CO-VERSATILE

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# EU'S CO-VERSATILE PROJECT

## Manufacturing Resilience Days for SMEs 2022

Adaptive and resilient production methods and supply chain solutions

# Adaptive and resilient production methods and supply chain solutions

## Contents

# Introduction

In recent years, there have been increasing instances of cross-border threats, including climate change, international trade disputes and global health emergencies. During the COVID-19 health crisis, the disruption of global supply chains and the unprecedented surge in demand for vital medical equipment left the manufacturing and logistics firms facing the unknown. This extraordinary change presented the need to focus on new forms of collaboration, new business models, new approaches to accelerate the industrial response.

Such emergency situations require large-scale planning for preparedness and response in order for the European countries to be able to protect their citizens, counteract and cope with unforeseen challenges. In case of sudden changes and disruptions, the resilience of the companies is crucial. Maintaining business continuity is at the focus of business managers and leaders. CO-VERSATILE aims to prepare Europe to respond quickly at time of crisis by elevating the adaptability and resilience of the manufacturing sector.

During our **SME Resilience Days**, event attendees have a chance to hear directly from the leading European experts their perspective on the topic. On May 3rd, our keynote speaker **Kumardev Chatterjee** will share his insights on the recent challenges. We will also guide you through the possibilities of professional and financial support as well as share how to join the Community network and the Marketplace of the 'Digital Technopole'. On May 4th, our morning session will be dedicated to the issue of product certification, while the afternoon presentations will focus on manufacturing repurposing in times of crisis. On May 5th, we prepared two sessions for you. In the morning we will cover workforce flexibility, and in the afternoon - resilient supply chains.

- During the day you can visit our **EXPO** area and meet the experts during the EXPO LIVE sessions. Dedicated representatives will be waiting for your online visits after each session.
- Each business has its specific needs – we are aware of that, and that is why we offer free **one-on-one consultations** in order to find support tailored to your requirements.
- Each business has its own specific problem – we are aware of that, and that is why we offer free **one-on-one consultation** in order to find the tailored help. Please drop us **a note** with your contacts – we are happy to help.



CO-VERSATILE aims to prepare Europe to respond quickly at time of crisis by elevating the adaptability and resilience of the manufacturing sector.

# The CO-VERSATILE Project

**The EU-funded CO-VERSATILE project aims** at preparing Europe for managing pandemics and cross-border threats by elevating the adaptability and resilience of the manufacturing sector. The goal is to offer manufacturing and logistics firms readily available and customisable solutions, accessible via a cloud-based marketplace that enables them to boost the production of critical supplies, such as vital medical equipment during pandemics.

For manufacturers willing to contribute to the European supply of essential medical equipment by repurposing their production facilities, CO-VERSATILE develops a democratic access to experts and tailored solutions. The ultimate objective is to improve Europe's preparedness to protect its citizens by addressing the needs of the healthcare sector on short notice.

CO-VERSATILE builds upon research and innovation industry-driven initiatives to deliver demonstrators of a flexible 48-hour industrial response capability at scale and to cope with sudden spikes in demand of strategic products.

## The project foresees four key objectives:

1. Deliver a rapid response to the ongoing emergency situation in the re-orientation of production capacities.
2. Set up an accessible and democratic 'Digital Technopole' for the re-orientation and repurposing of production capacities to meet the urgent needs of our societies for essential medical supplies and equipment.
3. Validate the proper operation of the 'Digital Technopole' on seven selected Manufacturing Settings to demonstrate a flexible 48-hour industrial response capability at scale, to ramp up production in response to sudden future spikes in demand of strategic products, for instance medical equipment such as PPE, respirators, for requalification or release of production lines.
4. To assure the sustainability of the 'Digital Technopole' and the multiplication of the offered services to the European Manufacturing Industry to achieve wide replication.



# The ‘Digital Technopole’

The ‘Digital Technopole’ is a cloud-based platform an online interface which aims to support European manufacturing companies, particularly SMEs, to respond to disruptions and crisis situations.  surge in demand during business disruptions. The ‘Digital Technopole’ helps to lower the barriers for manufacturing SMEs to benefit from collective knowledge and expertise from across Europe.

This online platform combines physical and digital services. After registration, SMEs will have access to business applications, software solutions and infrastructure of the latest technologies in an environment that is easy to navigate. It also displays an extended knowledge base in a form of courses, webinars and insights. Living examples and experiences of fellow SMEs are displayed in the form of case studies, best practices and experiment results.

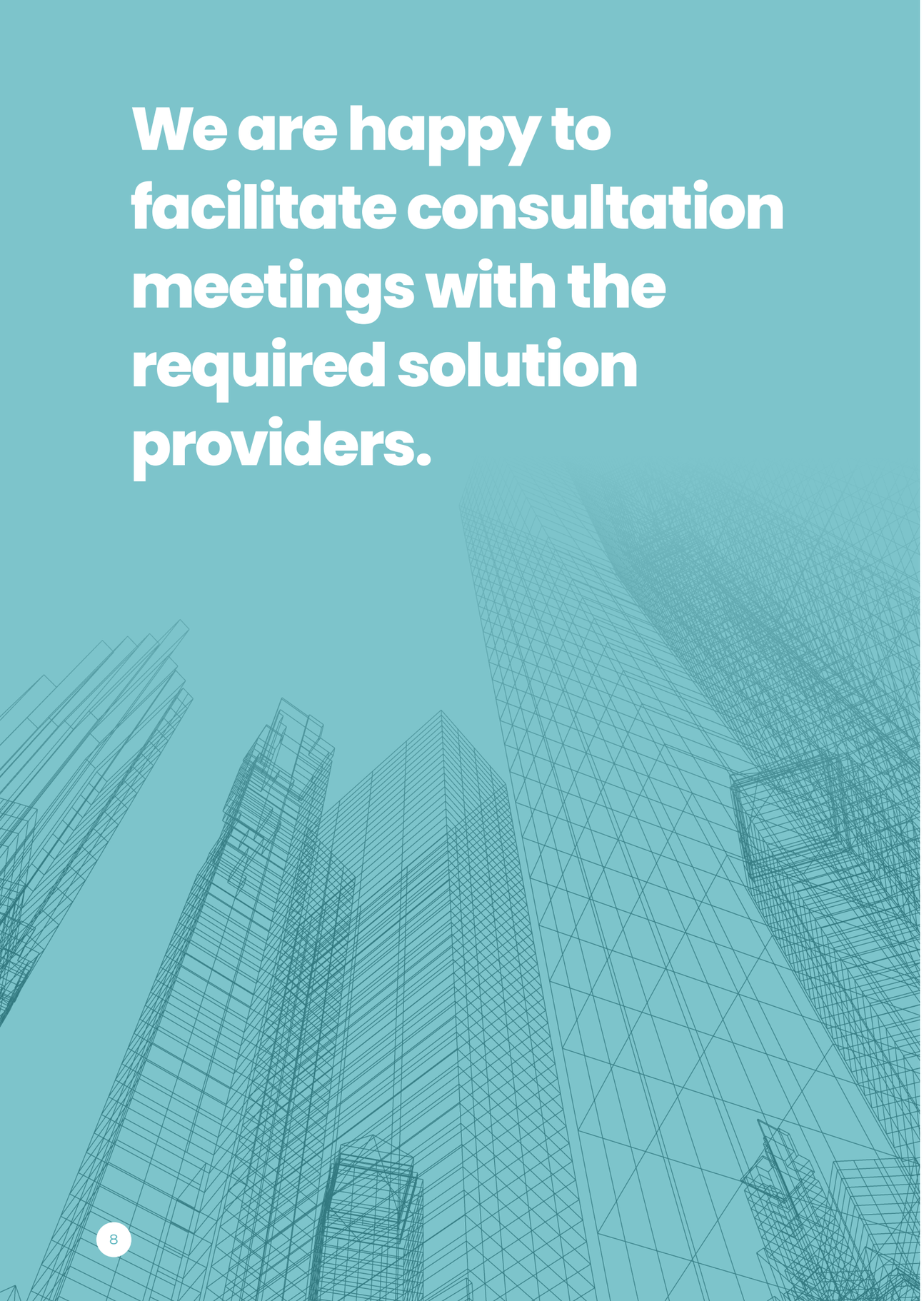
The ‘Digital Technopole’ also offers consultancy services to tackle individual needs. Our ambition is to provide tailored solutions when you are seeking specific support in the field of technology, EU funding and digital transformation. To facilitate cooperation, we help to find your best match with relevant service providers or your local Digital Innovation Hubs (DIHs).

## The ‘Digital Technopole’ offer focuses on the following topics:

- Resilient Supply Chains
- Change Management and Repurposing in Manufacturing
- Process and Product Certification
- Enabling Workforce for Rapid Changes

**To discover the one-stop shop of our services supporting you to build resilience of your business, please register here for the ‘Digital Technopole.**

**We are happy to facilitate consultation meetings with the required solution providers.**



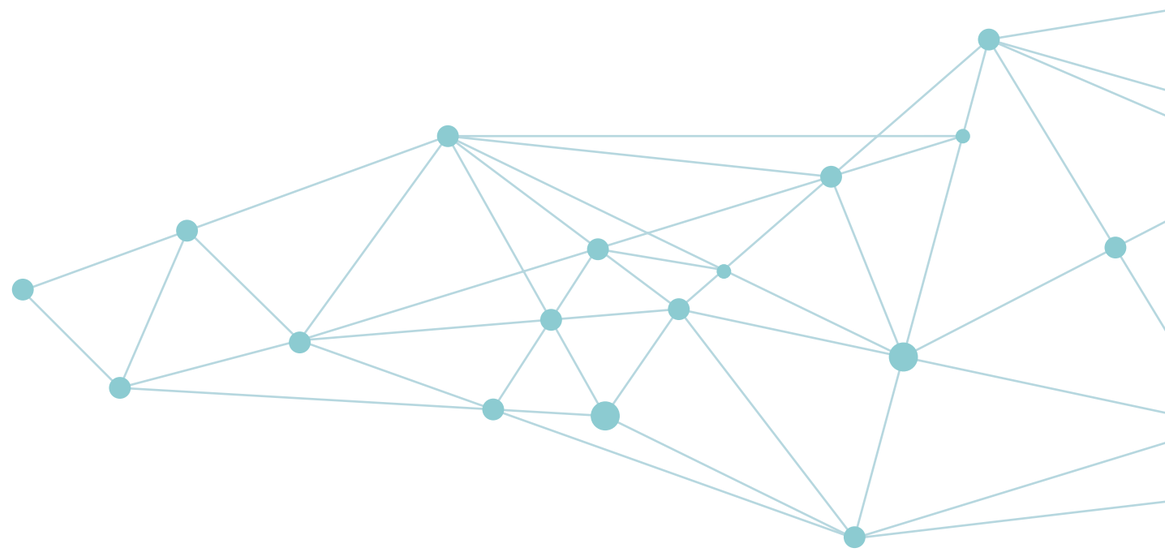


## Matchmaking

We invite you to attend the event to get inspired by the conference presenters, network and meet the experts. We also know that it is crucial to deal with the individual business issues. Therefore, we offer opportunities during the upcoming weeks after the event to meet one-on-one with the experts. We are happy to facilitate consultation meetings with the required solution providers.

Business specialists of our CO-VERSATILE team have a solid understanding of manufacturing SMEs needs and the services offered by the solution providers. After contacting us we assess your specific requirements, handpick the relevant solution provider and organize online meetings in order to ignite a dialogue between parties.

**For further information please see the section; Interested in a service or company? in this publication.**



# Meet the Speakers

Kumardev Chatterjee

Amerdeep Banerjee

Anikó Balogh

Antonio Salis

Elena Revilla Gutierrez

Gabor Terstyansky

Gabor Vicze

Iris van Uitert

José Manuel Bielsa Gimeno

Katarina Deme

Katarzyna Cichomska

Marzio Sorlini

Matthias Wangenheim

Riccardo Canaves

Robert Lovas

Saskia Sardesai

Sebastian Pena Serna

Tamás Kiss

Tosin Famusudo

# CO-VERSATILE Service Providers

# clesgo GmbH

clesgo



clesgo GmbH is a German startup working toward facilitating the democratization and adoption of ICT-enabled solutions in the manufacturing industry. We believe that innovators can only realize visionary ideas, when their imagination can be explored without boundaries. We make smart engineering tools accessible, affordable, and easy to use for every manufacturer working on innovative solutions.

clesgo has joined forces with other key partners to work on projects that empower innovative manufacturers with technologies and solutions such as: cloud-based software applications for manufacturing processes or AI-augmented flexible and modularized digital twins.

Furthermore, clesgo is the developer of the technology behind the CO-VERSATILE Digital Technopole, the Digital Agora - a B2B cloud-based platform that seeks to streamline the access to and adoption of ICT expertise, technologies, and solutions during disruptions and crises, thanks to its dedicated functionalities to foster Community interactions and Marketplace services for the manufacturing industry.

## SERVICES PROVIDED:

- Digital platform design and deployment
- Platform as a Service for platform owners /operators
- ML-based data apps for manufacturing use cases

**Contact:**

**Sebastian Pena Serna**
sp@clesgo.com
www.clesgo.com

Deep Blue is a research and consultancy company operating on a European scale for over 20 years, providing expertise to organisations working in safety-critical sectors and contexts with high security, dependability, and resilience requirements such as transport, healthcare, ICT, and manufacturing. Our research focuses on the role of the human in safety-critical and high-tech systems.

Deep Blue is the first Italian SME for European projects won and completed, and the fourth in all of Europe. We specialise in human factors, safety, validation, and scientific dissemination of technological and research outcomes.  Deep Blue's main activities include the analysis and evaluation of human roles in complex systems, with particular focus on the interactions, integration, and allocation of functions between humans, procedures, and equipment to design and deliver customised training courses tailored to organisational needs.

## SERVICES PROVIDED:

- User Experience & Research in complex organisations
- Design and delivery of training courses
- Assessment of skills and competences following the introduction of technological innovation
- Evaluation of working environments / workstations
- Human Factors for cybersecurity
- Drone Operations assessment and training
- Aviation and ATM consulting
- Railways consultancy services
- Mitigation and adaptation to climate emergencies
- Communication and dissemination

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Business Development
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# Deep Blue SRL

deepblue
consulting & research

# Demcon

DEMCON



Demcon develops, produces and supplies high-quality technology and innovative products for customers worldwide. The company works on solutions for societal challenges in the markets aerospace, agri & food, defense & security, energy, high-tech systems & materials, life sciences & health, smart industry and water & maritime. In addition to development and production, Demcon has its own products, mainly medical. Almost 20 companies, each with their own unique expertise, together form the Demcon group. Demcon has 900 employees and locations in the Netherlands, Germany, Singapore and Japan.

The company arose from the founders' passion for combining creativity and technical skills aimed at solving complex issues. In addition to developing technological solutions, Demcon also focuses on stimulating entrepreneurship and investing in talent and education. Demcon has the ambition to continue to increase its positive impact by taking on new and challenging projects, exploring new international markets and expanding its manufacturing expertise and capacity.

## SERVICES PROVIDED:

**Engineering:**

- mechatronics
- mechanics
- software
- industrial design
- multiphysics
- electrical
- optical & vision
- quality

**Production:**

- prototyping
- assembly

**Contact:** www.demcon.com

EIT Manufacturing Central gGmbH is part of **EIT Manufacturing**, an organisation which brings together innovators, research institutes and companies from and for the manufacturing industry across Europe. The EIT Manufacturing Community consists of at present five hubs working with more than 70 members, several dozen activity-based and network partners as well as supported start-ups. The organisation is headquartered in Paris.

EIT Manufacturing is one of the innovation communities of the **European Institute of Innovation & Technology (EIT)**, an independent EU body set up to empower innovators to turn their best ideas into products, services and jobs for Europe.

## SERVICES PROVIDED:

- Our **Innovation** activities support European manufacturing companies and tech organisations in launching and industrialising demonstrated breakthrough solutions with high business growth potential.
- Our **Business Creation** activities provide start-ups, scaleups and SMEs with business development services, access to finance and support for transformation.
- Our **Education** activities connect and empower people to become the backbone of a strong European Manufacturing Innovation Community. We support students, PhDs and researchers and provide programmes to the manufacturing industry, which help upskilling and reskilling the work force.
- Our **Regional Innovation Scheme** (RIS) activities enable the transfer of good practices and know-how, actively engaging countries with modest or moderate levels of innovation. Our aim: Boosting innovation across the entire continent.

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# EIT Manufacturing Central gGmbh

eit Manufacturing CLC CENTRAL

Co-funded by the European Union

# Engineering – Ingegneria Informatica Spa

ENGINEERING



Engineering is a leading Italian software and services group, with consolidated presence in all vertical markets, and operates through Public Admin & Healthcare, Telco & Utilities, Industry & Services, Finance business units, supported by the Research and Innovation Division, in charge of promoting research at national and international levels, as well as of transferring innovations to the production cycles of the business structures.

## SERVICES PROVIDED:

- Analysis of process specifications and requirements towards middleware development.
- Wide expertise industrial automation solutions for data monitoring and control.
- Augmented Reality / Virtual Reality platform to support manufacturing companies with digitally enhanced training and qualification activities.
- Consultancy projects (including the execution of SW by themselves); training courses.
- Well-established SPACE1 platform with off-the-shelf and high standard augmented and virtual reality environments to support training and skills-enhancing activities.

**Contact:**
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Project Manager
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The Fraunhofer Institute for Computer Graphics Research IGD was founded in 1987. Around 180 researchers at three locations in Darmstadt, Rostock and Kiel in Germany are developing new technology solutions and prototypes. Visual Computing is image- and model-based information technology and includes computer graphics, computer vision, as well as virtual and augmented reality. In simple terms, the Fraunhofer researchers in Darmstadt, Rostock, Graz, and Singapore are turning information into images and extracting information from images. In this project, Fraunhofer IGD participates with the department “Interactive Engineering Technologies” (IET).

The department pursues applied technology research in the area of geometry processing and design, rapid, interactive simulation as well as visualization and analysis. One of the main goals of the department is the integration of design, simulation and visualization aiming at interactivity, i.e., technology that enables users to interact with virtual, physical models. The aim of real-time responsiveness is tackled by developing novel, efficient and massively parallel algorithms methods to leverage the high potential of many core architectures such as GPUs (graphics processing units).

## SERVICES PROVIDED:

- Finite Element Methods simulation - FEM (simulation software used: RISTRA - Rapid Interactive Structural Analysis - developed by IGD)
- Consultancy projects (including the execution of SW by themselves)
- Core of IGD software is an efficient structural mechanics solver that is executed on performant graphics processing units.

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# Fraunhofer Institute for Computer Graphics Research

Fraunhofer IGD

# Fraunhofer-Institut für Materialfluss und Logistik

Fraunhofer

IML



Fraunhofer Institute for Material Flow and Logistics was founded in 1981 in Dortmund, Germany, and occupies currently 315 employees as well as 250 post-graduates and students to works in all fields of internal and external logistics. Fraunhofer Institute for Material Flow and Logistics advises companies of all industries and sizes in all questions about material flow and logistics.

As *consultants* we support in fulfilling new tasks and meeting requirements, as researchers we work out new solutions together with our customers, as planners we help to optimize the internal and external logistics and as developers we realize solutions in soft- and hardware. In the process, Fraunhofer IML focuses on company-specific, made-to-measure solutions and accompanies its customers from planning to implementation.

## SERVICES PROVIDED:

- Supply chain simulation
- Software as a Service; consultancy projects
- The focus of the simulator is the discrete production. A unique feature is the detailed illustration of comprehensive planning processes. In this way handling processes can be analysed starting from the forecast, over the specific incoming order, the scheduling and production up to the delivery to the customer. OTD-NET can be used in the scope of a weak point analysis, the evaluation of current processes and also to validate and evaluate target concepts.
(source: https://www.iml.fraunhofer.de/en/fields_of_activity/enterprise-logistics/supply_chain_engineering/products/otd-net.html)

## Contact:

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HSSMI is a sustainable manufacturing innovation consultancy. We enable manufacturing companies to transform their competitiveness by helping them to scale up production, increase productivity, and integrate circular economy practices. Our ultimate goal is to boost the competitiveness of manufacturers through pathways to achieving net zero.

Since being founded in 2012, we have worked with government bodies, established manufacturers, and aspiring start-ups, connecting practical, hands-on experts with people who want to make their products in an innovative and sustainable way.

## SERVICES PROVIDED:

- Training packages for upskilling new employees. HSSMI uses easy-access tools and formats to enable the training of the workforce with remote access to digital work instructions and engineering data through digital reality technologies.
- Strategic management consultancy projects (including the execution of SW by themselves). Our expertise areas include manufacturing strategy, digital manufacturing tools, circular economy, lean manufacturing and automation, battery technologies, hydrogen propulsion, and e-drives.
- Bespoke engineering services
- Collaborative R&D projects

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www.hssmi.org



# HSSMI Limited

HSSMI

# IE University

IE UNIVERSITY



IE University was incorporated in 2006 as part of the IE Higher Education Group (IE), a leading international group of higher education and research institutions (the IE Business School, the IE University and the IE Foundation) that was founded in 1973 and is known for its innovative and entrepreneurial character, dedicated to educating business leaders through programs based on the core values of global focus, entrepreneurial spirit and a humanistic approach.

IE is rooted in an international outlook, liberal humanistic approach to education, pioneering spirit, and a strong commitment to educating professionals and experts for an international vocation to make a difference in society. It provides a unique learning environment based on the key pillars of personalization, academic rigor, entrepreneurial spirit, interdisciplinary integration, and balance between theoretical and practice-based learning. The Group has five Schools (Business, Law, Global & Public Affairs, Architecture & Design, and Human Sciences & Technology), and delivers Bachelor, Masters and PhD degrees, and Executive Training Programs.

## SERVICES PROVIDED:

- Risk assessment and analysis (Supply Chain Risk Management Capabilities Assessment and the Supply Chain Risk Management Capabilities Assessment)
- Consultancy projects
- Risk is pondered using an assessment tool to measure the compatibility and complementarity of capabilities in all the facilities of the network and run an actionable analysis, based on structured and unstructured data.

## Contact:

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innomine is a leading innovation management expert, specialised in digital innovation and acceleration programmes. innomine's goal and mission is to blend traditional values with modern approaches as key partners in the region aiding in the empowerment of EU SMEs, manufacturing companies, and digital technology providers. innomine has solid experience in working with startups, scaleups and startup ecosystem, especially on product development, international expansion and growth hacking methods. innomine acts as a Digital Innovation Hub in CEE (specialization digital transformation of industry – digital factories).

## SERVICES PROVIDED:

- Exploitation, networking, matchmaking, consultancy projects
- Administrative operator of the 'Digital Technopole'

## Contact:

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www.innomine.com



# Innomine Digital Innovation Hub Nonprofit Kft

innomine

# Institute for Computer Science and Control (SZTAKI)

# Eötvös Loránd Research Network (ELKH)




The Institute for Computer Science and Control (SZTAKI) is a member of the Eötvös Loránd Research Network with more than 300 full-time employees. The Institute gained world-wide reputation in computer science, systems- and control theory, engineering and business intelligence, machine perception and human-computer interaction.

We apply our results for vehicle industry and transport, production informatics and logistics, energy and sustainable development, security and surveillance, Big Data analytics, networks, distributed computing and the Future Internet. The institute is a Centre of Excellence in Information Technology, Computer Science and Control of the European Union since 2001. As the first institute from the Central Eastern European region, ERCIM (European Research Consortium of Informatics and Mathematics) granted full membership to SZTAKI in 1994. Since 2017, SZTAKI coordinates the operation of the strategic European Centre of Excellence in Production Informatics and Control (EPIC), run together with three institutes of the Fraunhofer Gesellschaft (IPA, IPK and IPT), Fraunhofer Austria and two faculties of the Budapest University of Technology and Economics (BME).

In 2018, the Fraunhofer Gesellschaft and SZTAKI established a common firm, the EPIC InnoLabs Nonprofit Ltd., in order to transfer the R&D&I results to the industry. Our research infrastructure includes laboratories for 3D Internet, control of robotic devices and UAVs, Smart Factory and cloud computing platform under the unifying theme of Cyber-Physical Systems.

Since 2020, SZTAKI has been leading the National Laboratory for Autonomous Systems and the Artificial Intelligence National Laboratory.

## SERVICES PROVIDED:

- Personalized assistance provided in creating agent-based, discrete event, and system dynamics simulation models targeting both single manufacturing steps and integrated processes.
- Cloudification support for manufacturing, supply chain simulation and other software tools with consultancy by applying reference architectures.

**Contact:**

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www.sztaki.hu/en

ITAINNOVA is a non-profit technological centre under the Goverment of Aragon, founded in 1984, with the main objective of leading and helping industries to increase their competitiveness and excellence through innovation and technological development.

## SERVICES PROVIDED:

- Modelling and simulation of materials and their processing, also including ad-hoc and experimental methodologies for the measurement of fluid and fluid-air performance.
- Software as a Service; consultancy projects (including the execution of the SW by themselves).
- Dealing with several (commercial and non-commercial) simulation software, ITAINNOVA can identify the solution that best fits customer requirements, with a focus on material modelling and processing (ABAQUS, ANSYS-Fluent, Polyflow, PAMRTM, DIGIMAT + OpenFOAM for CFD and LAMMPS for MD as Open solutions). ITAINNOVA also offers CAELIA, a simulation platform that creates a digital twin based on simulation techniques that allows to instantly optimize the production parameters of different manufacturing processes to constantly ensure the lowest cost and the best quality.
- Towards full customization and ad-hoc solutions development, they also developed TWINKLE (https://github.com/caeliaITAINNOVA/Twinkle), a library for building families of solvers to perform Canonical Polyadic Decomposition (CPD) of tensors, to be applied to data coming from simulation software.

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# Instituto Tecnologico De Aragon (Itainnova)

ITAINNOVA

# Leibniz Universität Hannover (LUH)

Leibniz Universität Hannover



Institute of Dynamics and Vibration Research (IDS) of Leibniz Universität Hannover is part of the faculty of mechanical engineering with a staff of 30 PhD students. One of their fields of interest is the surface modification of technical components to tailor friction, wear and contact properties. They collaborative on different applications in European and national funded pojects as well as bilaterally with industrial companies.

## SERVICES PROVIDED:

- Simulating surface topography and texture of various elastomer components for beneficial properties such as low friction and wear.
- Consultancy projects (including the execution of SW by themselves)
- Ad-hoc study of surface properties for components and products to optimize their function based on materials used and operating conditions such as contact pressure, desired friction behaviour and fluids in contact.

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The MTC was established in 2010 as an independent Research & Technology Organisation (RTO). Its primary focus is to ensure that great ideas become reality by bridging the gap between academia and industry. It represents one of the largest public sector investments in UK manufacturing and exists to prove innovative manufacturing processes and technologies in an agile environment in partnership with industry, academia and other institutions.

## SERVICES PROVIDED:

- Robotic manufacturing demonstrator
- Consultancy projects; training courses
- Demonstration environment showing the seamless introduction of automated robotic manufacturing in traditional production lines to rapidly reconfigure the production assets to meet changing needs.

## Contact:


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# Manufacturing Technology Centre Limited

mtc
Manufacturing
Technology Centre

# Ml Engraving Srl

ML Engraving is one of Europe's leading 3D laser engraving companies focusing on 3D laser engravings of functional or aesthetic textures on moulds and components. Since 1999, ML Engraving has made a formidable evolution path climbing the peaks of the European market and establishing itself as excellent partner for laser engraving and laser texturing.

Digitization, problem-solving attitude and a tight-knit team of professionals are the key assets of the company, along with innovation and research. In fact, the Italian company has an internal engineering department for the development of new procedures, but also to test and build technologies and advanced laser machines.

## SERVICES PROVIDED:

- Digital co-design for the definition of a soft-skin texture, that preserves skin from damages due to constant use of the mask.
- Creation of immersive renders that simulate the final product with detailed representation of the textured areas.
- Laser engraving service on prototype and serial moulds by means of high performance 5-axes laser machines.
- Measurements and analysis of texture parameters, such as depth and roughness.


**Contact:**

**Ersilio Lodetti**
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OR.P. STAMPI SRL is an Italian Company founded in 1980. Leader in the design and realization of moulds for elastomeric compound and silicons. Togheter with peripheral devices and automatic solution for all moulds technique, OR.P. can offers to its customer and partner advanced and updated solution. The quality of the mould for the quality of the job.

## SERVICES PROVIDED:

- OR.P. STAMPI will bring its experience and know-how in terms of mould design and realization for a common result of a silicon mask moulded. The choise of the correct system and materials is foundamental to achieve the result.


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# OR.P. STAMPI SRL

# SKM Aeronautics Ltd

SKM Aeronautics is a leading boutique manufacturer of customized and precision rubber sealing solutions. Certified to quality standards AS9100 Aerospace And Aviation, ISO13485:2016 Medical Devices and ISO9001:2015 Industrial Standard, and with over 60 years of experience in the core of the rubber industry, SKM provides reliable and innovative sealing solutions to meet the most demanding of end-user applications, in industries such as aerospace and aviation, military and defense, communication and electro-optics, medical devices, energy oil and gas, semiconductors, and automotive.

## SERVICES PROVIDED:

- Definition of silicone compounds
- Laboratory tests of silicones
- Design of prototype and serial face mask
- Internal simulation of production process
- Molding of prototype and serial face mask
- Documentation of production measurements

SKM Aeronautics Ltd.

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STAM is a private engineering company with a staff of more than 25 people, based in Genoa, Italy. The main mission of the company is to provide engineering services to industries. Since its establishment in 1997, the company has been specializing in design and manufacturing of innovative mechanical systems, based on conventional and non-conventional robotics and mechatronics.

## SERVICES PROVIDED:

- Simulation of robotics
- Consultancy projects (including the execution of SW by themselves); possibly access to lab equipment.
- Combining background on robotics (they also have a robotics lab for research and innovation activities) and expertise in modelling and running robotics simulation (e.g. using the open-source software Gazebo), STAM helps especially traditional companies to introduce robotics and automation in their production lines.


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# STAM SRL

STAM
MASTERING EXCELLENCE

# Technische Universitaet Wien

TECHNISCHE UNIVERSITÄT WIEN
Vienna | Austria



TU Wien's mission statement is "Technology for people". It stands for academic excellence through research and competence through teaching. Austria's largest technological university comprises eight faculties and teaches over 28000 students. It covers a wide spectrum, from abstract pure research and fundamental principles of science, to applied technological research and partnership with industry. Linking both, theory and application, adds value to both research and teaching.

## SERVICES PROVIDED:

- IPR management, legal affairs, data management
- Expert support for platform owners
- Strong expertise in IPR management and legal aspects of innovation

## Contact:

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TecnoStatic is the leading European manufacturer of electrostatic spraying equipment. Our patented “all-encompassing” electrostatic spray technology enables our customers to reach every surface and object needing spraying to be disinfected. This innovative formula improves results thanks to a total disinfection in a simple and fast way, saving time and resources.

## SERVICES PROVIDED:

- Manufacture electrostatic sprayers for disinfecting surfaces at a competitive market price.
- Provide healthy solutions
- Provide our customers with security, savings, competitiveness and improvements in their production processes.


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# TecnoStatic

TecnoStatic
Tecnología Electrostática I Electrostatic Technology

# University of Applied Science of Southern Switzerland (SUPSI)

University of Applied Sciences and Arts of Southern Switzerland

SUPSI



SUPSI offers more than 30 university degree courses featuring practical orientation and direct activities in industry. Great focus is given to research funded within European and Swiss frameworks. The Institute of System and Technologies for Sustainable Production joined CO-VERSATILE to further exploit one of its goals through the identification of novel approaches and business models supporting manufacturing companies' adaptation to rapidly changing environments.

## SERVICES PROVIDED:

- Coaching on certification
- Consultancy projects; training courses
- Ad-hoc investigation of certification needs comparing current certifications held by the company and required for the to-be scenario
- Business modelling and business case definition
- Customized business model investigation both from scratch and in connection with the starting point of the company
- Business case creation in compliance with the Lean start-up methodology

**Contact:**
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www.supsi.ch/isteps_en.html

University of Westminster started out 180 years ago as the first Polytechnic in London and one of the first in the UK, established to educate the working people of London. The Politechic was re-designated as the University of Westminster in 1992. Today the University continues to build on this reputation, helping students from a variety of backgrounds to realise their full potential. The University supports more than 19,000 students of 169 nationalities on undergraduate, postgraduate and professional courses. The University have 183 industrial partners including large corporates, SMEs and charities, which offer placements and work experience to Westminster students.

Research Centre for Parallel Computing (CPC) is one of the first University Research Centres at the University of Westminster. It has two missions. First, it is, as a centre of excellence in distributed and high-performance parallel computing, involved in research and development in Distributed and Parallel Computing, particularly in the domain of cloud, fog and edge computing. To support the management of high-performance computing and data intensive applications in the Cloud, the CPC developed the MICADO (Microservice-based Cloud Application Level Dynamic Orchestrator) solution. MiCADO deploys and dynamically executes applications in the Cloud considering their constantly changing requirements. MiCADO was extended to MiCADO-Edge to support application management in the cloud-to-edge continuum. Beyond core research and development activities, the CPC also collaborates and supports other research teams within and outside the University in different disciplines, and also industry communities, especially in the manufacturing and healthcare sectors. This cooperation could be either consultancy or joint research projects. The cooperation could include problem investigation, developing concept, elaboration of proof-of-concept and developing prototypes within joint research projects.

## SERVICES PROVIDED IN CO-VERSATILE:

- Consultancy on how to transfer application to the Cloud including.
  - containerization of software applications
  - deploying and running applications in the Cloud.
- Elaboration of proof-of-concept.
- Development of prototypes.


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# University of Westminster LBG

UNIVERSITY OF WESTMINSTER

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# Interested in a service or company?

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