

An innovative **Zero Defect Manufacturing methodology** for reducing the number of defects and optimize production

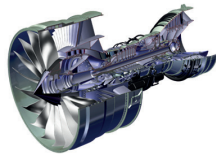
DESCRIPTION

Manufacturing companies face the challenge of delivering high quality products of increasing complexity, with limited use and waste of resources. "Zero Defect Manufacturing" (ZDM) is a recent paradigm aiming at going beyond traditional six-sigma approaches. The aim of the ForZDM project is to develop and demonstrate tools to support the rapid deployment of ZDM solutions in the industry and to design more competitive and robust multi-stage manufacturing systems.

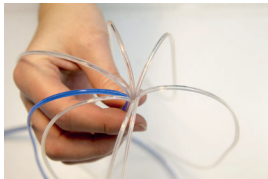
The ForZDM methodology expands current single process boundaries towards a production line perspective, which allows to contrast defects before, during and after their generation through diagnosis, preventive and corrective mechanisms, applied with real-time, medium term and long term control actions.

DEMO CASES

Jet Engine Shaft



Medical Microcatheters



Railway Wheelset



CONSORTIUM



With the involvement of the 4ZDM cluster partners



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723698"

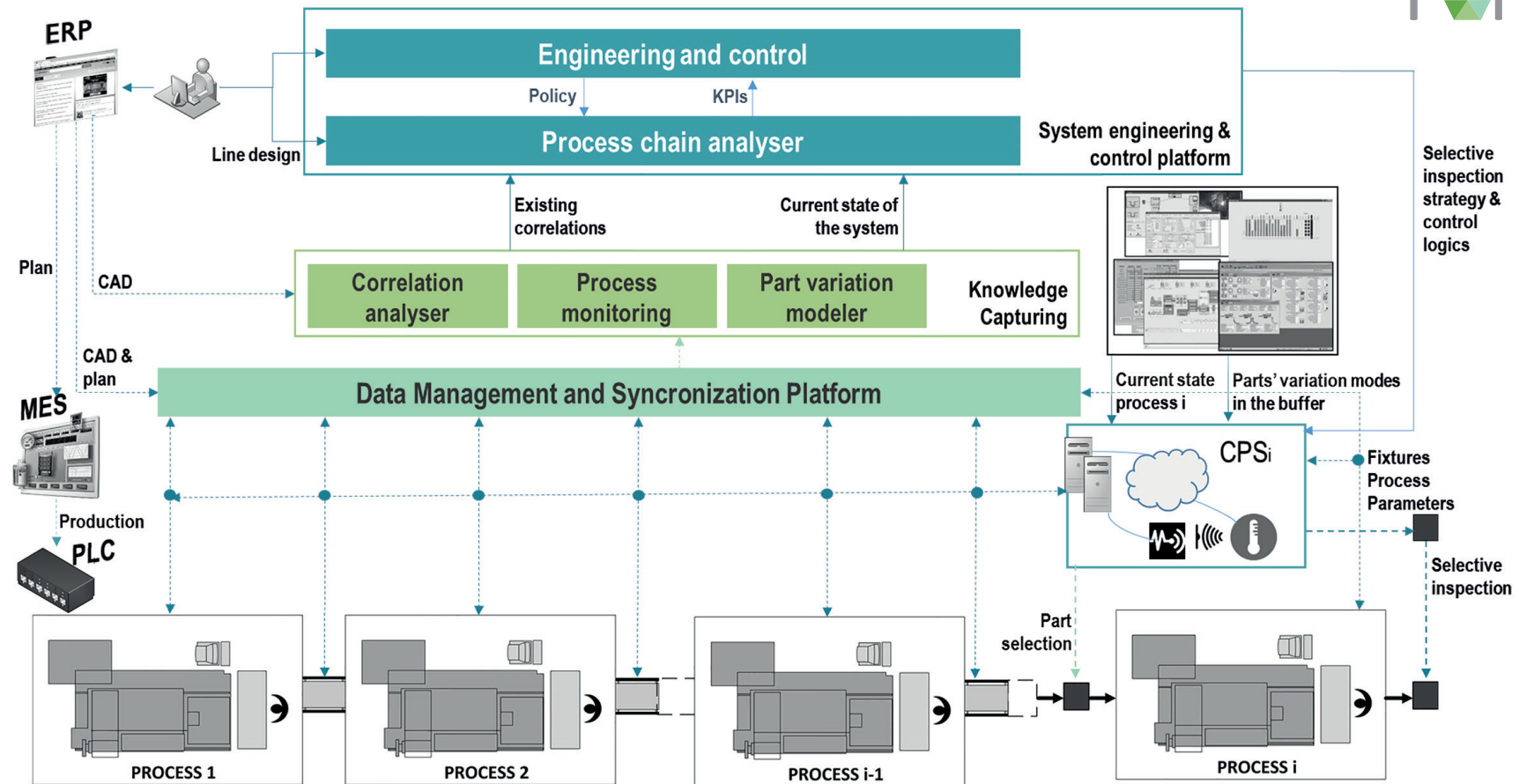
"This leaflet reflect only the authors' views and the Commission is not responsible for any use that may be made of the information contained therein"



ForZDM

Integrated Zero Defect
Manufacturing Solution for High
Value Adding Multi-Stage
Manufacturing Systems

Proposal contract number:
723698/H2020-FOF-2016



ForZDM will be based in the following pillars:

1. Flexible data acquisition system [different sensor systems]
2. New data analysis tool [correlation & root cause analysis]
3. Cyber Physical Systems for defect generation & propagation [Defect avoidance solutions & compensation policies before end of the line]
4. Overall optimization of inspection, control and corrective actions [system level]
5. Custom HMIs [adaptation of production targets and line management strategies]
6. Distributed control system [quality and logistics optimization]

