



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



REGIONE AUTONOMA
FRIULI VENEZIA GIULIA



INNOVATION GATEWAY
TRIESTE - OSAKA 2025

TRIESTE

OSAKA

EXPO 2025

Business & Technical Mission

Tokyo-Osaka, Japan | 22-26 September 2025





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INNOVATION GATEWAY TRIESTE-OSAKA 2025

The "Innovation Gateway Trieste-Osaka 2025" project is organized under the auspices of the **United Nations Industrial Development Organization (UNIDO) ITPO Italy**, and of the **Friuli Venezia Giulia Autonomous Region**, and aims to foster international networks and global partnerships among young innovators, industries, entrepreneurs, business communities, research centres, technology producers and institutions, in order to create a smarter, greener, more connected, and more inclusive business community for designing the future society devoted to a tangible engagement and equal representation of women and youth.

The project seeks to achieve transformative changes and facilitate the global transfer of technology and entrepreneurial innovation, raise awareness on inclusive and sustainable industrial development (ISID), promote pioneering solutions for economic growth driven by innovation, and foresees a program of activities to link the Friuli Venezia Giulia Autonomous Region innovation and business ecosystem with **Expo 2025 in Osaka, Japan**.

This initiative aims to enhance the visibility of FVG companies – including Trieste, capital city of the Region – industries and/or enterprises on the international stage, in the fields of inclusive sustainable industrial development, food, wood\ furniture and mechanics. It also focuses on promoting the active participation of women and youth in the innovation ecosystem, ensuring their equal representation in leadership roles within the industrial and technology sectors.



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**FVG Region -
Donor of the project**



piazza Unità d'Italia 1
Trieste



www.regione.fvg.it



Lucio Penso

Public Sector Director of
Friuli Venezia Giulia
Autonomous Region

Established in 2014 as a spin-off from the University of Trieste, PICOSATS is a pioneering company specializing in high-frequency Satellite Communication systems. It aims to revolutionize satellite connectivity across various sectors such as telecommunications, earth observation, and scientific research. Key to its success is a robust commitment to research and development, supported by a team of experts with advanced degrees in electronics, and telecommunications. PICOSATS offers advanced transponders, transceivers and custom antennas tailored for small satellites and CubeSats.

Expected outcomes/goals of the mission:

- ▶ Partnerships with academic institutions, research organizations, and technology firms that share our commitment to advancing space technologies and sustainable practices.
- ▶ Collaborate on research and development projects that involve cutting-edge satellite technologies, joint ventures for new market penetration, and the co-development of sustainable space solutions.
- ▶ Collaborations that lead to the development of innovative products, the opening of new market opportunities, and advancements in satellite technology and space sustainability.



Telecommunications systems



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beanTech Srl is an Italian IT consulting company that supports clients along their Digital Transformation journey, offering cutting-edge technological solutions and strategic consulting services to optimize business processes and promote growth.

beanTech supports businesses in four core areas: smart factory, big data & analytics, infrastructures & managed services, and software applications.

In Italy, beanTech is recognized for its consolidated expertise in the manufacturing sector, where it has built a proven track record of successful collaborations with leading industrial players.

Expected outcomes/goals of the mission:

- ▶ Seek forward-thinking manufacturers, machine builders, and industrial tech partners to co-deploy and scale data-driven IoT solutions that raise efficiency and enable new service-centric business models.



Data science consulting



via Ivrea, 5,
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Motion Analytica is an Italian company specialised in advanced mobility intelligence. They leverage large-scale geospatial data to deliver high-resolution analytics on people movements. Their proprietary data fusion pipelines, statistical inference models and AI-driven processing enable strategic planning, service optimisation and policy evaluation across multiple domains.

They combine multi-source geospatial data through proprietary data fusion and modelling pipelines. This enables a unified, high-resolution view of mobility phenomena, transforming fragmented datasets into operational and strategic intelligence.

Expected outcomes/goals of the mission:

- ▶ Seek data partners, technology enablers, and institutional clients to scale and replicate high-value mobility analytics solutions already recognised and adopted across Italy.



Data science



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SISSA – Scuola Internazionale Superiore di Studi Avanzati – was founded in 1978 and is a scientific center of excellence within the national and international academic scene. SISSA's activities focus on three main areas: Physics, Neuroscience and Mathematics. Moreover, the Interdisciplinary Laboratory for Advanced Studies works at the interface between science, humanities and the public.

SISSA Valorisation and Innovation Office promotes integration of knowledge and industry and facilitates technology transfer from the academia to the society developing project proposals aimed at increasing cooperation with PMI and industries promoting students' innovative activity and entrepreneurial approach and improving knowledge valorisation and its impact.

Expected outcomes/goals of the mission:

- Explore possible collaborations and partnerships focused on cutting-edge research and PhD training in the field of computing science and neuroscience, especially for projects related to industrial innovation and start-up creation.



Academic



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The University of Trieste is a secular, pluralistic, public, higher education institution independent of any ideological, religious, political or economic orientation. It adheres to the principles of the Constitution of the Italian Republic and to the international commitments Italy has agreed to in the fields of scientific research and university education.

The University's main objectives are research and higher education with the aim of promoting cultural, civil, social and economic development in the Italian Republic. The University acknowledges that teaching and research are inseparable and that, where applicable, teaching and research are inseparable from healthcare services.

Expected outcomes/goals of the mission:

- ▶ Strengthen collaborations with universities, research centers, and local companies.
- ▶ Explore emerging technologies (Expo/startups).
- ▶ Study Japanese technology transfer models to improve our processes.
- ▶ New strategic partnerships and potential agreements (MoUs, R&D collaborations).
- ▶ Identification of co-development opportunities.
- ▶ Operational proposals based on Japanese best practices.
- ▶ Identification of opportunities for joint research projects.



Academic



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Aiden project

Aiden introduces an innovative AI-driven vibro-stimulator designed for muscle training and wellness. The device combines vibration technology with smart sensors to support targeted muscle stimulation, while continuously adapting its programs to the user's needs through artificial intelligence.

Unlike conventional devices, our solution offers personalized training routines, biofeedback, and progress tracking via a connected app. This ensures a more engaging and effective experience, encouraging regular use and long-term benefits.

With its adaptable design and AI-based personalization, the product is positioned at the intersection of technology, well-being, and innovation. Starting from muscle health applications, it has the potential to expand into multiple areas where smart stimulation and adaptive training can improve people's everyday lives.

Expected outcomes/goals of the mission:

- ▶ Build connections with professionals, startups, and identify potential collaborators.
- ▶ Meet potential investors and present the project to explore funding opportunities.
- ▶ Collect insights from experts and industry leaders to refine the product and business model, and learn about the latest industry trends and innovations.



AI techs



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Romina Doz

Project expert



BrusaDoor project

BrusaDoor is an innovative concept-stage startup that aims to rethink the way we heat our homes by transforming a common architectural element – the door – into a radiant heating solution. Through advanced infrared technology, BrusaDoor develops infrared radiant doors that combine energy efficiency, elegant design, and sustainability.

This approach not only optimizes living spaces, eliminating the bulk of traditional heating systems, but also reduces energy consumption and creates healthier indoor environments by avoiding air circulation, dust, and humidity. BrusaDoor explores how design and technology can merge to improve everyday comfort while supporting more sustainable housing.



Sustainable energy



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Expected outcomes/goals of the mission:

- ▶ Technical partners to support the development and testing of the prototype.
- ▶ Insights and feedback from experts in cleantech, smart home solutions and sustainable design.
- ▶ Mentorship to validate the concept and explore future market applications.
- ▶ Opportunities to connect with companies in the housing and construction sectors interested in innovative heating solutions.



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Valentina Coggiola

Project expert

University of Udine - UniUd

Polytechnic Department of Engineering and Architecture (DPIA)

The Polytechnic Department of Engineering and Architecture (DPIA) of the University of Udine is a department focused on education, research and the third mission/social impact in the fields of Civil Engineering and Architecture, Industrial Engineering and Information Engineering.

Since its foundation in 2015, the Department has aimed to be a structure capable of responding to the expectations of technological innovation expressed by society and the local area.

Expected outcomes/goals of the mission:

- ▶ Student exchange.
- ▶ Scientific collaborations.
- ▶ Opportunities in Horizon Europe projects if Japan becomes an associated partner of this funding body within the next few years.



Academic



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