

INTERCONNECTED NORD-EST INNOVATION ECOSYSTEM



**PNRR i NEST Spoke 1
Kick-off meeting**

16 marzo 2023

Aula Magna
della Libera Università di Bolzano
Piazza Università 1 – Bolzano





i NEST

Interconnected Nord-Est Innovation Ecosystem

An overview

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INTERCONNECTED NORD-EST INNOVATION ECOSYSTEM

Ecosistema dell'Innovazione



24.11.2021

Presentazione
dei bandi del MUR
per le iniziative
di sistema della
Componente 2
Missione 4 del PNRR:
dalla ricerca
all'impresa

EVENTO ONLINE

i NEST

Avviso MUR, 30/12/2021

MUR_A0001_MUR_B010780_0000277_10-12-2021



Avviso pubblico per la presentazione di Proposte di intervento per la creazione e il rafforzamento di "ecosistemi dell'innovazione", costruzione di "leader territoriali di R&S" – Ecosistemi dell'Innovazione – nell'ambito del Piano Nazionale di Ripresa e Resilienza, Missione 4 Istruzione e ricerca – Componente 2 Dalla ricerca all'impresa – Investimento 1.5, finanziato dall'Unione europea – NextGenerationEU

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Ecosistema dell'Innovazione





Avviso pubblico per la presentazione di Proposte di intervento per la creazione e il rafforzamento di "ecosistemi dell'innovazione", costruzione di "leader territoriali di R&S" – Ecosistemi dell'Innovazione – nell'ambito del Piano Nazionale di Ripresa e Resilienza, Misione 4 – Investimenti, Azione 1.5 – Investimento 1.5, finanziato dall'Unione europea – NextGenerationEU.

- **Rete** di università, EPR, enti pubblici territoriali, altri **sogetti pubblici e privati** altamente qualificati e internazionalmente riconosciuti
- Organizzati in forma consortile
- **Interazione continua** per stimolare la creazione e la promozione dell'innovazione e della sostenibilità per un'area/un **territorio di riferimento**
- **Istruzione** superiore
- **Ricerca applicata**
- Innovazione sulle specifiche **aree di specializzazione del territorio.**

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Ecosistema dell'Innovazione e PNRR



- Dicembre 2021 – PNRR
- Avviso pubblico per la presentazione di Proposte di intervento per la creazione e il rafforzamento di «**ecosistemi dell'innovazione**»
- Piano Nazionale di Ripresa e Resilienza, **Missione 4** Istruzione e ricerca – **Componente 2** Dalla ricerca all'impresa – **Investimento 1.5**, finanziato dall'Unione europea – NextGenerationEU
- Maggio 2022 – Selezionati **11 Ecosistemi a livello nazionale**, tra cui **iNEST** (Interconnected Nord-Est Innovation Ecosystem)
- Giugno 2022 – Costituito il **Consorzio iNEST**
- Settembre 2022 – Inizio delle attività
- Conclusione prevista: dicembre 2025

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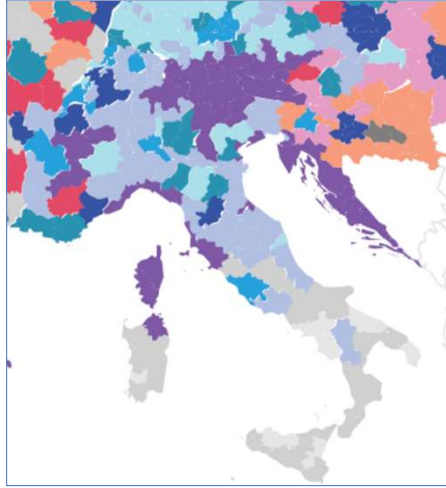
iNEST e gli elementi caratterizzanti del NordEst









Regional clusters

Dynamic growth hubs	Megacities	
	Superstar hubs	
Stable economies	Service-based economies	
	High-tech manufacturing centers	●
	Diversified metros	●
	Diversified non-metros	●
Shrinking regions	Tourism havens	●
	Industrial bases	
	Aging population regions	
	Educated and emigrating areas	
	Agriculture-based regions	
	Public sector-led regions	
Trailing opportunity regions		



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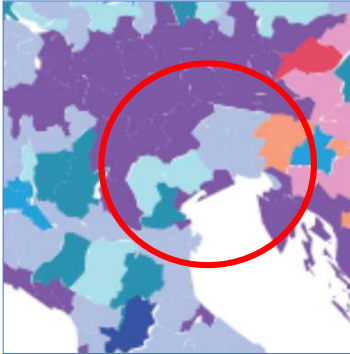
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Regional clusters

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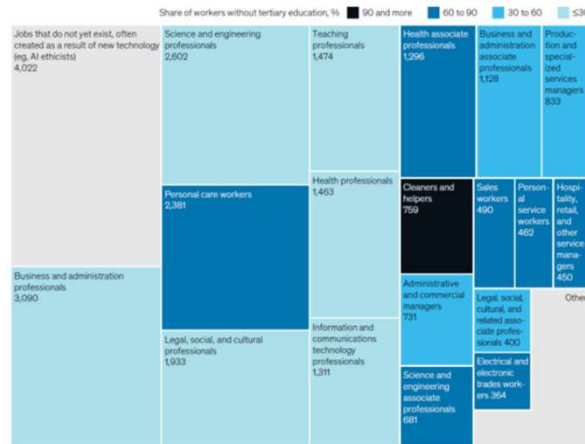
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Many of the jobs that employers might need to fill by 2030 require a higher level of skills.
Total gross job growth by 2030, growing ISCO2 occupation groups only, thousand¹



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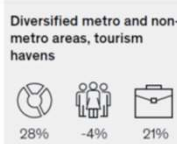
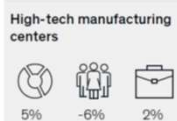
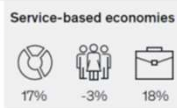


Local labor markets in Europe face a range of different challenges and priorities.

Share of population, 2018 | Predicted change in working-age population, 2018-30 | Share of potential employment growth, 2018-30

Regional clusters	
Dynamic growth hubs	Megacities
	Superstar hubs
Stable economies	Service-based economies
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	Diversified non-metros
Shrinking regions	Tourism havens
	Industrial bases
	Aging population regions
	Educated and emigrating areas
	Agriculture-based regions
	Public sector-led regions
Trailing opportunity regions	

Stable economies



- Create sector-specific economic development strategies to attract investment in high-growth industries
- Invest in STEM and healthcare education, attract STEM professionals to meet growing demand
- Diversify industry mix with more service-based sectors
- Retrain employees in highly automatable jobs to meet demand for future skills
- Increase educational attainment and STEM skills to continue developing and integrating innovative technologies
- Improve connectivity through public and digital infrastructure
- Create sector-specific economic development strategies to attract investment and seed higher-value-added sectors
- Promote entrepreneurship and innovation
- Improve quality of jobs in low-wage regions

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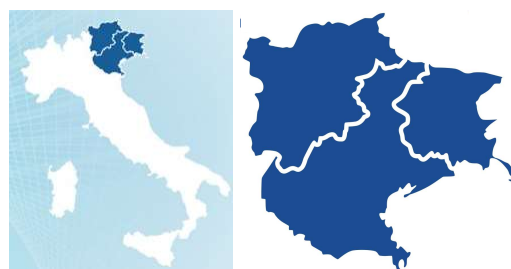
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- Forte **connotazione territoriale**, forza motrice per ogni forma di collaborazione
- **Background comune** in termini storici, sociali, culturali
- Area cruciale per l'economia italiana: 12% della popolazione, **14% del PIL, 20% dell'export italiano**
- **Varietà di vocazioni**, dall'ambito industriale a quello del turismo e dei beni culturali
- Presenza di molteplici intersezioni, come testimoniato dalle **Smart Specialization Strategies**



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iNEST e le Strategie di Specializzazione intelligente

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	Smart Industries	Smart Agri-food and Nutrition	Health Tech and Services	Smart and Sustainable Living	Creative Industries	Tourism	Technologies and Services for Natural Ecosystem
BOLZANO	Automation & Digital	Food & Life Science	Food & Life Science	Green Infrastructure	<i>Transversal domain, included in Autom. & Digital and Alpine Tech</i>	<i>Transversal domain, included in Autom. & Digital and Alpine Tech</i>	Alpine Technologies
FRIULI VENEZIA GIULIA	Intelligent Factory and Sustainable Dev. of Made in Italy Supply Chains	Health Quality of Life, Agri-food and Bioeconomy	Health Quality of Life, Agri-food and Bioeconomy	Energy Transition, Circular Economy and Env. Sustainab.	Cultural Heritage, Design, Creativity, Industry, Tourism	Cultural Heritage, Design, Creativity, Industry, Tourism	Maritime Technology Sust. Waterborn Mobility and its Land Connection
TRENTO	Smart Industries	Health, Food and Lifestyle	Health, Food and Lifestyle	Sustainability, Mountain, Energy Resources	<i>Currently included in ICT & Digital Transformation</i>	<i>Currently included in ICT & Digital Transformation</i>	Sustainability, Mountain, Energy Resources
VENETO	Smart Manufacturing	Smart Agrifood	Smart Health	Sustainable Living	Culture and Creativity	Smart Destination	<i>Currently included in Sustainable Living and Smart Agrifood</i>

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- Per il NordEst serve **nuovo paradigma di Ecosistema** dell'Innovazione,
- **Multi-vocazionalità**
- Capacità di generare valore aggiunto tramite un **approccio integrato e interconnesso**, superando i rischi di frammentazione
- Creazione di reti, con un **approccio basato sulla partnership**
- Strumenti-chiave:
 - **Information and communication technologies (ICT) e digitalizzazione**
 - **Tecnologie innovative per il benessere delle persone, la diffusione della cultura e la crescita economica e imprenditoriale**

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iNEST è l'intecconnessione di più ecosistemi, ognuno dei quali associato ad uno Spoke, che agiscono in **simbiosi e sinergia**

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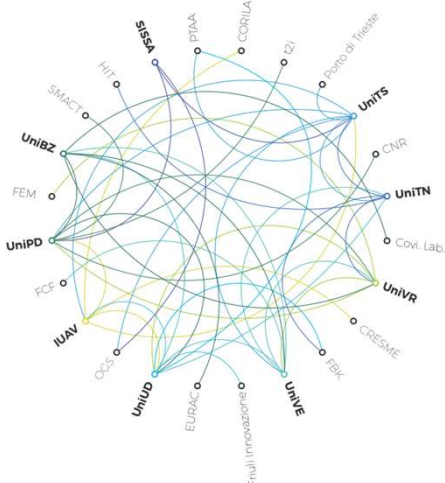
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iNEST e gli elementi caratterizzanti del NordEst



iNEST è l'interconnessione di più ecosistemi, ognuno dei quali associato ad uno Spoke, che agiscono in **simbiosi e sinergia**



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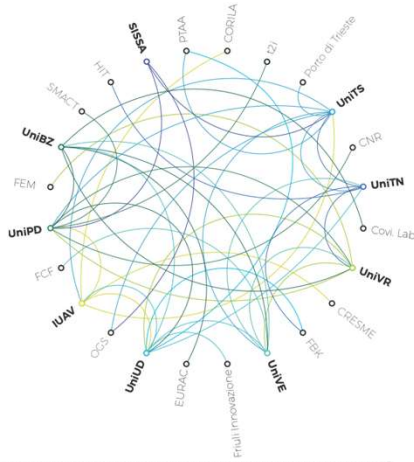
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iNEST: 11 Soci fondatori



Università degli Studi di Padova (University of Padua)	UNIPD
Università degli Studi di Verona (University of Verona)	UNIVR
Università Ca' Foscari Venezia (Ca' Foscari University of Venice)	UNIVE
Università IUAV di Venezia (IUAV University of Venice)	IUAV
Università degli Studi di Trento (University of Trento)	UNITN
Libera Università di Bolzano (Free University of Bozen-Bolzano)	UNIBZ
Università degli Studi di Udine (University of Udine)	UNIUD
Università degli Studi di Trieste (University of Trieste)	UNITS
Scuola Internazionale Superiore di Studi Avanzati	SISSA
Consiglio Nazionale delle Ricerche	CNR
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale	OGS



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iNEST: 13 Affiliati

Autorità di Sistema Portuale Adriatico Orientale
(Port Network Authority of Eastern Adriatic Sea)
CORILA – Consorzio per il coordinamento delle
ricerche inerenti al sistema lagunare di Venezia
Covision Lab
CRESME Ricerche
EURAC Research
Fondazione Bruno Kessler
Fondazione Ca' Foscari
Fondazione Edmund Mach
Fondazione Hub Innovazione Trentino
Friuli Innovazione
Polo Tecnologico Alto Adriatico Andrea Galvani
SMACT
T2i-trasferimento tecnologico e innovazione

i NEST

PNAEAS
CORILA
COVISION Lab
CRESME
EURAC
FBK
FCF
FEM
HIT
Friuli Innovazione
PTAA
SMACT
T2i

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INTERCONNECTED NORD-EST INNOVATION ECOSYSTEM

iNEST: 9 Spokes, with 36 specific Research Topics

- 1 ECOSYSTEMS FOR MOUNTAIN INNOVATIONS → **UNIBZ**
- 2 HEALTH, FOOD AND LIFESTYLES → **UNITN**
- 3 GREEN AND DIGITAL TRANSITION FOR ADVANCED MANUFACTURING TECHNOLOGY → **UNIUD**
- 4 CITY, ARCHITECTURE AND SUSTAINABLE DESIGN → **IUAV**
- 5 SMART AND SUSTAINABLE ENVIRONMENTS (MANUFACTURING, WORKING, LIVING) → **UNIPD**
- 6 TOURISM, CULTURE AND CREATIVE INDUSTRIES → **UNIVE**
- 7 SMART AGRI-FOOD → **UNIVR**
- 8 MARITIME, MARINE, AND INLAND WATER TECHNOLOGIES: TOWARDS THE DIGITAL TWIN OF THE UPPER ADRIATIC → **UNITS**
- 9 MODELS, METHODS, COMPUTING TECHNOLOGIES FOR DIGITAL TWIN → **SISSA**

i NEST

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Spoke 1: ECOSYSTEMS FOR MOUNTAIN INNOVATIONS

- **UNIBZ:** Faculty of Science and Technology, Faculty of Computer Science, Faculty of Design and Art, Faculty of Education, Faculty of Economics;
- **EURAC:** Institute for Alpine Environment, Institute for Renewable Energy, Institute for Earth Observation and Institute of Emergency Mountain Medicine.
- **UNIPD:** TESAF/DAFNAE/GEOSCIENZE;
- **UNIVR:** Departments of Biotechnology, Business Administration, Economics, Foreign Languages and Literatures, Human Sciences, Neuroscience, Biomedicine and Movement; UNIUD: Dept. of Languages, Literature, Communication, Education and Society (DILL), Polytechnic Department of Engineering and Architecture (DPIA), Departments of Agricultural, Food, Environmental and Animal science (DI4A), Department of Legal Sciences (DISG)
- **UNIVE:** Dept. of Environmental Sciences, Informatics and Statistics; COVISION Lab

RT1
Safety and quality
of life in mountain
Environments

RT2
Resilience of
Mountain production
systems and supply chains

RT3
Decentralization
of mountain
structures and
infrastructures

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Spoke 2: HEALTH, FOOD AND LIFESTYLES

- **UNITN:** Departments of Information Engineering and Computer Science (DISI); Cellular, Computational and Integrative Biology (DiCIBIO); Industrial Engineering (DII); Centre BioTech; Centre Agriculture, Food, Environment (C3A);
- **FBK:** Center for Digital Health & Wellbeing Center;
- **UNIVR:** Departments of Business Administration, Surgical Sciences, Dentistry, Paediatrics, and Gynaecology, Neuroscience, Biomedicine and Movement sciences, Diagnostics and Public Health;
- **UNITS:** Departments of Life Sciences, Environmental Sciences;
- **HIT:** Fondazione Hub Innovazione Trentino.

RT1
Digital Health and
Systems for the citizens

RT2
Biotechnologies and
Pharmaceutical
Technologies

RT3
Devices for Health

RT4
Food and Health

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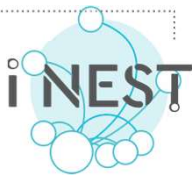
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Spoke 3: GREEN AND DIGITAL TRANSITION FOR ADVANCED MANUFACTURING TECHNOLOGY

- **UNIUD:** Departments of Mathematics, Informatics and Physics; Engineering and Architecture; Humanities and Cultural Heritage; Economics and Statistics; Legal Sciences
- **Friuli Innovazione;**
- **UNIBZ:** Faculties of Science and Technology; Computer Science; Design and Art;
- **UNITN:** Departments of Industrial Engineering; Information Engineering and Computer Science; Physics; Civil, Environmental and Mechanical Engineering;
- **UNIVE:** Departments of Environmental Sciences, Informatics and Statistics; Molecular Sciences and Nanosystems; Economics;
- **Polo AA:** Business Units Open Innovation System; Commercial Services Industry 4.0; Start-up and Sustainability; Regional Cluster for Life Sciences; International and EU Cooperation;
- **FBK:** Centres for Digital Industry; Sensors and Devices; Cyber-Security; Sustainable Energy
- **IUAV:** Dipartimento di Culture del Progetto.



RT1
Energy

RT2
Smart Manufacturing, Mechatronics and Robotics

RT3
Materials

RT4
Artificial Intelligence and Data Science

RT5
Organizational, economical and legal aspects

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Spoke 4: CITY, ARCHITECTURE AND SUSTAINABLE DESIGN

- **IUAV:** Department of Architecture and Arts;
- **UNIPD:** Department of General Psychology;
- **UNIUD:** Polytechnic Department of Engineering and Architecture (DPIA);
- **UNITS:** Department Of Engineering and Architecture;
- **CRESME;**
- **CORILA.**



RT1
Strategic plan for the development of the construction and sustainable design sectors

RT2
Technological solutions for the construction and sustainable design sectors

RT3
Interaction between environments and human beings in the construction and sustainable design sectors

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Spoke 5: SMART AND SUSTAINABLE ENVIRONMENTS (MANUFACTURING, WORKING, LIVING)


- **UNIPD:** Departments of Information Engineering (DEI), Industrial Engineering (DII), Management and Engineering (DTG), General Psychology (DPG), Developmental Psychology and Socialisation (DPSS), Philosophy, Sociology, Education and Applied Psychology (FISSPA), Economics and management (DSEA), Physics and Astronomy (DFA), Chemical Sciences (DiSC), Human Inspired Technology Research Center (HIT);
- **UNIVR:** Dept. of Computer Science (DCS);
- **CNR:** Institutes of Electronics, Information Engineering and Telecommunications (IEIIT), Construction Technology (ITC), Atmospheric Sciences and Climate (ISAC/CNR), Geo-Hydrological Protection (IRPI/CNR), Photonics and Nanotechnologies (IFN/CNR).
- **SMACT;**
- **t2i**



- **RT1**
New and Emerging Technologies for Human Centric Manufacturing and other industrial working environments
- **RT2**
Digital Twin in Industries 5.0
- **RT3**
People, organization, and processes for Industry 5.0
- **RT4**
Personalized Assistive Technologies and Smart Environments for Inclusive Living in private and public spaces

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Spoke 6: TOURISM, CULTURE AND CREATIVE INDUSTRIES

- **UNIVE:** Departments of Economics, Management, Environmental Sciences, Informatics and Statistics, Linguistics and comparative cultural studies, Molecular Sciences and Nanosystems, Asian and North African Studies, Humanities, Philosophy and Cultural Heritage;
- **UNIBZ:** Faculties of Science and Technology, Computer Science, Design and Art;
- **UNITN:** Departments Economics and management, Sociology and social research;
- **UNIVR:** Departments of Business Administration, Foreign Languages and Literatures, Cultures and Civilization, Computer Science;
- **Fondazione Università Ca' Foscari (FCF)**



- **RT1**
New Digital Technologies
- **RT2**
Data Analytics
- **RT3**
Sustainable Business Models
- **RT4**
New Narratives and Communication Strategies

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Spoke 7: SMART AGRI-FOOD



- **UNIVR:** Departments. of Biotechnology, Business management, Computer science;
- **FEM:** Center for research and innovation (CRI);
- **UNIPD:** Departments. of Agronomy, Food, Natural resources, Animals and Environment (DAFNAE); Land, Environment, Agriculture and Forestry (TESAF); Comparative Biomedicine and Food Science (BCA); Animal Medicine, Production and Health (MAPS);
- **UNIUD:** Dept. of Agricultural, Food, Environmental and Animal Science (DI4A).
- **UNIVE:** Departments of Management, Molecular sciences and nanosystems, Environmental sciences, informatics and statistics.

RT1

Business models for sustainable agri-food at different levels

RT2

Process/product innovation for sustainable agri-food

RT3

Circular economy

RT4

Logistics, supply chain and vertical coordination

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Spoke 8: MARITIME, MARINE, AND INLAND WATER TECHNOLOGIES: TOWARDS THE DIGITAL TWIN OF THE UPPER ADRIATIC



- **UNITS:** Departments of Life Sciences, Mathematics and Geosciences, Engineering and Architecture;
- **OGS:** Section of Oceanography;
- **UNITN:** Departments of Civil, Environmental and Mechanical Engineering, Information Engineering and Computer Science;
- **IUAV:** Department of Architecture and Arts;
- **UNIVE:** Departments of Environmental Sciences, Informatics and Statistics, Molecular Sciences and Nanosystems;
- **UNIPD:** Departments of Comparative Biomedicine and Food Science, Biology, Civil, Environmental and Architectural Engineering, Geoscience, Industrial Engineering;
- **PNAEAS**

RT1

Biology of hydrosphere ecosystems

RT2

Physical-chemical risks and impacts on the hydrosphere

RT3

Sustainable waterway mobility

RT4

Land-sea integrated maritime and spatial Planning

RT5

North Adriatic Digital Twin

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iNEST: HUB e 9 Spokes

43 Work Packages

Totale Soggetti = 143

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	University of Bolzano - Ecosystems for mountain innovations	30	
	University of Trento - Health, Food and Lifestyle	17	
	University of Udine - Green and digital transition for advanced manufacturing technology	21	
	University IUAV of Venice - City, Architecture, Sustainable Design	6	
	University of Padova - Smart & sustainable environments (manufacturing, working, living)	19	

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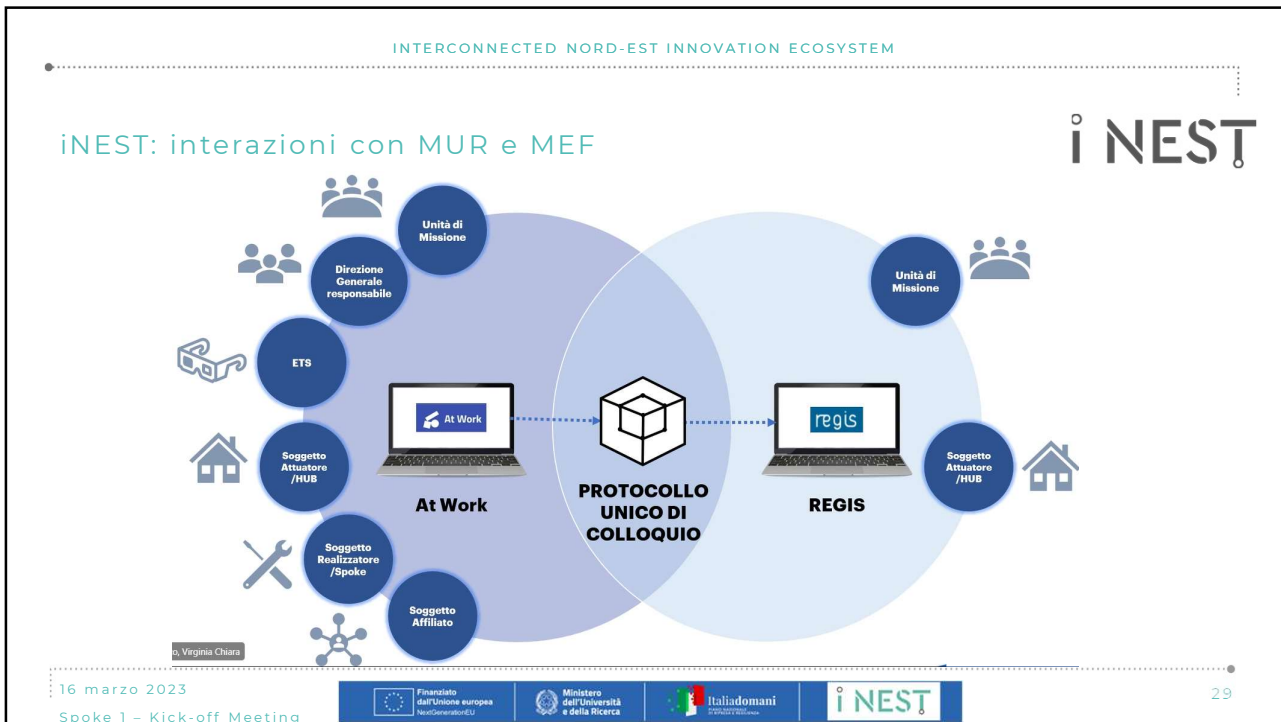
iNEST: interazioni con MUR e MEF

<p>MUR - UdM - L'Unità di Missione (UdM) rappresenta il punto di contatto con il Servizio Centrale del PNRR per l'espletamento degli adempimenti previsti dal Regolamento (UE) 241/2021.</p> <ul style="list-style-type: none"> • Monitoraggio avanzamento milestones e target • Controlli a campione
<p>MUR - DG RESPONSABILE - Direzione Generale (DG) responsabile delle misure previste dal piano.</p> <ul style="list-style-type: none"> • Monitoraggio dell'andamento dei progetti di competenza • Controllo e validazione dei dati progettuali di avanzamento fisico, procedurale e finanziario
<p>ETS - L'Esperto Tecnico-Scientifico (ETS) è il soggetto di cui si avvale il MUR per la valutazione in itinere degli interventi/progetti PNRR secondo il DM 1314/2021.</p> <ul style="list-style-type: none"> • Valutazione tecnico-scientifica in itinere della documentazione attestante le attività progettuali • Trasmissione alla Direzione Generale dell'esito delle verifiche
<p>ATTUATORE/HUB - Soggetto pubblico o privato responsabile dell'avvio, dell'attuazione e della funzionalità dell'intervento/progetto finanziato dal PNRR.</p> <ul style="list-style-type: none"> • Gestione del cronoprogramma di progetto, piano dei costi, indicatori • Gestione dell'avanzamento fisico, procedurale, finanziario del progetto • Alimentazione tempestiva e continua dei dati di avanzamento dei progetti
<p>REALIZZATORE/SPOKE - Soggetto e/o operatore economico a vario titolo coinvolto nella realizzazione del progetto e individuato dal soggetto attuatore.</p> <ul style="list-style-type: none"> • Trasmissione al soggetto attuatore dei dati e della documentazione attestanti l'avanzamento procedurale e finanziario delle attività di propria competenza
<p>AFFILIATO - Soggetto pubblico o operatore economico privato di cui lo Spoke può avvalersi nella realizzazione delle attività tematiche di propria competenza (dove previsto).</p> <ul style="list-style-type: none"> • Trasmissione al soggetto realizzatore dei dati e della documentazione attestanti l'avanzamento procedurale e finanziario delle attività di propria competenza.

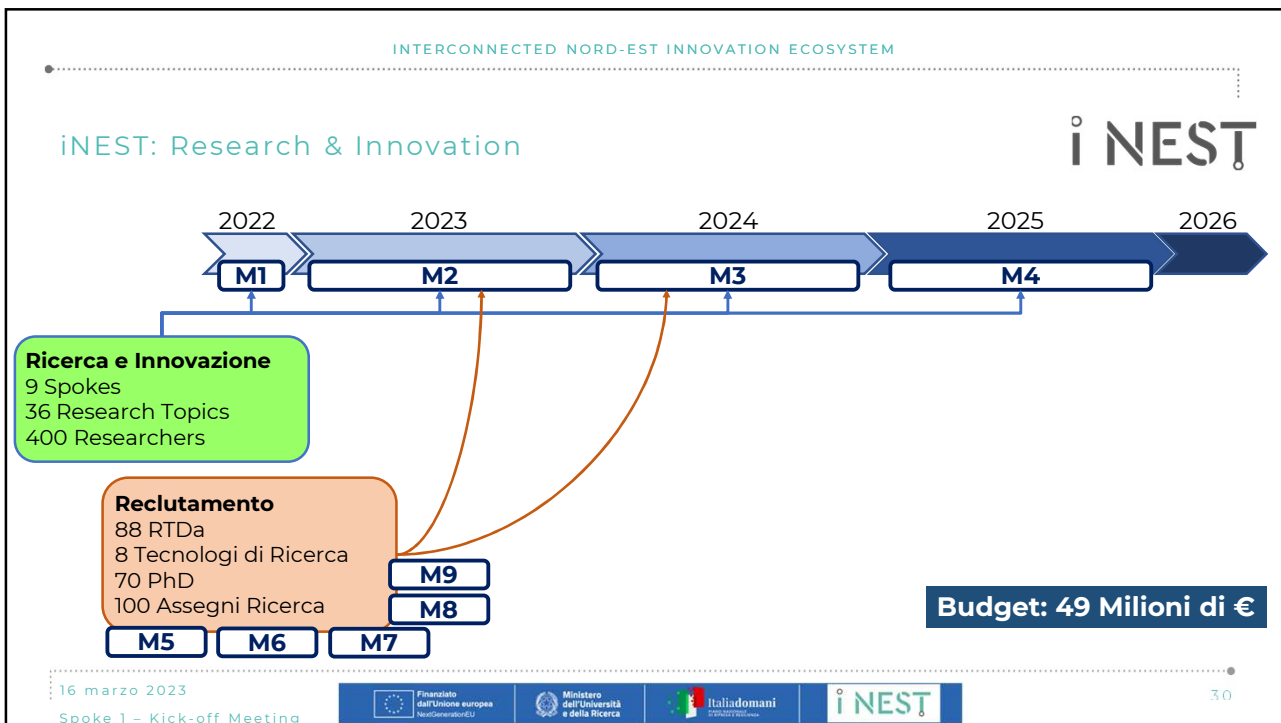
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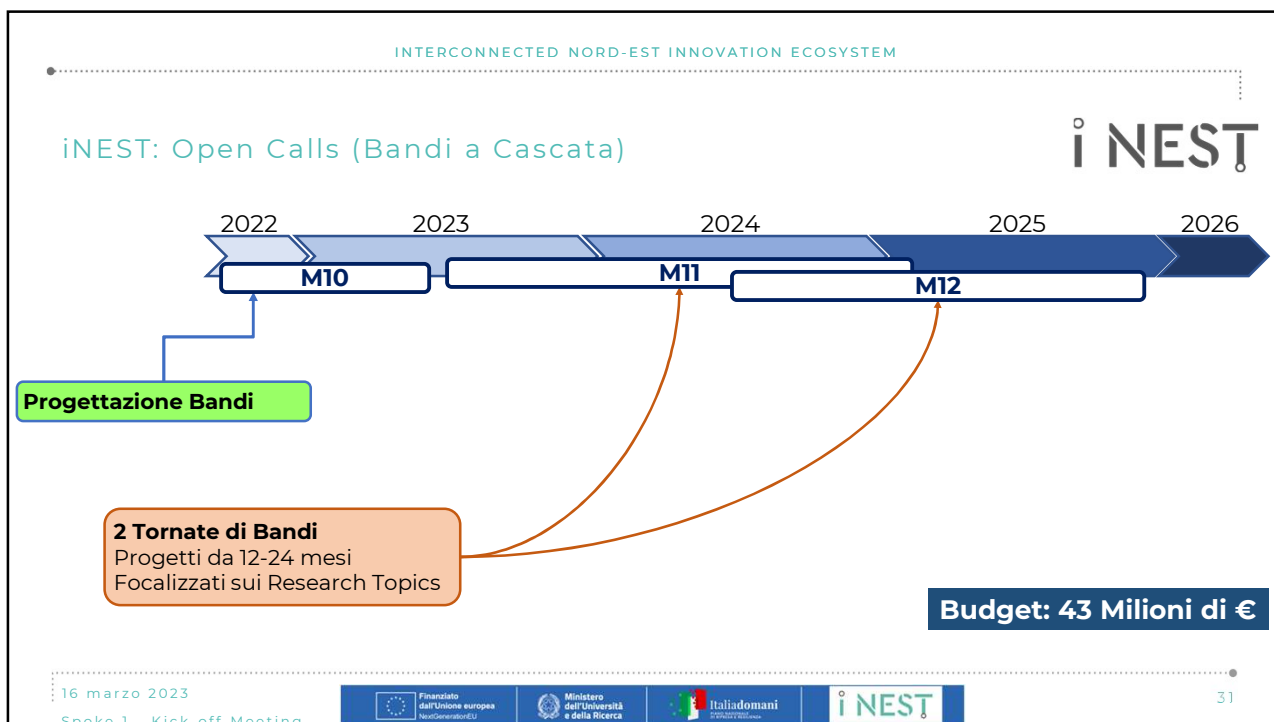
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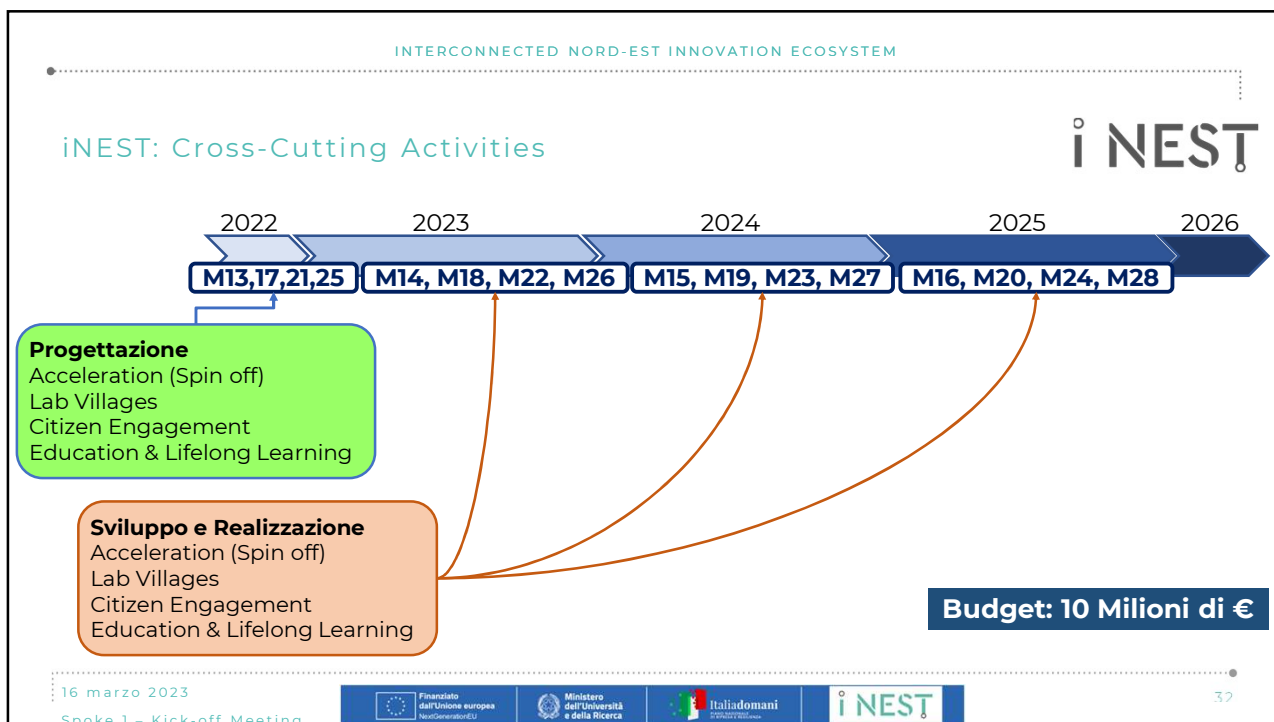
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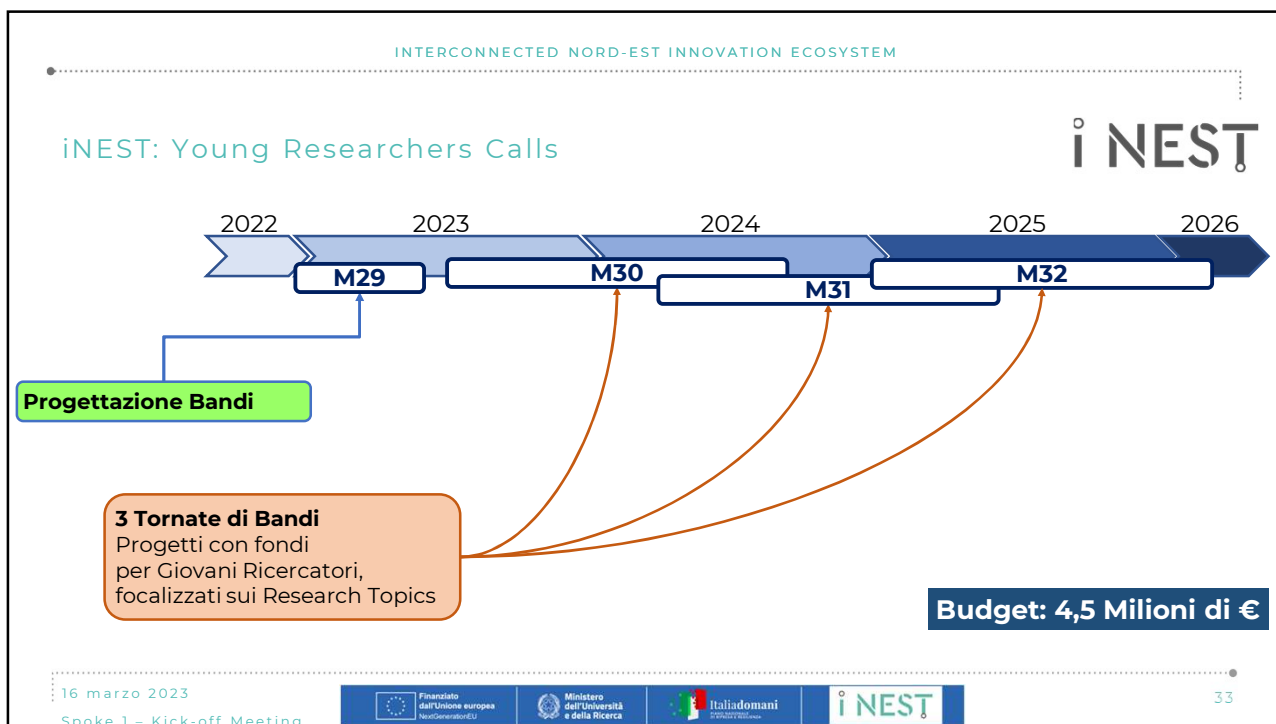
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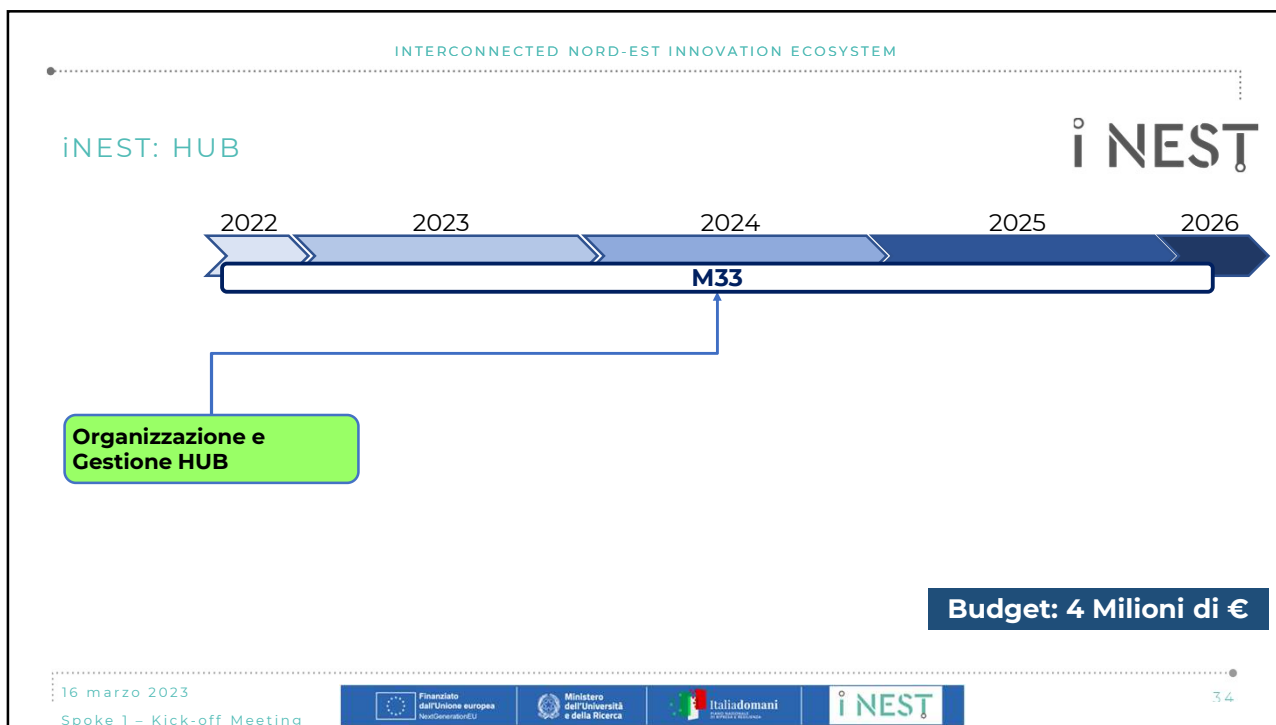
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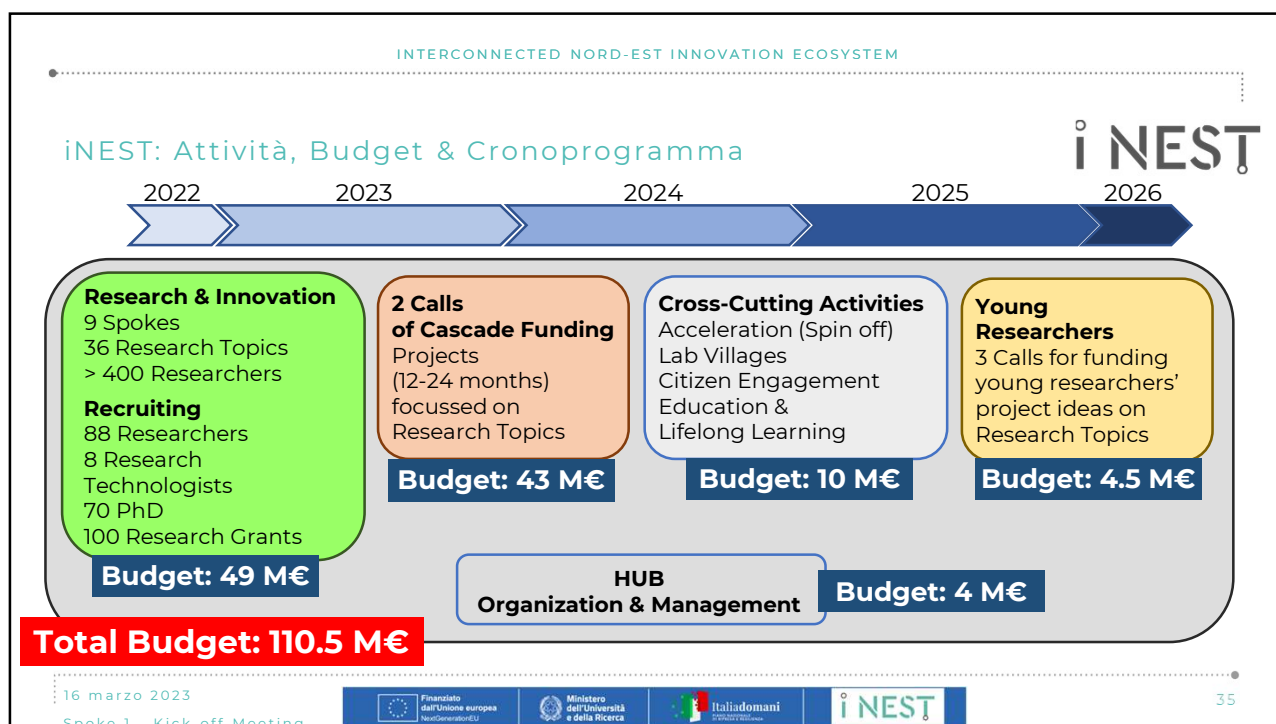
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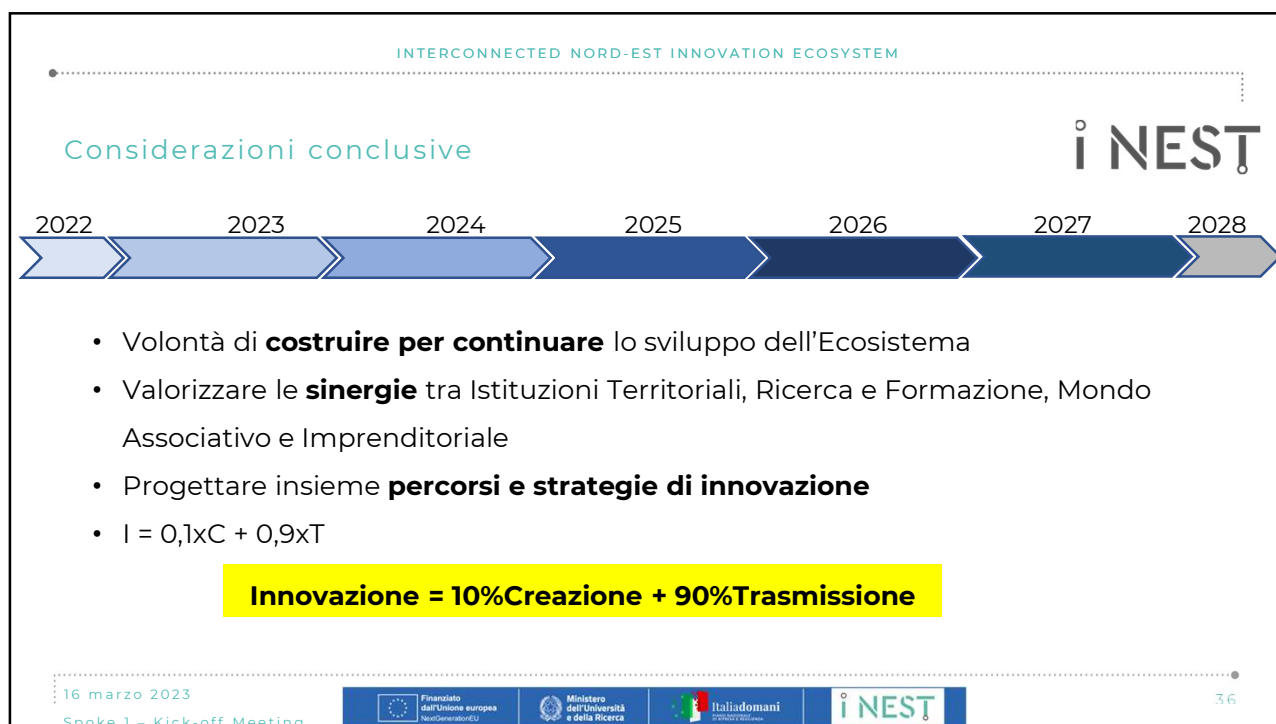
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INTERCONNECTED NORD-EST INNOVATION ECOSYSTEM

iNEST: Riferimenti

→ Sito web iNEST: www.consortziouest.it

→ Newsletter



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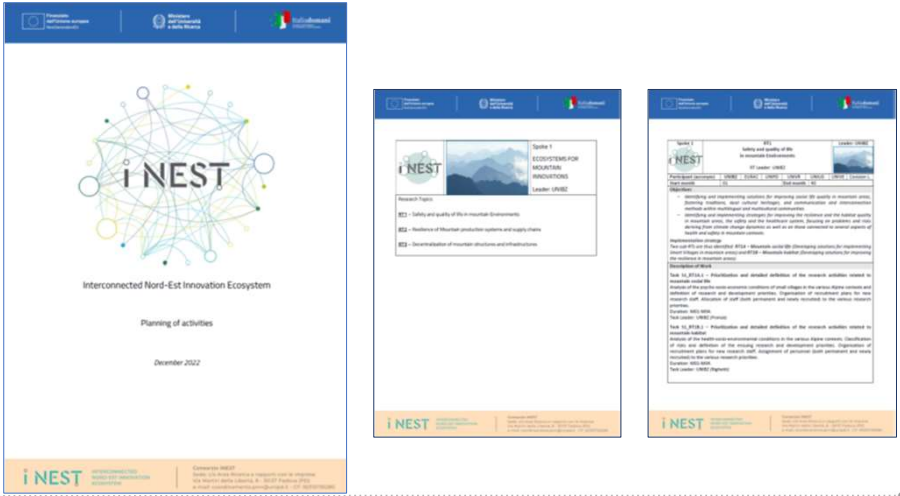
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iNEST: Riferimenti

→ Piano Attività




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iNEST: Riferimenti



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Ecosistemi dell'innovazione
PNRR - Missione 4: Istruzione e Ricerca
Componente 2: dalla ricerca all'impresa
Investimento 1.5, finanziato dall'unione Europea - NextGenerationEU
Progetto: ECS_00000043 (Area tematica: Digital, Industry, Aerospace)

Aviso MUR n. 3277 (30/12/2021)
Decreto Direttoriale di concessione del finanziamento n. 1058 (23/06/2022)
Atto d'Obbligo e di Accettazione firmato in data 01/08/2022

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