Spain

Automotive Interiors Expo 2024

November 12th – 14th 2024
Messe Stuttgart, Germany
Hall 10 – Stands 1500, 1708 & 1714

Spain

Hall 10 – Stands 1500, 1708 & 1714

Exhibiting companies

CEDRION	**www.cedrion.com**
CIDETEC	**surfaceengineering.cidetec.es**
CTAG	**www.ctag.com**
EMBEGA	**www.embega.es**
EURECAT	**www.eurecat.org**
FUNCTIONAL PRINT CLUSTER	**www.functionalprint.com/cluster**
INDUSTRIAS ALEGRE	**www.ialegre.com**
NAITEC	**www.naitec.es**
WALTER PACK	**www.walterpack.com**

Automotive Interiors Expo 2024

HALL 10

Stand 1714
EURECAT

Spain

Stand 1708
CEDRION
CIDETEC
CTAG
FUNCTIONAL PRINT CLUSTER
INDUSTRIAS ALEGRE
NAITEC
WALTER PACK

Stand 1500
EMBEGA

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www.cedrion.com

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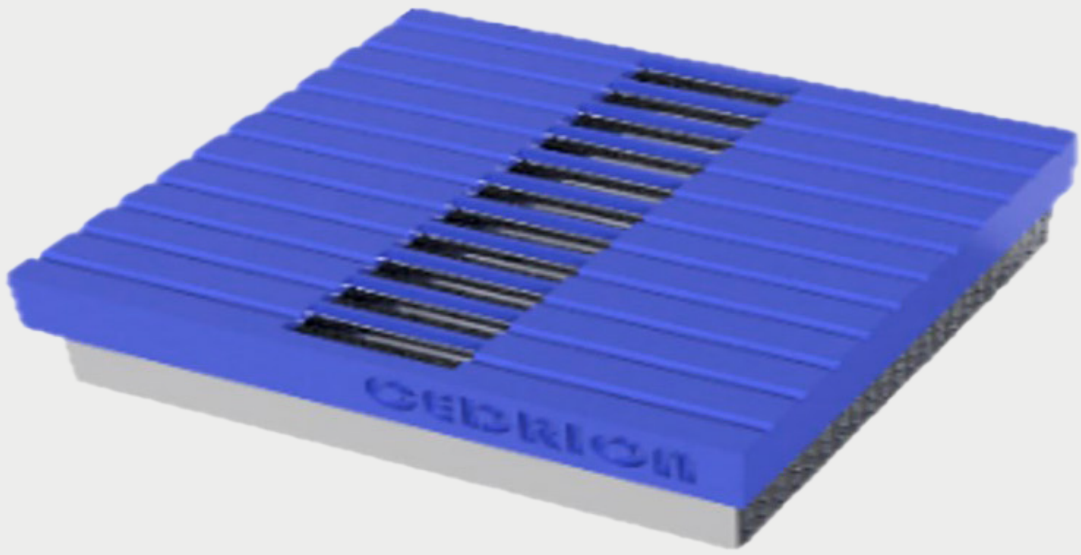

COMPANY DESCRIPTION

CEDRION is a Spanish start-up expert in thermal management through ionic wind. Their devices are an alternative to fans and heat sinks getting the same thermal management with half the weight, half the volume and power consumption. They do not have moving parts so are fully silent.

Also, they have developed KIRION the most efficient technology to inactivate microorganisms, particles and odors in interiors fully silent. This technology has been demonstrated scientifically and has the validity of top centers and hospitals. CEDRION offers this technology to ensure the best environment in the cabin of the vehicles.

TECHNOLOGIES AND PRODUCTS

CEDRION is showing two main product range based on their patented cold plasma technology:

· Devices for **thermal management**. Boreas and Airox are the two products that we present to improve the ventilation and refrigeration that fans and heat sinks offer to the electronics of the vehicle. Our systems are half the weight and power consumption than fan assisted heat sinks and up to 7 times lighter than heatsinks. Without moving parts are fully silent.

· Kirion onboard, to **purify the air** in the cabin, scientifically demonstrated as the most effective system to eliminate microorganisms, particles and odors completely silent. The big brothers of the Kirion range are being used in Hospitals and ambulances to purify air without using any chemical, so we take the Kirion on-board device to this exhibition.

Stand **1708**

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cidetec
surface engineering

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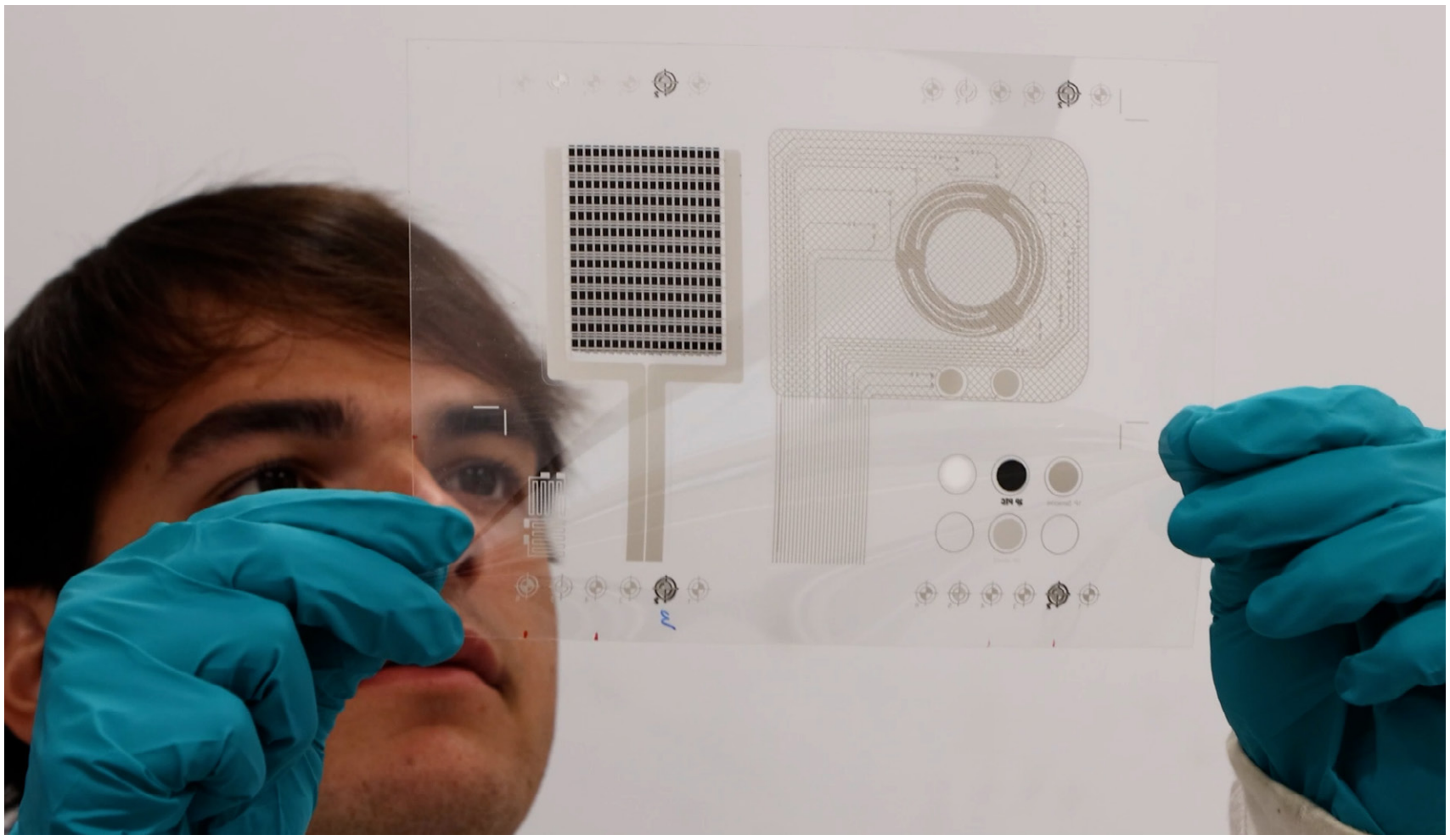

COMPANY DESCRIPTION

CIDETEC Surface Engineering is a key international player in research and innovation related to smart surfaces, surface engineering and composite materials. We specialize in printed electronics, sustainable composites, REACH compliance solutions, aesthetic and functional coatings and advanced paints.

Regarding printed electronics, CIDETEC has made investments to address the deposition of advanced inks on more sustainable plastic substrates, to obtain multifunctional components that facilitate the comfort, safety, connectivity and circularity of future vehicles. Furthermore, our research team seeks to connect said knowledge and solutions with other areas of mobility, the construction sector or the health sector.

Smart surfaces endow materials with intelligence, providing new functions that respond to both current and future needs. They can generate light, measure environmental parameters, detect the onset of corrosion, monitor temperature, etc. But in almost all cases, the goal of smart surfaces is to provide functionality while reducing weight, space, cost or complexity.

TECHNOLOGIES AND PRODUCTS

Reach compliant solutions, printed electronics, smart and functional surfaces, functional aesthetics, omniphobic surfaces, protective and barrier coatings, sustainable composites, advanced paints.

The electrification and connectivity of the Automotive sector entails great changes that are being faced through solutions based on printed electronics, which is leading to a strong development of this technology. Flexible substrates such as plastic or textile, among others, allow the integration of new devices (displays, antennas, lighting, heaters, etc.), reducing the number of components and their size; even replacing the wiring with a single printed circuit that covers the entire surface. This provides numerous advantages in terms of design flexibility, cost and space compared to conventional electronics.

In printed electronics we cover all the In mold electronic process: Ink modification, screen printing, pick & place, electronic programming, high pressure thermoforming (thanks to our newly acquired niebling machine) and plastic injection.

www.ctag.com

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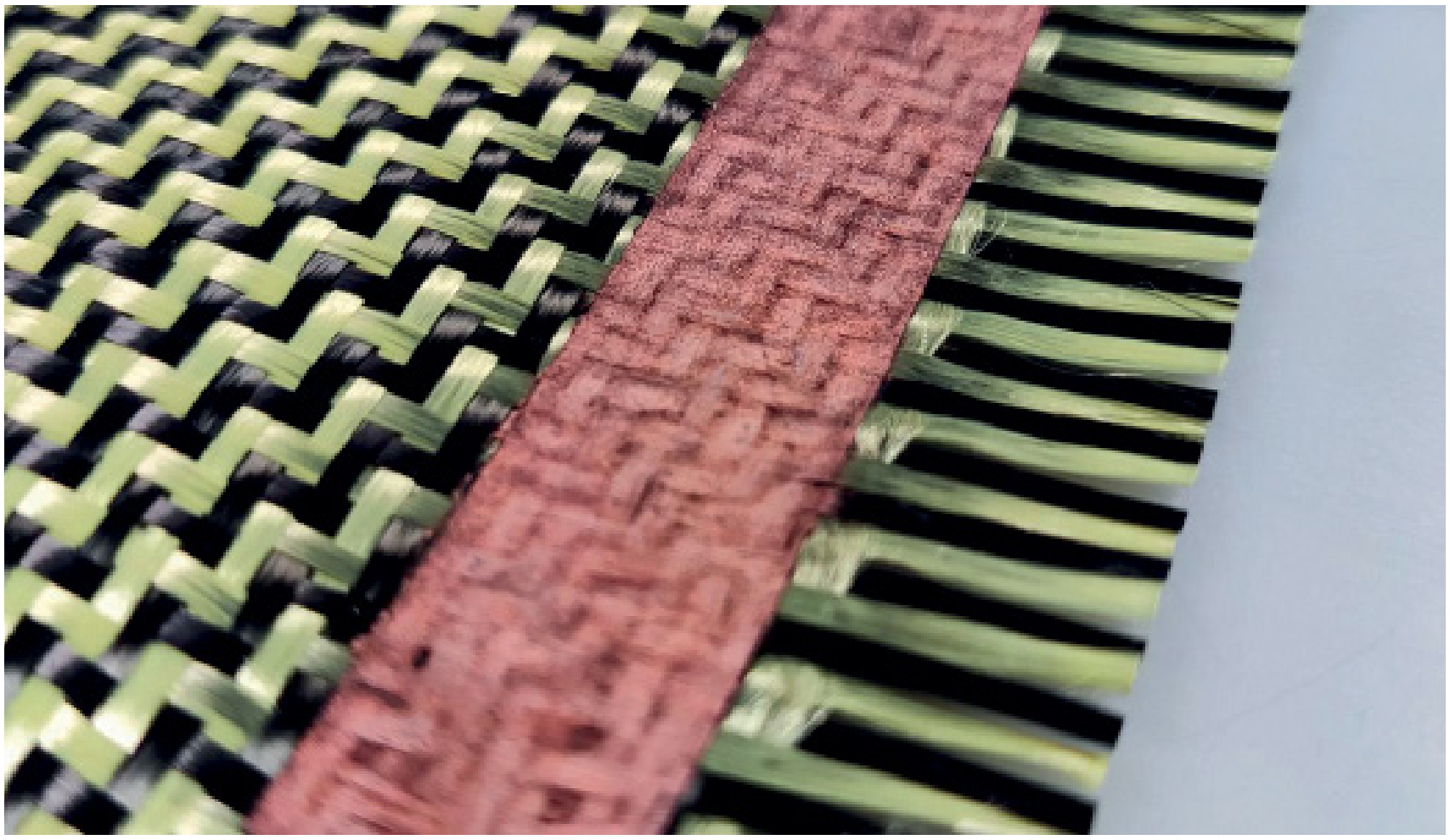

COMPANY DESCRIPTION

CTAG is a private research, development and innovation centre focused on the mobility industry, with a firm commitment towards R&I and extensive experience in product and process development.

TECHNOLOGIES AND PRODUCTS

CTAG's Product Innovation and Materials Department focuses on the research and application of novel materials for the automotive industry. Our R&D lines present innovative solutions to respond to the current and emerging needs of the industry, addressing wellbeing, system development & integration, sustainability, and advanced processing. CTAG works on integrating multifunctional surfaces, such as radiant heating systems and electronic films, to create smart components. These innovations allow for weight reduction, enhanced aesthetics, and the addition of new functionalities without compromising performance.

Moreover, their commitment to the circular economy drives technologies for the use of renewable materials, including bio-based plastics and natural fibres, as well as recycling and waste valorisation processes, contributing to more sustainable production. Key technologies include 3D printing, injection-compression moulding, and UD-tape consolidation, enabling the production of lighter and stronger components, crucial for improving vehicle energy efficiency.

www.embega.es

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COMPANY DESCRIPTION

EMBEGA: from LAB to FAB. Advanced Flexible Printed Sensor Solutions for Automotive Industry.

EMBEGA, a Company of the **Mondragon Group**, has a strategic business unit in printed sensors. Its main markets are Automotive Industry, Household Appliances, and the Medical Equipment Manufacturers.

EMBEGA S. Coop., in cooperation with its R&D&I unit **CENTRO STIRLING**, is focused on the fabrication and development of printed sensors and printed gaskets, providing a seamless transition to fabrication processes from laboratory applications.

EMBEGA's differential value over its competitors lies in the **engineering-based solutions** that deliver the customer knowledge and improvement over its value chain, customized aesthetics, branding and a tailor-made response to each specific need of a customer.

At EMBEGA, we leverage all our experience in functional printing developing new products with multiple functionalities on a wide variety of substrates. This allows us to integrate a range of **new possibilities in any product**, whatever shape, size or material it has, in the most diverse areas of applications.

TECHNOLOGIES AND PRODUCTS

EMBEGA has an activity of printed sensors with customers in main markets such as Automotive Industry, Household Appliances, and Medical Equipment Manufacturers.

Screen printing on flexible materials:

· Fine line screen-printing: up to 50µm width conductive lines.

· Wide range of support materials from polyesters to metals, flexible substrates, light-diffusion materials…

· Different technical inks, nano inks, polymers, silicones...

Sensing technologies: based on printing, thin-film technologies, flexible electronics..., technologies with very high reliability that meet the most exigent requirements of sectors such as automotive, home automation, white goods ... capacitive sensors, resistive sensors, pressure sensors, piezoelectric, heaters...

Ultra-slim backlighting: enhance your product interface with the latest backlighting and touch technologies. We can isolate illumination, giving an array of options to enhance or define products from flashing sequences to animated color changes.

Mondragon Corporation, the strength of a leading Group: EMBEGA and Centro Stirling are part of Mondragon Corporation, the first business group in the Basque Country and the tenth in Spain.

Stand **1500/1708**

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eurecat
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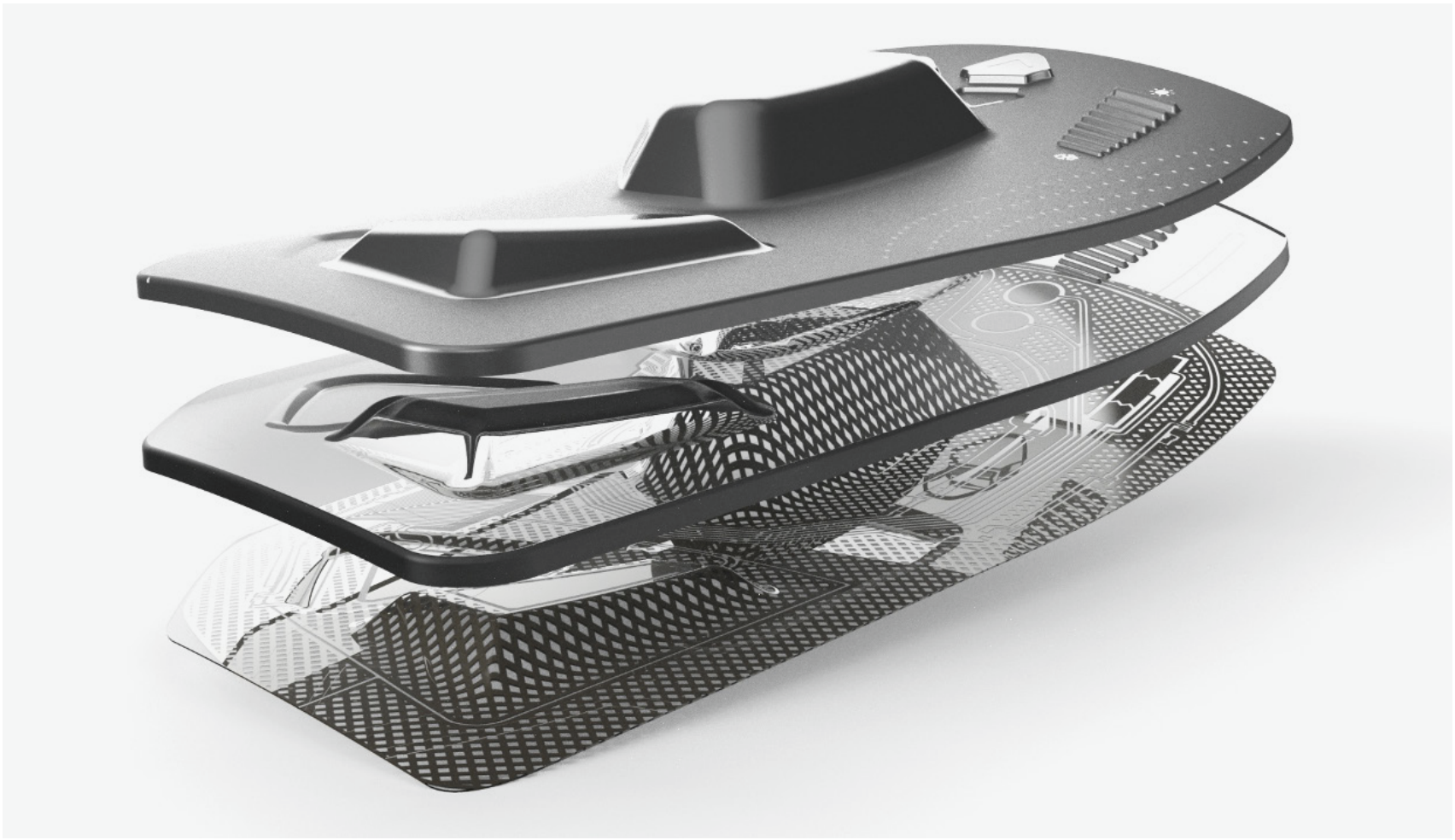

COMPANY DESCRIPTION

EURECAT is the main technology centre in Catalonia. Provides the industrial and business sector with differential technology and advanced knowledge to meet current trends innovation needs and boost industrial competitiveness. EURECAT supports companies in their internationalization processes through technology and builds strategic collaborations with international agents that promote innovation: technology centers, networks, platforms, innovation agencies and companies. With a turnover of 63 million euros a year, it includes more than 750 professionals and participates in more than 200 R&D+i projects of high strategic value on a national and international scale. The technology centre has 200 patents and 9 spin-offs and is recognized by the European Commission as a KETs technology center (Key Enabling Technologies or Essential Facilitators Technologies) due to its strong collaboration with SMEs in innovation and market research activities.

"Design meets technology". EURECAT takes smart plastics & smart textiles to the next level.

TECHNOLOGIES AND PRODUCTS

· **Plastronics Technology**: an emerging technology combining electronics and plastics to create products with high-added value, and advanced functions or features.

· **Project Púlsar** demonstrates the application of Plastronics in a vehicle centre console. With only 3mm in thickness, this smart plastics surface presents an intuitive HMI interface with seamless LED illumination and capacitive sensors, all monolithically embedded within a single plastic part.

· **Functional Textiles**. We design and develop new textile structures that provide more efficient solutions in terms of both cost and functional and structural properties, thus overcoming the limitations inherent to traditional technologies, which tend to be inflexible and costly.

Stand **1714/1708**

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www.functionalprint.com/cluster

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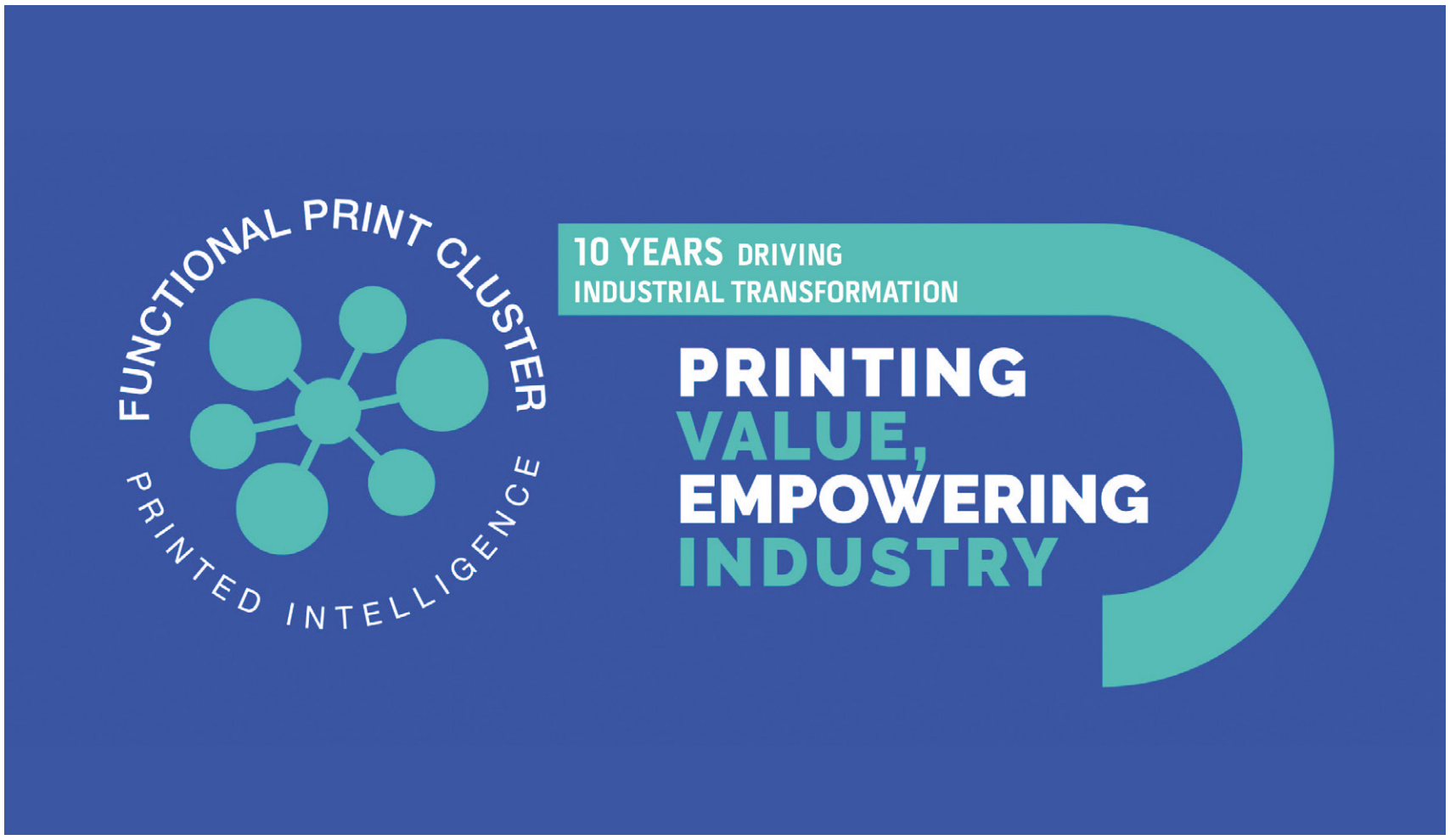

COMPANY DESCRIPTION

FUNCTIONAL PRINT CLUSTER is an innovative and transversal ecosystem that brings together almost ninety companies, SMEs, technological centers and universities, involved in activities related to the support and development of advanced printing in Spain and southern Europe. Our general objective is to be a transmission mechanism for new advanced printing technologies, from a perspective of new business opportunities. Bring to the industry and the market, those new applications and new developments that can be carried out using these technologies. Functionalization as a diversification and innovation strategy.

This year 2024, the FUNCTIONAL PRINT CLUSTER participates in 7 R&D&I projects that involve a total of 36 companies, At the same time, they begin the execution of the INFINITE project, the Erasmus COVE project, which aims to establish a European network of Vocational Training Centers at regional and national level in collaboration with Clusters and Vocational Training centers from Germany, Latvia, Spain and Finland.

SECTORS

- Mobility
- Packaging & Logistics
- IoT & Wearables
- Smart Building
- Health & Wellness

TECHNOLOGIES AND PRODUCTS

TECHNOLOGIES: Printed electronics, In mold Electronics, Additive printing, Biofunctional printing.

PROJECTS PRESENTED: AEI projects that FUNCTIONAL PRINT CLUSTER is currently working on: GRASSTWIN, PLAI-ISENS y CRITERION2

EUROPEAN PROJECTS: Infinite Project: European project framed in the “ERASMUS+ Programme” and “Call Partnership for Excellence - Centers of Vocational Excellence.

The objective of the project is to establish a European network of VET Centers at regional and national level (Germany, Latvia, Spain and Finland), to create a comprehensive ecosystem of skills, implementation of new qualifications in national VET systems and encourage collaboration and mobility between training centres, universities and European industries.

Iris EDIH: Navarra Digital Innovation Hub, within the framework of the Digital Europe programme, IRIS act as a catalyst for digital transformation by offering its specialized services in Artificial Intelligence, Supercomputing and Personalized Precision Medicine to companies and public entities at regional, national and European levels.

INDUSTRIAS ALEGRE

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Plastic Injection Specialists for the Automotive Sector

COMPANY DESCRIPTION

INDUSTRIAS ALEGRE is an international Spanish company whose leadership is based on offering **global solutions in plastics**. The company is well established in the automotive, logistics and specialised industry sectors and has more than seven decades of industrial experience.

During this time, it has shown that it is an expert in taking on the **development of complete projects**, accompanying its customers from the beginning, collaborating in the resolution of their challenges, designing the parts, choosing the materials and producing the series, by plastic injection or additive manufacturing, always ensuring the viability and profitability of the projects.

Founded in 1953, it has two owned manufacturing plants, one in Valencia (Spain), and another in Wroclaw (Poland). It is also present in Romania, as well as in Mexico and India through collaborating partners.

SECTORS

- Automotive
- Packaging
- Industrial

TECHNOLOGIES AND PRODUCTS

As a **full service supplier** of highly technical processes and complex injection moulded plastic parts for the automotive industry, the products it develops for this sector are very diverse, including components for vehicle interiors and exteriors, battery components, seat components, consoles, hard trim and more. Additionally the company offers **logistics solutions** with high added value: returnable containers, zero waste, equipped with intelligence to achieve **connected logistics** in real time.

The company has technologies for single and bi-material plastic injection moulding, gas injection moulding, blow moulding, as well as various auxiliary technologies such as welding, hot stamping and others, all with highly robotised workstations.

The **culture of innovation** has been part of the company since its beginnings. The innovation lines are currently focused on:

- **New materials**. Incorporation of **reused plastics** and **lightweight composites** to lighten the vehicle. **Elimination of painting** with direct injection substitute materials.
- **3D printing with polypropylene**.
- **Plastronics**. Alegre offers the development of plastic parts with integrated electronics.

NAITEC

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COMPANY DESCRIPTION

NAITEC is Navarre's technology centre for mobility and mechatronics.

We offer companies solutions to develop more competitive and sustainable products and processes. We look at the whole life cycle to identify areas where companies can gain in terms of functionality, efficiency and sustainability.

We contribute with our knowledge in:

- AI and Data Analytics
- Ecodesign and Energy Intelligence
- New Materials
- Validation Engineering
- Advanced and Sustainable Manufacturing
- Electronics and Intelligent Transport Systems

TECHNOLOGIES AND PRODUCTS

We support the automotive interior industry with our experience and expertise in the following areas:

- **Printed electronics.**

- **2D functional printing**. With more than 20 years of experience in 2D functional printing, NAITEC offers companies extensive expertise in the development of printed electronic products, from concept and design to material selection or formulation, printing techniques and electronic validation.

- **3D functional additive manufacturing**. NAITEC has extensive expertise in both functional material development and printed electronic product development and validation.

- **Formulation and functionalization of materials with new properties**.

- **Sustainability and Eco-design**: energy efficiency, life cycle analysis for product and process and environmental impact measurement.

WALTER PACK

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COMPANY DESCRIPTION

Since 1992, WALTER PACK has set the standard in designing and developing high-value, functional decorative plastic parts. Driven by the passion and expertise of our Color & Trim and R&D teams, we have become a global benchmark in advanced technologies such as IMD, IML, and IME/Plastronic, with a strong focus on IMF, the cornerstone of our international success. Our commitment to people, innovation, and sustainable growth has positioned us at the forefront of the industry, delivering cutting-edge solutions to the automotive sector.

TECHNOLOGIES AND PRODUCTS

Walter Pack specializes in advanced plastic product manufacturing. Our expertise in IMF, IME, and foil decoration allows us to create durable and visually stunning products that seamlessly integrate hidden displays and backlit elements. Moreover, integrating electronics into plastics, our products are ideal for those looking to incorporate new technology into their designs.

IMD: In-Mold Decoration

In-Mold Decoration (IMD) redefines the decorative finishing of plastic parts, allowing us to create visually striking, functional surfaces with unmatched durability and design flexibility. IMD enables us to deliver parts that meet the highest quality standards, combining beauty with performance.

IMF: In-Mold Forming

In-Mold Forming (IMF) is central to our business. This technique allows us to produce high-quality, three-dimensional plastic parts with decorative finishes that are durable and resistant to abrasion and wear, consistently meeting the highest OEM standards.

IME: In-Mold Electronics

In-Mold Electronics (IME) integrates electronic functionality directly into our products. This technology embeds electronic components within films that, after thermoforming, are molded into final parts, seamlessly merging aesthetics with advanced functionalities like Human-Machine Interfaces (HMI).

Organizer:

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Fondos Europeos