



# Evolution of RIS Innovations (EVO-R) Programme 2023 Portfolio Companies



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[eitmanufacturing.eu](https://eitmanufacturing.eu)



# MyEnergy

## PROBLEM/ISSUE ADDRESSED

In today's volatile energy EU spot-price trends, the greatest challenge of the electricity consumption intensive manufacturing industry is to keep the energy cost under control and accountable.

## SOLUTION

Introducing a new concept of “energy just in time”: purchase what amount and when it is needed (Service 1). The cost of monthly purchases can be further minimized by selecting a production schedule according to the power price forecast (Service 2). Online access to the power market for small SMEs, below the daily 0,1 MWh/ order threshold (Service 3). The purchasing algorithm primarily focuses on purchasing power from renewable energy providers. Additional algorithm for minimisation of SME energy purchase cost.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

MyEnergy portal development enabling online access to real-time Day ahead and Intraday price predictions and recommended purchase plans.



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## COMPANY INFORMATION

- Name: NOVITECH a.s.
- Type: SME
- Country: Slovakia
- Industry: IT services
- Website: [www.novitech.sk](http://www.novitech.sk)
- Contact: Mrs. Michaela Adzimová (Novitech PMO), [adzimova@novitechgroup.sk](mailto:adzimova@novitechgroup.sk)



## INSIGHTS



**One liner:** Buy power precisely what you need, and for the minimal monthly purchase cost



**TRL:** 7



**Expected outcome:** 60 SMEs and 2 power traders in CZ, SK and HU Power markets using MyEnergy services by end of the project (TRL9)



# SHARE-P

## PROBLEM/ISSUE ADDRESSED

The problem addressed is the reluctance of SMEs in the EIT RIS regions to implement innovative solutions due to the limited availability of financial resources. The stone materials industry, particularly the niche of edge polishing, is currently underserved in terms of automation and worker safety solutions.

## SOLUTION

This successful collaboration with the EIT manufacturing project not only provided crucial financial support but also validated the importance of Plumake's work in advancing human-machine co-working and flexible production systems. It underscores its dedication to innovation and its commitment to socially sustainable production practices.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

These funds have likely played a pivotal role in driving the development of SHARE-P machine (TRL 9) and furthering their mission in the field of industrial automation and robotics.



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## COMPANY INFORMATION

- Name: PLUMAKE SRL
- Type: SME
- Country: ITALY
- Industry: Industrial automation
- Website: [www.plumake.it](http://www.plumake.it)
- Contact: Marta Dai Prè  
[m.daipre@plumake.it](mailto:m.daipre@plumake.it)



## INSIGHTS



**One liner:** SHARE-P is a collaborative robotic system for edge polishing stone materials.



**TRL:** 7



**Expected outcome:** the successful global expansion of its SHARE-P technology, establishing a strong presence in the market for edge polishing of stone materials.



# Cellbox labs- Organs on chips

## PROBLEM/ISSUE ADDRESSED

We are addressing a critical bottleneck in organ on chip manufacturing: the slow and labour-intensive process of creating and bonding devices

## SOLUTION

Our solution is based on using mass manufacturing techniques and suitable materials for manufacturing of organs on chips

## DEVELOPMENT THROUGH EVO-R PROGRAMME

With support of EIT Manufacturing we will develop automated bonding process.

## COMPANY INFORMATION

- Name: Cellbox Labs
- Type: SME
- Country: Latvia
- Industry: Biotech
- Website: <https://www.cellboxlabs.com>
- Contact: Roberts Rimša, [roberts.rimsa@cellboxlabs.com](mailto:roberts.rimsa@cellboxlabs.com)



## INSIGHTS



**One liner:** At Cellbox Labs, we are developing organ on a chip technology for faster and cheaper pre-clinical drug discovery



**TRL:** 7



**Expected outcome:** TRL 8

**Cellbox Labs**

# ASSESS

## PROBLEM/ISSUE ADDRESSED

ASSESS tackles market fragmentation, stakeholder communication gaps, inefficient resource planning, data imprecision, skilled labor shortages, and elevated accident risks in the elevator manufacturing industry.

## SOLUTION

ASSESS (TRL7) comprises a custom-made UAS with advanced sensors for the autonomous vertical navigation in the confined and GPS-denied spaces of elevator shafts, and in the 3D mapping and digital reconstruction of the shaft. The generated geometrical attributes and 3D model of the shaft are transmitted via a Cloud API to elevator manufacturers, streamlining the process of custom system dimensioning for quoting and manufacturing.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

VERTLINER aims to meticulously refine, finalize, and certify its ASSESS prototype (TRL8).



## COMPANY INFORMATION

- Name: VERTLINER
- Type: P.C.
- Country: Greece
- Industry: Robotics
- Website: <https://vertliner.com/>
- Contact: Antonis Venianakis – [avenianakis@vertliner.com](mailto:avenianakis@vertliner.com)



## INSIGHTS



**One liner:** UAS-based Autonomous Elevator Shaft Digitalization



**TRL:** 7



**Expected outcome:** Finalization and Certification of the ASSESS solution and reaching TRL8



# PRODE

## PROBLEM/ISSUE ADDRESSED

In textile manufacturing for each ten million of garment 150.000 are landfilled wasting 12 million lt. of water, 33.000 KW, releasing 20.t of CO2 with a loss of 260k€.

## SOLUTION

PRODE, unsupervised ai cybervision quality control solution drives textile digital transformation via data stream AI elaboration automating anomaly detection reducing the human effort by 50%, secondary landfilling by 70% enabling digital and sustainable production as for the European textile onboarding strategic guidelines

## DEVELOPMENT THROUGH EVO-R PROGRAMME

TR2 aims to improve the TRL via solution engineering and via stakeholders' engagement for solution development driving. Out timeline is

- Zero short learning AI development and implementation
- Dashboard fine tuning
- Solution wrap up



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## COMPANY INFORMATION

- Name: TR2 SRLS
- Type: MICRO
- Country: ITALY
- Industry: ICT
- Website: WWW.TR2WO.IT
- Contact: MVENANZI@TR2WO.IT



## INSIGHTS



**One liner:** PRODE, Sustainable textile ai solution



**TRL:** 7



**Expected outcome:** Solution engineered, market developed



# SmartZavod

## PROBLEM/ISSUE ADDRESSED

Flexible and efficient production of complex, multi-material and precision parts on demand by large and medium-sized manufacturing companies in the EU from the automotive, equipment, food and health sectors. The challenge is associated with the upcoming I.R5.0 and the trend towards mass customization and personalization.

## SOLUTION

SmartZavod is an innovative, modular production system—a patented mechatronic platform for the flexible production of complex, critical, multi-polymer, and precise parts in a cost-effective and sustainable way. We eliminate the need for manual efforts when compared to traditional technologies and additive manufacturing (AM). For thousands of manufacturing companies in the EU, SmartZavod facilitates a smooth transition to Industry 5.0 and mass customization production from the equipment side..

## DEVELOPMENT THROUGH EVO-R PROGRAMME

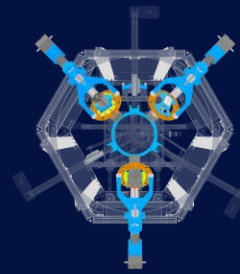
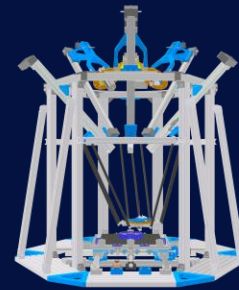
Modular software for hybrid manufacturing based Flexible Production System.



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## COMPANY INFORMATION

- Name: SmartZavod
- Type: Start-up
- Country: Ukraine
- Industry: Equipment, AM
- Website: [smartzavod.com](https://smartzavod.com)
- Contact : Oleksii Solntsev, CEO, [oleksii.solntsev@smartzavod.com](mailto:oleksii.solntsev@smartzavod.com)



## INSIGHTS



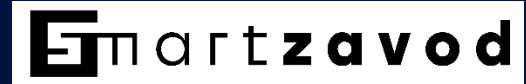
**One liner:** SmartZavod. Next GEN of Hybrid Manufacturing



**TRL:** 7



**Expected outcome:** Increased level of geometrical accuracy with numerical simulation, tested modular software for hybrid manufacturing system, new use-cases during project



# ShifTempo

## PROBLEM/ISSUE ADDRESSED

In the manufacturing industry, particularly at the operational level, there are challenges related to planning, scheduling, and control in the short and medium term taking the unique skills of the operators into consideration .

## SOLUTION

Innovative digital solution dedicated directly to operator scheduling which applies cutting edge combinatorial optimization methods and machine learning algorithms to optimize the human resources, naturally, taking technological, material and resource constraints into consideration.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

Based on our experience and feedback from other partners, we aim to transform the application into a flexible software for creating optimal operator work schedules.

## COMPANY INFORMATION

- Name: EPIC InnoLabs
- Type: Ltd.
- Country: Hungary
- Industry: Research & Development
- Website: [www.epicinnolabs.com](http://www.epicinnolabs.com)
- Contact: Dr. B. KADAR [botond.kadar@epicinnolabs.hu](mailto:botond.kadar@epicinnolabs.hu)



## INSIGHTS



**One liner:** a software to schedule a daily shift based on operator skills



**TRL:** 7



**Expected outcome:** A market ready software solution for daily operator scheduling.



## Low Environmental Footprint Systems & Circular Economy for Green Manufacturing 2023 (IEES Technology Engineering Ltd. Co.)

### **PROBLEM/ISSUE ADDRESSED**

The fundamental challenge for oxide-based inorganic nanoparticles is that they require long-term processing under vacuum-based conditions or high-temperature annealing to produce the desired crystal structure. These factors severely hinder the large-scale manufacture and marketing of these materials.

### **SOLUTION**

We have developed a novel chemical manufacturing approach that can synthesize oxide-based inorganic photocatalyst nanoparticles in the desired crystal form at low temperatures (100 °C <) without the need for a vacuum environment. In this way, nanoparticles used in a variety of technologies will contribute to the high-tech solution for massive chemical manufacturing.

### **DEVELOPMENT THROUGH EVO-R PROGRAMME**

With the support of EVO-R, we will manage to create value from small-scale to massive chemical manufacturing for industry and establish a Start-up company to facilitate our penetration into demanding market launch.



### **Company Information**

- Name: IEEE Technology Engineering Ltd Co.
- Type: SME
- Country: Türkiye
- Industry: Manufacturing (machinery & chemicals)
- Website: <https://www.linkedin.com/in/savas-sonmezoglu-027a5b108/?originalSubdomain=tr>
- Contact person & e-mail: Savas SONMEZOGLU & svssonmezoglu@gmail.com



### **INSIGHTS**



**One liner:** High-Tech Solutions for Massive Chemical Manufacturing



**TRL:** 7



**Expected outcome:** Development an innovative solution to manufacture the high purity/quality nanoparticles for industrial/academia chemical consumer.



# SPAREPARTS

## PROBLEM/ISSUE ADDRESSED

The manufacturing sector faces the challenge of finding and quoting the correct spare parts efficiently. Our innovative solution directly addresses this challenge through a customer-friendly spare parts customer portal.

## SOLUTION

Our most important achievement, standing as the crowning achievement of our project, is the comprehensive development, validation, and qualification of a sophisticated Spare Parts module. This portal stands out due to its unique combination of guided product selection and configuration, streamlining the process of obtaining accurate quotes for required spare parts.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

Through EVO-R programme we develop TRL9 innovation - customer-friendly spare parts ordering platform.



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## COMPANY INFORMATION

Name: SaleSqueeze, d.o.o.

Type: SME

Country: Slovenia

Industry: CPQ visual solutions

Website: [www.salesqueeze.com](http://www.salesqueeze.com)

Contact: Eva Rebic, [eva@salesqueeze.com](mailto:eva@salesqueeze.com)



## INSIGHTS



**One liner:** Customer-friendly spare parts ordering platform that simplifies the process for buyers to find and order the correct parts using original configuration variation codes.



**TRL:** 7



**Expected outcome:** TRL9 - actual product attains validation within a true operational environment



# Robione

## PROBLEM/ISSUE ADDRESSED

Traditional manufacturing facilities face challenges in material transportation and logistics, leading to increased costs, safety hazards, and production delays. Inefficiencies and lack of real-time monitoring hinder optimization.

## SOLUTION

Our autonomous platform solution addresses these challenges in material transportation and enhances safety. It incorporates advanced self-driving techniques and Industry 4.0 technologies, enabling efficient navigation in complex factory environments. Robione stands out due to its versatility, adaptability to diverse environments, and its focus on harmonious human-machine co-working. While many automation solutions replace human labor, our approach empowers workers, supports skill development, and creates safer, more sustainable manufacturing environments.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

We aim to quickly increase our TRL level and launch our product into the market.



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## COMPANY INFORMATION

- Name: Robeff Teknoloji
- Type: SME
- Country: Türkiye
- Industry: Autonomous Robotics
- Website: [www.robef.com](http://www.robef.com)
- Contact: Özkan Köroğlu (CEO), [koroglu@robef.com](mailto:koroglu@robef.com)



## INSIGHTS



**One liner:** Robeff is revolutionizing the logistics industry by developing electric and driverless platforms



**TRL:** The current TRL fit of our autonomous platform is level 6, with successful testing in a campus environment.



**Expected outcome:** We aim to reach the TRL 8 level and launch our final product into the market.



# Recycap

## PROBLEM/ISSUE ADDRESSED

Recycap addresses the environmental challenge of coffee capsule waste by providing innovative devices that separate coffee grounds from capsules, enabling both components (aluminum/plastic & coffee grounds) to enter conventional recycling circuits, thereby reducing the carbon footprint associated with coffee consumption

## SOLUTION

Recycap offers a groundbreaking solution with its range of REACT devices and coffee maker, employing cutting-edge technology to efficiently separate coffee grounds from capsules. This innovation facilitates easy recycling of both components, contributing to a more sustainable and eco-friendly approach to coffee consumption.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

During the EVO-R program, Recycap plans to implement key developments, including enhancing the efficiency and functionality of REACT devices and the coffee maker, optimizing the recycling process, and expanding compatibility with various coffee capsule brands. Additionally, we aim to conduct extensive testing and gather user feedback to refine and improve our products for a more seamless and sustainable coffee waste management experience.



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## COMPANY INFORMATION

- Name: Recycap Technologies
- Type: S.L
- Country: Spain
- Industry: Small Appliances
- Website: [www.recycap.com](http://www.recycap.com)
- Contact: Eduardo Pérez ([eduardo@recycap.com](mailto:eduardo@recycap.com))



## INSIGHTS



**One liner:** Recycap: Brewing innovation, recycling excellence – transforming your coffee capsule ritual into a sustainable delight



**TRL:** 6-7



**Expected outcome:** The expected outcome by the end of the EVO-R program is to have a refined and market-ready version of our REACT devices (at least React S) , demonstrating optimal performance, user-friendliness, and compatibility with diverse coffee capsule brands. We anticipate achieving key milestones in recycling efficiency, device durability, and user satisfaction, positioning Recycap as a leader in innovative coffee waste management solutions



# OptySun

## PROBLEM/ISSUE ADDRESSED

Our solution directly tackles the challenge of sustainable production in the manufacturing sector. In a world grappling with environmental issues, there's a pressing need for solutions that are both effective and environmentally conscious. Our innovative water purification bottle system addresses this by reducing the dependency on single-use plastics, which significantly contributes to global pollution.

## SOLUTION

Our product uses ultraviolet disinfection technology to provide an environmentally friendly, sustainable alternative to chemical-based purification methods and single-use plastic bottles. It extends the shelf-life of stored water by up to 10 times, minimizes the need for water treatment processes, and conserves energy. Our reusable bottle system could potentially negate the need for up to 1,000 single-use plastic bottles per user every year. Additionally, we offer a mobile application that integrates with the bottle for real-time water quality assessment, making it reliable and encouraging responsible consumption.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

The production and sale of 1,000 units across our target European market, particularly in Finland, while establishing a small-scale production facility in Vantaa, Finland with a capacity of 300 units per month.



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## COMPANY INFORMATION

- Name: OptySun bottle
- Type: start-up
- Country: Ukraine
- Industry: water purification, food-tech, eco-tech
- Website: <https://optysun.com/>
- Contact: [info@optysun.com](mailto:info@optysun.com)



## INSIGHTS



**One liner:** Bottle for disinfection and extending the shelf life of safe drinking water



TRL: 6

# OptySun bottle



**Expected outcome:** start sales and reach TRL 8, to prepare product and company for further scaling

# NEXT INDUSTRIES

## PROBLEM/ISSUE ADDRESSED

The difficulty that is encountered today that slows down the introduction of Cobots (collaborativerobots) especially in small and medium-sized enterprises is given by the length of programming and the "wasted" time in reprogramming Cobots

## SOLUTION

Thanks to the voice, gesture and peer to peer technology user can interact in simpler way and teach the tasks to the robot. We have designed complete technology with controller, software operating system and Cloud AI.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

New SDK available for "free download" (new version of Edge Voice Recognition). New Version of Blockly. (We used a "Blockly" tool to create the base interaction with the machine/robot)

## COMPANY INFORMATION

- Name: NEXT INDUSTRIES
- Type: SRL
- Country: ITALY
- Industry: IOT AND WEARABLE
- Website: [www.nextind.eu](http://www.nextind.eu)
- Contact: NADIA GIULIANI [nadia.Giuliani@nextind.eu](mailto:nadia.Giuliani@nextind.eu)



## INSIGHTS



**One liner:** Tactigon Technology enables humans and robot cooperation through natural interfaces



**TRL:** 7



**Expected outcome:** TRL 8



# NeuroVision

## PROBLEM/ISSUE ADDRESSED

NeuroVision addresses the challenge of providing real-time, augmented reality-based support and training for on-site workers in manufacturing environments, enhancing efficiency and safety.

## SOLUTION

NeuroVision leverages augmented reality (AR) to offer real-time, on-the-job guidance and support to manufacturing workers, directly enhancing operational efficiency, safety, and skill acquisition through immersive, interactive visual instructions and remote expert assistance.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

Through the EVO-R programme, NeuroVision refines its AR technology, enhance user experience, and expand market reach, aiming to achieve full-scale commercialization, robust market penetration, and significant user adoption.



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## COMPANY INFORMATION

- Name: Neuron AI
- Type: SME
- Country: Greece
- Industry: IT
- Website: <https://neuronai.eu/>
- Contact: Marilena Athanasiou, [marilena.athanassiou@neuronai.eu](mailto:marilena.athanassiou@neuronai.eu)



## INSIGHTS



**One liner:** Empower Your Vision, Transform Your Work



**TRL:** 8



**Expected outcome:** An AR application for on-the-job support



# HoneyAI

## PROBLEM/ISSUE ADDRESSED

Honey Stakeholders must rely on external laboratories or difficult/exhaustive/expensive/manual traditional methods to analyze quality parameters of the product, such as pollen for instance. Traditional operations are labour intensive, tough, repetitive, must be carried out by hand by widely trained experts, and are expensive if externalized to specialized labs. Also, when these kinds of analysis are externalized to specialized labs, the companies receive the results deferred (days, or more than a week), so they lose control of the product, and the process.

## SOLUTION

Microfy Systems has developed an automated tool based on robotics, AI and image processing for food quality analysis.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

The project supports entities in EIT RIS countries, to launch their innovative manufacturing solutions on the market.



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## COMPANY INFORMATION

- Name: Microfy Systems SL
- Type: SL
- Country: ES
- Industry: Food industry
- Website: [www.microfy.ai](http://www.microfy.ai) // [www.honey-ai.com](http://www.honey-ai.com)
- Contact: [iratxe.perales@microfy.ai](mailto:iratxe.perales@microfy.ai)



## INSIGHTS



**One liner:** Affordable automated digital microscopy for food quality analysis



TRL: 8



Expected outcome: TRL9

**Microfy.AI**  
AI-POWERED AUTOMATED MICROSCOPY



# MeMOM

## PROBLEM/ISSUE ADDRESSED

Traditional software does not cope with the challenges of flexible manufacturing and moreover is not affordable for SMEs.

## SOLUTION

Our solution is MeMOM, a cloud web-based manufacturing operations management platform designed around an integrated data model, based on scheduling and planning functionality for highly variable and flexible production. We aim to provide predictive capabilities and semi-autonomous decisions for manufacturers, enabling them to learn and deploy the solution through online tools to lower the barrier to entry, especially for SMEs.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

We will provide MeMOM's digital sales automation in 2 areas: (i) building a software environment according to the clients requirements and (ii) clients digital onboarding with limited consultant engagement on MASTA side.



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## COMPANY INFORMATION

- Name: MASTA Solutions
- Type: limited liability company
- Country: Poland
- Industry: IT
- Website: [www.masta.solutions](http://www.masta.solutions)
- Contact: [a.switalska@masta.solutions](mailto:a.switalska@masta.solutions)



## INSIGHTS



**One liner:** MOM solution for flexible manufacturing



**TRL:** 7



**Expected outcome:** readiness for the digital sales of the platform

# MASTA

## MaCh3D Cloud & Sales

### PROBLEM/ISSUE ADDRESSED

Traditional material testing solutions are laboratory instruments, complex and expensive. Material testing is not affordable and not in target for SMEs

### SOLUTION

MaCh3D develops smart material testing devices allowing *easier-safer-faster* and *accurate* tests, making material testing possible at industrial production floor. Thanks to the cloud, test results are made immediately available, centralised and traceable. MaCh3D simplifies quality control of materials performances, speeds up process qualification and new-materials developments, and allows autonomous industrial process controls.

### DEVELOPMENT THROUGH EVO-R PROGRAMME

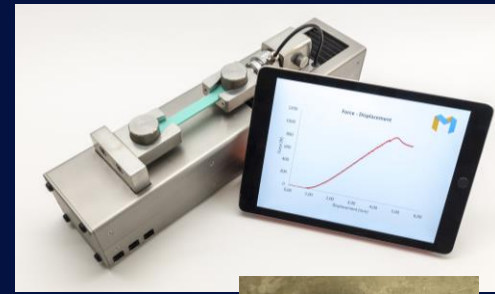
- Implementation of the go-to-market plan
- Distribution channel creation
- Cloud platform development & Go-to-Cloud



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## COMPANY INFORMATION

- Name: **MaCh3D**
- Type: limited liability company
- Country: Italy
- Industry:  
Additive Manufacturing,  
Plastics, Materials
- Website: [www.mach3d.it](http://www.mach3d.it)
- Contact: Matteo Vettori, [m.vettori@mach3d.it](mailto:m.vettori@mach3d.it)



## INSIGHTS



**One liner:** MaCh3D enables material testing in production floor enabling materials monitoring, process control and qualification.



**TRL:** 7-8



**Expected outcome:** Distribution channel creation  
Cloud platform development



# GHz Burst technology

## PROBLEM/ISSUE ADDRESSED

Our efforts address several critical challenges within the laser micromachining sector; speed, precision, energy-efficiency and environmental impact.

## SOLUTION

We have developed the GHz Burst technology that speeds up laser processing, which was published in Nature as a breakthrough. This technology effectively negates the disadvantages of classical femtosecond lasers while maintaining the crucial element of high precision. Additionally, since we use low-power laser beam in Burst mode to achieve this performance. This brings the advantage of a lean, low-power laser architecture that helps cost and energy efficiency.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

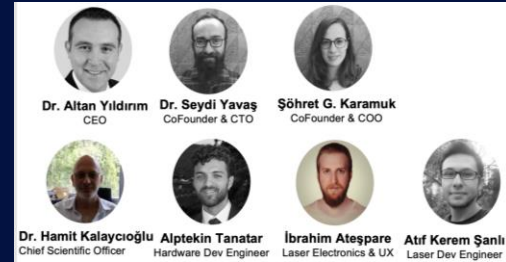
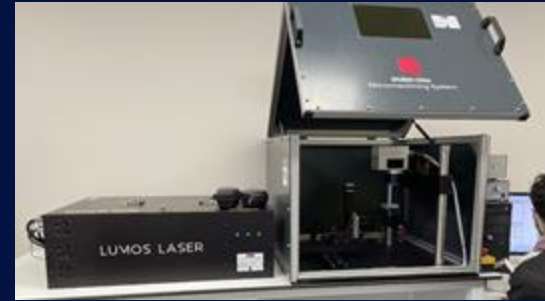
We have already delivered 3 laser units while developing the technology of our MVP continuously. We are aiming at developing new applications with potential customers with focus on new business development.



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## COMPANY INFORMATION

- Name: LUMOS LASER
- Type: Joint-Stock Company
- Country: Turkiye
- Industry: Manufacturing
- Website: [www.lumoslaser.com](http://www.lumoslaser.com)
- Contac: Dr. Altan YILDIRIM  
[altan@lumoslaser.com](mailto:altan@lumoslaser.com)



## INSIGHTS



**One liner:** Revolutionizing Femtosecond Laser micromachining



**TRL:** 7



**Expected outcome:** Improvement of application portfolio and engaging with more potential customers.



# MAINSTREAM

## PROBLEM/ISSUE ADDRESSED

MAINSTREAM addresses the modern manufacturing industry's need for dynamic, customizable production systems by offering a platform that integrates AI, IoT, and easy deployment features. It revolutionizes traditional mass production methods, focusing on adaptability, efficiency, and customer-centric customization..

## SOLUTION

MAINSTREAM revolutionizes manufacturing with its AI and IoT-enhanced platform, enabling simple deployment and customized production at scale, aligned with evolving market demands and technological advancements.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

The EVO-R programme supports MAINSTREAM's expansion in EIT RIS countries, a TRL 7 manufacturing solution proven in real-world settings, focusing on rapid deployment and industry-wide adaptability.



## COMPANY INFORMATION

- Name: FLOWAKE
- Type: SME
- Country: PORTUGAL
- Industry: Manufacturing
- Website: [www.flowake.com](http://www.flowake.com)
- Contact person & e-mail: [fam@flowake.com](mailto:fam@flowake.com)



## INSIGHTS



**One liner:** The EVO-R programme propels MAINSTREAM, an adaptable, advanced manufacturing solution



**TRL:** 8



**Expected outcome:** Manufacturing OS



# Fabmetrics

## PROBLEM/ISSUE ADDRESSED

Small and Medium Enterprises (SMEs) constitute 90% of global businesses but lag behind in digital transformation.

## SOLUTION

To address the challenges faced by SMEs in adopting digital transformation, we propose the innovative concept of "servitization." This approach allows Equipment Manufacturers (EMs) to offer digital services and AI models to their factory clients, making manufacturing digitization accessible and affordable for SMEs. It mitigates budget constraints, minimizes risks, reduces the need for specialized skills and extensive manpower.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

Prepare, validate, and be ready to scale up a set of digital service solutions on the FabMetrics platform for ETI Machinery' at one production line of ETI Foods.



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## COMPANY INFORMATION

- Name: Simtera
- Type: SME
- Country: Turkiye
- Industry: Manufacturing Digitization
- Website: <https://www.fabmetrics.net>
- Contact: [kenan@fabmetrics.net](mailto:kenan@fabmetrics.net)



## INSIGHTS



**One liner:** Low Code Platform for Accessible Industry 4.0



**TRL:** 7



**Expected outcome:** TRL 9



# eQual40

## PROBLEM / ISSUE ADDRESSED

SMEs in EIT RIS regions are frequently reluctant to deploy novel solutions to their shop floor due to the limited availability of financial resources for trying new concepts.

## SOLUTION

In project eQual40, we aim to enhance the digitalisation level of the industry by elevating the TRL of our Customer Premises Microservices-Based Solution for Manufacturing Quality Control from TRL-7 to TRL-9 within a period of 10 months. This will be accomplished through advancing technical readiness level, addressing commercial and legal & regulatory aspects for an international expansion.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

The project will support entities in EIT RIS countries, to launch their innovative manufacturing solutions on the market.



## COMPANY INFORMATION

Name: Enforma Technologies

Type: SME

Country: Turkey

Industry: Software

Website: <https://enforma-tr.com>

Contact: Barış Bulut, PhD;  
baris@enforma-tr.com



**Barış Bulut**  
Project Manager

PhD Electrical and Electronic Engineering  
Evaluator for EU, TÜBİTAK



**Sena Çağlar**  
Data Engineer

BS: Information Systems Engineering  
MSc: Computer Engineering



**Burak Ketmen**  
Full Stack Engineer

BS: Information Systems Engineering



**Ali Akiplik**  
Software Engineer

BS: Computer Engineering



**Aysun Bulut**  
Researcher  
PhD Applied Mathematics

## INSIGHTS



**One liner:** Straightforward-to-integrate industry 4.0 solution



**TRL:** 7 → 9



**Expected outcome:** An industry 4.0 software advanced from TRL 7 to 9, passed through numerous technical, market and regulatory considerations and ready to sell internationally.

# ENFORMA

# Enforge

## PROBLEM/ISSUE ADDRESSED

Manufacturing SMEs face challenges in efficient product customization, as current tools are either too expensive or too complex to adopt, causing errors, delays and dependence on spreadsheets

## SOLUTION

Enforge delivers a Digital-Twin-as-a-Service platform, facilitating the large-scale production of personalized products. This digital twin acts as the definitive reference for all operational phases, efficiently bridging the gap from sales to work-order creation in minutes, irrespective of order quantity. It enables precise traceability, optimized inventory management, and the effective utilization of interchangeable parts.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

We're advancing an AI-driven solution to streamline our onboarding process, reducing Time to Value for our customers and unlocking our growth potential.



## COMPANY INFORMATION

- Name: Enforge PC
- Type: Start up
- Country: Greece
- Industry: Manufacturing
- Website: enforge.io
- Contact: Evangelos Drinas / drn@enforge.io



## INSIGHTS



**One liner:** A digital-twin platform for the mass production of personalized products



**TRL:** 7



**Expected outcome:** Streamline onboarding and boost scalability



# BlueCamel

## PROBLEM/ISSUE ADDRESSED

Small and Medium-sized Enterprises (SMEs) in manufacturing often struggle to predict sales accurately and maintain optimal inventory levels, resulting in increased costs, stockouts, and supply chain disruptions.

## SOLUTION

The cornerstone of our solution is an innovative technology that leverages the potential of AI-powered predictive analytics and dynamic safety stock management. This module operates at the cutting edge of inventory optimization, employing a multifaceted approach to enhance operational efficiency.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

Product development: adding a new core functionality, i.e., dynamical optimal setting of reorder points. Business development: preparing for internationalization and scale-up at the European level.



## COMPANY INFORMATION

- Name: U-Hopper srl
- Type: SME
- Country: Italy
- Industry: ICT
- Website: <https://u-hopper.com/>
- Contact: Daniele Miorandi, [daniele.miorandi@u-hopper.com](mailto:daniele.miorandi@u-hopper.com)



## INSIGHTS



**One liner:** AI-powered Inventory Optimisation



**TRL:** 7



**Expected outcome:** product ready to be launched on the European market

# U·HOPPER



# TAMtech

## PROBLEM/ISSUE ADDRESSED

Lack of options for aircraft safety component servicing at many locations leading to long-distance shipping of dangerous goods and higher costs. No alternatives on the market of aircraft safety component servicing equipment.

## SOLUTION

With our inhouse designed and built equipment we offer a plug-and-play solution which enables quick and reliable expansion of capabilities. Though our all in one solution we provide not only the equipment required, but also all additional elements of an operational workshop. At our licensed showroom facility in Bulgaria we have tested and perfected the functionality on real world aircraft components.

## DEVELOPMENT THROUGH EVO-R PROGRAMME

With the support of EVO-R we hope to successfully build a complete workshop for the testing and recertification of aircraft fire extinguishers.



Co-funded by the  
European Union

## COMPANY INFORMATION

- Name: TAMtech Ltd
- Type: Family company
- Country: Bulgaria
- Industry: Aviation
- Website: [www.tamtechaero.com](http://www.tamtechaero.com)
- Contact: Marian Todorov , [marian@tamtechaero.com](mailto:marian@tamtechaero.com)



## INSIGHTS



**One liner:** Innovative aircraft component solutions



**TRL:** 9



**Expected outcome:** Successful sale of component workshop

