

BOB Assistant

The first sensor embedding artificial intelligence for predictive maintenance



BOB ASSISTANT

YOUR PERSONAL MAINTENANCE ASSISTANT

A lot is happening in your factory and your production line is constantly in motion and vibrating at the rate of your business. The more vibrations, the more business.

What if all of a sudden, all these well-oiled processes stopped because of a failing equipment that you couldn't anticipate?

Now, imagine having 24/7, a highly qualified predictive maintenance assistant, who monitors your production equipment, and contacts you directly, even on your phone, in case of problems?

Sounds too good to be true? Wait.

Meet Bob, your personal maintenance assistant.

Snap it to your machines in your factory and Bob will carefully learn and analyze the vibrations and warn you before a problem impacts the production line.

Thanks to the latest developments in artificial intelligence made with its partner CARTESIAM, your maintenance team now has a new friend to help them keep your production line in good health and the business running smoothly.

Welcome to the new cognitive manufacturing world.

INTELLIGENT EDGE

More data in the cloud or more intelligence in objects?

What is the edge? In short, the edge may be a sensor, pump, or anything where computation and storage could exist.

Sending back and forth terabytes of data to a central cloud for analysis and decision is not efficient and sustainable both in terms of bandwidth cost and increase in network latency. Time to insight and action can be tremendously accelerated only if machine learning models, serverless computing and lightweight databases are driven into edge devices so action occurs where data is generated... **At the edge.**

ARTIFICIAL INTELLIGENCE BASED MAINTENANCE

Like a doctor using his stethoscope, BOB Assistant listens to the vibrations of the machines and analyze the signature of the vibrations, in a completely autonomous way. Thanks to its CARTESIAM A.I algorithms, it recognizes signature of normal or abnormal vibrations, and will alert you if needed.



OBSERVER

Bob is intimately tied to the equipment to watch, it captures only vital data that reveals its health



SMART

It will then apply its analysis algorithms to turn data into accurate information to keep your equipment running well.



MAKING SENSE

In case of drift or unexpected problem, it will alert you directly to your smartphone, which will allow you to act and reduce downtime



SIMPLE

Bob is really simple to install, just put it on your machine, no wiring or configuration needed.



AUTONOMOUS

Bob will operate for several years without recharging (battery included)



CONNECTED

BOB communicates using the standard LoRa® protocol: perfectly adapted to IoT, to long-distance communication with very low power consumption.



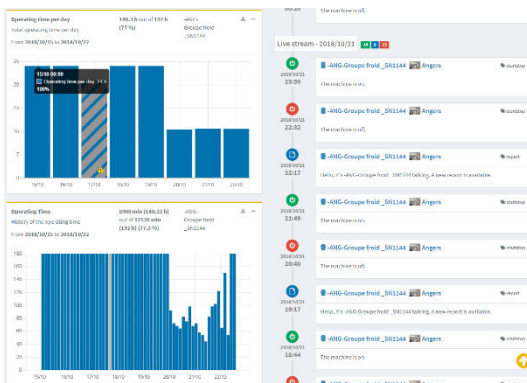
SECURED

Your production data are safe with BOB! It retains them and sends only encrypted reports, resulting of its analysis, to the cloud



INDUSTRIAL

Bob is very robust (IP68) and designed for industrial use cases



Your dashboard will let you access to Bob's messages. You can also use our custom API to import messages and, if needed, data into your CMMS or any in-house system.

Key industrials players such as EDF and VEOLIA are already using BOB Assistant for the maintenance of their equipments.

BOB Assistant & ITEA

ITEA contributed to the birth of BOB Assistant. The funding of EOLANE through ITEA projects CAREWARE and WATER-M allowed notably the design and development of a RF electronic design using LoRa™ technology to communicate and very much optimized in power consumption and RF performance as well as the development of a robust and simple LoRa gateway. These elements were key technological bricks which allowed the unique service and performances of BOB Assistant.