



# PILOT 1.2: Automotive Smart Factory Zero Defect Manufacturing

Innovalia Metrology

## Pilot & Scenario Overview

Innovalia Metrology (INNO) is the pilot leader and responsible for the 2nd scenario that takes place in the AIC (Automotive Intelligence Center) in Bilbao.

Innovalia is a non-profit private associated research laboratory with expertise in the fields of:

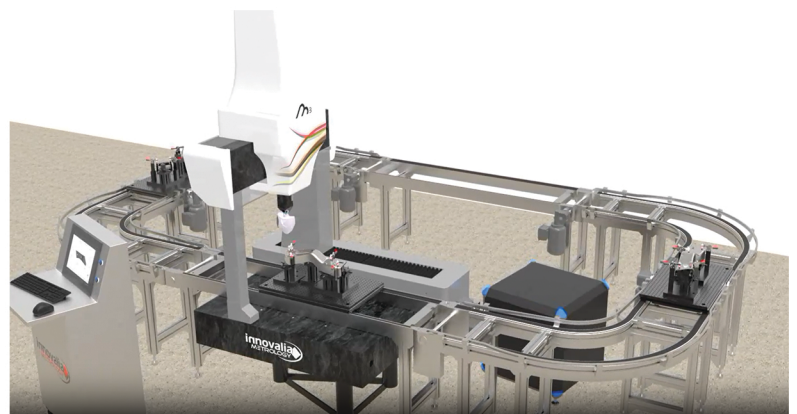
- E2E cybersecurity,
- Quality assurance for high performance CPPS systems,
- Mobile 3D visualization,
- (Big) Data spaces & AI.

The main motivation is to overcome the current challenges within Manufacturing metrology, that is low availability and performance, inefficient scheduling, over centralization and continuously running; and implement the output solutions into its internal business processes.

## Infrastructure & Technology

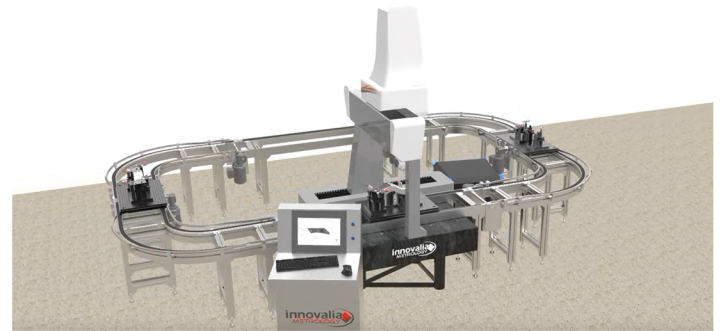
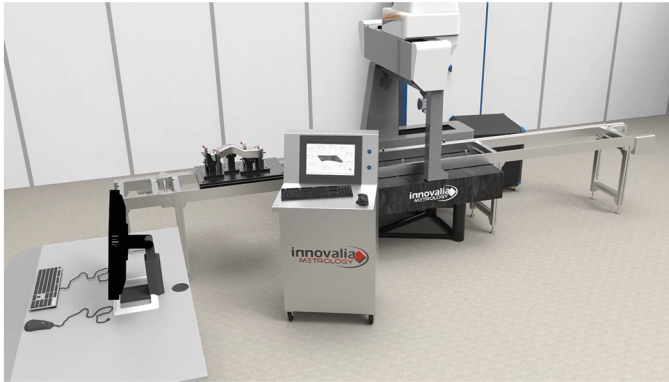
The infrastructure is provided by Nasertic, and the main equipment used contains:

- Gages (Spark, Vulkan, Duplex),
- CMM Control,
- Robot Link,
- Optiscan,
- M3 Software.



The setup includes:

- CMM Configuration (OPC-UA Communication protocol),
- Virtual commissioning (3D),
- CMM Monitoring (IoT).

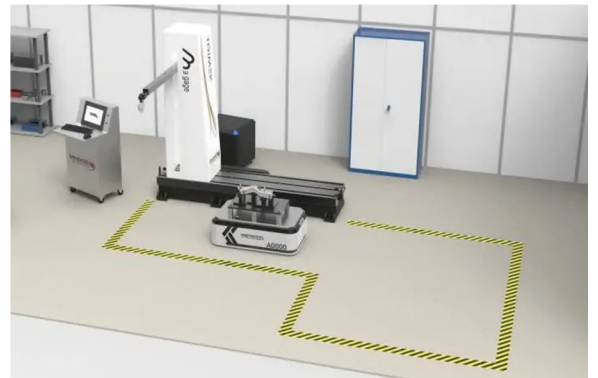


At this stage, the scenario is about to deploy the aerOS domains. The installation of the Basic aerOS components is ongoing and the pilot progressing towards the targets and KPIs achievements.

## Objectives & Benefits

The main objective of this second scenario is to reach Autonomous metrology 4.0 by advanced dimensional metrology process meta-engineering, and flexible dimensional metrology process configuration and automation.

These advancements result in more sustainable, autonomous, efficient, and resilient business operations.



## CONSORTIUM



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