



POLO

**MECCATRONICA**

Impresa Innovazione Formazione

A Project from:  
Autonomous Province of Trento and Trentino  
Sviluppo, with the support of:



UNIONE EUROPEA  
Fondo europeo di sviluppo regionale  
in Trentino



*Investiamo nel vostro futuro*

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Photos:  
Jacopo Salvi  
and Andrea Sottana

TRENTINOSVILUPPO  
IMPRESA INNOVAZIONE MARKETING TERRITORIALE

TRENTINO

Polo Meccatronica

WHERE THE SMART FACTORY GROWS



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[polomeccatronica.it](http://polomeccatronica.it)

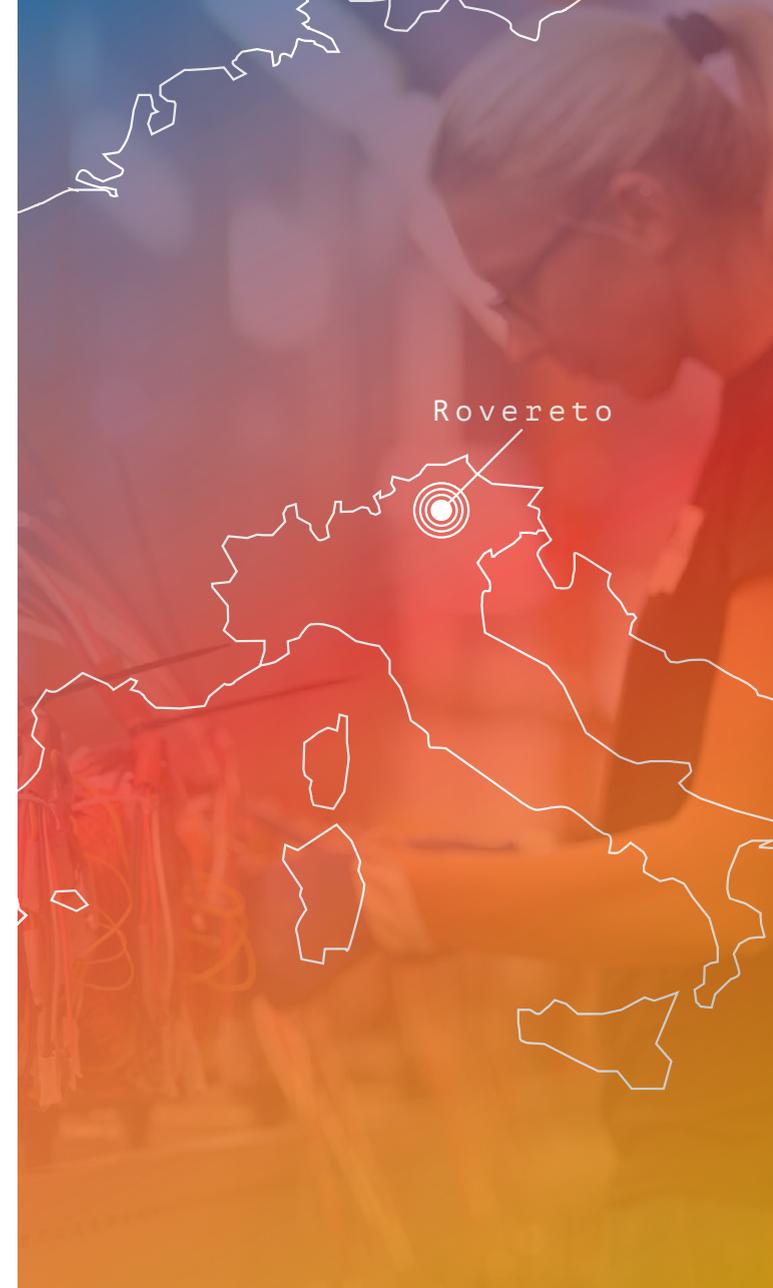


## WHO WE ARE

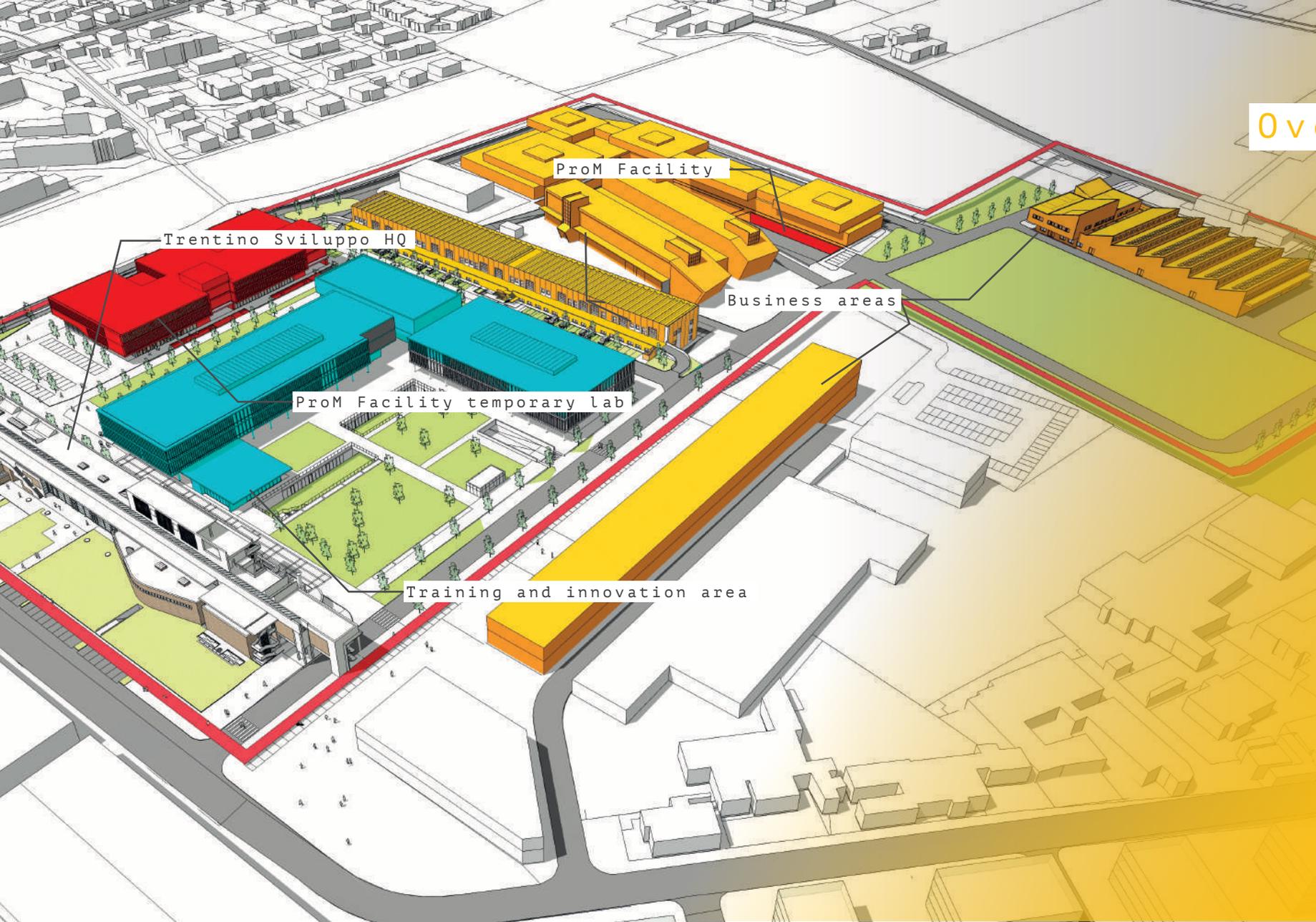
Polo Meccatronica is a technological hub where business, education and research systems can develop innovative products and processes thanks to the interaction between information technology, electronics and mechanics.

One of the few examples in Italy of technological/industrial hub where entrepreneurs, workers, researchers and students share an ideal habitat.

In Rovereto, Polo Meccatronica covers a total area of 14 hectares to create synergies, launch collaborative research projects and encourage the transfer of skills (and personnel) from the world of training and research to companies. A bet on which the Autonomous Province of Trento has invested about 90 million euros.



## Overview



Started in 2013, Polo Meccatronica hosts about thirty companies, including Bonfiglioli S.p.A., with Bonfiglioli Mechatronic Research (BMR), Carl Zeiss, the Ducati Energia Research Center, the Dana Mechatronic Technology Center (DMTC), WATTS and Nplus, a company of the Aermec group. The picture is completed by several exciting startups that work on sensors, robotics, artificial intelligence, and ProM Facility, a unique technology centre in Italy and Europe in the field of product development and mechatronic prototyping. The knowledge triangle closes with technical, specialized and advanced training courses in partnership with local schools for a total of 1,480 students.

## The numbers



Hectares  
of land

14



Companies in  
the supply chain  
based in Trentino

800



Mechatronics  
prototyping  
laboratory

1



Students in  
the hub

350

# Business incubation

## formula

### COWORKING SOLUTIONS

#### Trentino Startup Valley

Our business coaching project for newly established, or in the process of being established, startups - developed in collaboration with HIT-Hub Innovazione Trentino - is divided into several phases and offers:

- High-level specialized training
- Dedicated support with an assigned personal coach
- Free participation in all Innovation Academy modules
- Intermediate checking with your coach
- Cash prizes up to 30,000 euros
- Coworking desk
- Wi-Fi
- Access to meeting rooms and common areas in Polo Meccatronica

Admission: call for application  
(avg. 2 calls per year)

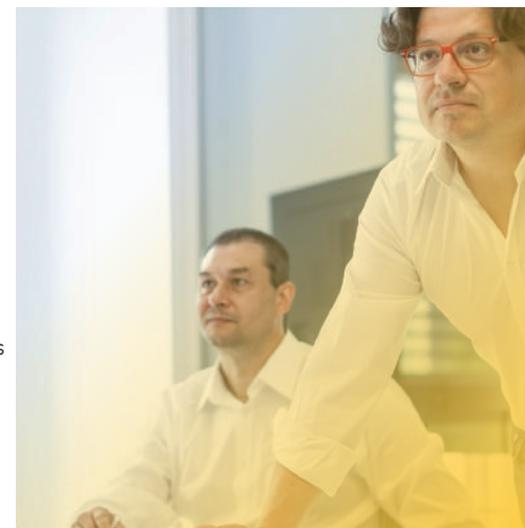
[www.trentinostartupvalley.it](http://www.trentinostartupvalley.it)

#### Innovation factory - coworking

Designed for startups and companies aiming to get in touch with Trentino's business world, establishing the legal or operational headquarters, Innovation Factory offers:

- access to tutoring services, specialized training, network and communication of Trentino Sviluppo
- Participation in the Innovation Academy
- Internationalization opportunities
- Corporate finance
- Coworking spaces, access to meeting rooms and common areas
- Wi-Fi

Admission: via preliminary investigation

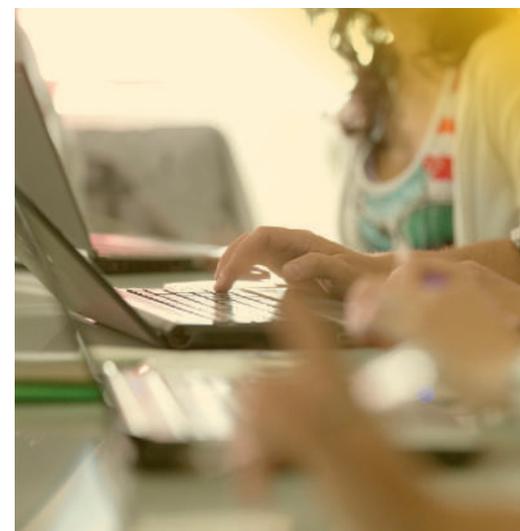


#### TS-HOST

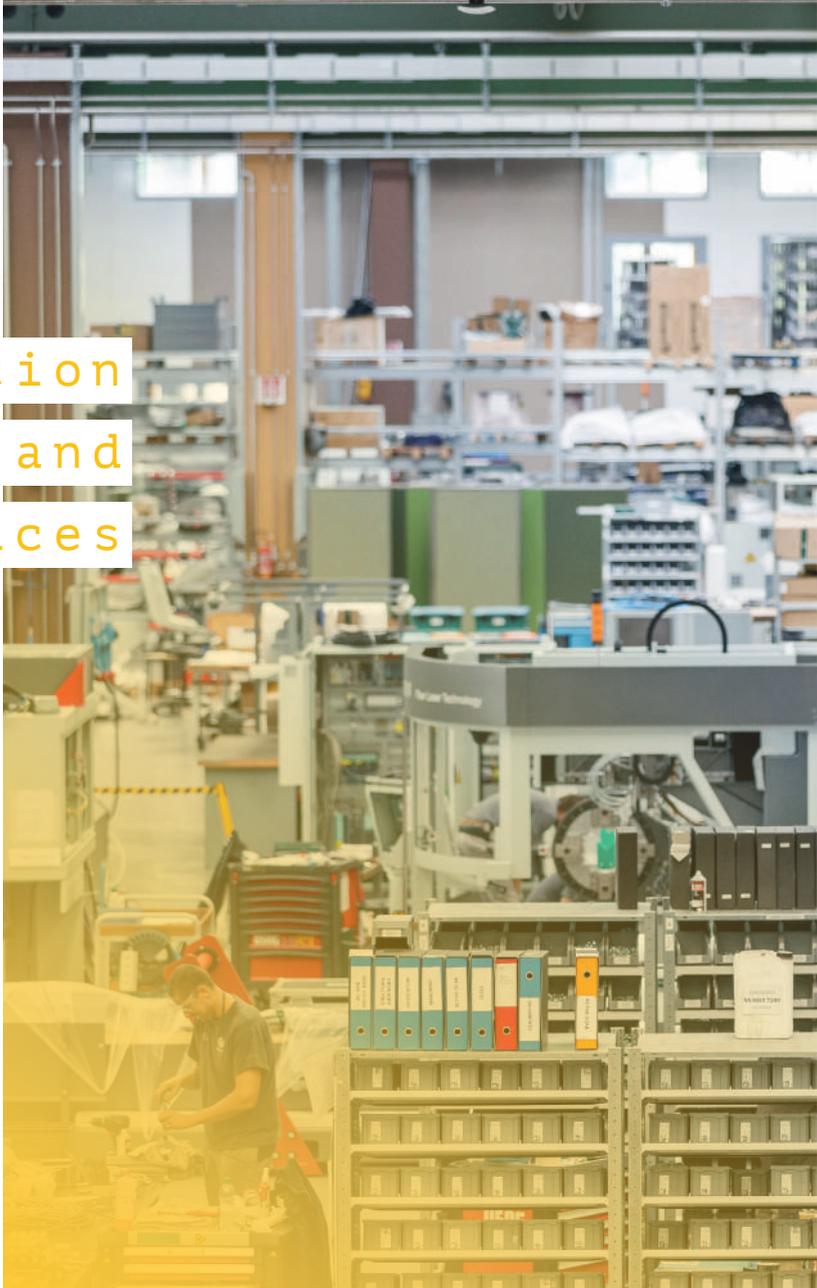
Designed for startups, companies and professionals who seek an agile logistics base and offer their services and expertise to the companies and startups part of the Trentino Sviluppo network, TS HOST offers:

- Coworking spaces, access to meeting rooms and common areas
- Wi-Fi
- Discounts for meeting rooms
- Organize events or training seminars in cooperation with Trentino Sviluppo

Admission: Fast Track



# Production and office spaces



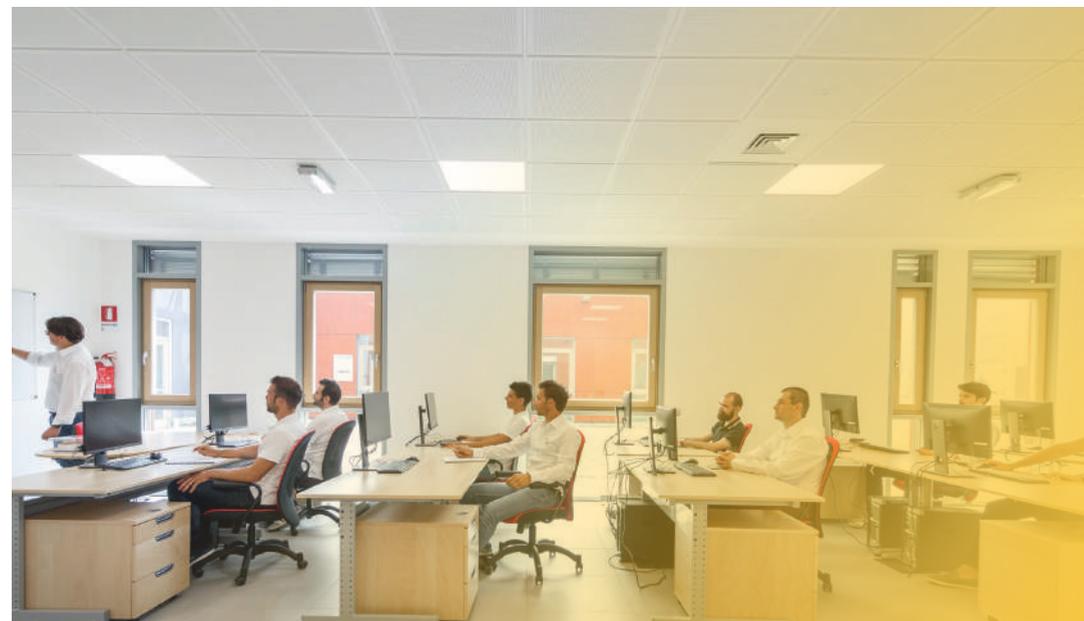
## Innovation factory - standard

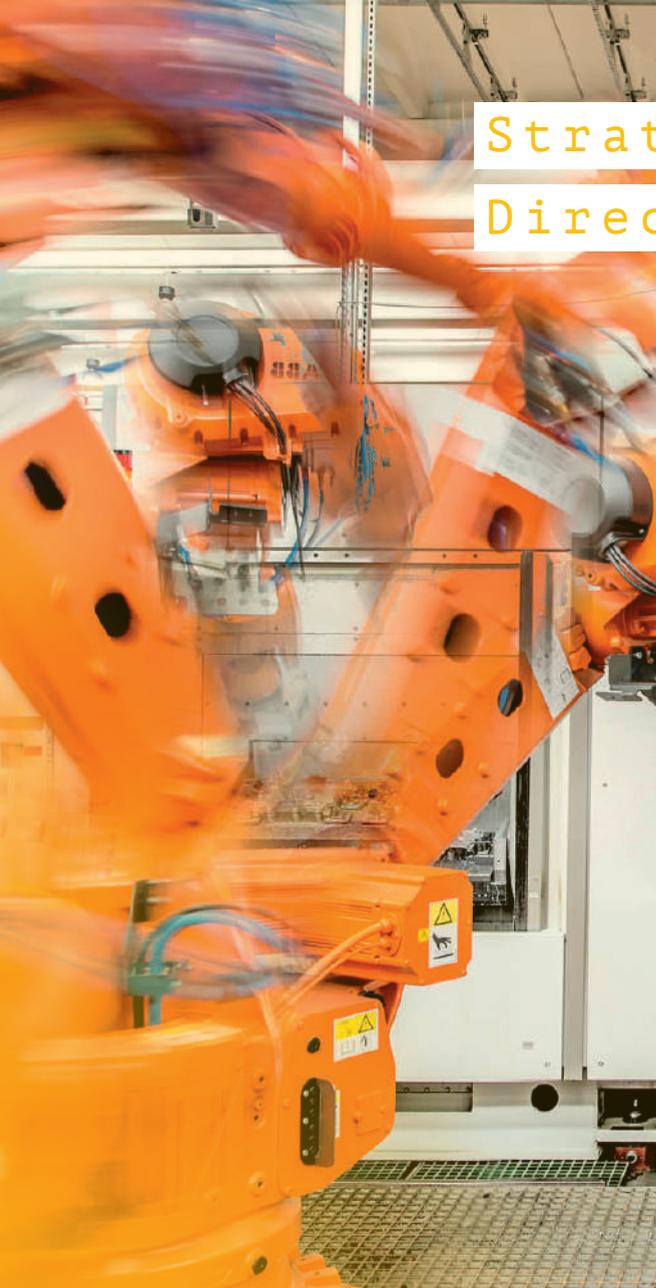
We offer manufacturing and office spaces to the company establishing in Polo Meccatronica:

- Ready-to-use modules
- Customizable modules according to business needs
- Access to meeting rooms and common areas in Polo Meccatronica
- Access to tutoring services, specialized training, network and communication of Trentino Sviluppo
- Participation in the Innovation Academy

- Internationalization opportunities
- Corporate finance

Access mode: via preliminary investigation and investigation





# Strategic Directions

## Automation

sensors, intelligent processes of the production system, robotics, augmented reality, integrated systems, 3D image mapping, software and network engineering, advanced and dynamic design systems

## Automotive

multidisciplinary optimisation, multibody dynamic analysis, mechanical and structural design, augmented reality, 3D image mapping and trajectory monitoring, integrated systems, software, electronics and sensor design, surface coating, decarbonisation technologies, embedded systems, virtual simulators, autonomous guidance systems

## ICT

cognitive computing, complex data analysis, adaptive, reliable and secure systems, wearable sensors and actuator networks, intelligent interfaces, augmented reality, security in cloud applications and infrastructures, semantic technologies and ontologies

## Aerospace

research, design, development, manufacturing, packaging, testing of innovative devices, MEMS-based on silicon-compatible technologies, radiation sensors and MEMS used for optical and particle detection, transduction, RF and optical, remote sensing, quantum communication

## Biomechatronics

artificial intelligence, machine learning, bioinformatics and biomathematics, deep neural networks, biomechanics



## L a b s

[Pro]<sup>M</sup>

MECHATRONICS  
PROTOTYPING  
FACILITY

offers rapid prototyping and product development services, combining traditional mechanics with the most advanced and sophisticated physical and virtual prototyping, testing and pre-qualification systems



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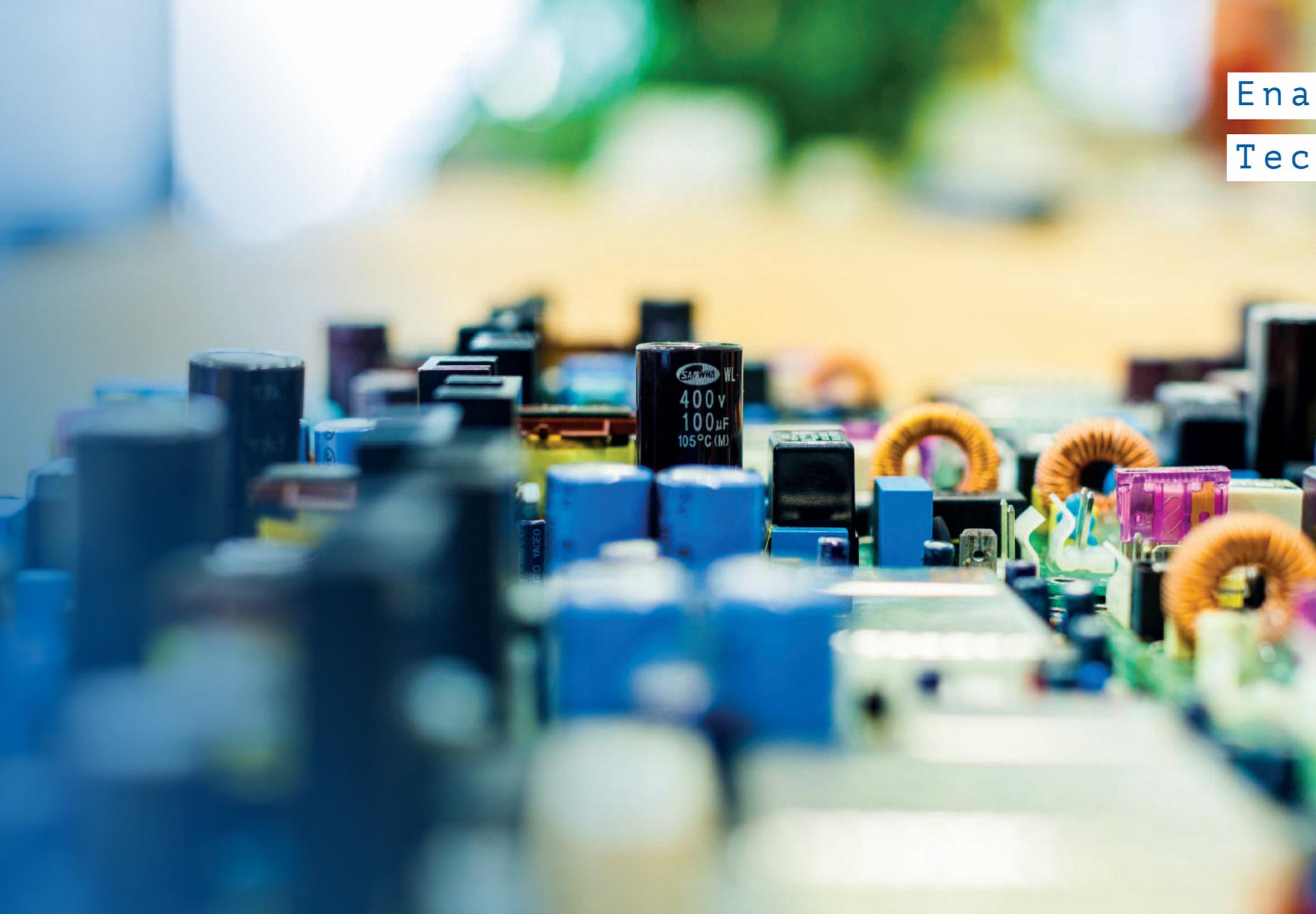
The facility, financed with almost €6 millions of European ERDF (European Regional Development Funds), has innovative machinery to prototype rapidly complete mechatronic systems, including metal and polymeric 3d printing, laser cutting of tubes and sheets, as well as advanced metrology systems such as X-ray thermography and 3d scanners.

Offers:

- **To companies in the mechatronics supply chain**  
an integrated platform for the design, development, implementation of production systems and processes
- **To students, undergraduates and researches:**  
training courses of excellence by putting transversal skills into the system
- **To the company's technical staff**  
in the mechatronics sector opportunities for updating and specialist training in a dynamic and avant-garde context

ProM facility is a joint initiative of Trentino Sviluppo, Fondazione Bruno Kessler, University of Trento, Confindustria Trento and the Autonomous Province of Trento.

[www.promfacility.eu](http://www.promfacility.eu)



# Enabling- Technologies

## PROM FACILITY

### 3D printing

additive, subtractive and hybrid manufacturing

### ICT

simulation, networking, internet of things

### Electronics

prototyping of integrated electronic boards, characterization and qualification

### Metrology

geometric and dimensional verification, reverse engineering, mechanical and thermic tests

### Cybersecurity

resilience to cyber attacks

[www.promfacility.eu](http://www.promfacility.eu)

# Networks

Polo Meccatronica is involved in several national and international networks

## INTERNATIONAL :

IASP - International Association

of Science Parks

and Areas of Innovation

the global network of science and technology parks, innovation poles and technology incubators.

AIN - Action Innovation Network

a collaborative network of technology business incubators and organisations supporting entrepreneurs.

EBN - European Business

and Innovation Network

a research network of about 140 certified European business and innovation centres and over 40 organisations supporting the development and growth of innovative entrepreneurs, startups and SMEs.

EEN - Enterprise Europe Network

working in over 60 countries, is the network that provides support to SMEs to innovate and grow internationally.

## NATIONAL :

INFN - National Institute

of Nuclear Physics

public research body supervised by the Ministry of Education, University and Research (MIUR), dedicated to theoretical and experimental research in the fields of subnuclear, nuclear and astroparticle physics.

ASI - Italian Space Agency

public research body supervised by the Ministry of Education, University and Research (MIUR), one of the world's most essential players in the field of space science, satellite technologies and the development of means to reach and explore the cosmos.

APSTII - Association

of Italian

Technological Parks

contributes to the development of the national innovation chain.

IBAN - Italian Business Angels Network

provides venture capital and concrete tools to entrepreneurs and investors.

AITA - Italian Adaptive

Technologies Association

represents manufacturers and users, suppliers of enabling technologies, universities and research centres to promote and develop additive technologies and 3D printing.

ANIE - Automation

with its 100 member companies, represents in Italy the reference point in Italy for companies supplying technologies for factory, process and network automation.

AIFI - Italian Private

Equity, Venture Capital and Private

Debt Association

develops, coordinates and represents, at the institutional level, the entities active in venture capital and private debt.