



PRESS RELEASE

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Ecosystem for optimising production and external collaboration in manufacturing

About the project

The COMPOSITION project aims to develop a digital ecosystem in order to help factories optimise internal production processes and external collaboration with suppliers by putting existing data, knowledge and tools into place. COMPOSITION will develop an Integrated Information Management System which connects and integrates the heterogeneous data across the value chain, providing analysis, forecasting and decision support. Additionally, it will connect factories and suppliers in a virtual market, making it possible to fulfil actual production needs and open up for new collaborations, with security, privacy and data protection by design.

The consortium constitutes of 12 organisations from seven countries, mixing industrial, technology, research and business expertise. CERTH/ITI is involved as a technology provider working mainly in the Digital Factory modelling, as well as in simulation and forecasting in production and logistics. CERTH will also contribute to the development of an automated matchmaking engine for inquirers and suppliers. The scope is to improve responsiveness to dynamic market demands with reduction of order-to-delivery time, improvement of company responsiveness to client's needs, as well as increase transparency and competitiveness among suppliers.

The project will have a complete supply chain pilot implemented in Greece with two industrial partners from Greece, KLEEMANN and ELDIA. The pilot includes also Greek ICT company ATLANTIS Engineering and Italian Building Management System (BMS) provider NEXTWORKS.

Pilot site in Greece

The demonstrator site will be at KLEEMANN's manufacturing and storage facilities in Kilkis. KLEEMANN is a major lift company on the global scene, and the facilities are located in the industrial area, covering a total area of 63.258 m². The project will take into consideration the step-by-step production line of pistons, the flow of raw materials and products, the operational processes in the logistics warehouse and the waste management facilities.

The second industrial partner involved in the Greek pilot site is ELDIA who supplies waste management and recycling services to KLEEMANN and is among the industry leaders within this field in Greece. The company owns building facilities in Thessaloniki covering 50000 m², housing administration offices, transportation coordination office, as well as a Container Terminal, Solid Waste Transshipment and Sorting Station, Recyclable Material Sorting Station and a Waste-Baling Unit.

The aim in COMPOSITION is to optimise the current logistics processes of waste management between KLEEMANN and ELDIA. Furthermore, the objective of the project is to design and implement a technical operating system, connecting data between the factory and its suppliers. Also, to create a virtual marketplace where new, third party actors can access and share relevant information and offer new services

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which can help improve different production elements such as cycle time, cost, flexibility or resource usage. While cost-benefit analysis will be the main driver for the internal production processes, new innovative business models will be the main point of interest in dealing with the supply chain.

Acknowledgment / Contact details

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