Industry X.O. Realtime production activities under control

Integrating different systems for digital plant governance is possible thanks to **MES (Manufacturing Execution System).**

Being **ready for Industry X.O.** means **adopting a well-defined methodology** to manage production operations and the data coming from the shop floor. With rising raw material costs, a highly competitive global market, and increasing regulatory compliance concerns, companies that aim to succeed must **reduce waste, improve quality, and monitor production processes**—while continuing to increase output sustainably. This is why MES is essential.

The 4 key features of an Effective MES

Optimizes production and reduces waste

A MES **boosts efficiency and productivity** by enabling precise analysis of production lines and finished products. It detects and eliminates inconsistencies, limits material waste, and reduces the number of defective parts.
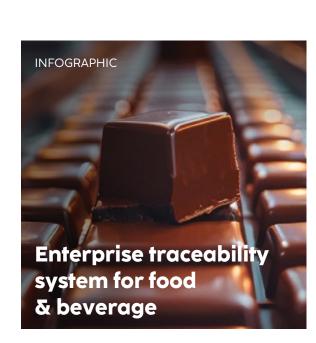
Improves quality control

MES helps **improve production quality and customer satisfaction**. Quality data is transmitted in real-time, allowing companies to immediately halt production in case of issues. In an IIoT industrial context, MES provides a competitive edge.

In an IIoT industrial context, MES is a competitive advantage

It enables the **automatic and real-time acquisition of reliable data**, ensuring constant updates on machine status and the progress of production orders. It standardizes processes and accelerates decision-making.

Enhances product traceability

Product traceability is crucial to ensure **regulatory compliance**. MES plays a vital role here as well: it tracks the production cycle from start to finish and links all final parts or batches with their corresponding production data.

Our Toolbox

INFOGRAPHIC

Enterprise traceability system for food & beverage

NEWS

Engineering Group in Gartner MES/MOM Market Guide

CASE STUDY

Digital transformation through Manufacturing Operations Management

CASE STUDY

Digital Manufacturing for Howdens Kitchens

Our Approach

We design and implement MES solutions for customers in both discrete and process manufacturing sectors, **improving productivity and reducing cycle times** by optimizing and synchronizing production activities in real-time, often across globally distributed operations.

Our expert team focuses on **optimizing integration** across enterprise, manufacturing, and execution layers, down to the shop floor equipment.

700+
PROFESSIONALS WORLDWIDE

1500+
PROJECTS COMPLETED

30+
INDUSTRIAL SECTORS COVERED