

Asset Administration Shells (AAS) based Digital Twin pipelines



INDUSTRY 4.0 LAB IN A NUTSHELL

Founded: 1836

<u>Location</u>: Milano, Italy <u>Technology</u>: Digital Twin

Industry: Manufacturing

Website:

https://www.industry40lab.org/

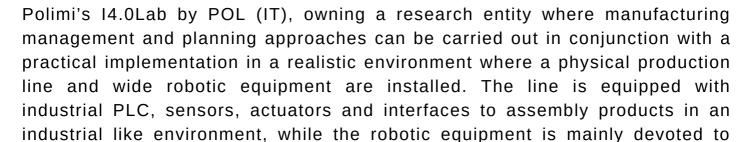




ABOUT INDUSTRY 4.0 LAB

The Manufacturing Group of Department of Management, Economics and Industrial Engineering of Politecnico di Milano created a tangible physical entity the research activity in the manufacturing management and planning approaches can be carried out in conjunction with a practical implementation in a "real-like" environment: the Industry 4.0 Lab (I4.0 LAB). The manufacturing ecosystem includes three major components to consider: the human factor, the product, and the process/plant. All these three factors need to be considered in a holistic way, to adequately build engineering and management competences. I4.0LAB addresses these three aspects in a flexible and scalable environment.

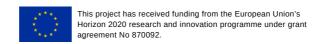
INDUSTRY 4.0 LAB PILOT LINE



serve the line in terms of material handling.



The integration of existing assets into Digital Twins is a traditionally long-lasting activities, which requires several days of interviews and investigation. Thanks to the introduction of AAS in the digital portfolio of the line, this time has been decreased by an order of magnitude, complementing the wide availability of data for production scheduling, control and analysis.









SERVICES OFFERED

- 1 AAS assessment
 Compliance verification to the latest standards
- 2 AAS modeling/connection

 AAS packages and pipelines development
- AAS training courses

 Various level of courses about AAS (from general knowledge to mastering-level)

BENEFITS

Digitalisation of all the production processes performed by machines on the shopfloor of manufacturing companies.



VALUE PER SERVICE

- AAS assessment Starting from 5000€, depending on the number of assets
- AAS modeling/connection Starting from 10000€, depending on the number of assets
- AAS training courses Depending on the training offer where to be included and on the expected number of attendees

