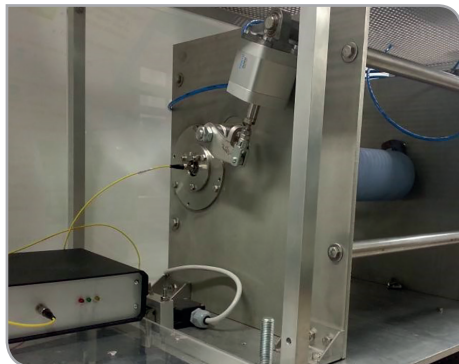


ALM – enabled Smart Maintenance (ALMeS)

Digital Industry



Simplify your maintenance

ALMeS is the building block of digital maintenance. The kit consists of add-on multiple sensors, connectivity and applications optimizing machinery performances, lowering the investment barrier for smart maintenance.

Nowadays, the maintenance of machinery is performed mainly condition-based or on run-to-failure due to missing real-time data as sensorization of machinery is still expensive and difficult to deploy.

The ALMeS project provides a package of Add-on, Low cost, Multi-purpose (ALM) fiber optic sensors and applications, that includes cloud-based analytics for real-time

alerts and mid-term predictions. The kit is based on inexpensive microcontrollers and machine-learning software.

In decreasing the investment costs for smart maintenance, the project is expected to have a strong impact in many industrial sectors with medium-to-high level of process automation.

Competitive Advantages

- Less expensive than competitor solutions
- Quick data stream availability
- Low-cost, flexible fiber optics used as sensors
- Hybrid human / machine “virtual expert” allows decision making based on facts, forecasts and knowledge

Target Markets

- Manufacturing companies with integrated machinery (assembly, tooling, logistics) and with medium-to-high level of process automation
- Small and medium sized enterprises
- Main markets in Europe: Germany, Italy, France, Poland

Status/ Traction

- Potential customers already engaged: Tetrapak, ENI, ENEL, EDF Fenice, FCA, Alumat
- With partners Reply, FBK, Politecnico di Milano, ST Microelectronics, and TU Berlin and technology providers Coherentia, Konux and Crowdee

Road Map

2017

- ALMeS module for vibration analysis prototype
- Hybrid human/machine expert panel available
- Engineered modules for certification and deployment

2018

- Energy monitoring ALMeS module
- Robot movement
- Large implementation in manufacturing plants

Connect



Maurizio Griva
ALMeS Activity Leader
e: m.griva@reply.it
t: +39 011 29100

Location

c/o REPLY
Via Cardinal Massaia 83
10147 Torino
Italy



ALMeS is an Innovation Activity proudly supported by EIT Digital