

Predictive Cognitive Maintenance

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Description

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

Objectives

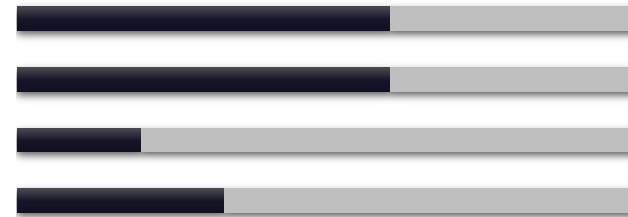
- To evaluate the efficacy of the maintainability solutions proposed in the production systems and their impact on environmental performance, to achieve the proposed goals.
- To decide if proposed maintainability solutions are economically feasible to bring them to the market and to adjust the model to the productions schemes of large industrial companies and SMEs.

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.

