

Join the 4ZDM Cluster Webinar: Digital Technologies for Zero-Defect Manufacturing

20 April 2022
09:00 - 12:45 CEST

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The projects participating in the 4ZDM Cluster have received funding from Horizon 2020, the European Union's Programme for Research & Innovation



- **EC-projects momentum:** coexistence of ZDM projects at last stages, projects at midterm, and new HE projects that will start on Summer/Autum 2022 (in Grant preparation right now).
- **Political momentum:** transition between EU R&I Framework Programmes H2020-HE, continuation of partnership FoF as Made-in-Europe/MiE (continuation of a success story)
- **Social momentum:** commitment with EU society at creation of digital skills and qualified jobs, making manufacturing attractive for young generations, paving the way for the excellence in manufacturing (keeping talent and avoiding brain drain)
- **Technological momentum:** evolution of ZDM and current fit with “twin transition”:
 - Digital platforms around ZDM need to outreach manufacturing reality, setting new business models, financial/legal implications, overcoming social reluctancies/barriers – *Framework of H2020-DT-ICT-07 topic*
 - Digital transformation at shopfloor domain (enhancement of ZDM techniques with AI, DSS, DLT/BC, data analytics, NDT inspection) – *Framework of FoF-11-2020 topic*
 - Green transformation (low carbon footprint, environmental impact, zero-waste technologies) and widening application domain (supply chain, LC approach) – *Framework of HE-CL4-2021-TT-01-02 topic*
 - Link with DTI concept (distributed/decentralized technical intelligence) as a tentative step-forward for evolution of ZDM concept (*framework of Manufature Working Group on DTI*).

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	Title	Presenter	Project
9:00-9:10	Intro	Rositsa Georgieva, Oscar Salgado	HADEA, ZDMP
<i>Digital Manufacturing Platforms for Connected Smart Factories</i>			
9:10-9:40	ZDMP: Concept and Applications to Cross Industrial Sectors	Oscar Salgado, Alessia Focareta	ZDMP
9:40-10:10	QU4LITY project: Autonomous quality piloting activities	Jorge Rodriguez, Marta Alvarez	QU4LITY
<i>Digital Solutions for Data Quality</i>			
10:10-10:35	A Reference Architecture for ZDM in Smart Manufacturing	Cinzia Rubattino, Ilias Gialampoukidis	I4Q
10:35-11:00	The Future of Zero-Defect Manufacturing	Daryl Powell	DAT4.ZERO
Break			
11:10-11:35	AI & soft sensing	Nikolaos Dimitriou	OPTIMA
11:35-12:00	InterQ and the Trusted Framework architecture for ZDM	Mauro Isaja, Phu Nguyen	INTERQ
<i>Large-Part High Precision Manufacturing</i>			
12:00-12:25	PENELOPE concept and approach for Digital Twins for ZDM	Asif Mohammed	PENELOPE
<i>Connected Factories Update</i>			
12:25-12:35	Update from EFFRA	Chris Decubber	EFFRA
12:35-12:45	Closure	Oscar Salgado	ZDMP