Innovation Overview

At I-care, we believe in leading innovation excellence and technological improvement to help customers reduce production costs and enable a higher output. Below are some of the many programs we support.

1. PROPHESY https://prophesy.eu/

A platform for rapid deployment of self-configuring and optimized predictive maintenance services

- Catalyst for uptake of next-generation, optimal, adaptive, and self-configurable PdM services
- End-to-end development, deployment, and operationalization of adaptive self-configurable PdM services

This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 766994.

2. PI-AI

4.0 Modular Industrial Platform

- Robust and reliable platform to enable 4.0 products management on I-care's I-see™ software platform
- Modular and scalable

3. SMART-R4F

Next-generation sensors

- New AI-enabled IIOT sensors
- Next Generation certified portable data collector for the Wi-care ecosystem

4. ACMON

Easy deployment, maintenance and validation of AI models for acoustic monitoring

- Creating Condition Monitoring based on acoustics
- Increasing signal-to-noise ratio of sound recordings
- Training AI models for robust detection of problems

5. LightSens

Using Optic Fibers for predictive maintenance

- Compatible with extreme industrial environments
- Long distance sensors
- Distributed sensors

6 PEPS

Pumped Electricity Plant Solutions (PEPS)

- Satisfying emerging need for energy storage technologies
- Innovative modular concept, easily reproducible, piloted and monitored remotely in a 4.0 approach of operations and maintenance

7 CONSCIOUS*

Bringing IIoT and AI to Industrial use cases

- Correlating production and predictive maintenance data with AI algorithms
- Integrating IIoT devices to improve data collection

***Contextual aNomaly deteCtIon for cOmplex indUstrial aSsets)**

TRACY (Trace Analytics)

Investigating log data generated by industrial assets and refining existing AI and machine learning techniques targeted at time series analysis.

- Challenges: handle heterogeneity of the data and lack of standardization
- Validated on industrial use cases
  - Optimizing the performance of compressors
  - Decreasing the service cost of electrophotographic machines

8