



GOODMAN

AGENT ORIENTED ZERO DEFECT
MULTI-STAGE MANUFACTURING

Deliverable 11.2

Second Management report

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Executive Summary

The objective of this deliverable is to describe the progress and main achievements of the GOOD MAN project during its second year. The GOOD MAN project has a total duration of 36 months, therefore this report describes the achievements of the central part of the project.

In particular, the main idea of GOOD MAN project is to integrate and combine process and quality control for a multi – stage manufacturing production into a distributed system architecture built on agent-based Cyber-Physical Systems (CPS) and smart inspection tools.

In order to reach this main objective, the following technical developments have been carried out during the first two years of the project:

1. the definition of the management methodology, which has been the objective of the completed WP1 during year 1;
2. the Multi-Agent based CPS for ZDM Multi-Agent Architecture, which was the objective of the completed WP2 during the year 2;
3. the smart on-line inspection tools for ZDM, which are dealt with in WP3 and have been just finalized at the end of the second year;
4. the data analytics and Knowledge Management tools for ZDM knowledge, which have been treated in WP4 also just concluded at the end of year 2.

The results of the previous technical work packages will be integrated in the end users production lines, allowing the interaction with the Multi-Agent System, which is the goal of WP5, started during this second year of the project.

WP 6, 7 and 8 started during this second year as well and the end users will be responsible for the demonstration and customization of GOOD MAN approach in their production environment.

WP9, which deals with the exploitation of the results of the project, is running since the beginning of the project and works in parallel on the important aspects related to the commercialization of the results of the project in order to maximize the impact of the project.

WP10, which deals with the dissemination and standardization aspects of the GOOD MAN project, and WP11, which deals with the technical and scientific coordination, are running in parallel, as well.

All these work packages started accordingly to the Gantt of the project and have already brought to some Deliverables (except WP 5, 6, 7 and 8). These documents contain full detail of the results achieved and the research carried out to reach them. The scope of this report is not therefore to present the same level of detail, which is contained in each Deliverable, to which the reader should refer for a comprehensive description of each part of the research; this report is rather intended to provide the overall view on the project progress, in particular related to the activities of the second year.

