

# Smart Factory

## the challenges ahead in digitizing manufacturing plants

The new factory is connected, automated, proactive: a seamless process, enabled by technology, to meet the needs of an increasingly responsible and informed consumer.

DIGITAL INDUSTRY • SUPPLY CHAIN MANAGEMENT • MANUFACTURING EXECUTION SYSTEM • FOOD TRACKING • INDUSTRY 4.0

### Challenges:

- + **Industrial organizations must implement** technology applications and services that can meet many parallel objectives.
- + **Production planning systems must be** constantly aligned to manage inventory effectively and avoid waste.
- + **Supply chains are becoming** increasingly interconnected and complex to ensure and increase product traceability and quality.

How can we meet the needs of an increasingly responsible consumer and the demand for smarter, customized and sustainable products while minimizing production time and costs, **ensuring the efficiency of the entire supply chain** from raw material to finished product, and **increasing traceability and transparency**.

## The Value of Technology's Impact

### Regenerative Business

Technologies such as the **IoT** offer the opportunity to monitor the **performance of factory systems in real time**, obtaining useful data to ensure the efficiency of production, the resilience of the value chain, the safety and traceability of products.

### Composable Business Models

The combined use of models simulation and **AI** enables the use of the **Digital Twin of processes and plants to train Neural Networks** and support operators in making optimal decisions in scenarios complexity. Digital Twins are connected to data sources in the real environment and are constantly updated to reflect the original version.

### AI-Driven Value

Machine learning and **Artificial Intelligence** help to **identify patterns, trends and correlations** to improve the design, service, maintenance and quality of products, at every stage of the production path: from raw material to the final consumer.

## Our Toolbox



## Our Impact

