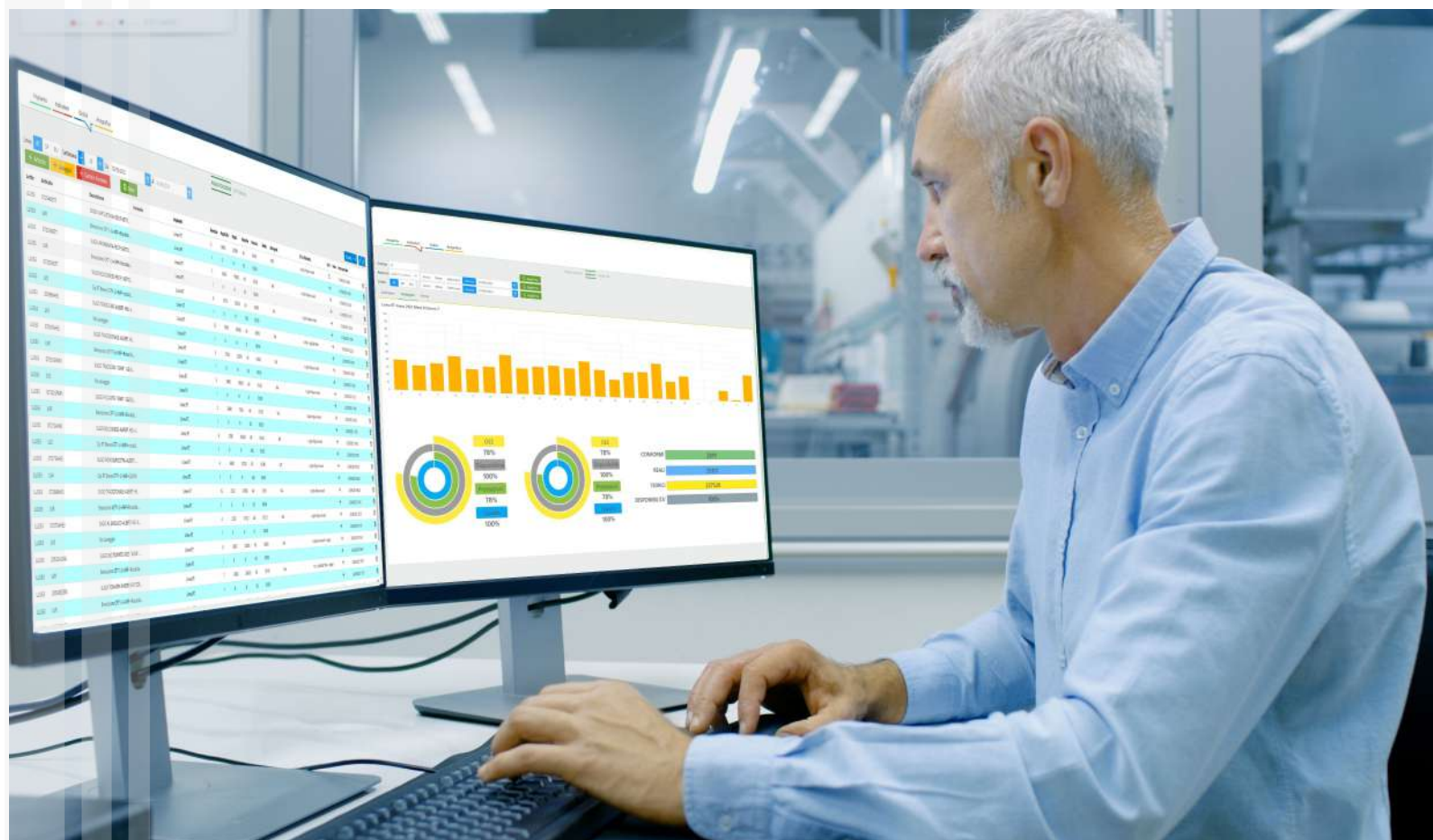**CONNECT IT** Dedicated solution for factory digitization
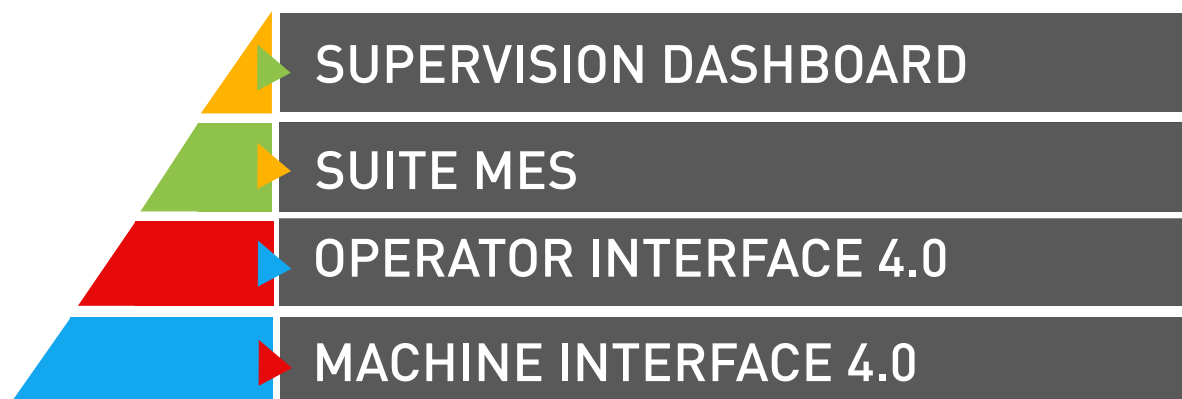

Cannon Automata

CONNECT IT

At Cannon Automata, we make the digital transformation of some aspects of the industrial sector possible.
Connect IT is a customized solution built for the specific needs of the customer, integrating perfectly with new or existing technologies.
The Industry 4.0 system that interfaces at all levels of the company:

- SUPERVISION DASHBOARD
- SUITE MES
- OPERATOR INTERFACE 4.0
- MACHINE INTERFACE 4.0

MACHINE INTERFACE 4.0

Machine Interface is the software solution that allows the interface with machines communicating with the PLC and other devices in the field.
This is an extremely flexible solution as it allows communication with:

- Industry 4.0-ready new generation machines
- Machines controlled by integrated PLC
- Semi-automatic machines with the addition of external sensors

OPERATOR INTERFACE 4.0

The **Operator Interface** is the key element at the factory level, essential for bidirectional communication between the MES and the machines in the field.
The solution is characterized by dedicated hardware and software that manages the information from the MES, the input and output of data entered by the operator, and monitors the machines by collecting process data.
The operator interface is available in two versions:

- Totem I4.0 Version
- Operator Panel Version

SUITE MES

The **MES-Manufacturing Execution System** is a fundamental element in the digitization process, as it allows communication between the ERP management system and the production plant.

■ Scheduling order status

Manage and assign orders to production lines by identifying the optimal sequence in relation to detailed orders, delivery, machines involved, shifts, and the maintenance and set-up activities defined.

■ Machine status monitoring

This is the module that, by interfacing with the PLCs, sensors and I/O's modules of the machine, and records in real-time the anomalies that occur in production, specifically loss of availability and performance.

■ Stops and warnings

Stops and warnings module identifies and records the causes that generated the stoppage, consequently leading to a loss of availability.

■ Performance calculation

The key element of the union between MES and ERP, which highlights any deviations between what is ideally planned and what is achieved.

■ Direct and indirect activities

This module balances the activities of direct personnel that are involved in the production process, and indirect activities, including all that support production.

■ Production data collection

This is the application that, by interfacing with the machine PLC and/or the sensors along the line, automatically detects machine information, or collects it through manual entry to the panel by the operator.

■ Order management

This is the module that interfaces with the order scheduling module and the company's external management system.In production, the operator can view the orders planned for the current week, choose the order to be assigned to the machines, and start production.

■ Maintenance

This module manages information relating to preventive and fault maintenance activities, making it fully computerized and interconnected to the factory computer system.

■ Quality

The quality module was created to automate quality check activities by making it totally interconnected and integrated with the factory computer system.

■ Utilities

The utilities module groups and manages the main energy resources that are necessary for the functioning of the production processes.

SUPERVISION DASHBOARD

The business intelligence solution that allows companies to historicize, manage and view instant data of the Automata MES in real-time on dedicated dashboards.

INTEGRATION 4.0

Interconnect machinery according to **4.0 requirements**?
Our solution complies with the legal requirements for Industry 4.0 certification.

1 ▶ Human machine interface

2 ▶ Control by CNC or PLC

3 ▶ Machine safety

4 ▶ Automated integration with other machines in the production cycle

5 ▶ Interconnection to the factory information system

6 ▶ Continuous monitoring of process parameters

7 ▶ Remote maintenance. telediagnosis and remote control systems

PRODUCTS
Components for industrial automation.

- PAC - PROGRAMMABLE AUTOMATION CONTROLLER
- I/O MODULES
- AUTOMATION SOFTWARE
- FIELDBUS & INDUSTRIAL ETHERNET
- HMI - HUMAN MACHINE INTERFACE
- DRIVES

APPLICATIONS
Hardware and software solutions for specific user applications.

- REMOTE MONITORING & ASSISTANCE
- ENVIRONMENTAL MONITORING
- PREVENTIVE MAINTENANCE
- MACHINE CONTROL & PRODUCTION
- MOTION & ROBOTICS
- ENERGY EFFICIENCY

ENGINEERING
Services for engineering projects.

35 years of experience in the automotive, energy, oil & gas and water treatment sectors enable Cannon Automata to present itself as complete and perfect partner for the development of industrial engineering and process projects. Systems are characterized by their high performance, thanks to an approach that is fully oriented to achieve tailored solutions to specific needs.

For the best results in terms of quality and customer satisfaction, Cannon-Automata follows an operative scheme

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