

Organizan



Partner Estratégico



TRANSFORMACIÓN DIGITAL EN EL ECOSISTEMA DE LA INNOVACIÓN

Estudio de la Cultura de la Innovación
Industria 4.0
Vigilancia Competitiva
Inteligencia Colectiva
Herramientas de la Innovación

22 de septiembre. Zaragoza



**TRANSFORMACIÓN DIGITAL EN
EL ECOSISTEMA DE LA INNOVACIÓN**

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Manufacturing IT Strategy

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Technology field lead Smart Factory OV

GM-IT



GM Smart Factory

Manufacturing IT Strategy



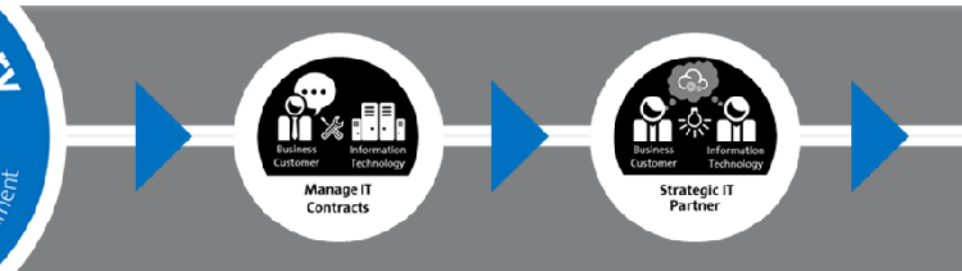


Our Vision

To Simplify our Customers Lives
Through Innovation and Optimization of
Information and Technology

Manufacturing IT

Serving Our Customers, Our
People, and Our Communities



To be a Strategic, Trusted IT Partner that:

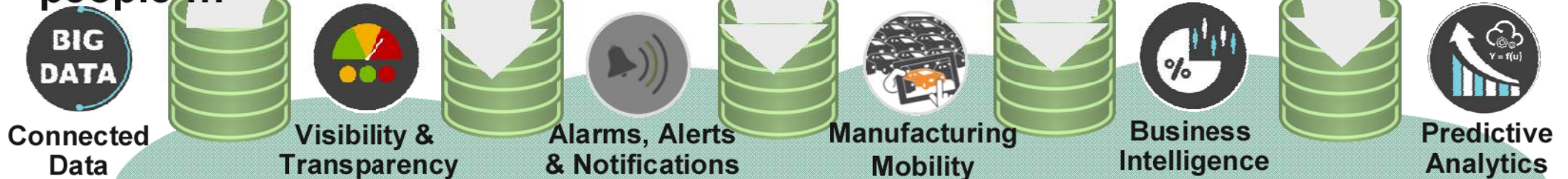
- Is integrated into the business strategy
- Collaborates across IT, while acting as a single point of IT contact for the Manufacturing business
- Develops flexible, scalable technology solutions with built in quality, security, and reliability
- Drives core business efficiencies and innovation



Helping the Business Optimize Productivity, Cost & Quality

Information & Technology

In the Smart Factory everything begins by connecting data, devices, and people ...



Business Process



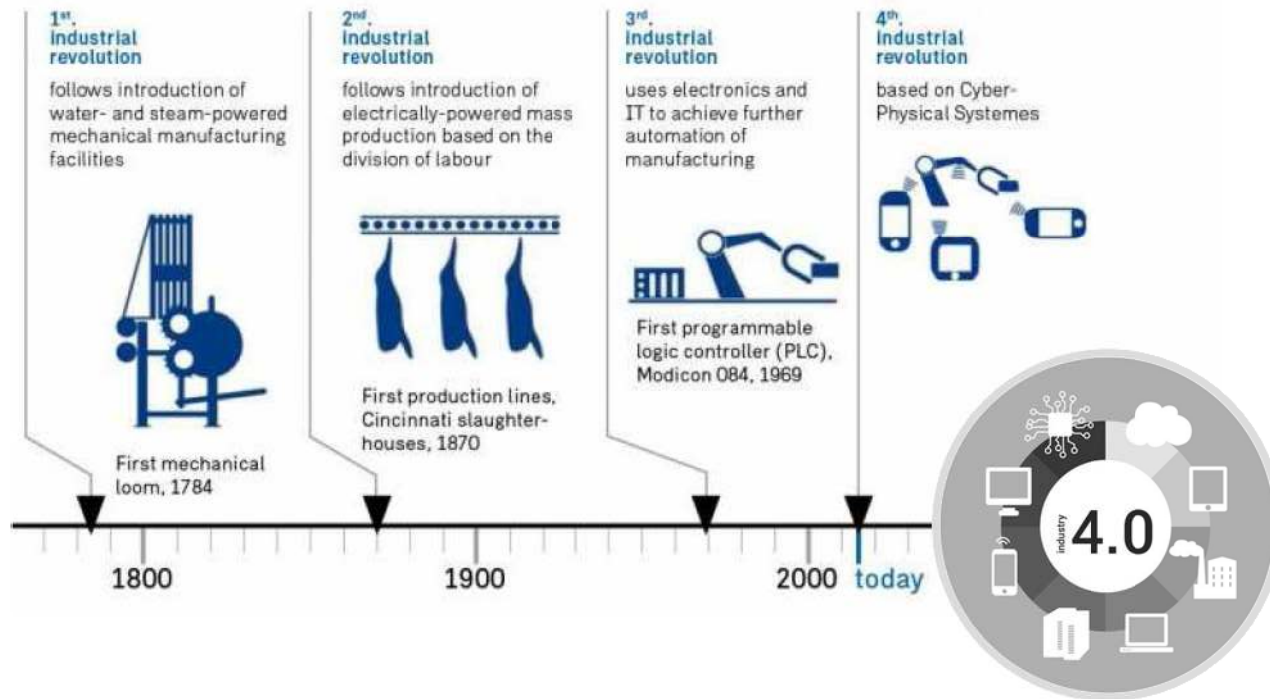
Manufacturing Operations





Industry 4.0

Manufacturing IT Strategy



A **Cyber-Physical System (CPS)** is a system of collaborating computational elements controlling physical entities

Industry 4.0 Design Principles

Interoperability | the ability of cyber-physical systems (i.e. work/parts carriers, assembly stations and products), humans and Smart Factories to connect and communicate with each other via the Internet of Things and the Internet of Services and the Internet of People

Virtualization | a virtual copy of the Smart Factory which is created by linking sensor data (from monitoring physical processes) with virtual plant models and simulation models

Decentralization | the ability of cyber-physical systems within Smart Factories to make decisions on their own

Real-Time Capability | the capability to collect and analyze data and provide the derived insights immediately

Service Orientation | offering of services (of cyber-physical systems, humans or Smart Factories) via the Internet of Services

Modularity | flexible adaptation of Smart Factories to changing requirements by replacing or expanding individual modules



Emerging Technologies

Manufacturing IT Strategy



Environmental

Industry Trends

Competitive Analysis

Emerging Technologies

Government & Regulatory

Predictive Analytics



Manufacturing Mobility



Vision Guided Vehicles



Wireless Factory



Augmented Reality



Paint Defect Detection



Paperless Factory



Emerging Technologies

