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TRENTINOSVILUPPO
BUSINESS DEVELOPMENT AND DESTINATION MARKETING AGENCY



Polo Meccatronica

WHERE THE SMART FACTORY GROWS



polomeccatronica.it

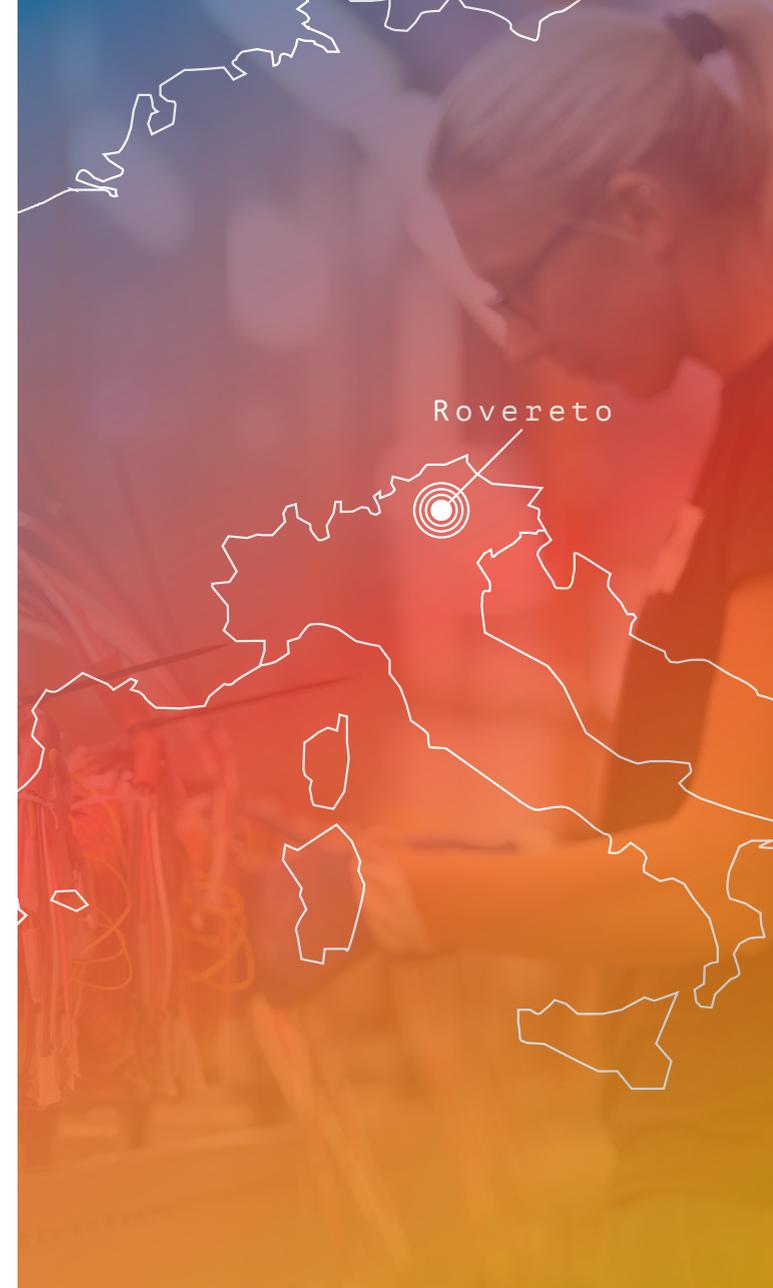


Who we are

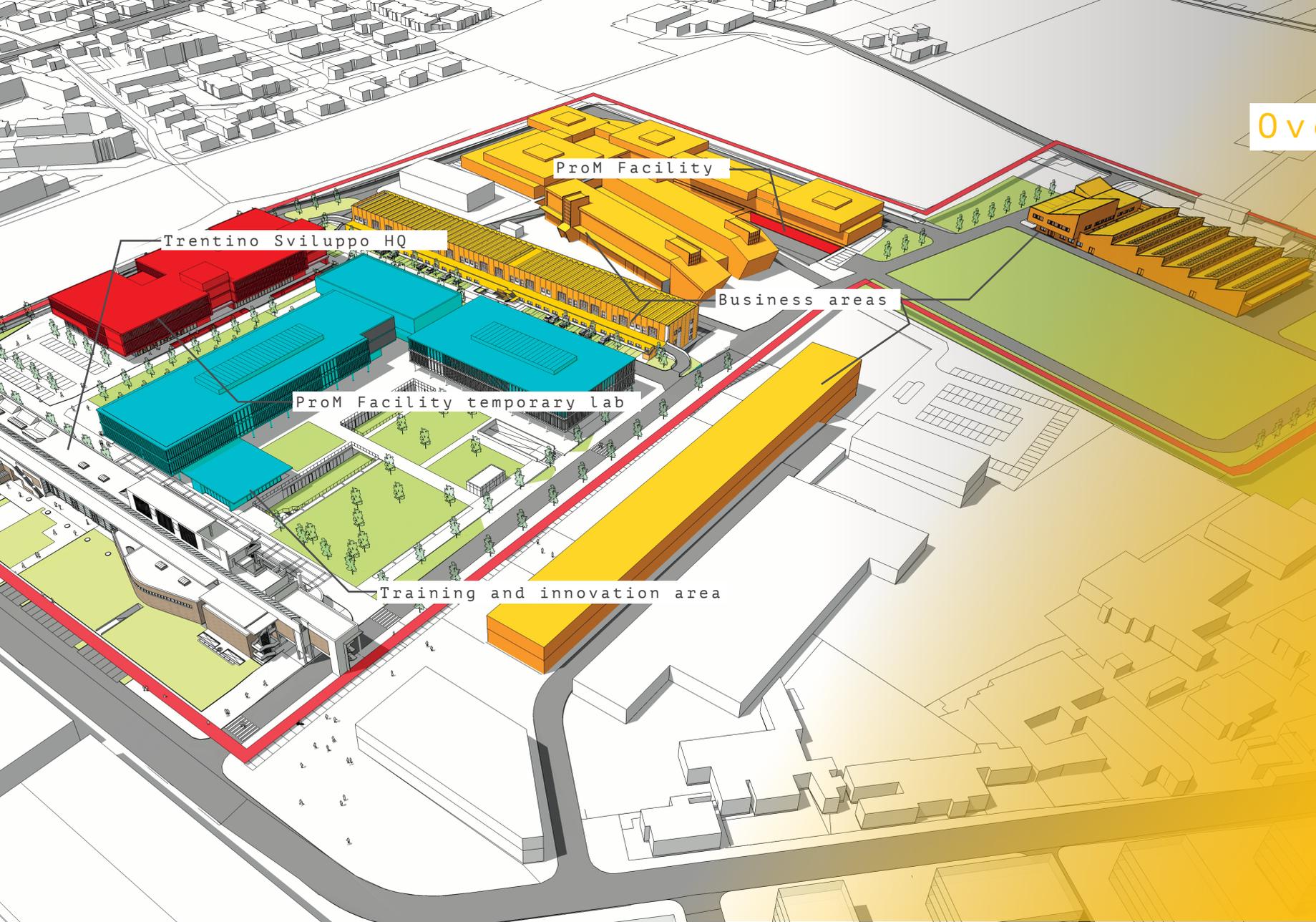
Polo Meccatronica is a technological hub where business, education and research systems can develop innovative products and processes thanks to the interaction between information technology, electronics and mechanics.

It is 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, including both national and European funds.



Overview



Started in 2013, Polo Meccatronica hosts about eighty 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 350 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 Trentino Innovation Hub Foundation (HIT) - 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
- Coworking desk
- Wi-Fi
- Access to meeting rooms and common areas

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

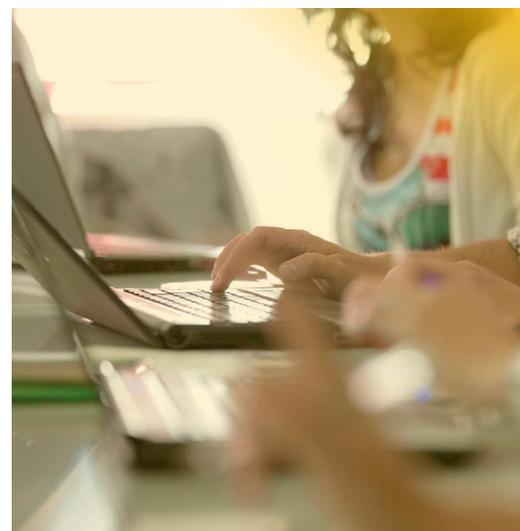
www.trentinostartupvalley.it

Innovation Factory - coworking

Designed for startups and companies aiming to get in touch with Trentino's business world, 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



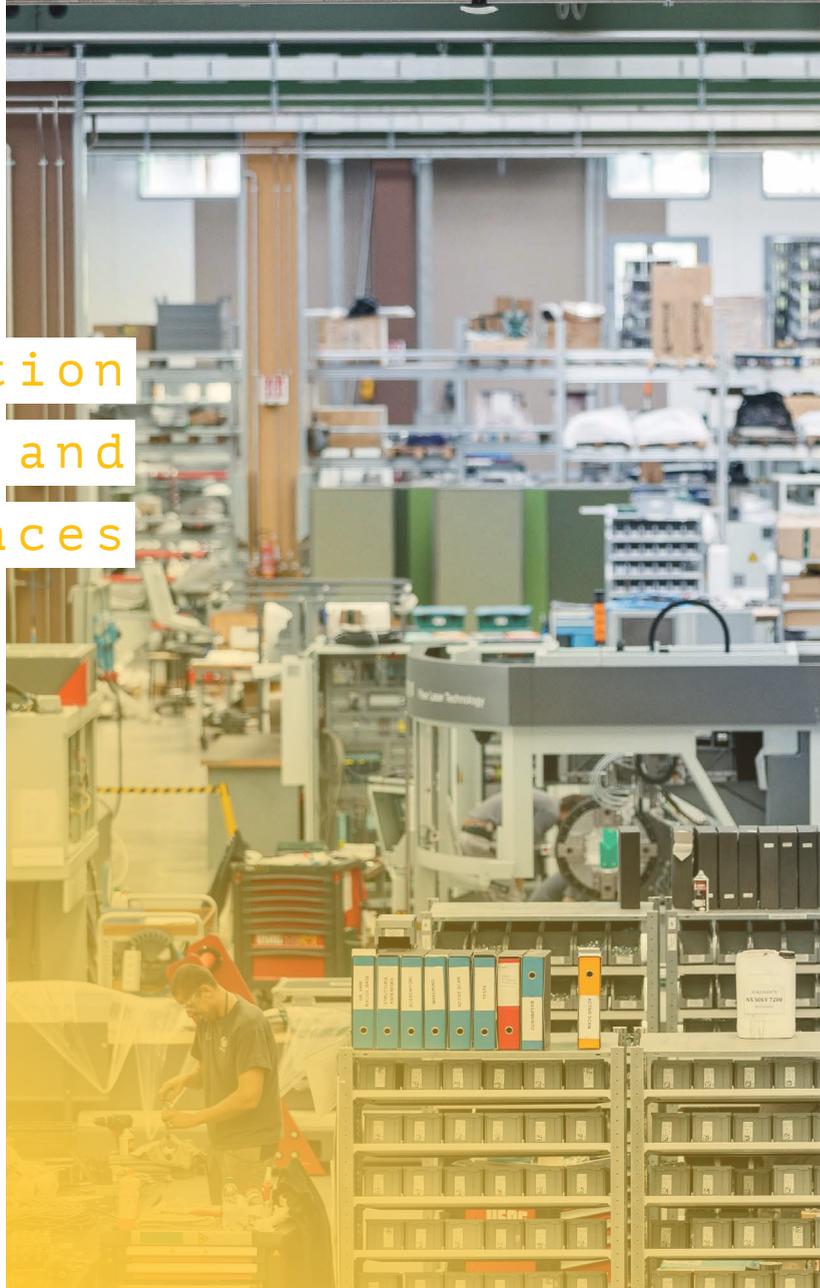
TS-HOST

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

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

Admission: fast track

Production and office spaces



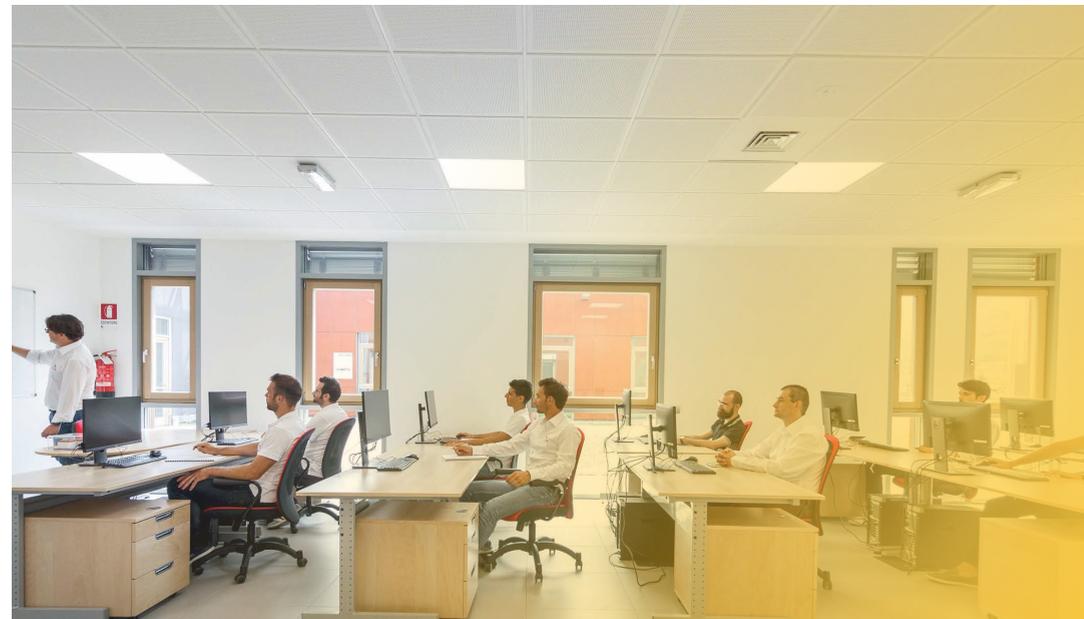
Innovation Factory - standard

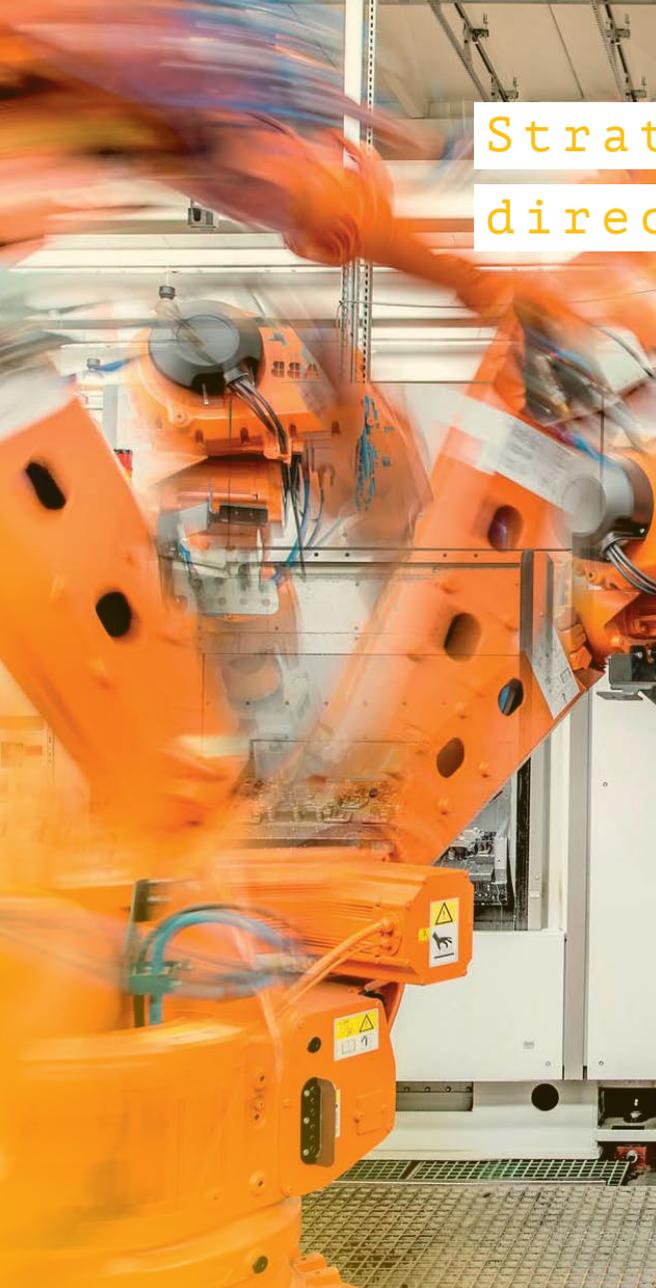
We offer manufacturing and office spaces to the companies establishing in Polo Meccatronica:

- 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





Strategic directions

automation

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

automotive

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

ICT

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

aerospace

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

biomechatronics

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



[Create]^M

ProM Facility

ProM Facility is a centre for mechatronic prototyping and offers established companies and startups a full range of services for prototyping and co-development of mechatronic components and systems, using Industry 4.0 technologies and skills, from additive manufacturing to electronic integration, from parametric and functional testing to pre-qualification.

The facility, also thanks to the support of the European Regional Development Fund (ERDF) provided by the Autonomous Province of Trento for a total of EUR 7 million, has innovative machinery for mechatronic prototyping, including additive and hybrid manufacturing systems, electronic board design and programming, and advanced metrology systems such as X-ray tomography and 3D scanners.

In addition, customised refresher courses and 'hands-on' training are organised within the centre for the company's technical staff in the mechatronics sector.

ProM Facility is an initiative of Trentino Sviluppo with the support of Fondazione Bruno Kessler, University of Trento and enjoys the patronage of Confindustria Trento and of the Autonomous Province of Trento.

[Pro]^M

MECHATRONICS
PROTOTYPING
FACILITY

www.promfacility.eu



Cofinanziato
dall'Unione europea



PROVINCIA AUTONOMA
DI TRENTO



available technologies

PROM FACILITY

additive manufacturing

- Metal and polymer 3D printing
- 3D printing of resins and wood
- Hybrid manufacturing

electronics

- Prototyping of integrated circuit boards
- Characterisation and pre-qualification

co-design

- Topological optimisation
- Generative design
- Design for Additive Manufacturing DfAM

metrology

- Geometrical and dimensional inspection
- Reverse engineering
- Mechanical tests
- Climate chamber
- 3D scanning and X-ray tomography

CNC machining

- 5-axis milling cutter
- Lathe
- Wire EDM
- Laser cutting for piping and sheet metal

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 (MUR), 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 (MUR), 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.

APSTI - 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.