

Predictive Cognitive Maintenance



Description

Predictive maintenance support-system able to provide accurate failure detection, identify and localize damages, assess severity and predict their evolution.

Objectives

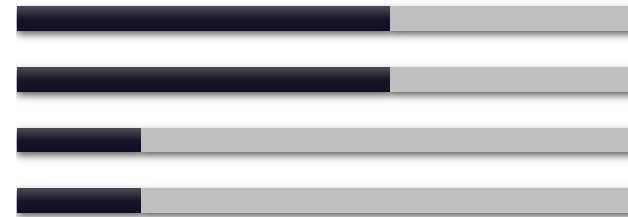
- To evaluate the maintainability of the solutions proposed in the production systems and their impact on environmental performance as the first industrial demonstrator (general machining),
- To measure and analyse the capital, operational costs and cost savings resulting from the implementation of the high maintainability and availability solutions.

Activities

- Sustainability assessment:
 - Life-Cycle Assessment LCA,
 - Life-Cycle Costing LCC.

Challenges

- Input data complex to collect
- Technical knowledge required
- Legal & legislation barriers
- Technology readiness level



Expected outcomes

- + 15% availability and maintainability,
- - 30% reduction of failure-related safety accidents,
- - 10% energy consumption,
- - 15% raw material usage.

