



Scan the QR Code and learn more!

Spoke 5 - Industry for health and silver economy

Discover the 30 projects of Spoke 5 funded by the NODES cascade calls.

Spoke 5 focuses on the Health industry and the silver economy, drawing inspiration from the ecological transition model and digital transition processes.



VI.E.M.A.
Line B Call

Design a radiofrequency system to activate nanoparticles and induce apoptosis in head and neck tumors.



VI.S.Y.O.
Line B Call

Develop a software platform to coordinate medical devices in the treatment of head and neck tumors.



YOGA
Line A Call

Create personalized therapies for osteoarthritis by combining in vitro diagnostics and artificial intelligence.

Themes



Eco healthcare



Digital care innovation



THE IMPACT ON OUR COUNTRY FROM THE NORTH-WEST TO THE SOUTH

NODES brings together the regions of **Piedmont, Valle d'Aosta** and the westernmost provinces of Lombardy: **Como, Varese and Pavia**. The available PNRR funds amount to over **112 million euros** and will be used to support sustainable and inclusive growth for Italy's **digital and ecological transition**, with positive impacts on the territory. The regions of **Southern Italy** (Abruzzo, Molise, Campania, Puglia, Basilicata, Calabria, Sicily and Sardinia) will also benefit from these funds: **15 million euros** will in fact be dedicated to research activities and cascade funding for businesses in the South.

THE ECOSYSTEM OF DIGITAL AND SUSTAINABLE INNOVATION

NODES - Nord Ovest Digitale E Sostenibile - is **one of the 11 innovation ecosystems** identified by the Ministry of University and Research (MUR) within the framework of the NRRP (Decree No. 1054 of June 23, 2022).

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Spoke 5 coordinated by

Partners



Discover more on ecs-nodes.eu



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INNOVATION Industrial PoCs



Spoke 5

Industry for health and silver economy

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Industrial PoCs

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Alise02

Line A Call

Develop an innovative CPAP device for non-invasive closed-circuit respiratory support.



AOR-ESG

Line B Call

Enhance corporate sustainability, improve ESG impacts, become a Benefit Corporation or B-Corp and ensure gender equality.



AOR-FTO

Line B Call

Initiate a Freedom-To-Operate (FTO) analysis to verify whether the device can be marketed in the specific target markets.



AOR-MA

Line B Call

Improve patient safety by providing advanced and accessible clinical solutions.



CaReMAM

Line A Call

Develop digital solutions for remote rehabilitation and post-operative care in breast cancer.



DA_DES

Line A Call

Promote the digital and sustainable transition of imaging diagnostics with dedicated probes.



DCAre

Line A Call

Create a digital platform for the care and support of eating disorders.



DPLaBs

Line A Call

Enhance anatomical pathology with innovative technologies based on AI and advanced digital diagnostics.



ELEVATOR

Line A Call

Develop accessible exergames to support cognitive-motor rehabilitation in active aging.



HEMOGATE

Line A Call

Develop an IoT device for the early diagnosis of anemia and nutritional deficiencies.



Pocus-AI

Line A Call

Develop a digital solution for the early diagnosis of ovarian cancer through ultrasound and AI.



PREDIBIO

Line A Call

Identify new biomarkers for the early diagnosis of Bipolar Disorder.



IAMSH

Line A - Mezzogiorno

Use AI and virtual reality to rehabilitate executive functions in children and adults with neurodevelopmental disorders.



INDICATIONS

Line B Call

Characterize in vitro the fluid dynamics in the left ventricle following implantation of a minimally invasive mitral valve prosthesis.



REMEDIO

Line A Call

Develop nanomedical inhalation therapies to treat idiopathic pulmonary fibrosis and interstitial lung disease associated with systemic sclerosis.



ROBO-HOSPITAL

Line A - Mezzogiorno

Develop an integrated robotic system to handle test tubes and biological samples in a healthcare setting.



INTERFONO

Line B Call

Develop a voice system to facilitate communication between patients and healthcare staff in medical facilities.



MASTRO

Line A - Mezzogiorno

Develop personalized hip prostheses in TiAm through additive manufacturing and adaptation algorithms.



TEPSIM

Line A Call

Optimize the transarterial embolization (TAE) procedure for the treatment of liver cancer.



TOT-AL

Line A Call

Develop a digital platform to manage the patient care pathway from hospital admission to discharge.



MEDASSIST

Line A Call

Develop an HMD device for healthcare teleassistance and remote medical consultations.



MoPaVIoT

Line A Call

Develop an innovative wearable device for remote monitoring of key vital signs.



TRINITÀ

Line A - Mezzogiorno

Develop new therapeutic and diagnostic agents for the treatment of oncological diseases with high unmet medical needs.



UCM-IP

Line A Call

Develop an AI platform to prevent sepsis and manage infections in intensive care in a personalized manner.



MuScMeC-BP

Line B Call

Analyze the mechanical properties of biological materials to optimize the production of valve leaflets used in the manufacturing of the mitral valve prosthesis.



NUTRI.AGE

Line A Call

Develop nutraceutical and digital solutions for the health and well-being of the elderly in the silver economy.



UCM-RP

Line B Call

Develop and certify an AI platform for the predictive management of renal complications in intensive care.

