

Research is the beating heart of the NODES Ecosystem. More than 540 researchers and professionals work every day to tackle the wide-ranging challenges of innovation.

Themes

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|---|--|
|  Sustainable mobility |  New space economy |
|  Circular economy |  Water treatment |
|  Green chemistry |  Renewable energy |
|  Heritage conservation |  Digital narratives |
|  Digital tourism |  Lifestyle tourism |
|  Mountain regeneration |  Mountain resources management |
|  Mountain and smart working | |
|  Eco healthcare |  Digital care innovation |
|  Sustainable agroindustry |  Digital agriculture |
|  Smart food |  Healthy food |
|  Green food | |

NODES AND RESEARCH

NODES aims to support the development of scientific and industrial research supply chains in the 7 Spoke areas:

- Spoke 1 - Aerospace and sustainable mobility
- Spoke 2 - Green technologies and sustainable industries
- Spoke 3 - Culture and tourism industry
- Spoke 4 - Digital innovation toward sustainable mountain
- Spoke 5 - Industry for health and Silver Economy
- Spoke 6 - Primary agroindustry
- Spoke 7 - Secondary agroindustry

THE DIGITAL AND SUSTAINABLE INNOVATION ECOSYSTEM

NODES – Nord Ovest Digitale E Sostenibile – is one of the 11 innovation ecosystems identified and funded by the Ministry of University and Research (MUR) under the PNRR – NextGenerationEU (D.D. no. 1054 of June 23, 2022).

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NODES - Nord Ovest Digitale E Sostenibile

FLAGSHIP PROJECTS

The future of digital and sustainable Research



Flagship Projects

Explore the flagship projects and themes of the NODES Ecosystem.

CIRIL



CULTURAL-INDUSTRY REGENERATION IMMERSIVE LAB

The project aims to develop an open infrastructure for immersive virtual reality systems to support research, education and business development services.

ELECTRO



Electric Vehicles: Charging and Technologies.

The project is dedicated to developing specific actions in the field of electric vehicle charging, from laboratories where evaluating and testing different EV-related technologies to materials and business models connected to electric mobility.

FORMIDABILÆ



Forage system to make resilient Maize, Dairy and Biogas supply chains for a Lasting Agricultural Ecosystem

The project aims to improve the sustainability and circularity of the agri-livestock system through a forage system that strengthens the resilience of the corn, milk and biogas supply chains.

GRIP



GRen Processes for Industrial Productions and cost-effective effluents valorisation

The project aims to implement and apply the principles of the circular economy to upstream and downstream processes in order to achieve sustainable industrial production systems.

H2MOBILITY



Green hydrogen for new mobility

The project focuses on technologies and systems for the production, storage and distribution of green hydrogen.

INNDIANA



INNovative Diagnostic and therApeutics for regeNerAtive medicine

The project focuses on the development of innovative diagnostic and therapeutic approaches for regenerative medicine.

INTERFACE



Participatory and digital ecological transition for mountain communities.

The project aims to provide a plan of research and action for the regeneration and repopulation of mountain areas through models ecologically sensitive and capable of adapting to changing environmental conditions.

SADAIFO-ANIMAL



Sustainable And DigitAl Innovation for FOods of ANIMAL origin

The project adopts an innovative approach to enhance the competitiveness of the animal-based food supply chain.

SADAIFO-PLANT



Sustainable And DigitAl Innovation for FOods of PLANT origin

The project adopts an innovative approach to enhance the competitiveness of the plant-based food supply chain.

SMART WEST



New Digital Compliance Procedures and Organizational Models for the North-West Italian Territories

The project addresses innovative smart working, new digital compliance procedures and new digital organizational models for the territories of north-west Italy.

SPACE4YOU



Development of Technologies and Solutions for Space Exploration

The project will establish a distributed laboratory to support the development of technologies and solutions for space exploration, as well as services related to space systems and infrastructures.

SUMMER



Sustainable Management of Energy and Water Resources in Mountain Areas

The project develops digital technologies, combined with the power of big data and AI-based analytics, to drive unprecedented innovation in how energy and water companies manage these vital resources.

TINCARE



Technology Integration in healthCARE

The project focuses on personalized, precision and predictive medicine, biomaterials, biotechnologies and technologies for early diagnosis, specifically for mountain medicine.

TOEP



Tourism Open-ended Experimentation Platform

The project aims to synergistically assemble, through crowdsourcing, proposals for integrated and sustainable tourism that showcase local excellence.

VINO



Vineyard management for viNeprOduction

The project aims to deal with the challenges of climate change through remote sensing systems, big data expertise and precision agriculture techniques.