

**Smart, SME Friendly, open,
Zero-Defect Manufacturing
Reference Platform, Apps, SDK,
and Marketplace for Product and
Process Quality in any factory for
achieving excellence in European
and Global Manufacturing.**

- Achieve excellence in manufacturing through zero-defect processes and products
- Develop and establish a reference digital platform and related Apps for Zero Defect Manufacturing
- Launched in January 2019 for 48 months
- Investment of 19M€ provided by 30 sponsoring companies

 @EU_ZDMP
#ZDMP



ZDMP - Zero Defects
Manufacturing Platform

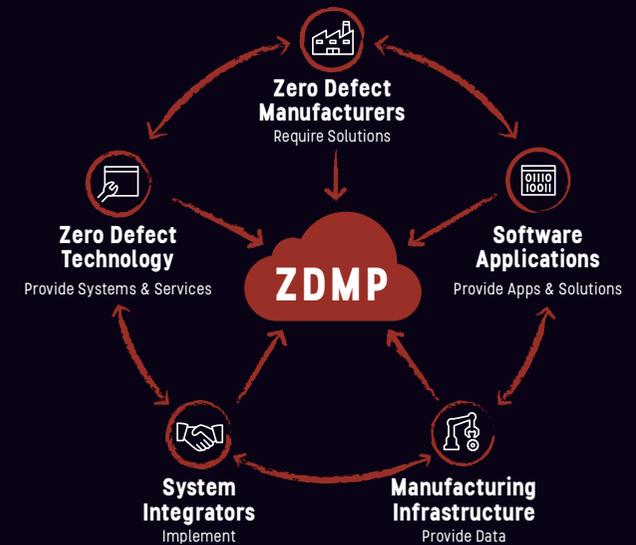
info@zdump.eu

<http://www.zdump.eu>
<http://www.zerodefects.eu>



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ZERO DEFECTS
Manufacturing
Platform **ZDMP**



European Excellence in
Manufacturing through
**ZDMP Industry
4.0 Platform**

Objectives

Today, manufacturing industry is undergoing a substantial transformation termed Industry 4.0 enabled through the proliferation of new digital solutions applied across the production process chain. As the phone propelled to the smart phone, ZDMP will propel the factory to the Smart Factory and to the Smart Zero-Defect factory.

ZDMP will ensure that European industry remains competitive and keeps its leading manufacturing position by producing high quality products at a low cost in the most efficient way.

The goal of ZDMP is to establish a digital platform for connected smart factories for achieving excellence in manufacturing through zero-defect processes and products.

To achieve this, ZDMP will be designed and developed according to the following principles: Ubiquity, Elasticity, Extensibility, Interoperability, and Openness.

ZDMP combines state of the art technological approaches based on commercial grade standard or open-source software with an open development approach and App store. It focuses on both process and product quality modules for preproduction, production, and post production quality issues to ensure manufactures are enabled for Zero-Defects.

ZDMP objectives are as follows:

- To provide industry 4.0 ZDMP Platform along with reference architecture and specification suite
- To deliver the core Industrial IoT support of data acquisition, interoperability, and analytics supported by orchestration, monitoring, and autonomous computing
- To provide developers a runtime platform including environment, marketplace and service framework
- To ensure outstanding process quality, through equipment, resource, and energy efficiency, by deploying novel Artificial Intelligence based solutions
- To ensure the quality of the product along the value chain of the manufacturing process by deploying advanced modelling, detection, inspection, and predictive techniques
- To demonstrate its results in four challenging industrial areas: Automotive, Machine tools, Construction and Electronics

Partners

○ **Coordinator:**
UNINOVA

○ ITI - Instituto Tecnológico de Informática

○ Ford España

○ Martinrea Honsel Spain

○ Mondragon Assembly

○ HSD

○ FIDIA

○ Formplast-Svoboda

○ Consulgal

○ PT MILLS

○ Flexefelina

○ CEI

○ Continental Automotive Romania

○ Software AG

○ **Project Manager:**
ICE - Information Catalyst

○ DIN

○ Ceteck Tecnológica

○ Video Systems

○ Ascora

○ Profactor

○ Softeco Sismat

○ Etxe-Tar

○ Along

○ ROOTER ANALYSIS

○ UPV - Universitat Politècnica de València

○ IKERLAN

○ University of Southampton

○ AlfaTest

○ Siveco

○ Tampere University

Motivating Applications

ZDMP Use Cases

ZDMP will validate itself in industrial demonstrators including **Automotive, Machine Tools, Electronics, and Construction**. These will show how enhanced cooperation between companies can avoid and reduce product and process defects along various supply chains. The sponsoring organisations will

also release 3.2M€ during its course to additional partners, users and technology companies, to further enhance both the platform features and trigger the adoption of the platform on the market. Interested? Please contact info@zdmp.eu

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