DAT4.ZERO

Data Reliability and Digitally Enhanced Quality Management for Zero Defect Manufacturing in Smart Factories and Ecosystems 08. July 2021

Dr. Daryl Powell

Research Manager & Chief Scientist - SINTEF Manufacturing AS



DAT4.Zero has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No. **958363**



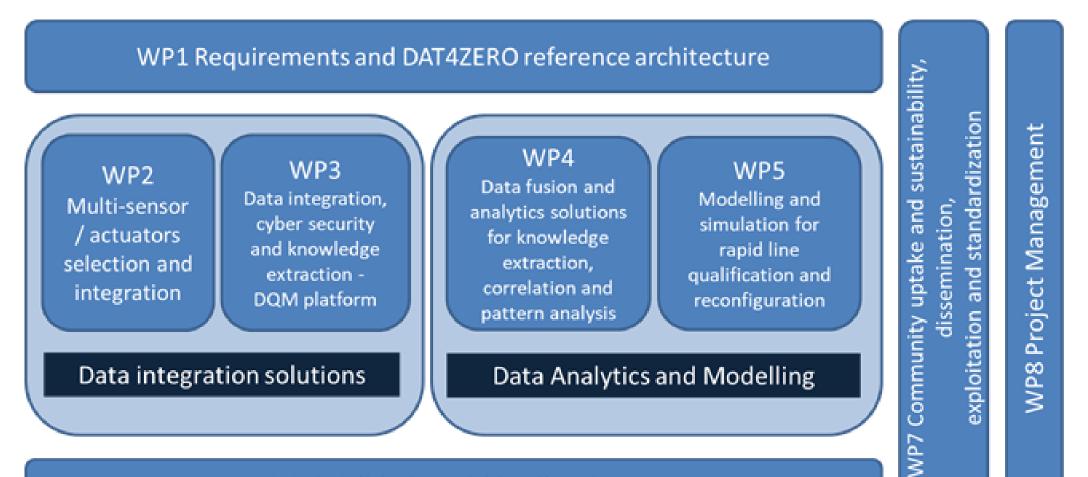
"DAT4.Zero presents European manufacturers with a system and deployment strategy for Digitally Enhanced Quality Management."

DAT4.Zero

- €12M
- 2020-2024 (42 Months)
- 20 Partners (+2)
- 6 Countries (+1)

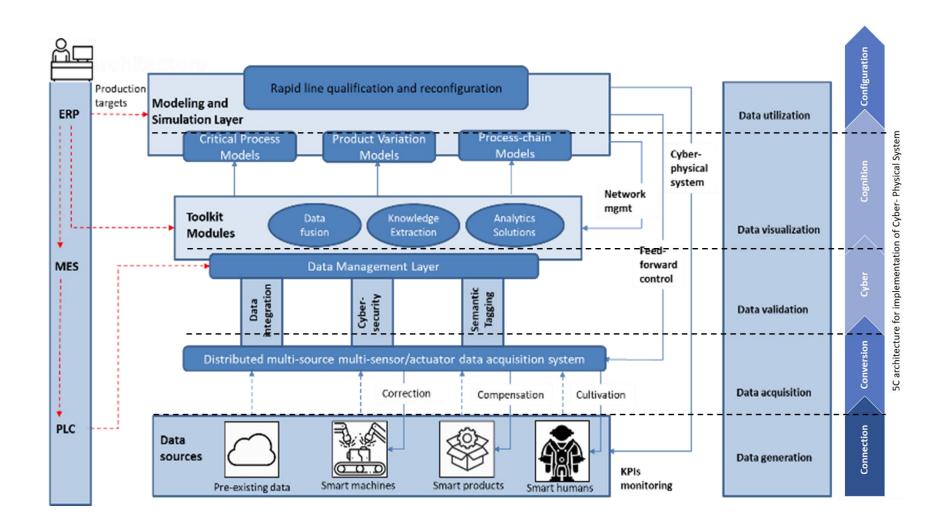




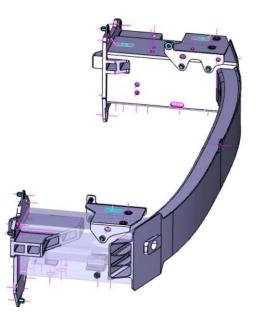


WP6 Validation within Pilot Lines

DAT4.Zero: DQM "CPS" Architecture





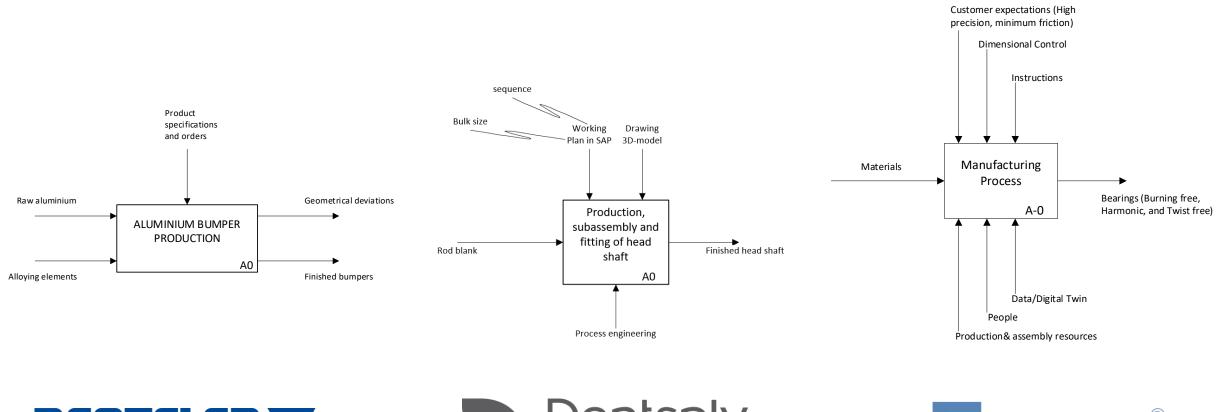


DAT4.Zero Use Cases





Use case requirements: multi-stage ZDM









DAT4.Zero: Impact

Five DAT4.Zero use-case pilot line demonstrators that address the challenges of quality management in smart factories to:

- Increase quality through 50-80% scrap reduction
- Increase equipment productivity through rapid error localisation
- Reduce ramp-up time using smart sensors, actuators and big data sets
- Reduced time-to-market using AI-driven smart product- & process development









DAT4.Zero has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No. **958363** DATA.ZERO