Consortium

FIDIA S.p.A. (IT)

CeSI (IT)

Budapesti Muszaki es Gazdasagtudomanyi Egyetem (HU)

CASP (GR)

SAVVY-DS (ES)

IK4-IDEKO (ES)

RWTH Aachen WZL (DE)

University of Patras (GR)

Aurrenak S. Coop (ES)

GIZELIS ROBOTICS (GR)

We Plus S.p.A. (IT)

CALPAK (GR)

Università di Brescia (IT)

Contact

Raffaele Ricatto
(Primary Coordinator)
r.ricatto@fidia.it

Michele Surico
(Technical Coordinator)
m.surico@fidia.it

FIDIA S.p.A.
C.so Lombardia, 11
10099 San Mauro Torinese (TO)
ITALY
Tel. +39 0112227111

https://www.programs-project.eu/
https://www.linkedin.com/groups/13556620
@programsEU

HORIZON 2020

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PROGRAMS

PROGnostics based **R**eliability **A**nalysis for **M**aintenance **S**cheduling

H2020-FOF09-2017

Project objectives

Novel design and predictive maintenance technologies for increased operating life of production systems

PROGRAMS aims to develop:

- a model-based prognostics method (integrating the FMECA and Prognostics & Resources Management approaches) for the smart prediction of equipment conditions;
- a novel MDSS (Maintenance Decision Support System) tool for smart industries maintenance strategy determination and resource management integrating ERP support;
- an MSP (Maintenance Service Platform) tool to share maintenance information between involved personnel.

Target Sectors

Manufacturing

Automotive moulds and dies

Solar thermal energy

Impacts

Increased components lifetime

- Increased in-service efficiency
- Maximal OEE
- Reduction of Life-Cycle Cost
- Increased productivity

Optimized use of components

- Decreased storage
- Increased equipment life/utilization
- Reduction of scrap parts
- Reduction of post-processing/reworking

Better maintenance and production scheduling

- Flexible production and maintenance schedules
- Balanced workload over different machines
- Increased overall robustness
- Reduced costs for maintenance

Novel ICT implementations

- Predictable machine performance
- Increased global trustworthiness
- Increased data robustness