INTERNET OF THINGS FOR EUROPEAN SMALL AND MEDIUM ENTERPRISES

Co-funded by the
Erasmus+ Programme
of the European Union

Erasmus+

Show**Case**

Biesse Group enters the world of IoT with SOPHIA and Accenture

Products

Platform for Industrial Internet of the Things, SOPHIA.

Results

- Predictive maintenance

- Analysis and remote management of plants and production events.

- Increase interaction between machines and personel

- Improve the decision-making process

Project Details

New platform for Industrial IoT, SOPHIA, from its IoT Connected Platforms as a Service (CPAAS) developed in Microsoft Azure. The platform has been developed by Biese Group and Accenture.

Link video description:

https://youtu.be/W3ONwMMX_CE

Introduction

Biesse Group is a company dedicated to the manufacture of machines for the processing of wood, citron, stone, plastic and metal located in Seregno (Monza Brianza) that has started working with Accenture in order to start its introduction in Industry 4.0, through the logic of process optimization and the development of new products and services.

Challenges

The objective pursued by the company is to provide intelligence to their machines and change the focus of the business model of the company, which is now focused on the product, to another more focused on the service and, therefore, on the service to the client.

The aspects that it seeks to improve are:

• Creation of a business model that, thanks to a great integration of hardware and software, better manages the life cycle of the product and adds intelligence and connectivity to the machines.

• Increase the level of interaction between the production environment and the personnel.

• Data collection and analysis at the center of the decision-making process, which aims at agile production, with the consequent speed and flexibility.

Solution

SOPHIA allows customers to access a wide range of digital services in order to achieve maximum efficiency, simplifying and streamlining work.

SC Show**Case**

INTERNET OF THINGS FOR EUROPEAN
SMALL AND MEDIUM ENTERPRISES

Co-funded by the
Erasmus+ Programme
of the European Union

Erasmus+

For the correct operation, the platform in the cloud is necessary, which constitutes the main software part, and the special sensors that are found in the Biesse machines. This makes it possible to record and send information and data in real time about the technologies in use to optimize performance, avoid failures and increase the productivity of machines and systems. The updates are made through a single click, which is extraordinarily convenient for the user because in this way the machine can always work. The possibility of connecting directly with Parts, makes management simple and efficient in the Biesse repository portal.

The main advantage that a large amount of added value brings to SOPHIA is its ability to anticipate problems, identify resolutive actions and reduce machine downtime. In this way, Biesse can anticipate and contact the client before a problem occurs.

In short, the results are the possibility of anticipating problems, performing predictive maintenance and the analysis and remote management of plants and production events. The services can be seen through boards for mobile devices that are customizable for each user.

References

- https://www.key4biz.it/iot-ecco-sophia-la-piattaforma-che-aumenta-la-produttivita-realizzata-da-biesse-con-accenture-videoreportage/203079/
- https://www.internet4things.it/industry-4-0/biesse-group-sposa-lindustrial-iot-con-sophia-e-con-accenture/

SC ShowCase