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<tr>
<th>Year</th>
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<td>Several companies in the Turin area create Consorzio Macchine Utensili</td>
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<td>Comau S.p.A. is established incorporating Comau Industriale activities</td>
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**Skill focus evolution**

**Technology**

**Management**
PMO Strategic Role

CORPORATE PROJECT MANAGEMENT organization (PMO) to:

- Develop and implement global organizational policies and processes related to project management
- Improve management on multi-national projects with the right empowering and visibility
- Manage the Global Projects Portfolio
- Allow experiences flow between different Countries and Businesses
- Share best practice and lesson learned
## Comau History

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### Skill focus evolution

- **Technology**
- **Management**
- **Culture**

Made in Comau

Property of Comau - Duplication prohibited
Balance Area

Processes and technology without people
Alienation and turnover
Underused systems

People and processes without technology
Frustration and inefficiency
High operational costs

Frustration

Automated Caos

People and technology without processes
Automated caos and confusion
Low quality customer value

Alienation

Balance Area

Process

Technology

People
What it is

e.DO

a flexible, interactive, open-source, professional robot, created for anyone who wants to explore or expand the world of robotics.

Designed to stimulate creativity and participation inside and outside a classroom setting. It integrates and consolidates Key Skills Areas such as Robotics, STEM subjects, Soft Skills and Industrial Culture.

e.DO Experience, an innovative educational platform for learners of all ages:
- Facilitates a PRAGMATIC APPROACH in learning disciplines
- Strengthens CROSS-DISCIPLINARY COMPETENCES
- Encourages INVOLVEMENT, COOPERATION AND INCLUSION among participants
- Provides an UNCONVENTIONAL AND ENGAGING learning journey
- Develops the ability to LINK DISCIPLINARY LEARNING TO THE WORLD at large
Fundamentals

e.DO Experience leverages on
COMAU ACADEMY’S LEARNING MODEL,
which mirrors the way people learn «naturally»

- **CONTENT** - learning is due to the acquisition (formal or spontaneous) of new knowledge, principles, tools.

- **RELATIONSHIP** - people learn by social interaction, experience sharing, emotional bond to others.

- **ACTION** - learning by doing (performing tasks, facing challenges, solving problems) is a key part of the process.
Facts

- 6,000 Students engaged in e.DO Learning Center Fondazione Agnelli (Turin) activities in the scholar years 2017-2018 and 2018-2019
- 7,500 Students of the Secondary Schools and Universities involved in Robotics License program from Sep 2017 to Jun 2019
- 500 Executives involved in different Academy learning paths using e.DO Experience
- 150 people involved in the event Women Experience in STEM organized by Comau, Campus Party, Pearson in and for Confindustria (Rome)
- 1,600 Students involved in e.DO Learning Center Fondazione Dalmine (Bergamo) from Jan to Jul 2019
- 100 Students of the Primary and Secondary Schools have participated in e.DO Experience Laboratories in Karlshamn (SWE) during the first week of Sep 2019
- EIT Manufacturing funded project, involving Comau in collaboration with Vienna University of Technology and Institute of Technology - University of Tartu, aimed at developing e.DO Programs for University students
# Automation Challenges and Trends 2019 - 2025

## The Challenges

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<th>The Enablers</th>
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<td>Automation complexity and unpredictability</td>
<td>Collaborative automation for greater flexibility</td>
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<td>Shop floor disruptions and high engineering costs</td>
<td>Better software for engineering efficiency</td>
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<td>Lack of robot integration and programming expertise</td>
<td>Easier to use robots with more intuitive programming</td>
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<tr>
<td>Higher lifetime TCO due to increase in planned downtime</td>
<td>Advanced analytics and services for greater reliability</td>
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<td>Lost productivity to maintain safety</td>
<td>Collaborative automation to maintain safety and productivity</td>
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## The Answers to these challenges are:

Simplification, Digitalization and Collaboration
Agile Skills Development Ecosystem

Teaching Institutions

Digitalization as enabler

Students

Industry
THANK YOU