

# Production with no defects

*How to improve the quality of multi stage production processes*



Production lines represent the operational foundations of most businesses: their functioning must obviously be constantly monitored and, possibly, improved. That's the focus of the "GOODMAN" H2020 project, coordinated by Loccioni, an Italian company based in the Marche region that has been working for 50 years in the quality control field. "The goal is to reach zero defects in a production line, where controls are distributed along the line itself, using intelligent measurement systems and Data and Knowledge Management techniques," says Cristina Cristalli, head of re-

search and innovation at Loccioni, "this allows to increase the flexibility of production, the quality of products and of the production process, while reducing waste and production costs". The project involves nine partners from several European countries, operating in different sectors, including some big industries (Volkswagen Autoeuropa, Electrolux Profesional, Zannini) as end users of the technologies to be developed, technological partners with a specific know-how (BOC, Nissatech) and universities, for the development of a new field of expertise (Polytechnic University of Marche, Istitu-

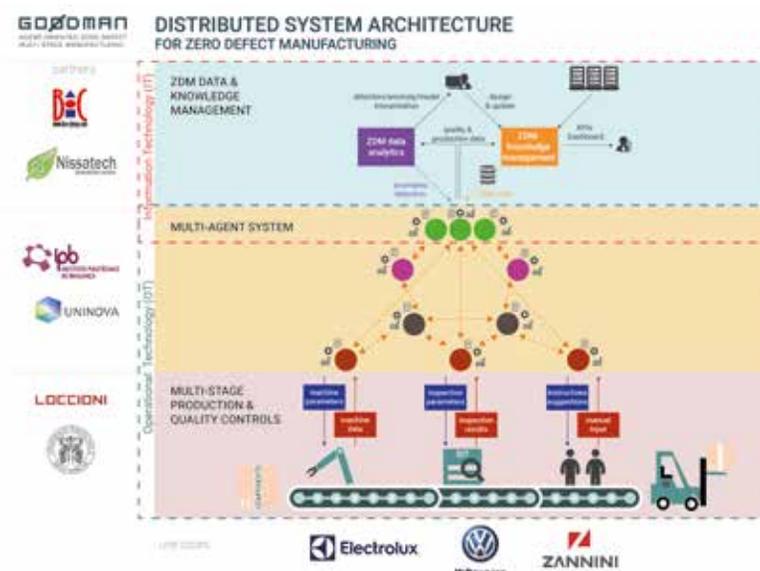


PORTABLE LASER SCANNER FOR ALIGNING ADJACENT PARTS

to Politecnico de Braganca, UNINOVA).

The project is half-way and has already achieved concrete results. "Two patent applications have been submitted, by the Polytechnic University of Marche, for two very interesting measurement systems. One is a portable laser scanner for the alignment of adjacent parts, the other is a telecentric lens for the detection of defects in high-precision machinery components". There is reason to believe that significant goals can be achieved in the manufacturing sector by managing the data generated by the sensors distributed along the production line, following the paradigms of Industry 4.0. "This was the first time Loccioni has coordinated such an important European project, although we have taken part in others. Our core business has been always based on innovation, measurements and data: that's why we accepted to be the lead partner and the integrator of the project. A challenging and enriching task that allows us to grow while contributing to the creation of an increasingly sustainable and efficient industry".

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GOODMAN PROJECT ARCHITECTURE FOR DISTRIBUTED QUALITY CONTROLS