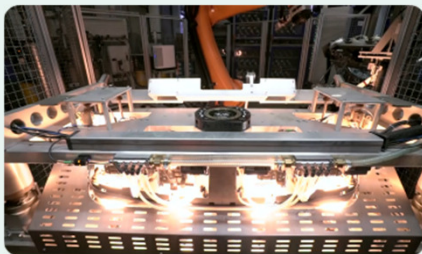
- Robotic Lines
- Just in Time
- Just in Sequence
- ASRS
- Camera Control
- SAP4HANA

Examples from key processes

Painting



COD Bonding



Wrapping



In Mold Decoration



PUR Liner



Industrial Competencies



ELECTRONICS

Electronic Design & Development:

- +50 Engineers in electronics hardware & Software development
- Key strengths in computer vision processing, sending and in vehicle communication.
- Embedded Software development
- RTOS/Kernel, Linux, Ansys, Altium Designer, C#, C++, Java
- AutoSar ready systems

Production:

- 2 Fully Automatic & 1 Prototype SMT Line
- Robotic Soldering
- High Precision Active Lens Alignment & Automatic Assembly for ADAS
- Cameras
- SMD, TH Assembly
- In process-controlled assembly lines

Products:

- Driver Monitoring System
- Rear & Surround View System
- ADAS & Side View Cameras
- Radar systems (BSD, CPD)
- Proximity, Temperature, Weight, Acceleration, Angle Tilt, Torque and on-demand sensors
- Overhead console integrated with full sensor, camera, in-cabin functions

Examples from key processes & Projects

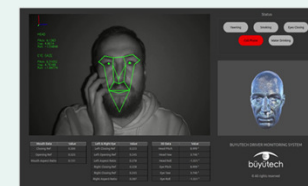
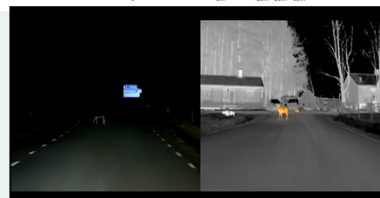
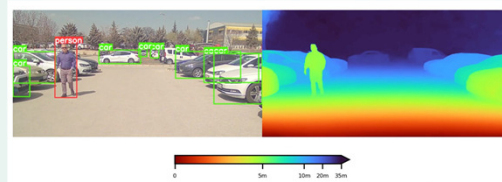
SMT



Lens Assembly



Features (Electronics, Radar & Camera Applications)



R&D / Core Focus Areas



Sustainability

Contribution to the European Green Deal and global climate goals by developing eco-friendly materials with low carbon footprints, based on circular economy principles.



Material Development

Creating high-performance, innovative, and eco-friendly material solutions to improve energy efficiency and reduce vehicle weight.



Digital Transformation

By redesigning production systems with AI and IoT-supported platforms, we go beyond Industry 4.0, enhancing efficiency through data-driven smart manufacturing processes.



Transforming Industry

With the evolving automotive sector shaped by new sustainability policies and technologies, we deliver innovative solutions to achieve environmental responsibility and carbon-neutral targets.



Advanced Projects

Focusing on human-machine interaction and user experience, we adapt in-vehicle systems to align with the future mobility ecosystem, combined under the umbrella 'Next Generation Cockpit'.



HORIZON 2020 - concluded

REVOLUTION

Supporting the Electric Vehicle REVOLUTION through maximising Electric Vehicle Range and End-of-Life Vehicle Recovery through optimisation of recycled plastics and advanced light materials

 **multicycle**

Advanced and sustainable recycling processes and value chains for plastic-based multi-materials

 **teaming.ai**

Human-AI Teaming Platform for Maintaining and Evolving AI Systems in Manufacturing



Industrial Data Services for Quality Control in Smart Manufacturing

HORIZON EUROPE

VITAL

InnoVative processing Technologies for bio-based foAmed thermopLastics



Mitigating Diversity Biases of AI in the Labor Market



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

SYNTECS

Sustainably aNd digiTally driven hiErarchical laser texturing for Complex Surfaces



Zero Emission electric Vehicles enabled by haRmonised circularity

CREDIT

Circularity and Remanufacturing-Enabling Digital Twins



Efficient HV-electric modular battery and distribution systems for sustainable WATERborne VEsels

Labototory



IMPACT



ASH



CLIMATIC CHAMBER



FTIR



TENSILE



FLAMMABILITY



WEATHEROMETER



DSC & TGA



HUMIDITY



MFR/MVR



DENSITY



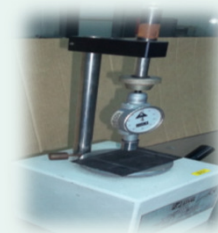
HDT/VICAT



PAINT THICKNESS



SHORE



Contact Information



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Yağcı**

R&D Manager

Project
Supporter,
Trainer



Nargiz Aliyeva

R&D Engineer

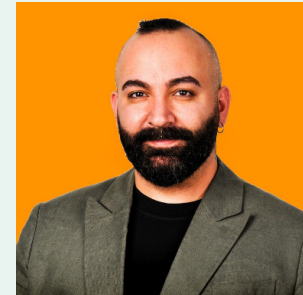
Technical



Emre Elmas

Fundraising and
Project
Responsible

Entrepreneurship
Programme
Expert



Özkan Aslan

R&D and
Incentive Project
Team Member

Admin, Financial
and Legal



Barış Gövem

Manager of Product and
Process Development

Mentor&Trainer



Aykut Başol

COO

Mentor&Trainer



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