

THE POWERTRAIN ECOSYSTEM IN PARIS REGION

CLUST-ER
MECH
MECCATRONICA E MOTORISTICA



next
move
collaboration is the driver

October 14-16, 2024

ITALIAN DELEGATION

Participants Booklet

Blandine FLICHY

Innovation & Europe Project Manager



NextMove is a cluster dedicated to Automotive and Mobility industry funded in March 2006 which drives innovation in this industry and fosters the funding of R&I projects and collaborative business between its +600 members, contributing to the development of companies in Normandy and the Greater Paris area, where 70% of France's automotive R&D is performed, and the reinforcement of international competitiveness of French businesses on the continent and overseas.

Since it was created, NextMove has registered more than 500 R&I projects involving 1500 partners. Research activities are managed within four thematic fields corresponding to the major challenges the automotive and mobility industry is facing: Safe, connected and autonomous mobility, Mobility with low environmental footprint, New services and mobility solutions and, Industrial and operational excellence.

Through its services: Innovation, Business, Skills and Network, the cluster provides daily support to its members to transform their innovation projects into competitive products or services on the market.

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MESAP is an innovation cluster gathering over 230 members in the Piedmont region including around 200 SMES, 30 large firms, 2 universities and 9 research institutes. It promotes connection between the regional players and supports projects in order to increase the competitiveness of its ecosystem.

MESAP offers a wide range of constantly updated services to endorse smart products and processes and their producers. Since its creation in 2009, the cluster has been maintaining relationships with European and international centres of excellence to involve leading companies, adopt technological and market mega-trends and lobby decision-makers.



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The Industrial Union offers a wide range of services as well as initiatives to provide support and guarantee competitiveness to companies in all fields of interest: training, safety, sustainability, environment, quality, tax assistance, internationalization, corporate finance...

It caters for the needs of companies in the historical sectors of Turin's industry (metalworking, chemicals, chemicals, graphics), as well as all the production sectors of goods and services (logistics and transport, energy, robotics, mechatronics, aerospace, ICT...).



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The Mechatronics and Motoristics Clust-ER is an association of 110 among public and private bodies: companies, research centres and training institutions that share skills, ideas and resources to support the competitiveness of the sector.

As part of the Clust-ER initiative set up by the Emilia-Romagna Region, Clust-ER MECH aims at multiplying innovation opportunities through a collaborative approach, as it focuses its activity in R&D strategic areas : Safe, efficient and sustainable Engines and Vehicles, Advanced Materials for Motoristics and Mechatronics, Digital and Advanced Manufacturing, Automation and Robotics, Avionics and Aerospace...

The mechanical sector employs over 350,000 people in Emilia-Romania and is the most important one in terms of revenues and exports. A number of worldwide famous brands both in the automotive and in the mechanical sector are located in the region.

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CSI is a European center of excellence for testing and certification of material, products, managing system and business compliance. With a team of 400 experts including engineers, physics, microbiologist it is known to be a technology hub: quality, safety and sustainability are the focal point of the business.

AS a IMQ Group Company, it boasts an Automotive BU making it a European center of excellence in the field of vehicle testing with services, skills and facilities that span the entire range of new product development, from validation and regulatory and/or voluntary compliance checks to homologation services. It ranges from the fields of active and passive safety, to vibro-acoustics, development of engine performance, vehicle dynamics, verification and qualification of mechanical and mechatronic systems and components, numerical simulation, validation of systems integration, as well as transport safety (road restraint systems, vertical signals, connectivity vehicles-infrastructures ...).

With over 25 years of experience, CSI has been the strategic supplier of the main OEM'S, Tier1 and Tier2.



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Dimac produces Automatic SPC & 100% sorting systems for quality control of metal parts, fasteners, and formed or turned special parts.

It holds an expertise in R&D of hardware and software solutions for aspect control and measurement of parts ; as well as design and production of mechanical, electrical, and electronic solutions.

Dimac's machines are run worldwide by the most important fastener manufacturers for the automotive, aerospace, and wide producers of fixing elements.

Its products are designed based on high-quality standards ensuring they can last and work non-stop for twenty or more years.



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MechVib Engineering is an innovative start-up providing advanced NVH engineering services, relying on academic background gained after more than 15 years of experience in research projects and collaborations with Italian and multinational corporations.

Founded by Professors and Researchers of the Mechanics and Vibration Research Group of the University of Ferrara, it offers consulting relying on experimental dynamic testing, innovative signal processing techniques and artificial intelligence technology (diagnostics, Prognostics & Predictive maintenance, AI-based models, End of line quality control, Structural dynamics...).

Besides, MechVib provides hardware and software packages suitable for dynamic testing and NVH analysis (Signal acquisition, Data processing & diagnostics, Real-time condition monitoring, Portable and rugged data acquisition system...).



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R&D CFD offers its customers highly experienced engineering services on all thermo-fluid dynamics applications by means of CFD (Computational Fluid Dynamics) simulations.

Born on 2012 as spin-off company of the University of Modena and Reggio Emilia, it provides technical support and turnkey solutions for failure analyses, design and production process optimisation, digital twins by means of computational thermo-fluid dynamics simulation.

Its turnkey solutions apply to a broad range of application sectors : Transportation (Cars, motorbikes, commercial vehicles, marine, aerospace, defense...), Energy, Industrial equipment, Healthcare... R&D CFD carries out simulations in areas such as aerodynamics, fuels, thermal management, electrical characteristics, noise, erosion, pollutants, cavitation, de-icing...



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Simpro is a world's leading provider of turnkey systems for testing and final quality assessment of engines and transmission systems. It specialises in hot and cold test benches, leak test equipment, in cavity waxing technology, and relative conveyor systems and facilities.

During 30 years of activities, Simpro has consolidated its international presence through worldwide production plants and branches located in Italy, USA, Brazil, India and China. It has successfully supplied more than 500 main installations for major automotive and railway manufacturers worldwide.

Today it cooperates with the best automakers, providing them with intelligent solutions and high-efficient plants.



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The University of Bologna was founded in 1088 and is one of Italy's largest and most renowned universities. Around 100,000 students attend the 260 Degree programmes this University offers, 8,000 of whom are international students.

The University of Bologna is made up of 31 departments, 12 research and training centres and 7 interdepartmental and industrial research centres. Its scientific community counts 6,850 scholars (3,122 teachers and researchers, 2,430 PhD students, and 1,298 research fellows). Over 670 research projects have been funded by the EU, 58 active spin-offs and start-ups have been created, and around 800 patents have been registered. Besides, the University of Bologna has entered 49 framework agreements with private enterprises, to establish long-term collaborations.

Its Department of Industrial engineering conducts research regarding Automotive, Mobility and Transport, and more precisely on topics such as : Automation and mechatronics, Metallurgy, Simulation and development of environmentally friendly endothermic engines, Processing technologies and systems...



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The University of Ferrara is one of the oldest universities in the world, founded in 1391.

With 68 Bachelor's and Master's degree courses, more than 28,000 students and 1,000 international students, the University of Ferrara counts 13 Departments. Regarding research, the University hosts an Institute for advanced studies, 38 research centres, 4 Technopole laboratories, more than 180 researchers and 400 PhD students.

Its Department of Engineering offers 3 Bachelor's et 4 Master's degree programmes, including a Mechanical engineering Master's degree. Focusing on three main research areas (Civil engineering, Mechanics, and Information technology), the Department has participated in 8 research projects that have been funded by the European Union in the last years. It also maintains numerous collaborations and research contracts with private enterprises.



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Francesco LEALI

President of School of Engineering, Science and Technology & Deputy Director

The University of Modena and Reggio Emilia dates back from 1175 and has gradually expanded to become a multidisciplinary, active and dynamic university.

With around 30,000 students and over 1,400 teaching, research and technical-administrative staff, Unimore consists of 13 Departments and 2 Faculties/Schools.

Within the last 5 years, the Unimore has carried out around 14,000 scientific articles and 200 European/International research projects.

The “Enzo Ferrari” Department of Engineering is dedicated to teaching, research and technology transfer in fields such as electronics, automotive, materials, computer science... It is strongly active, both in the national and international arena, engaging in scientific projects through established and recognised partnerships with the leading companies of the area.



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