

Webinar – Rede europeia New growth Vanguard Initiative: Iniciativas piloto e oportunidades de financiamento Inter-regional

Vanguard Initiative: strategy, activities and main pilot initiatives Klaus Niederländer, Network Manager

July 8, 2025

The Vanguard Initiative

Network of 33 Regional Governments/Public Authorities (incl. Regional Development Agencies)



The EU Policy & Funding Environment

The EU's New Multi-Financial Framework 2028-2034



The Pilot Universe



VI Pilot Methodology

Market-Ready solutions

COMMERCIALISE	 Launch of new ventures and start-ups New value chains TRL 9
DEMONSTRATE	 Concretisation of application areas & demo-cases Development of Pilot lines and first of a kind factories TRL 6 - 7 - 8
CONNECT	 Matching events for complementary partners Developing demonstration cases
LEARN	 Scoping of innovation area Identify lead regions and actors Mapping of value chain (actors, technologies, missing elements)

ADMA - Advanced Manufacturing for Energy-Related Applications in Harsh Environments

4 Demonstration cases

- **Power Transfer:** high interest with hydrogen focus
- Decommissioning: strategic priority
- Next Gen Materials: coatings, composites
- Mooring Systems: early-stage interest

Main lines of actions

Review & development of demo cases

- Scouting new offshore opportunities
- Capacity building & stakeholder engagement
- Cross-pilot coordination & funding support

- Funding diversification following MARIS3-NET status
- Integration into S3 Blue Economy Platform (2024)
- Cross-pilot event at Key Energy Rimini in 2024
- Strategic study visits in Scotland & Poland

3D-Printing

8 Demonstration cases

Horizontal Industrial Challenges

- Increasing Life of Parts: 'Maintenance' and 'repairing'
- Lighter Components: Deployment of 'hybrid' components
- More Sustainable Production: Smart AM for Sustainable Production
- Improving Finishing: Automated removal and smoothing
- Automatization of AM factories

Vertical Application Areas

- Large Parts
- Integrated Electronics
- Robotics Applications

Main lines of actions



Be informed:

- Interregional funding opportunities
- Developments (applications-technologies, competences)

Be Connected:

- New users/customers
- New partners

Innovate & Deploy

- New users/customers
- New partners

Influence

- Contribute to strategic road mapping
- Contribute shaping interregional/EU policies

Key achievements



Successful funding; example of Metal Catal project with cascade funding

Policy Influencing: Additive Manufacturing Structured Dialogue

Events 2025:

- VI 3DP Pilot Funding Webinar
- 3DP Business Innovators Meeting

Efficient & Sustainable Manufacturing (ESM)

4 Demonstration cases

De- & Re-Manufacturing

Digital Transformation

EFREFO (energy-flexible and resource efficient factory operation

Polymer-based functional products

Main lines of actions



Integrate a multidisciplinary set of advanced and innovative enabling technologies and digital innovations (TRL 7-8)

Offer services to European end-users, mainly manufacturing companies, to solve specific industrial challenges related to their products.

Manufacturing Efficiency & Sustainability Focus Increase throughput, improve quality & reduce costs vs reduce energy consumption & emissios

Key achievements

Participation: 17 regions involved with 4 further regions interested

Funding; A number of EU funding projects submitted (Interreg, Horizon, i3, Cosme)

Events in 2025:

- Smart Polymer Congress Milano
- ...

Nano-/Microsystems and High-Tech Materials fo Industrial Transformation

2 Demonstration cases

- M4NA Mems for Nanoanalytics
- Structural Health Monitoring



Rescoping & revitalising the pilot: to obtain a strong and vivid community

- Develop new concrete (from TRL 5) interregional platform of collaborative demonstration cases in the field high-tech materials for the industrial transformation.
- Accelerate uptake of high-tech materials:
- Successful restructuration and continuation of the Pilot

- New communication strategy
- Relaunch event in Q2 2024
- Definition of new interregional value chains and/or the launch of new demo-cases
- Identify and facilitate activities and synergies across VI pilots, e.g. with hydrogen pilot

Smart Health

4 Demonstration cases

- RegMed XB Regenerative Medecine South Netherlands & Flanders
- **Personnal data management platform** : Flanders, East NL, EN Finland
- Radiotracers characterisation and synthesis NE Romania, Emilia Romagna, Slovenia
- Mobile app support for chronic diseases : Slovenia

Main lines of actions

िट्टी

- Scout for funding opportunities :
- **Pilot meetings :** Co-creation sessions, updates on EC regulations and funding, matchmaking sessions, pitches, site visits, ...
- Communicate, foster interregional cooperation and ecosystem relations
- Support democase development: needs analysis, ideation, on-demand meetings

- Scout for funding opportunities : 1 Interreg and 3 Vinnovate selected for funding (1,4M€), ...
- 5 Pilot meetings : joint meetings with S3P
 MedTech, pitches of startups
- Foster interregional cooperation and ecosystem relations : presentation video, collaboration with EP PerMed
- Support democases development : Demonstration service (S3 CoP)

Bio-Economy- Innovative use of non-food biomas

4 Demonstration cases

- **Bioaromatics** Produce lignin-based aromatic molecules and innovative sustainable materials
- Lignocellulosic biorefinery
 From lignocellulose biomass to intermediate and end-products of bulk and fine chemicals
- Liquified Bio-Methane Advancing the state of the art of biogas upgrading
- **Biopolymers** Matching polymer market applications and new biobased technologies

٠

Main lines of actions



- Demonstrate the bioproducts' large-scale feasibility production by raising public and private funds
- Increase bio-based products market uptake by accelerating interregional demonstration projects

Key achievements



17 regions in 10 countries

10 annual events, 500+ bio-based experts

10 project proposals from new Pilot partnerships

1 Memorandum of Understanding signed with the Bio-based Industry Consortium (BIC)

Cooperation on BIC Regional funding platform

Hydrogen - Driving Europe's Green Transition

4 Demonstration cases

- **HYDROCOMP:** Standardizing H2 pipelines & vessels (Małopolska, Saxony)
- Industrial Decarbonisation: Replacing fossil fuels with green H2 (Slovenia)
- H2 Networks: Connecting H2 research & industry (Lombardy, Scotland, Wales)
- H2 in Shipping: Applying H2 in maritime transport (Friuli Venezia Giulia, Lombardy, Slovenia, Małopolska)

Main lines of actions

Expand & Strengthen Partnerships: Recruit new regions & stakeholders

- Advance Demo-Cases: Refine projects & scale up hydrogen applications
- Secure Funding: Pursue EU funding (e.g., I3 calls)
- Enhance Governance & Outreach: New Community Manager, boost visibility.

- Partnership Growth: 17 member regions, 30 stakeholders engaged.
- Funding Momentum: Vanguard H2 IVC I3 proposal submitted (Dec 2025).
- Active Engagement: Hosted "H2 Pitching & Matchmaking" (March 2024, 13 pitches).
- **EU Presence:** Strong participation in European Hydrogen Week & Hydrogen Europe.

Artificial Intelligence

Demo cases under review

- Building European AI value chains with social impact
- Encourages cross-regional collaboration via networks like EEN, EDIHs, and the Digital Transformation Accelerator

Main lines of actions



- Support B2B & B2C AI initiatives by leveraging existing ecosystems
- Enable access to EU funding (e.g., Horizon Europe, I3)
- Provide guidance on joint project development and innovation-driven cooperation.

- **Partnership**: 17 member regions, 30 stakeholders engaged.
- Funding Momentum: Preparation of EU project proposals
- Active Engagement: Final Event AI REDGIO 5.0, Brussels November/December 2025



VInnovate – the Interregional Funding Tool of the Vanguard Initiative

List of participating regions

Only organisations located in these regions are eligible for funding!

ese lose

- East NL (Gelderland & Overijssel provinces)
- Noord Brabant
- Lombardy
- Norte

- Basque Country
 - Lower Austria
 - Emilia-Romagna
 - Wales

- Lower Saxony
- Galicia
- North-East

Romania



Timeline Overview of Call 2025

- 2nd of May 2025 (17:00 CET): Opening of the Call
- 15th of September 2025 (23:59 CET): Closing of the submission of the "project fit form"
 - We encourage applicants to submit their 'Project Fit Form' as soon as possible: this will give them more time to prepare the actual proposals
- 15th of October 2025 (23:59 CET): Closing of the submission of "full" proposals
- 18th of December 2025: Communication results to applicants
- December 2025/February 2026: Signing of consortium agreement and funding negotiations, according to the respective regional/national rules, if necessary.



New growth through smart specialisation

klaus.niederlander@s3vanguardinitiative.eu

