

Two Factories in 20 m² Come and see at booth C080

Project realized in partnership with:



Istituto di Tecnologie Industriali e Automazione
Consorzio Nazionale delle Ricerche



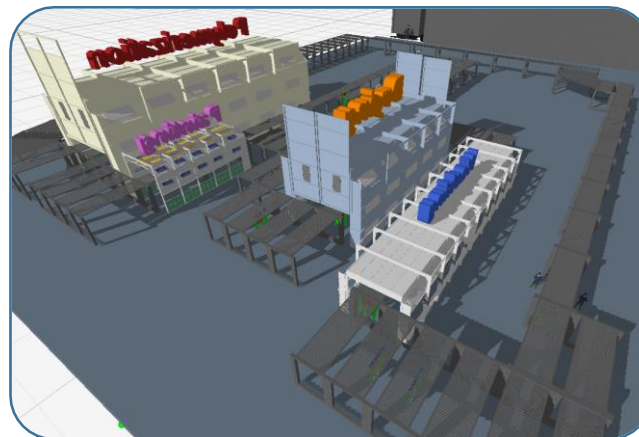
Identify the problem.
develop the solution



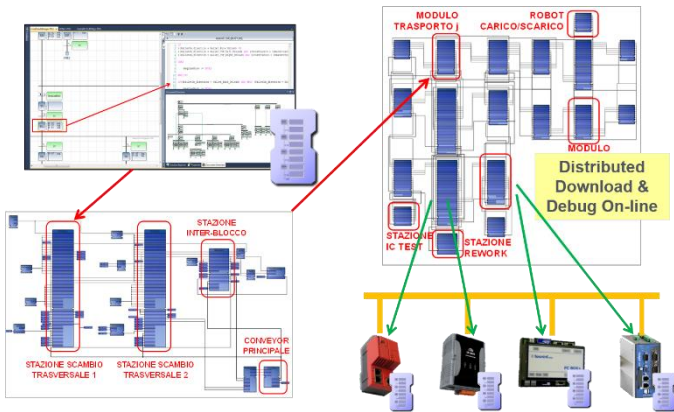
Synesis

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Virtual commissioning of automation systems for discrete manufacturing processes

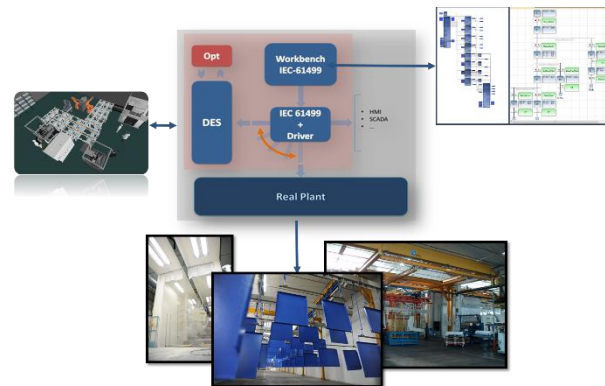


DESIGN OF MODULAR AND DISTRIBUTED CONTROL SOLUTIONS



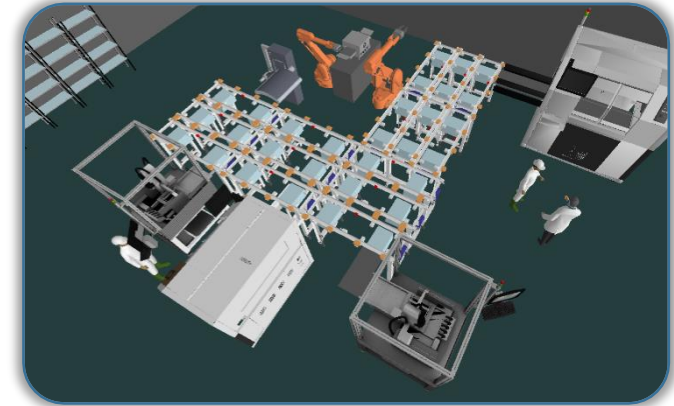
- Reduce design time for the automation control software of a cell/line;
- Minimize validation and commissioning time;
- Minimize reconfiguration time: reduced reset time on automation logics to integrate new functional modules, modify control algorithms, ...

DYNAMIC CONNECTION BETWEEN SOFT-PLC AND DISCRETE EVENTS SIMULATION



- Direct connection between standards-compliant IDE and simulation environment;
- Variable simulation time synchronized with control events;
- Seamless switching of control between virtual and real plant, for faster commissioning.

VALIDATION AND OPTIMIZATION OF THE PLANT IN VIRTUAL COMMISSIONING



- Accelerated debugging of automation control software;
- Validated optimization of algorithms to obtain more sustainable manufacturing processes;
- Modular modelling approach for easy-to-test reconfiguration of manufacturing systems.

ITIA-CNR, promoter of industrial innovation, performs strategic activities of Scientific Research and Technological Development for the Competitiveness and Sustainability of Italian and European Manufacturing Industries



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Synesis is European Consortium, bridging the gap between Research and Industry through the offer of technology transfer services to those companies that have chosen innovation as key answer to the new millennium manufacturing challenges.



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Prometeo is a company involved in the commercial distribution and technical support of software platforms for industrial automation, including IEC 61131/61499 automation suites, SCADA systems, industrial HMI for Android, etc.



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