

Vanguard Initiative

New Growth through Smart Specialisation

Building EU Value Chains through S3



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News

The Vanguard Initiative hosted a lively discussion about cross-regional collaboration at WIRE 2016

21.06.2016 From 8 to 10 June 2016 the Week of Innovative Regions in Europe (WIRE) took place in Eindhoven, The Netherlands. Vanguard Initiative was, during several parts of the program, presented as a promising example of interregional collaboration. The network was offered the opportunity to organise a 'hosted by' session during this conference, which was co-organised by Brainport Development and the EC's DG Research & Innovation.

[Read more](#)

Asturias
Auvergne - Rhône-Alpes
Baden-Württemberg
Basque Country
Cantabria
Catalonia
Dalarna
Emilia Romagna
Flanders
Galicia
Ile de France
Lombardia
Malopolska
Navarra
Nord pas de Calais
Norte
Nort Rhine-Westphalia
Ostrobothnia
Pays de la Loire
Randstat
Skåne
Saxony
Scotland
Silesia
South Denmark
South Netherlands
Tampere Region
Upper-Austria
Wallonia



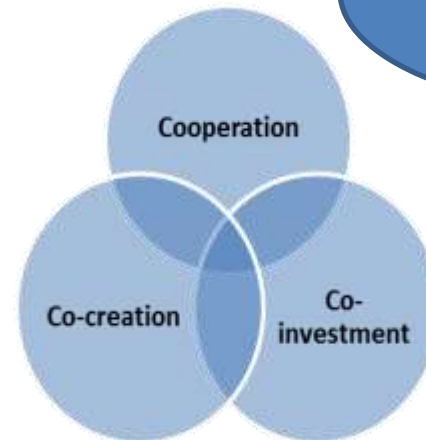
Regione Lombardia

Vanguard as a tool for internationalisation of S3
and activities of regional clusters



Vanguard & EU Value Chains

The **Vanguard Initiative** is a coalition of European regions committed to enhancing the **growth and competitiveness of their companies**, through **inter-regional cooperation, co-investment and industrial innovation** along **EU value chains**



30 Partner Regions



VANGUARD INITIATIVE

NEW GROWTH THROUGH SMART SPECIALISATION

Ambitions

Partners

Pilot Initiatives

Activities

Contacts



VIDEO

<https://www.youtube.com/watch?v=7h5I6vvrkZY> -

<https://www.youtube.com/watch?v=7h5I6vvrkZY>



www.s3vanguardinitiative.eu

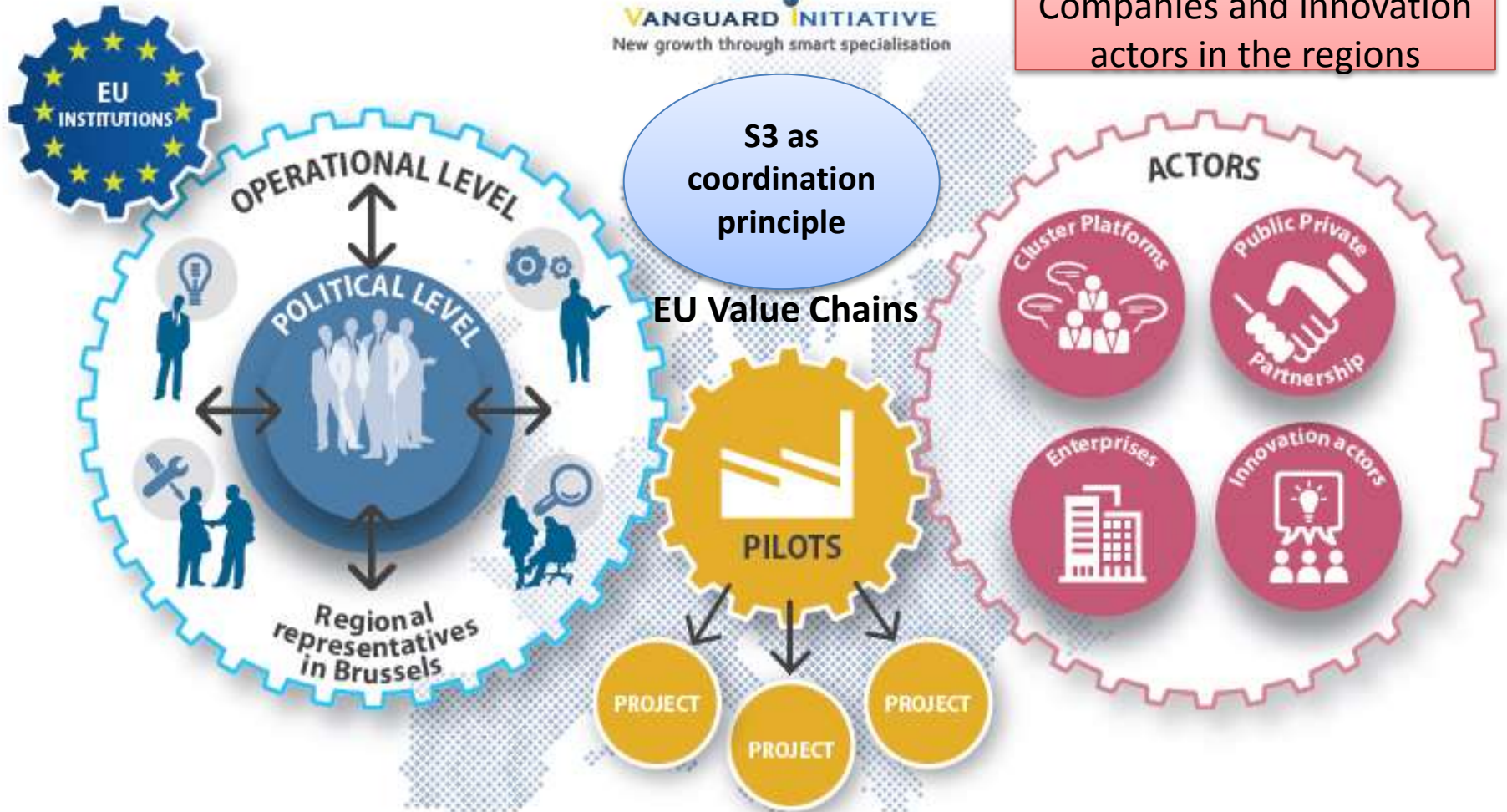
How does Vanguard work?



VANGUARD INITIATIVE
New growth through smart specialisation

Regional Public Private Partnerships

Cluster platforms
Companies and innovation actors in the regions



5 Pilot projects & 27 Demo cases (pilot S3P)

Vanguard Initiative Pilot Projects



- Vanguard Initiative regions explore **industry-led opportunities** in specific **Key Enabling Technology** (KET) areas where inter-regional collaboration and co-investment could result in the creation of **EU value chains**.
- The aim is to generate **proposals** which can be translated into **jointly funded projects or pilots**.

‘Conditions’:

- **Industry-leadership**
- Demonstrable international market potential for **up-scale projects/investments**
- **Uptake of research results – innovation to the market -TRL >5**
- Boost **EU-value chains** through **smart specialisation**
- **Leading by example** in supporting the implementation of European industrial policy

Vanguard Initiative Pilots



The **focus** is on the **joint development of networks of demonstrators and pilots** to accelerate market development for **existing and emerging value chains** for competitive and **high-value added products**

1. High-performance production through 3D-printing

(lead: South-Netherlands, Flanders and Norte)

2. Efficient and Sustainable Manufacturing

(lead: Catalonia and Lombardy)

3. Advanced Manufacturing for Energy Applications in Harsh Environments

(lead: Scotland and Basque Country)

4. Bioeconomy – Interregional cooperation on innovative use of non - food Biomass

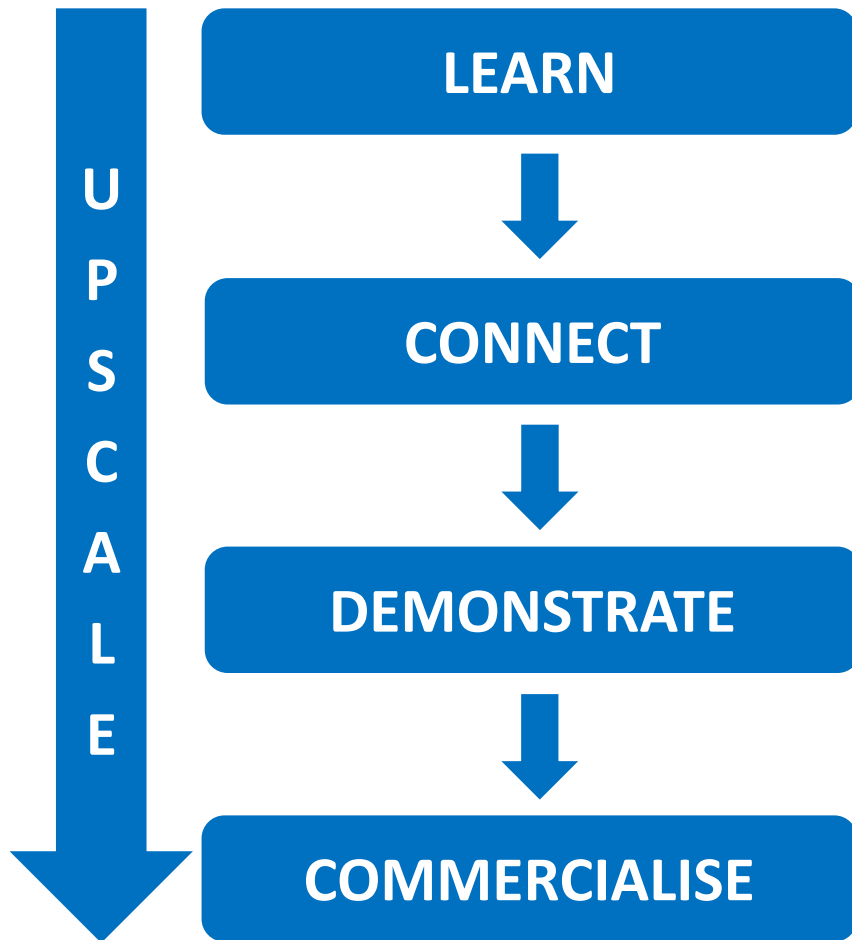
(lead: Randstad Region and Lombardy)

5. Nano Enabled Products

(lead: Skåne and Tampere)

27 demo cases

Vanguard Initiative Methodology



Scoping paper

(common vision and methodology)

Identifying **lead regions**

Mapping questionnaire
(potential/gaps)

Identifying **lead-actors**

(capability, capacity, opportunity)

Matching events for complementary partners

Project development for **existing or new value chains**

Networked demonstration

(Joint Demonstration Initiative)

Pilot lines and first of a kind factories

TRL 6 – 7 - 8

Launch of new ventures / start - ups

New value chains bring **research results to the market**

TRL 9

Vanguard Initiative

The Match Making event



VANGUARD INITIATIVE

MATCHMAKING EVENT

25th February 2016 - Brussels

VIDEO:

<https://www.youtube.com/watch?v=7h5I6vvrkZY>

3min 23

<https://www.youtube.com/watch?v=ixDAKGapaUc>

1min 26

Vanguard Initiative

Where are we?



ADMA Energy



Bioeconomy



ESM



3D-printing



Nano

5 pilots:
27 demo cases at
different maturity
level

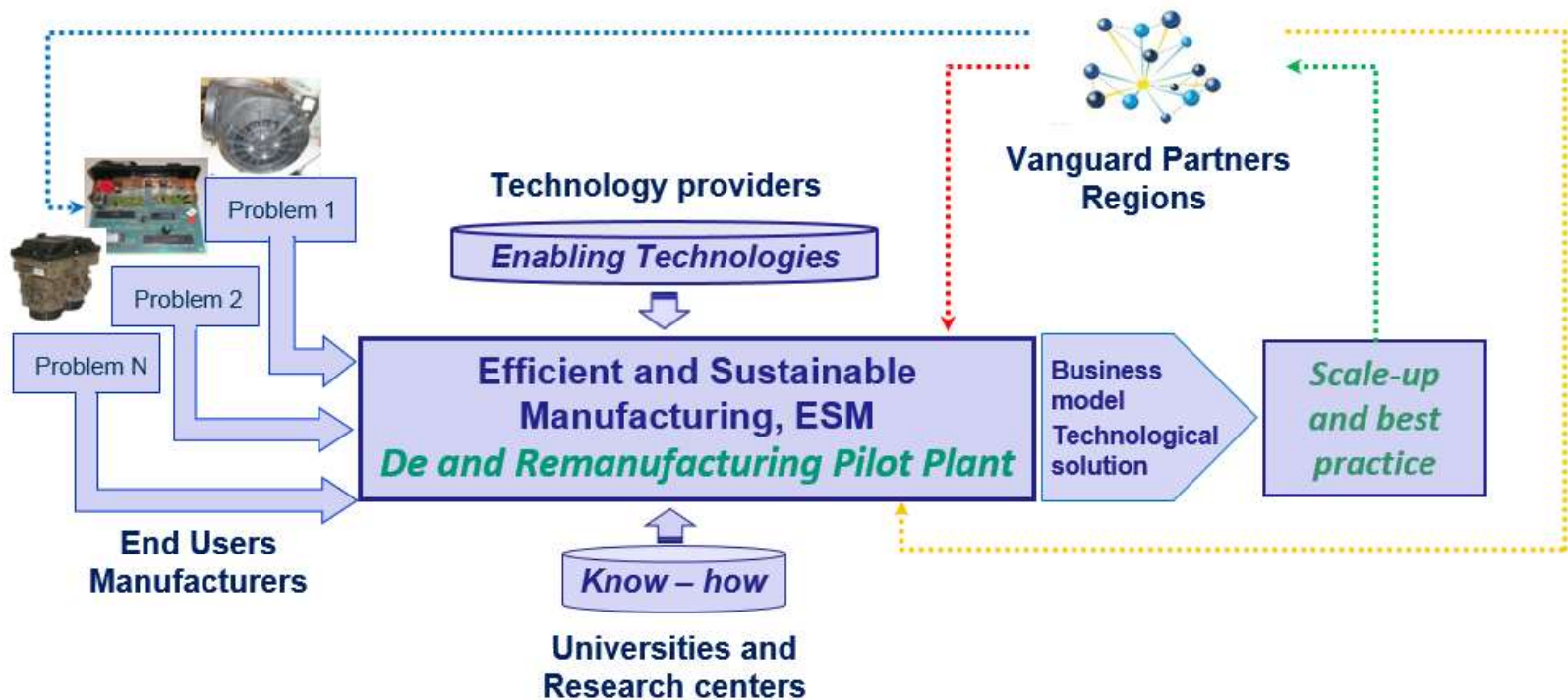
Upscale

2 Demo
cases
developed
a business
plan and
started the
dialogue
with the EIB



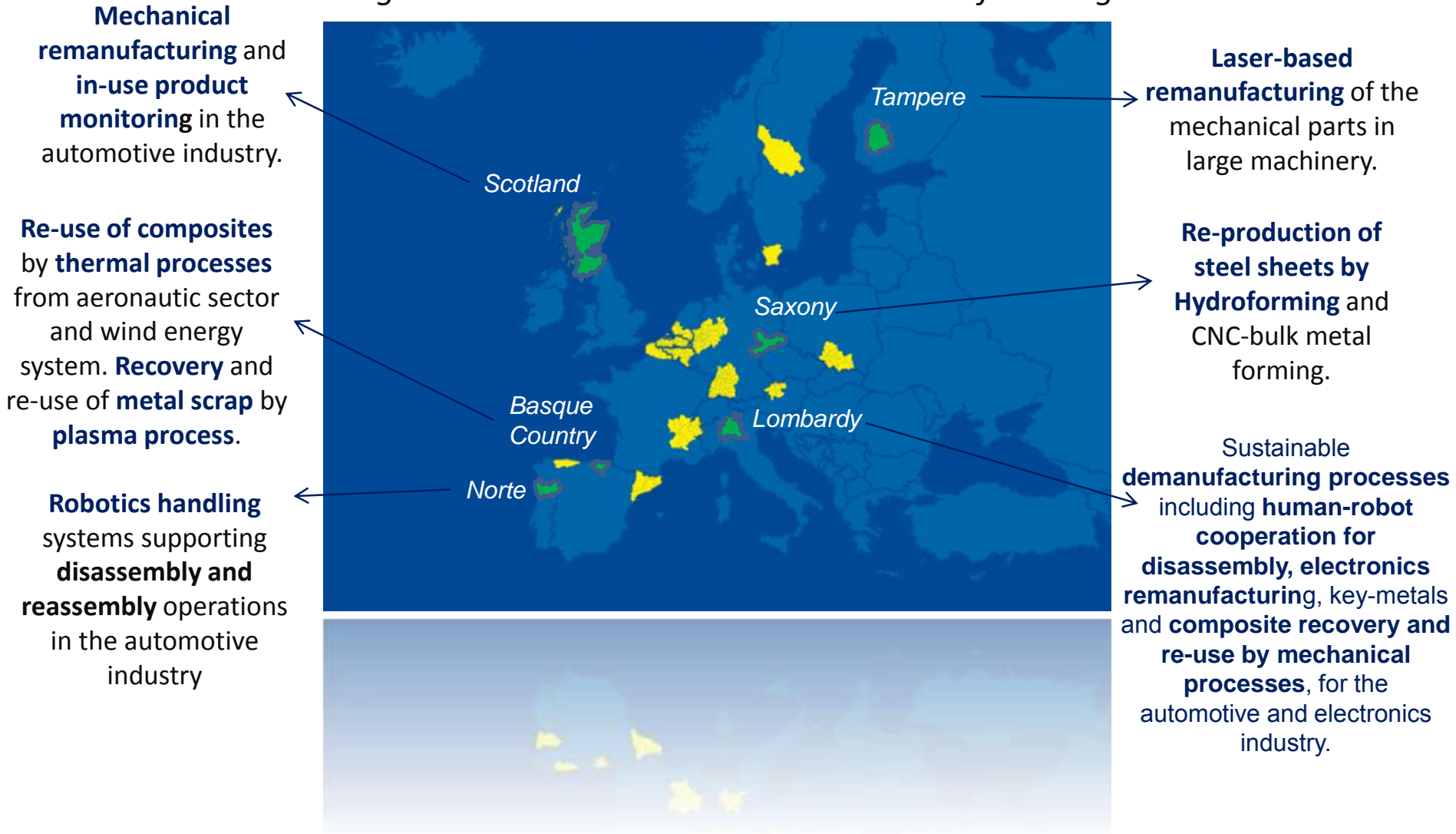
EXAMPLE from ESM Pilot: Application Domain (Re-De Manufacturing)

The main goal of the pilot is to *integrate* a multidisciplinary set of *advanced and innovative enabling technologies* and to use the *regional smart specialization* in synergic way to offer a *service to European end-users*, mainly manufacturing companies, to solve specific *sustainability-oriented problems* related to their products.



ESM Pilot Geographic Configuration and Regional Specialization

Vanguard Pilot Network on De- and Remanufacturing



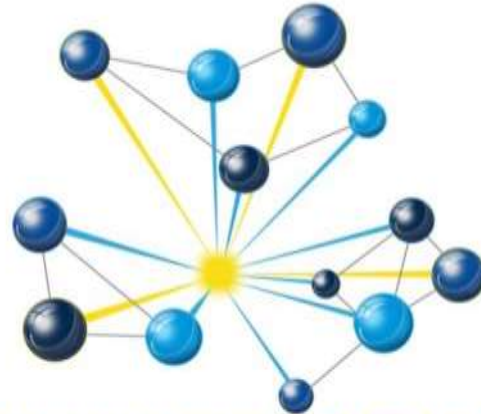
Estimating the parameters of this business model

Analysis & identification of *sectorial Use Cases*, with potential industrial partners associated, from different regions involved.

For each *specific Use Case*, a business case has been detailed including a *business plan* for the industrial take-up of the developed solutions within *specific value chains*.

Regional/Cross-Regional Use Case	Involved Regions
Composite Recovery from Wind Energy System	<u>Basque Countries</u> , Saxony, Lombardy, Tampere
Heavy machinery components remanufacturing	<u>Tampere</u> , Basque Countries, Lombardy, Saxony
Automotive parts remanufacturing	<u>Scotland</u> , Lombardy, Saxony, Norte
High-value TLC systems and Electronics Recovery	<u>Lombardy</u> , Tampere
Metal components reprocessing	<u>Saxony</u> , Tampere, Lombardy
Remanufacturing of e-motors	<u>Saxony</u> , Lombardy, Norte

This pilot network is designed to be a “*generator*” of new industrial pilots



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Conclusion

The Vanguard Initiative is a clear example of the power of connected regional innovation ecosystems and of the added benefit that can be achieved within EU value chains