



**REGIONS
& CITIES**

**European Week
Brussels 8-11 October 2018**

Industrial Research Infrastructures



[Pro]^M

MECHATRONICS
PROTOTYPING
FACILITY

Trentino - Italy

Paolo Gregori, Director of ProM Facility

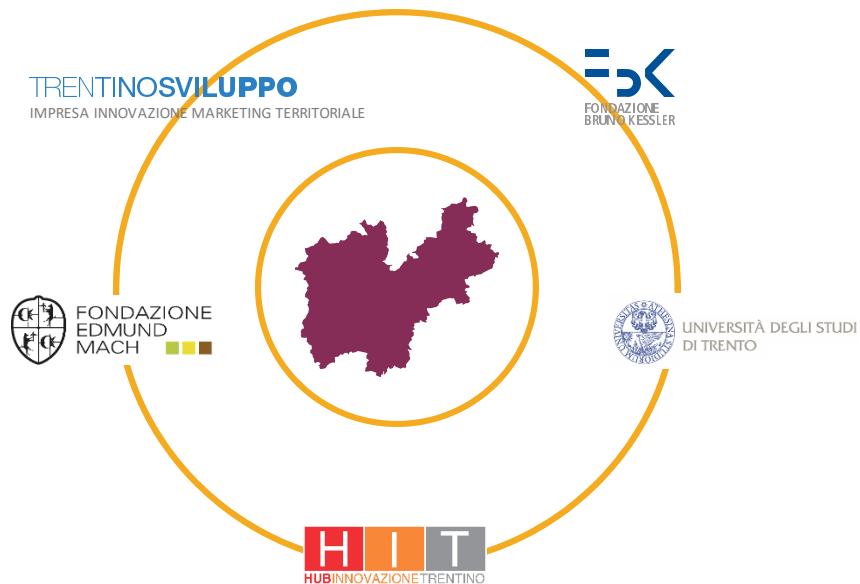
Bruxelles, 10 October 2018



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The Innovation System of Trentino

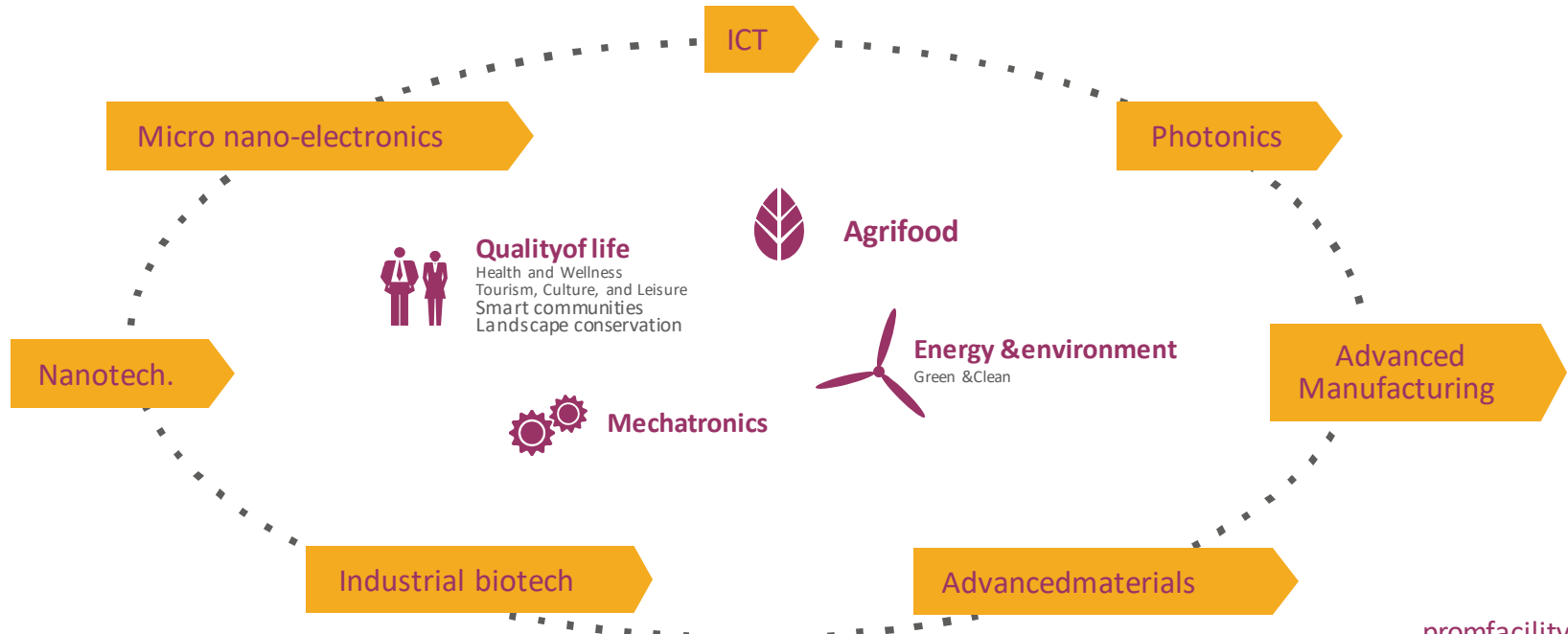




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Smart Specialisation Strategy (S3)



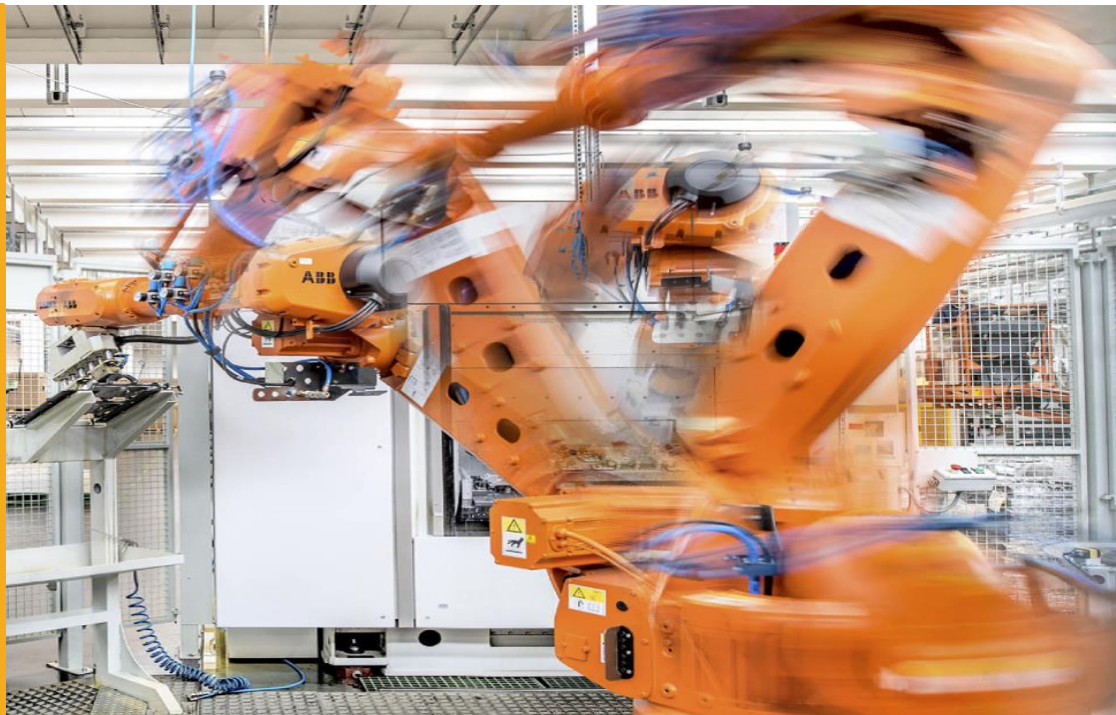


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Polo Meccatronica

A technological infrastructure, where **business**, **innovation** and **education** interact to generate and develop **innovative projects and processes**, transferring skills and staff from the world of education and research to companies.





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ProM Facility

An infrastructure **open to collaborations** and designed to research, produce and experiment innovative and more efficient products, combining traditional mechanics with the most **modern sensors** and sophisticated **virtual prototyping systems** and **electronic control techniques**.



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Activities



PROTOTYPING



SIMULATION



TESTING & QUALIFICATION



TRAINING



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Business services

TECHNOLOGICAL SERVICES

for
start-ups and SMEs

RESEARCH PROJECTS

TRAINING ON THE JOB

for
students and technical staff



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Technologies

■ 3D PRINTING

additive, subtractive,
hybrid manufacturing

■ ICT

simulation, networking,
Internet of Things

■ SYSTEM INTEGRATION

product prototyping

■ ELECTRONICS

- integrated boards prototyping
- characterisation and qualification

■ METROLOGY

- two-dimensional verification
- reverse engineering

■ CYBER SECURITY

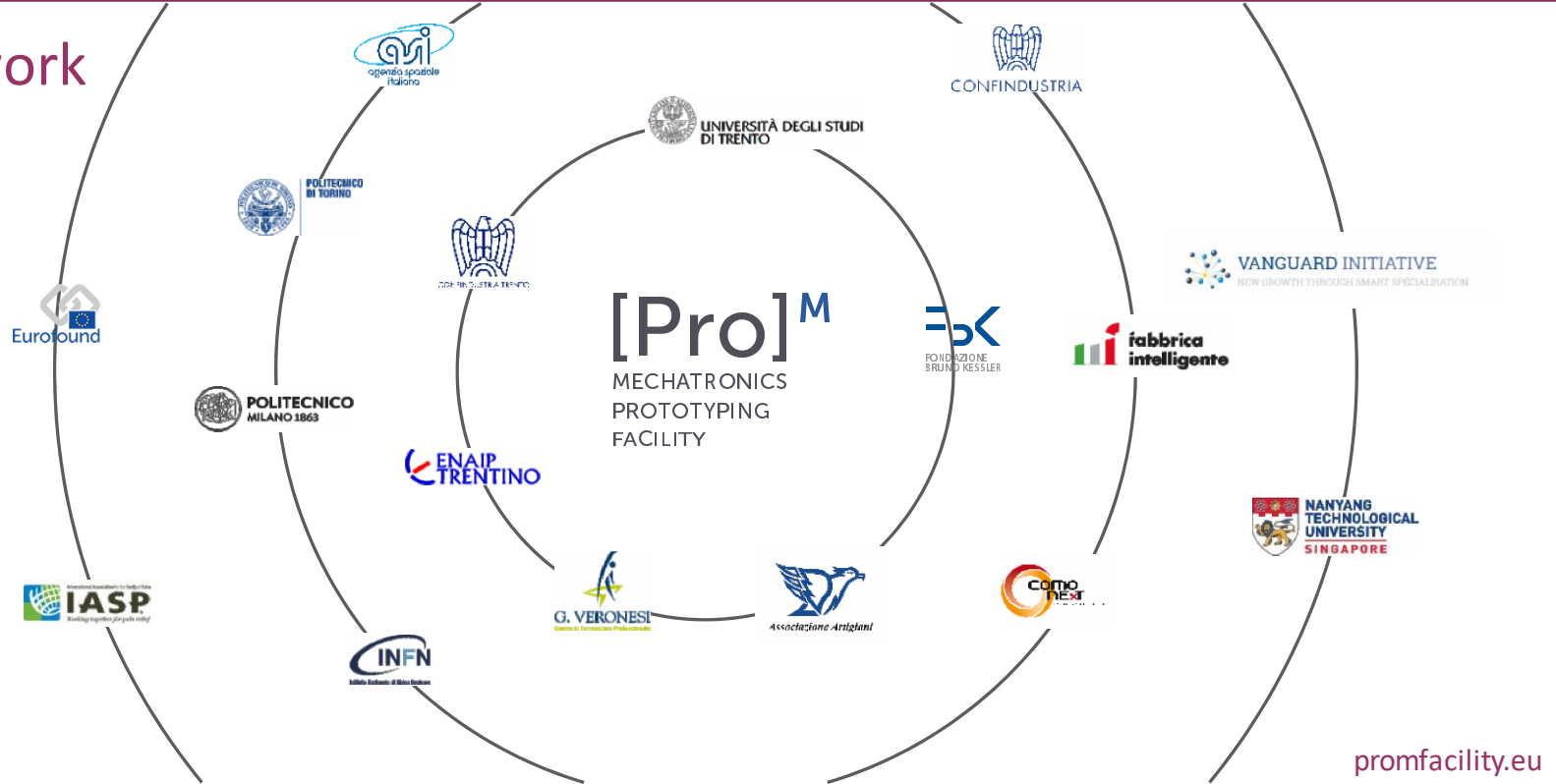
resilience with respect to
cyber attacks



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Network





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“Towards a European approach on industrial research infrastructures” - Workshop report, Brussels, 1 March 2018

- **Industrial infrastructures**, whether **public**, **semi-public**, or **private**, are critical for the development of new products and innovation in Europe
- New and **upgraded industrial infrastructures** are needed in Europe to fulfill industry's rapidly changing needs
- Infrastructures - in the first phase - need appropriate **public investment** and **staffing** to become **open**
- Existing infrastructures need to adapt to industrial needs in terms of **facilities upgrading and related services**



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The experience of ProM Facility - Trentino Region in the context of the Vanguard Initiative

- ProM Facility follows the Vanguard Initiative's model of **interregional collaboration** along industrial value chains, which is based on Smart Specialisation → «Polo Meccatronica» of Trentino (industry-education-research thematic hub)
- ProM Facility is compliant with the VI approach concerning the support offered to SMEs, shrinking the gap between technology and market, through an «**open prototyping facility**» that enables new disruptive technologies, such as **Additive Manufacturing** and **Deep Learning**
- ProM Facility contributes to the development of interregional partnerships under the Smart Specialisation thematic platforms → participation to the **3DP Pilot**
- According with the proposal of Horizon Europe, ProM Facility contributes to deployment and diffusion of innovation, activities close to the market, demand-side activities and **trans-territorial innovation ecosystems**



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Vanguard Initiative Position Paper on the MFF 2021-2027

The Vanguard Initiative welcomes the MFF package as an ambitious renewed agenda for EU industrial and innovation policies and commitment to Smart Specialisation.

Vanguard Regions:

- (1) (...) call for an adequate and dedicated budget devoted to supporting pilot lines and demonstrators and related services. An **EU innovation ecosystem of shared and connected technology and innovation infrastructures** should be developed through activities across the program.
- (2) ask for an effective participation of regional authorities in the activities under the new strand **European innovation Ecosystem**, as Regions are the right place to address innovative ecosystems and to build effective interregional collaboration around value chains
- (3) plead that Horizon Europe provide a **top up for investments in networks of open innovation infrastructures (demonstrators / pilots) emerging from interregional collaboration**, in connection with Smart specialisation thematic platforms, the joint cluster initiative, the new Interreg component and ERDF.



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