

## Eviden helps optimize Electric Vehicle Manufacturing through the European e-BEAT Project

**Madrid, Spain and Paris, France - September 3, 2024** - Eviden, the Atos Group business leading in digital, cloud, big data and security, today announced its participation in the **European e-BEAT project**, one of the winning R&D projects under the [CDTI<sup>1</sup> Sustainable Automotive Technology Program](#), aimed at optimizing electric vehicle manufacturing. Led by **Ford**, in collaboration with **Eviden, Valeo Iluminación, Vodafone, Mahle, TSE** and **Tyris.ai**, this project has a budget of €8,177,206, with €3,047,020 contributed by the CDTI. The project's goal is to validate a unique tool that enables intelligent real-time decision-making, allows for the adjustment of component design specifications at the supplier level and facilitates testing of new software without the need to physically build the vehicle.

The **Advanced Digital Monitoring System** developed as part of the **e-BEAT** project offers significant advantages, including reduced development time and costs, enhanced operator safety during manufacturing and improved sustainability of processes and components. The new system monitors People, Processes, Products and Plant, enabling early validation of components, functionalities, and software through the electric vehicle production value chain.

Within the project, Eviden is responsible for developing the **SAM4P Digital Platform** which integrates all applications and software related to the different elements of the vehicle. This platform supports intelligent decision-making by incorporating AI and Machine Learning capabilities, enabling the early identification and prediction of manufacturing defects.

### Four Areas of Focus

The project addresses four key areas of focus. The first area involves designing the vehicle's electrical architecture, optimizing, and verifying the functionality of all components and manufacturing processes before production begins.

The second area centers on logistics and component traceability, identifying potential improvements that could impact the assembly and adjustment process of certain components. This includes the use of innovative technologies such as IoT on private 5G networks.

The third pillar focuses on the quality of the manufacturing process, leveraging sensors, cameras, and AI-based image analysis technologies for early detection of assembly faults. The system collects data during assembly, applying predictive algorithms to identify and prevent potential future issues.

The final pillar of the project is dedicated to health and safety, aiming to enhance ergonomics

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<sup>1</sup> The CDTI-E.P.E. is a public entity, under the Ministry of Science, innovation and Universities, which promotes innovation and technological development of Spanish companies. It is the entity which channels requests for assistance and support for R&D&I projects of Spanish companies at both state and international levels.

at each workstation. Cameras analyze the posture and movements of assemblers, allowing for improvements in activities to ensure their health and safety.

*"The new platform will collect, consolidate and visualize all this information, facilitating decision-making both within each area and across the entire process,"* explains **Ignacio Collantes, Project Manager for Eviden at e-BEAT**. He adds *"In the manufacturing of an electric car, numerous systems are involved, yet there is currently no integrated platform that can enhance processes, prevent failures, and automate operations."*

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#### **Consortium partners:**



#### **About Eviden<sup>1</sup>**

Eviden is a next-gen technology leader in data-driven, trusted and sustainable digital transformation with a strong portfolio of patented technologies. With worldwide leading positions in advanced computing, security, AI, cloud and digital platforms, it provides deep expertise for all industries in more than 47 countries. Bringing together 47,000 world-class talents, Eviden expands the possibilities of data and technology across the digital continuum, now and for generations to come. Eviden is an Atos Group company with an annual revenue of c. € 5 billion.

#### **About Atos**

Atos is a global leader in digital transformation with c. 92,000 employees and annual revenue of c. € 10 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 69 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), and listed on Euronext Paris.

The purpose of Atos is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

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<sup>[1]</sup> Eviden business is operated through the following brands: AppCentrica, ATHEA, Cloudamize, Cloudreach, Cryptovision, DataSentics, Edifixio, Energy4U, Engage ESM, Evidian, Forensik, IDEAL GRP, In Fidem, Ipsotek, Maven Wave, Profit4SF, SEC Consult, Visual BI, Worldgrid, X-Perion. Eviden is a registered trademark.

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