

PROJECT ACRONYM AND TITLE:

Ecosistema INEST-Interconnected Nord-Est Innovation

FUNDING PROGRAMME:

PNRR M4C2 Inv.1.5 ECS - Ecosistemi Innovazione

HOST DEPARTMENT or CENTER: CESA

SCIENTIFIC RESPONSIBLE: Prof. Fabrizio Panozzo

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 109.865.999,00	€ 7.161.909,61

ABSTRACT:

The **iNEST** ecosystem's main focus is the "**Digital, Industry, Aerospace**" of the Piano Nazionale della Ricerca (PNR).

The overall goal is to rapidly enhance and extend the benefits of digital technologies to the key areas of specialization in the territory of the Northeast (Friuli-Venezia Giulia, Veneto and the two Autonomous Provinces of Trento and Bolzano): the industrial-manufacturing sectors, agriculture, the sea, mountains, construction, tourism, culture, culture, health and health and food.

The interconnection of local ecosystems at the macro-region level will make it possible to work on a common "digital vision" for the benefit of the economy and citizens, with local strategies of smart specialization to be united in a shared mission for the Northeast.

The research and innovation activities of iNEST are focused on 9 themes, each one associated with one of the 9 Spokes.

OBJECTIVES and EXPECTED RESULTS:

The following table summarises the main objectives of the iNEST project, according to each of the 9 themes identified.

THEMES	OBJECTIVES
Spoke 1 - Ecosystems for mountain innovation	Encourage the development of new products, processes and lifestyles capable of consolidating or supporting local traditions that guarantee the survival and demographic vitality of the mountain contexts from any standpoints (economic, environmental and social).
Spoke 2 - Health, Food and Lifestyle	Boost technological and social innovation to promote human health and wellbeing and to support the digital and green transition of the Triveneto health systems.



<p>Spoke 3 - Green and digital transition for advanced manufacturing technology</p>	<p>Promote the interaction between universities and the territory in sectors such as energy, smart manufacturing, robotics and mechatronics, materials, AI and data science, which are considered of strategic importance to successfully implement a green and digital transition.</p>
<p>Spoke 4 - City, Architecture, Sustainable design</p>	<p>Identify and experiment, through an integrated approach, solutions, even revolutionary ones, for a rapid and profound improvement of the functional, performance and environmental transformation activities of existing real estate infrastructures.</p>
<p>Spoke 5 - Smart and sustainable environments (manufacturing, working, living)</p>	<p>Development of innovative, smart, sustainable, digitally-driven working and living environments within a human-centric design framework.</p>
<p>Spoke 6 - Tourism, culture and creative industries</p>	<p>Create a tourism ecosystem in which culture operates as a key driver of strategic innovation by operating at the convergence of management, economics, science, arts, and humanities.</p>
<p>Spoke 7 - Smart agri-food</p>	<p>Develop research and technology transfer activities in the area of smart agri-food.</p>
<p>Spoke 8 - Maritime, marine and inland water technologies: towards the Digital Twin of the Upper Adriatic</p>	<p>Develop research and technology transfer activities in the area of maritime, marine and inland water technologies.</p>
<p>Spoke 9 - Models, Methods, Computing Technologies for Digital Twin</p>	<p>Develop a Digital Twin in order to achieve the closest similarity to the asset, mimicking its functioning.</p>

PARTNERSHIP:

The following table shows the role of Ca' Foscari University in the spoke in which it is involved.

Spoke 6 (Prof. Fabrizio Panozzo)	SPOKE Coordinator
Spoke 1 (Leader: UNIBZ)	Affiliated
Spoke 3 (Leader: UNIUD)	Affiliated
Spoke 7 (Leader: UNIVR)	Affiliated
Spoke 8 (Leader: UNITS)	Affiliated