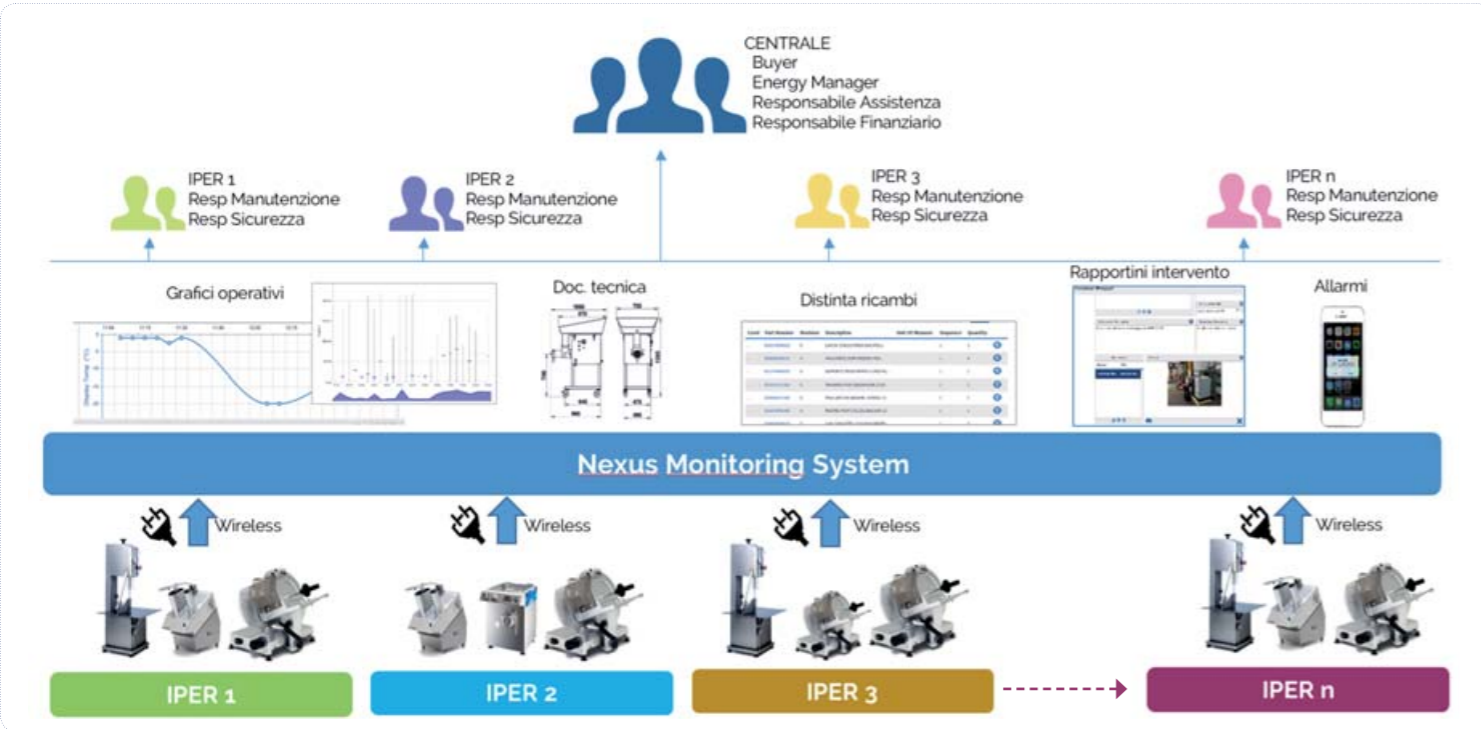# NEMoSY
nexus monitoring system

NEMoSY (NExus MOnitoring SYstem), a platform application solution that works by means of a network web connecting various pieces of machinery together, even of different types, so that they dialogue with a central control or with persons in charge of maintenance and safety.

DSC Nexus is a company working in research, development, consultancy and innovation for businesses. It uses a series of technologies and web applications to create man-machine interaction in a simple, immediate, quick and flexible way with IoT (Internet of Things) applications. The purpose is to control, monitor, improve and integrate internal corporate management of machinery used in working/production processes.

NEMoSY
nexus monitoring system
TECH   SAFE
by
DSC NEXUS

A perfect system for managing and monitoring the machine inventory

THE INNOVATIVE SOLUTION FOR THE MANAGEMENT, ASSISTANCE, MAINTENANCE AND SAFETY OF MACHINERY USED IN THE FOOD PROCESSING INDUSTRY

FEATURES

- Interface (or electronic device) that can be connected to all types of three- or single-phase machine with industrial plugs (new or already installed)
- Data transmission through a safe wireless system
- Standard communication protocols and easy to install hardware
- Cloud technology for storing captured data
- Synchronisation with external systems (ERP, CRM, BI, AI, Control Room, others…)
- Optional module for RFID CODE recognition
- Compatibility with all types of machines used in the food processing industry (industrial and countertop mincers, vacuum packaging machines, bone saws, slicers, portioning machines, automatic hamburger forming machines, mixers, ice makers, rotisseries, ovens, washers, etc.)

BENEFITS

> **Fewer claims under warranty**
> **Fewer calls for technical assistance**
> **Fewer machine downtimes**
> **Product behaviour analysis**

-10%   -10%   -20%   100%

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kiwa certified

MADE IN ITALY

PREMIO INNOVAZIONE 2016 smau R2B

MINERVA OMEGA GROUP

A perfect system for managing and monitoring the machine inventory

CLOUD

HOW DOES NEMOSY WORK?

Minerva Omega Group supplies its machines already set up for fitting the optional radio transmitter which, once installed, uses a gateway to send all the machine data and the data read by the on-board sensors to the cloud platform from where it can be accessed and shared with other management systems (ERP, CRM, Business Intelligence software):

open safety devices signals, alarms, working temperatures, absorbed current, operator ID, hours in use, hours worked, faults and machine downtimes, quantities and weights of processed products, management of maintenance cycles, technical reports, management of manuals and even more diagnostics ...
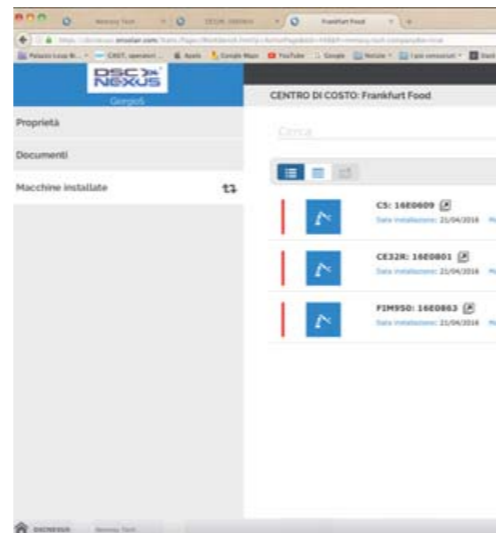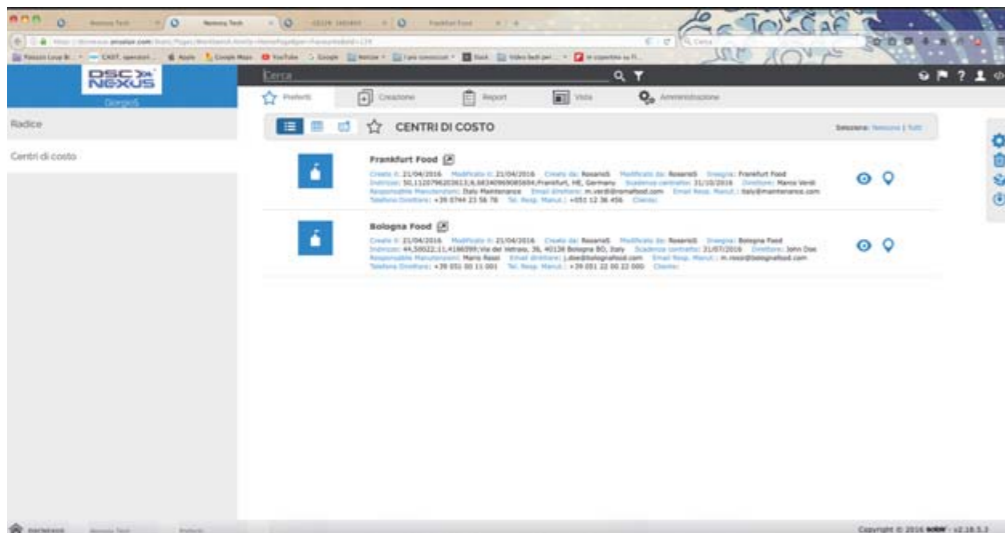
On Minerva Omega Group machines that are already installed, and likewise for any other existing equipment (competitors, ovens, rotisseries, refrigerated counters and cabinets, packaging machines, etc.) a retrofit can easily be installed which is non-invasive and requires no specialised technical staff to fit it. The platform requires no specialist knowledge, no intervention on the IT system or knowledge of programming languages. The interface is intuitive and everything is parametric: from setting up users to the alert levels for each individual machine.

FUNCTIONS

ALERT

- Transfer of machine data (open safety devices signals, alarms, working temperatures, absorbed current, hours in use, hours worked, machine downtimes, quantities and weights of processed products, other diagnostics…)
- Sending messages to the person in charge of maintenance, H&S Officer, email messages
- Signalling non-conformities with the safety procedures set by the company policy or for unrecognised operators (identification by means of RFID CODE)
- Saving digitally instruction manuals, lists of replacement parts, certifications, safety procedures, installation photos, maintenance operations, etc.
- Periodic management of machine maintenance times and relative costs
- Energy management of individual pieces of equipment/departments/supermarkets
- Management of spare parts and relative costs

IMMEDIATE ADVANTAGES

- Longer machine life depending on work cycles (through dynamic planning of maintenance and replacement parts)
- Maximum safety for operators (centralised control on the condition of machinery installed and used)
- Modest and scalable investment
- Quick and simple installation (no machine movement or downtime)
- Reduction of fixed costs over time
- Simplest possible access and centralised control of the entire machine inventory
- Centralised control of alert levels
- Exact and accurate information on operation and on faults detected
- Predictive maintenance (identification of breakdowns or parts)

WHO IS NEMOSY INTENDED FOR?

The application is designed for:
- **safety officers** (to establish specific control policies for each type of machine)
- **those in charge of maintenance or assistance** (to have all machines under control with information updated in real time)
- **equipment buyers** (for details of maintenance costs, durability and use)
- **Energy Managers**
- **Financial Directors**
- **other interested** parties…