ForeSee

European Cluster for Predictive Operations in Manufacturing

www.foresee.eu

The ForeSee Cluster

CLUSTER

11 innovative H2020 and HE projects

VISION

Sustainable and Smart Factories through **Predictive Operations**

MISSION

Roadmap for Predictive Operations

MAS4AI

COALA
Your Factory Assistant

open ZDM

Level-Up

SERENA

Z-BRE4K

RECLAIM

PROPHESY

PRECOM
Predictive Cognitive Maintenance Decision Support System

UPTIME
UNIFIED PREDICTIVE MAINTENANCE

PROGRAMS

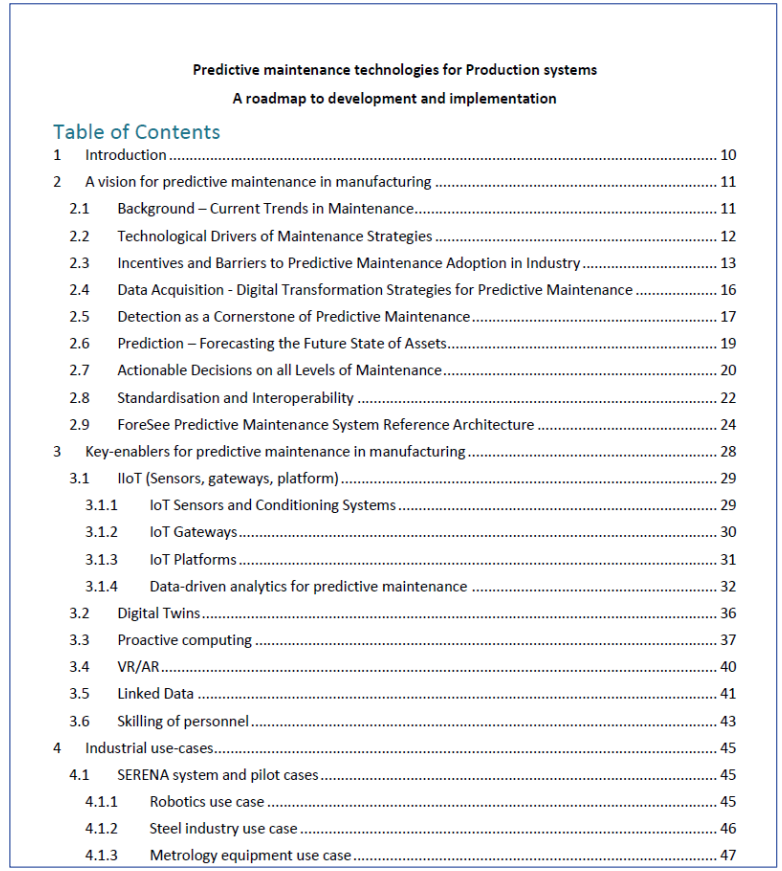
ForeSee Cluster Thematics

- Predictive Maintenance
- Predictive Quality
- Predictive Analytics
- Predictive Energy
- Skills and Competencies
- Standards

ForeSee Cluster objectives

- Introducing **predictive operations paradigm** in the manufacturing industry
- **Skills** requirements and development for the future factory
- Contribution to the **future research agenda**
- Development of roadmap for predictive technologies adoption
- Enhance European industry **innovation capacity**
- Joint **communication** and **dissemination activities**
- Joint **standardization** considerations

ForeSee cluster white paper



Predictive maintenance technologies for Production systems

A roadmap to development and implementation

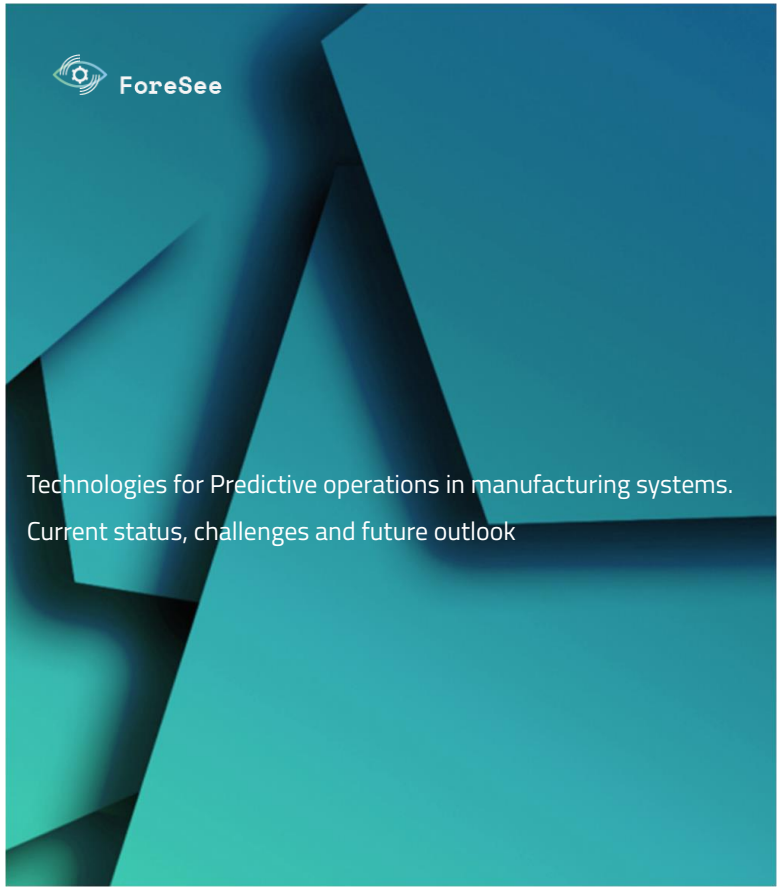
Table of Contents

Published in July 2021

ForeSee new white paper

Technologies for Predictive operations in manufacturing systems. Current status, challenges and future outlook

- 1. Introduction
- 2. Predictive operations in manufacturing
- 3. Key-enablers for predictive operations in manufacturing
- 4. Industrial pilots
- 5. Standardization aspects of predictive technologies
- 6. Recommendation for future research directions and innovation policy



Expected in summer 2023

IndTech 2022

Gaps and challenges regarding digital technologies for manufacturing that should still be addressed in future work

- Complexity of implementing and interpreting AI
- Skill gap in the manufacturing workforce
- Quantity and quality of data for accurate AI solutions
- Capital investment for required infrastructure
- Mindset

Thank You!

Dr. Kosmas Alexopoulos

Laboratory for Manufacturing Systems and Automation (LMS)

University of Patras, Greece

Tel.: +30-2610-910160

Email: alexokos@lms.mech.upatras.gr