



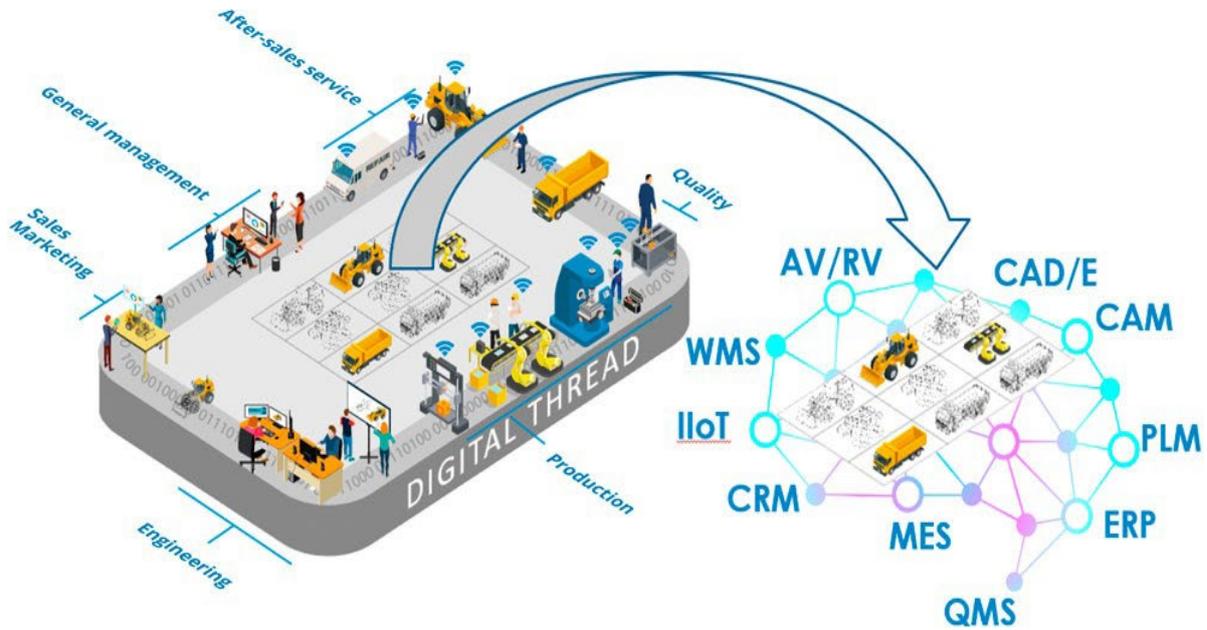
The **EGIDA** (*Estrategia de Gestión e Intervención Digital Aumentada* – in English Augmented Digital Intervention and Management Strategy) research project is driven by the consortium of companies **Integral Software Factory**, **Integral Innovation Experts**, **Zayer**, **Ona Electroerosion**, **Industrias Puigjaner** and **Industrias David**. Integral Software Factory is the leader of the project and provides the main base technologies.

This research project seeks to respond to the needs of Spanish SMEs **manufacturers of industrial products of ETO (Engineer to Order)** typology, which address the challenge of corporate adoption of **Servitization** as a mechanism of excellence, with which to have a differential advantage, in a growing and competitive market that allows, in turn, to have a recurring and sustainable income, beyond the initial transactional sale. This challenge entails the implementation of internal management mechanisms aimed at having a **Digital Twin**, which gathers and concentrates the complete disciplinary knowledge (mechanical, electrical/electronic and software) and vital (IIoT data, customer updates) of its unique products.

The main objective of the project is to investigate the application of **Digital Thread** techniques for the digitization and integral interconnection of tools, products and processes in the SME of semi-customized capital goods. This will allow automating customer response processes, in an agile and economical way, having an integrated system as a platform for the deployment of advanced **Artificial Intelligence (AI)**, **Machine Learning (ML)** and **Extended Visualization (RV-RA)** services and solutions.

As a result of the research project, the complete **digitalization of products and processes is expected to be achieved**, bringing all stages of development, manufacturing, sales and after-sales service into the digital world. This not only **reduces product development and manufacturing time and costs**, but also assists

people in the **decision-making process** by providing them with a complete overall picture of the products and processes.



The aim is to deploy the first **Machine Learning, Augmented Reality and Virtual Reality (VR-RA)** solutions based on the **twin strategy and digital manufacturing process**.

The project started last year 2021 will **last 3 years** and has the collaboration of the **Centro de Desarrollo Tecnológico Industrial (CDTI)** that provides European funds subsidizing **1,666,663.75€** out of a total **budget of 2,343,652.00€**. The objective of this public entity is to promote innovation and technological development of Spanish companies.

This project is part of the **MISSIONS** program of the Center for the Development of Industrial Technology (CDTI) and will be made possible thanks to European funds allocated to the national Recovery and Resilience Mechanism.



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More information about the consortium members: **Integral**

Software Factory: the business unit within Integral Group dedicated to the development of proprietary solutions to accelerate the digitalization of companies by adapting to the specific needs of each case.

Integral Innovation Experts: Integral Group is a business group focused on achieving the digital transformation of industrial companies through Industry 4.0. We have a know-how and a multidisciplinary experience of more than 25 years in the implementation of technological solutions.

Zayer: ZAYER is a machine tool company with more than 70 years of experience in manufacturing large milling machines and machining centers, continuously developing cutting-edge technologies and providing its customers with the best of its entrepreneurial spirit and innovative capacity.

Industrias Puigjaner: INDUSTRIAS PUIGJANER S.A. (DENN) is a company founded in 1885 specialized in the design and manufacture of machines for the deformation of metals (sheet, tube and billet) by rotation processes for more than 130 years. DENN's philosophy is based on the permanent collaboration with the customer in order to know what their needs, objectives and problems are and thus focus the R&D&I activities on finding concrete solutions to the market requirements.

Industrias David: Industrias David is a company with over 45 years of experience in the sector dedicated to the design, manufacture and marketing of customized agricultural machinery, specialized and exceptional design increasingly digitized. Its products are oriented towards precision agriculture, ecological and environmentally friendly. Its main objective is to achieve the full satisfaction of the farmer, which has allowed it to become today a world reference in mechanization solutions of high technological value for special crops.

Ona Electroerosion: With 70 years of experience in EDM, ONA is currently a world leader in the manufacture of special and large EDM machines. Thanks to a continued commitment to the development of proprietary technology and R&D&I efforts, the company has positioned itself as an industry benchmark in sustainability and EDM solutions focused on improving the customer's business and based on new products and services with a strong digitalization component.