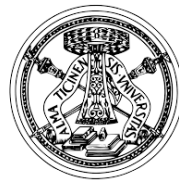


MECHATRONICS EXPLAINED BY COMPANIES

Present and future of industrial machines design



Università degli Studi di Pavia
18 May 2020



AGENDA

OPENING SESSION

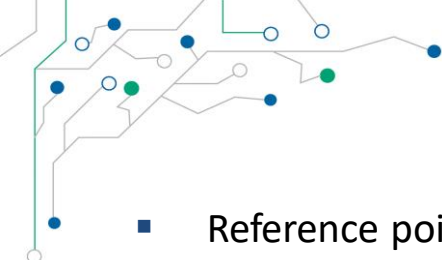
- Welcome greeting by **Università degli Studi di Pavia**
- **Sabina Cristini**, *President of WG Mechatronics – ANIE Automazione*

OEM SESSION

- Samer Andraws, **FEDEGARI**

TECHNOLOGY PROVIDERS SESSION

1. TRANSMISSION AND MECHANICAL DESIGN	
Kinematic chain and dimensioning	BONFIGLIOLI - LENZE ITALIA
2. SAFETY AND SECURITY	
Safety	SCHMERSAL ITALIA
Cybersecurity	ROCKWELL AUTOMATION
3. AUTOMATION AND CONTROL	
Artificial Intelligence applied to robotics	MITSUBISHI ELECTRIC
Condition monitoring	BALLUFF AUTOMATION
Robot guidance	SICK
Closed-loop systems in robotics	HEIDENHAIN ITALIANA
Dynamic problems with robot wiring	LAPP ITALIA
4. SIMULATION AND VIRTUALIZATION	SIEMENS
5. LOGISTICS	OMRON ELECTRONICS - SEW EURODRIVE



ANIE Automazione

- Reference point for companies supplying advanced technological systems and solutions for industrial automation.
- Member companies are organized into working groups, distributed on two areas:

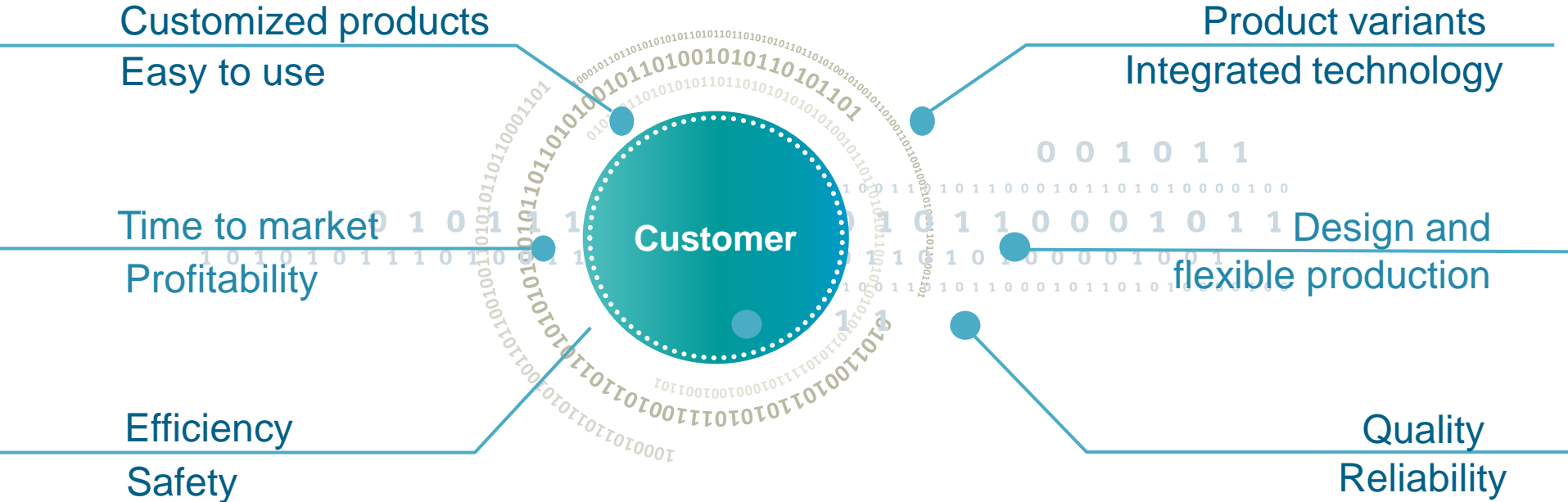
PRODUCTS	SYSTEMS
VARIABLE SPEED DRIVES	MECHATRONICS
COMPONENTS AND TECHNOLOGIES FOR MEASUREMENT AND CONTROL WG ENCODER, NETWORKING, RFID, SAFETY, WIRELESS, VISION SYSTEMS	INDUSTRIAL SOFTWARE
PROCESS CONTROL	REMOTE CONTROL SYSTEMS
HMI-IPC-SCADA	INTELLIGENT TRANSPORT SYSTEMS
PLC-I/O	

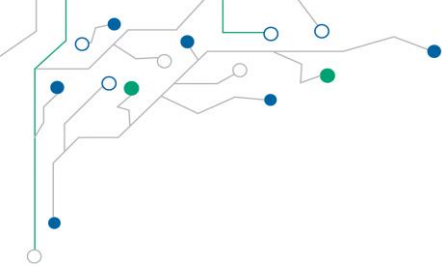
- A network committed to supporting and promoting the technological excellence of the sector.
- At the forefront on issues of digitalization and Industry 4.0.

Companies of WG Mechatronics

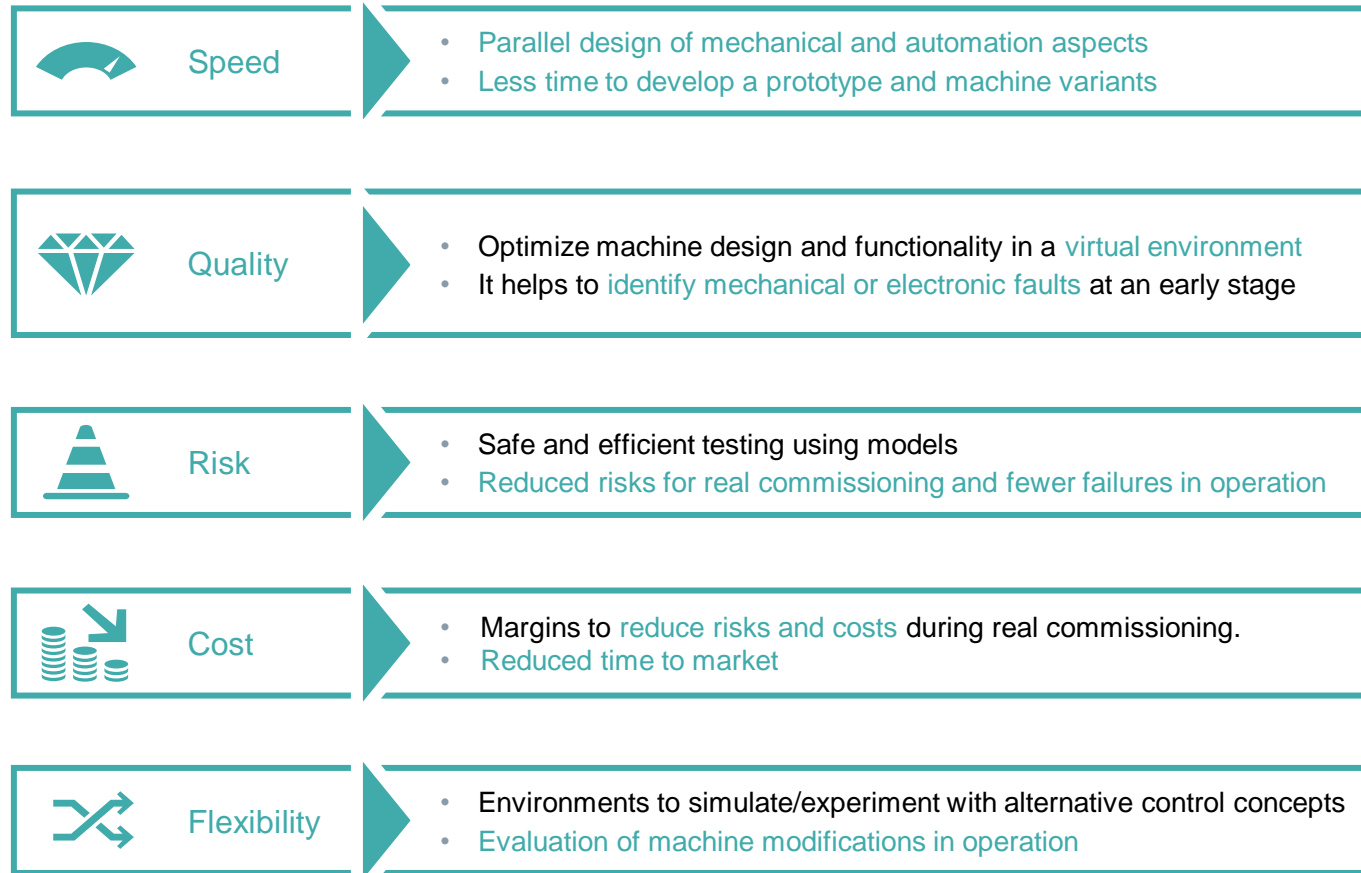


Growing global challenges in industry





Advantages of the mechatronic approach and simulation



- Development of new machines
- Expansion of existing machines/lines
- Retrofits and optimizations

TECHNOLOGIES SESSION

TRANSMISSION AND MECHANICAL DESIGN

Kinematic chain and dimensioning

LENZE ITALIA - Marco Lombardi
BONFIGLIOLI - Loredana Matea

SAFETY AND SECURITY

Safety

SCHMERSAL - Massimo Eritale

Cybersecurity

ROCKWELL AUTOMATION - Massimiliano Spano

AUTOMATION AND CONTROL

Artificial Intelligence applied to robotics

MITSUBISHI ELECTRIC - Simone Farruggio

Condition monitoring

BALLUFF AUTOMATION - Fabio Rosso

Robot guidance

SICK - Claudio Donadoni

Closed-loop systems in robotics

HEIDENHAIN ITALIANA - Oscar Arienti

Dynamic problems with robot wiring

LAPP ITALIA - Marco Artoli

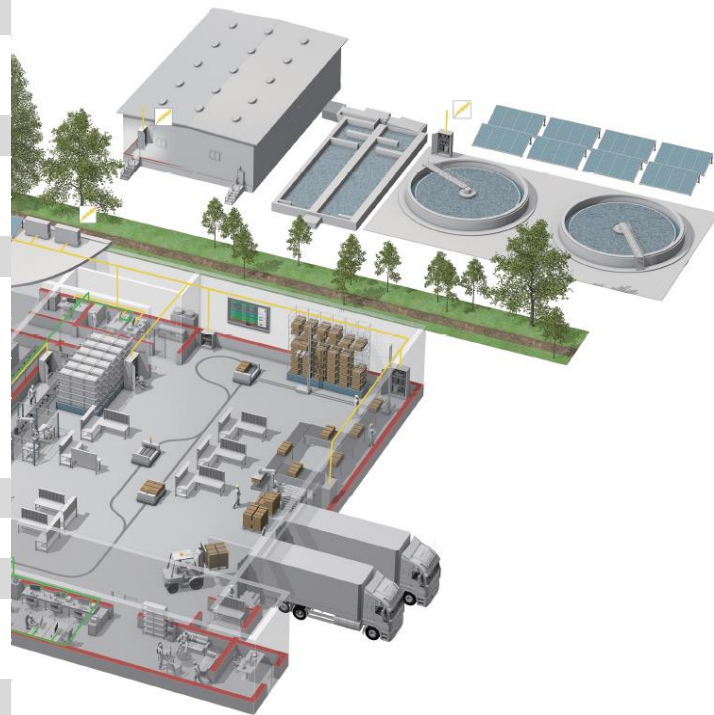
SIMULATION AND VIRTUALIZATION

SIEMENS - Leonardo Cipollini

LOGISTICS

OMRON ELECTRONICS - Marco Mina

SEW EURODRIVE - Daniele Arosio

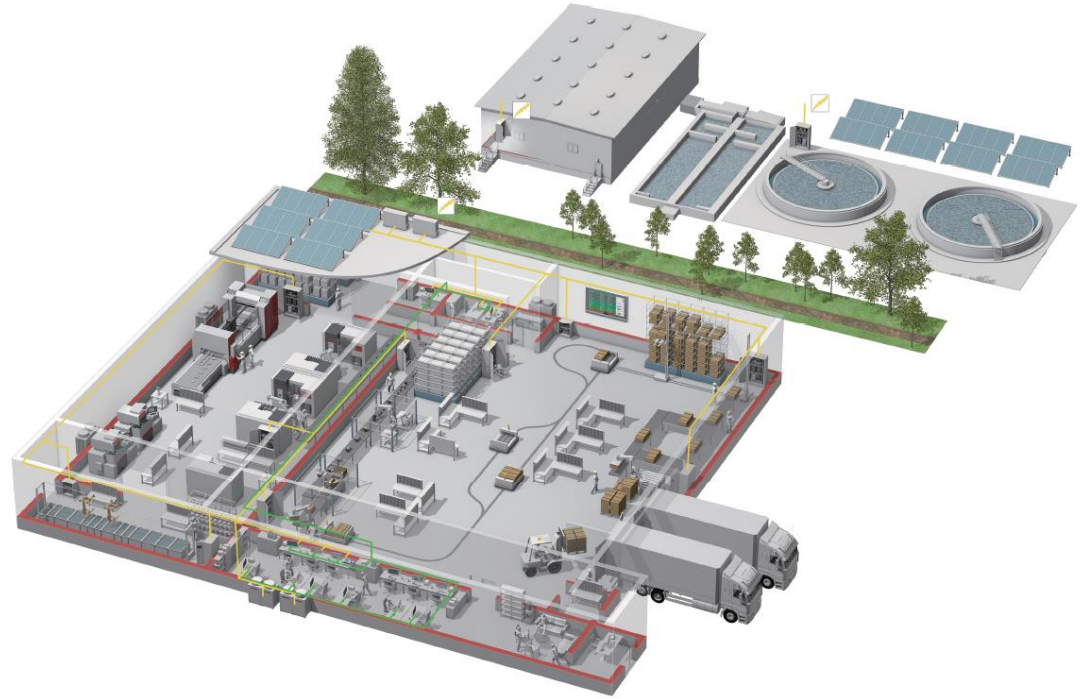


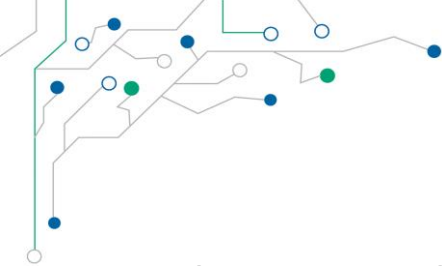
OEM SESSION

FEDEGARI

Samer Andraws

*Head of Automation and
SW Development*





The workshop proceedings will be available on
www.anieautomazione.it

Contact us for the certificate of participation
anieautomazione@anie.it