

Convegno

# INDUSTRY 4.0

La Voce di chi Produce



**FESTO**  
Consulting

**FERRERO**



**KUKA**  
**FESTO** **SAP**



**BIESSEGROUP**

 **TERZA TAPPA**

**Mercoledì 10 maggio 2017**

**ore 10.00 - 16.30**

presso **Fondazione Ferrero**

Via Vivaro 49 - Alba (CN)

**FESTO**

**FESTO**  
Consulting



**FESTO**

# **Industry 4.0** -La voce di chi produce **Benvenuti in Ferrero**

**Giuseppe Del Duca**

**Direttore di Stabilimento Alba e Amministratore Delegato, Ferrero Industriale Italia**

**LAVORARE  
CREARE  
DONARE**





# Il modello industriale Ferrero: il nostro percorso verso l'Eccellenza



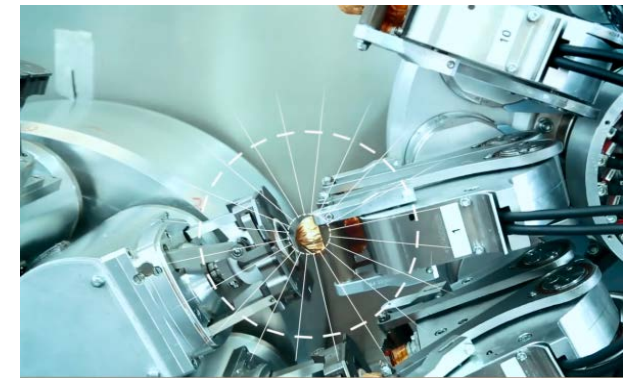
FESTO



Un nuovo  
modello  
organizzativo  
industriale

F.O.X., ovvero la  
Lean per Ferrero

Industria  
4.0



FERRERO



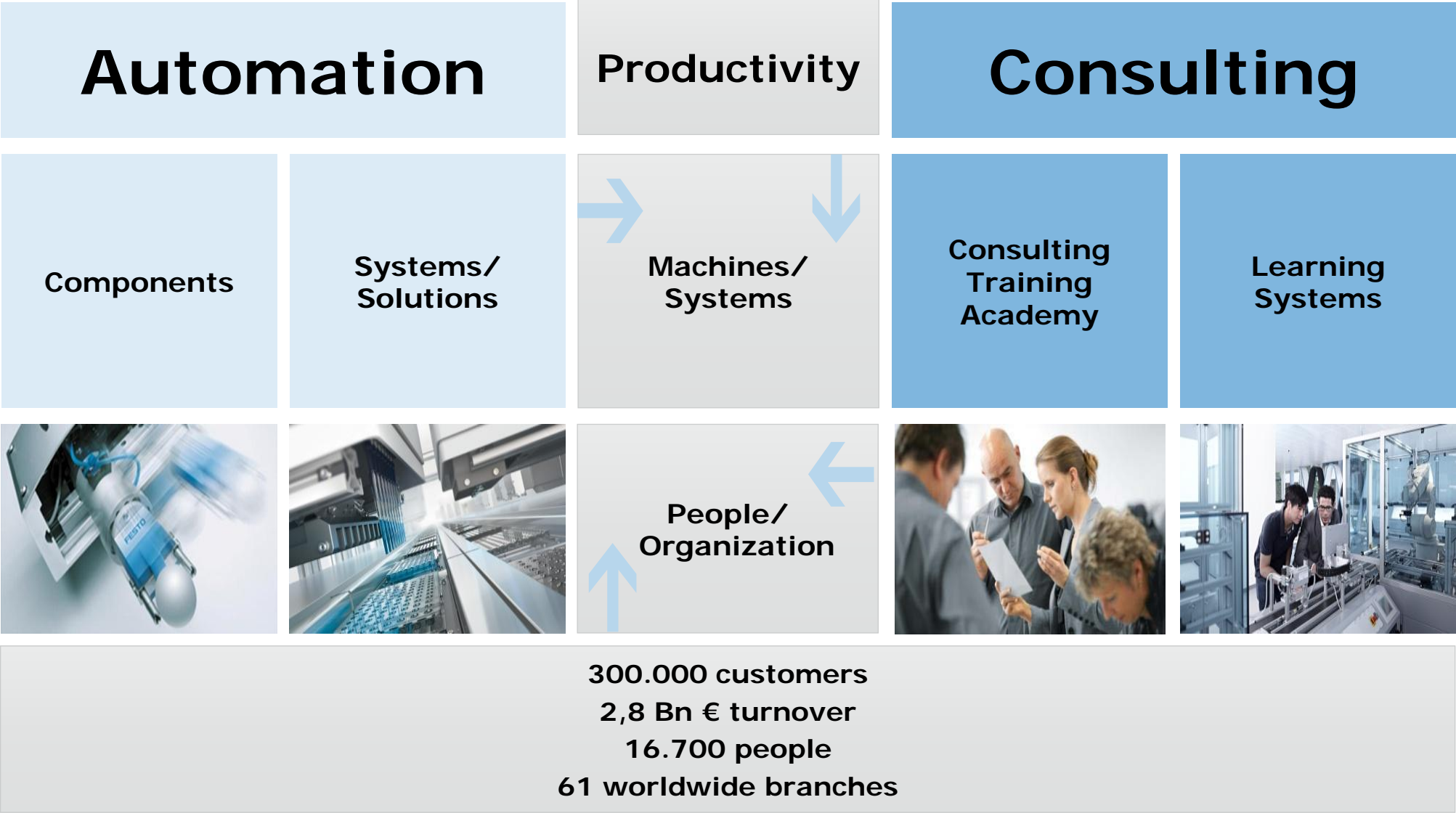
## **Il percorso Ferrero verso l'Eccellenza industriale...**

### Tool Industry 4.0:

- Food Safety: sensors (metal detectors, X-ray machines, cameras, continuous scales etc.); control systems
- Engineering/Process: robotics, mobile devices, MES
- Performance: OEE monitoring, data analysis



# Festo Businesses





A man in a white shirt is shown in profile, interacting with a tablet that displays a 3D model of a mechanical part. In the background, a large industrial machine is visible. The image is overlaid with various 3D text elements representing Industry 4.0 concepts, including:

- BIG DATA
- PLUG AND PRODUCE
- QUALIFICATION
- TECHNOLOGY
- INTEGRATED AUTOMATION
- SYSTEMS
- TA
- RE
- CUSTOMER PRODUCTION
- INTERNET OF THINGS
- VIRTUAL
- ELIGENT
- UPDENTS
- COMMUNICATION TECHNOLOGY
- INDUSTRIAL

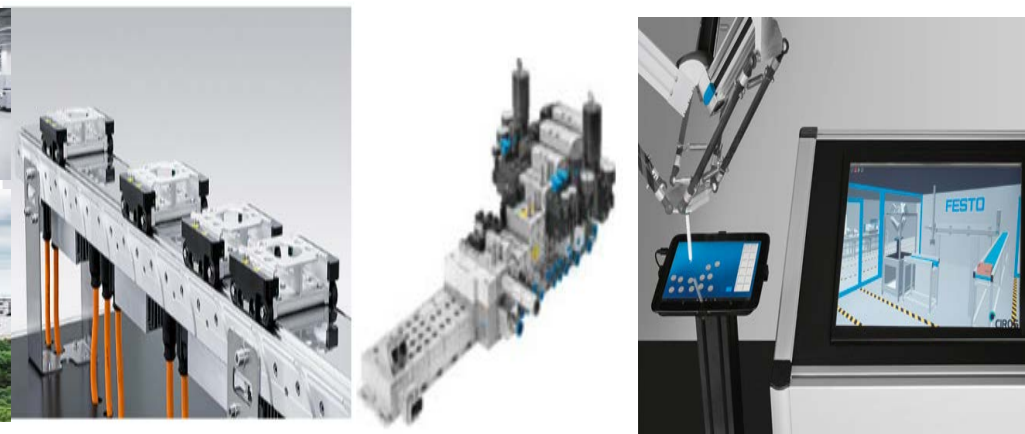


## Persone e sviluppo delle competenze

**SAP** **SIEMENS** **T** **ERLEBEN, WAS VERBINDET.** **FESTO**



## Nuovo sito produttivo di Scharnhausen in Germania Model Factory per Industry 4.0



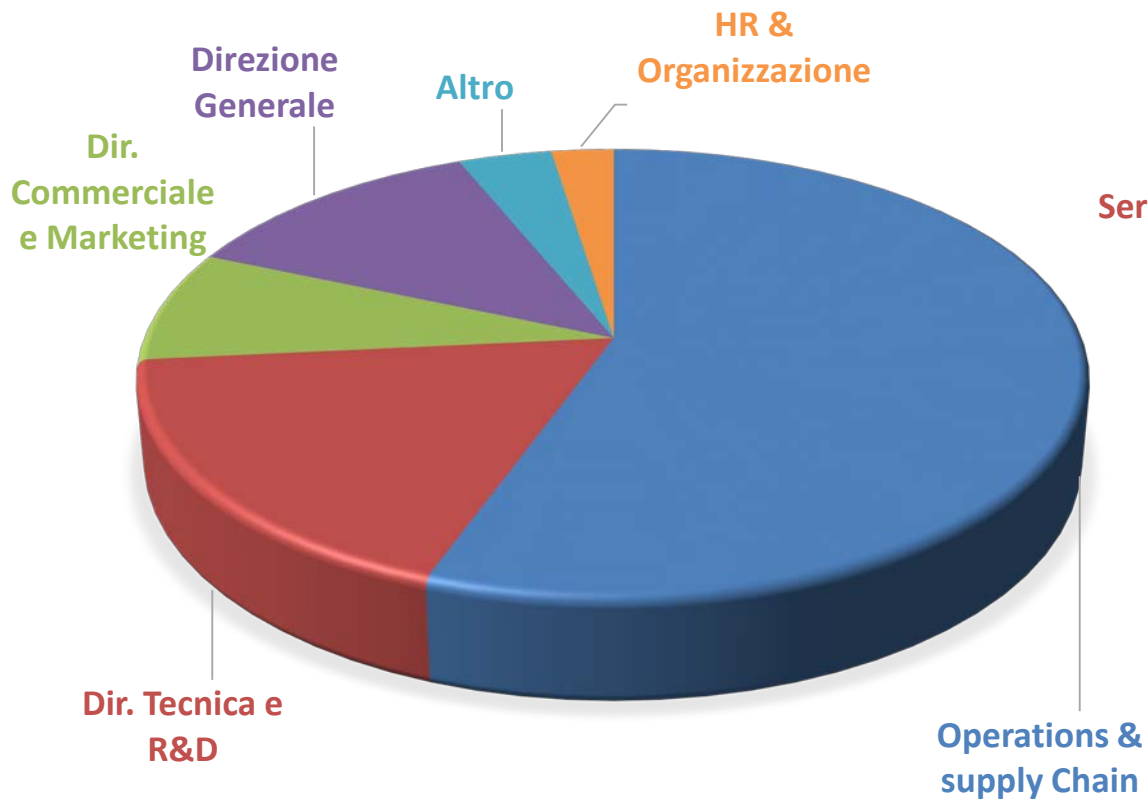
## Intelligent Components

## Componenti e sistemi di automazione pronti per Industry 4.0

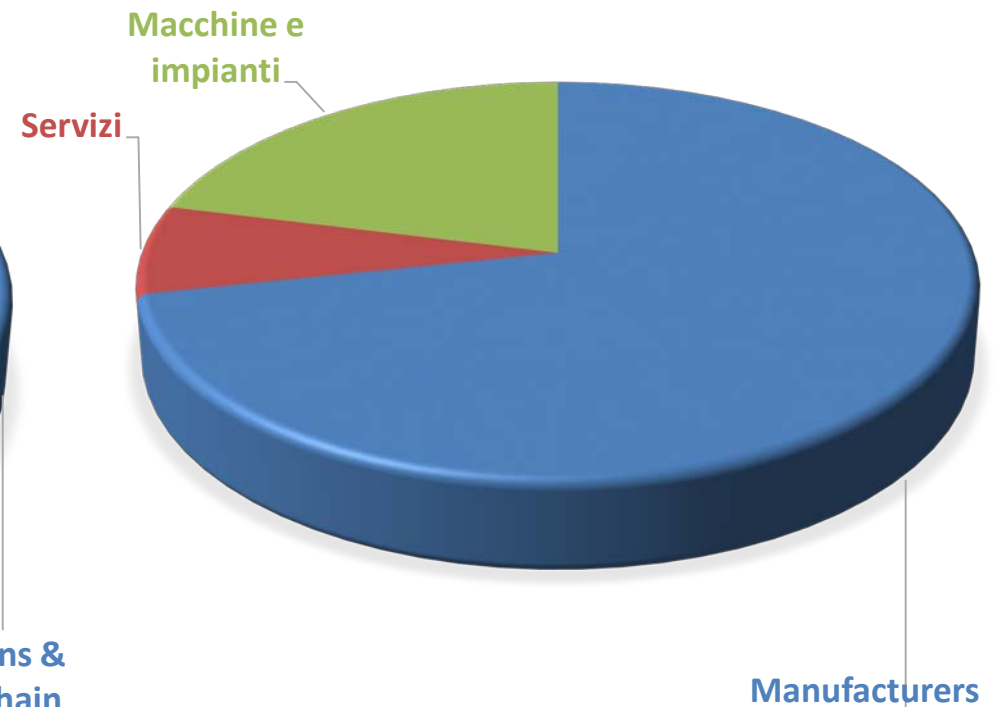


## Chi è presente oggi.... Come essere efficaci?

RUOLI PRESENTI



MACROSETTORI PRESENTI





# CLOUD

SUPPLIER

CONNECTION

IT-SECURITY



Customer Specific

MAXIMUM  
Productivity  
& Adaptability

DIGITAL SHADOW



INDUSTRY 4.0



Goals

PPM → 0



Quality Standards

CUSTOMER

TRAINING

BIG DATA / DATA MINING

CONNECTION



APP

CP-FACTORY

COMPETENCY DEVELOPMENT



## A che punto siamo?

## Siamo in viaggio...

Cosa dice il bollettino dei naviganti?

- Ordini di macchine + 5%
- Interesse per nuovi plant o revamping
- Un certo fermento su sistemi IT e opzioni reshoring
- Grandi Medie e Piccole.....

Manca spesso una visione che integri

- Business
- Processi
- Tecnologie
- Persone





**Industry 4.0**  
**Molteplici**  
**possibilità.....**





## Perché ..... Nella mia azienda

Due opzioni principali per iniziare o forse 3

### Trasformarsi in una digital company

#### Efficienza Operativa

Total Transformation cost

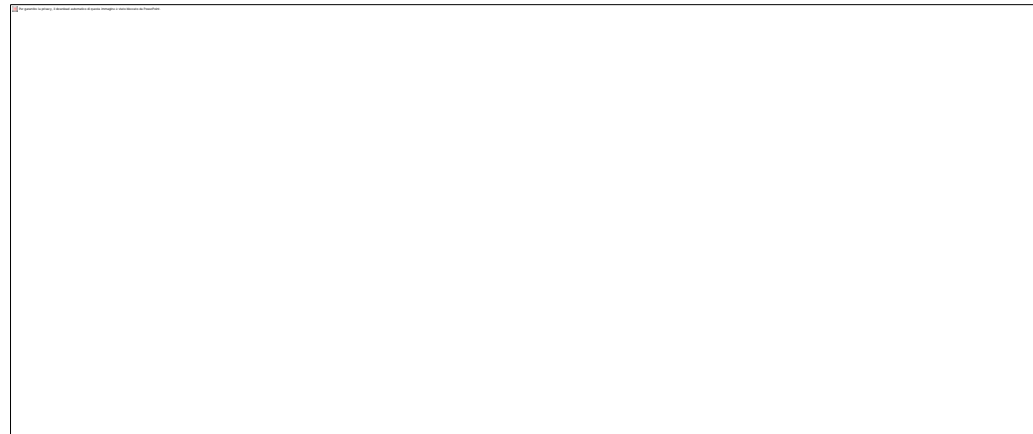
OEE

Flessibilità

Qualità

Lead Time

Affidabilità



#### Nuovi Business

New Market

Market share

Customisation

Time to market

Modularità

Right first Time

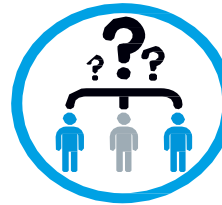
Qualità

## Non solo tecnologie....

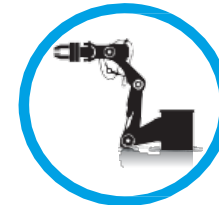
Cambiano:  
le organizzazioni  
le competenze critiche  
i comportamenti



**Competition**  
Imprenditorialità  
diffusa



**New  
Hierarchy**



**Technology  
Know How**



**Hyper  
connectivity**



**Transparency**

## Guidare Cambiamento

**Fissare la destinazione**



**Comunicare il cambiamento**



**Gestire il viaggio**







Data Driven Services  
Machine cloud  
Predictive Maintenance & Quality



Smart Products

New Business Model



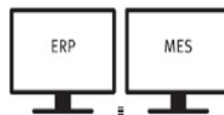
Teleservice Remote Expert

Cloud



WLAN NFC

Intranet



Shop floor to Top floor

Secure WLAN



Switch

Automation Network

RFID

Fieldbus/DeviceNet

Intra Logistics

Supply Chain

Logistics and Distribution

Intra Logistics

Intra Logistics

Shipping and Delivery

Customers



Remote Services

VPN

People Competence  
Processes & Organization  
Culture



Internet

Supply-Chain  
Collaboration

Smart Factory  
Machine to Machine

E-commerce integration  
configuration