



Vanguard Initiative, facilitating investments in value chains

Seminar “Interregional Investments in Innovation and Cooperation” in Slovenia – 31 March 2021
Wim De Kinderen, South Netherlands – chair Task Group “Vanguard Pilot Monitoring”

Vanguard Initiative ?!

a short intro.

**Regional
Cooperation**

**S3 Smart
Specialisation**

Industrial Innovation

**Political
Commitment**

Entrepreneurship

- **two presumptions :**
1. our **Smart Specialisation Strategy (S3)** is the result of a real **Entrepreneurial Discovery Process (EDP)**.
 2. our companies have a **positive attitude towards 'Internationalisation'**, and it is even a priority for their business.

VI Members

Members (39)

Aragon, Asturias, Autonomous Province of Bolzano/Bozen – South Tyrol, Autonomous Province of Trento / Trentino, Auvergne-Rhône-Alpes, Baden-Württemberg, Basque Country, Cantabria, Catalonia, Dalarna, East Netherlands, East and North Finland, Emilia Romagna, Flanders, Friuli Venezia Giulia, Galicia, Gävleborg, Lombardia, Lower Austria, Lower Saxony, Malopolska, Navarra Norte Portugal, North Rhine-Westphalia, Orebro, Pays de la Loire, Piemonte, Randstad/Zuid Holland, Saxony, Saxony-Anhalt, Scotland, Skane Region, Slovenia, South Netherlands, Tampere, Upper Austria, Värmland, Wales, Wallonia

Associate Members (5)

AFIL, Lombardy Green Chemistry Association, Brainport Development, SPRI, Scottish Enterprise

VI : a network of many regions



Political
commitment :
access to regional
funds; VI's USP

Triple helix
involved and
organized

Action focused
network,
influence by
results

Content driven

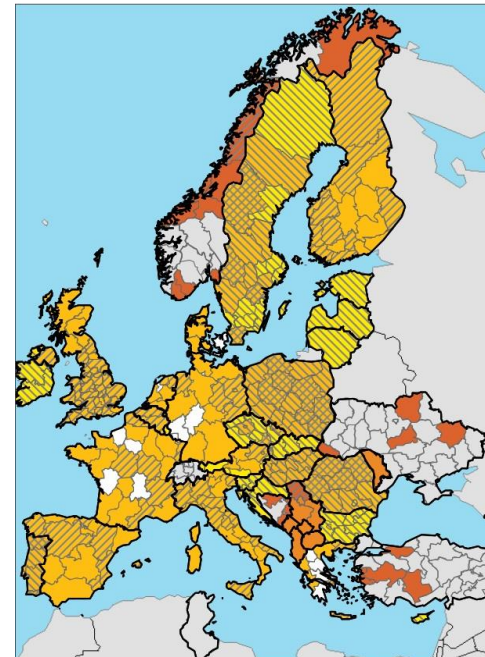
- region
- industry based S3
- ambition
- political commitment (Milan Declaration)
- mobilizing and organizing stakeholders in the region
- active participation in the network structure
- active participation in core activities

VI inspires

happy with the EU copy paste



- 3 Thematic S3 Platforms (Industry Modernisation, Agrofood, Energy)
- 35 S3 Partnerships
 - high tech, low tech, non tech
- 200 EU regions involved
- support by DGs REGIO, JRC, GROW, RTD, Connect, Agri, ENER, MARE,...



VI works for the collective interests



The Vanguard Initiative¹ welcomes the MFF package as an ambitious renewed agenda for EU industrial and innovation policies
Position paper

The Vanguard Initiative welcomes the MFF package as an ambitious renewed agenda for smart specialisation principles. It offers clear and concrete modalities for sources of funding for supporting value chains, on the basis of smart



**Supporting Key EC Proposals for New Instruments
Offering Real Possibilities of EU Funds Synergies**

On 29 May 2018, the European Commission announced the new provisions for the European territorial cooperation provisions for the European territorial cooperation a **new INTERREG Component 5 on Innovation** worth €1 billion, representing 11,5% of the total interregional innovation investments that would take on board the work already in



Working Document

**Interregional Innovation Investments
European Territorial Cooperation – Component 5**

this is a good proposal to contribute substantially to the strengthening of the competitiveness of the EU and all of its regions



Dear Members of the SME Intergroup,

The SME Intergroup cordially invites you to a breakfast discussion hosted by



on the topic of

**Supporting interregional S3 cooperation
along industrial value chains**

How component 5 in Interreg strengthens interregional cooperation

Tuesday, 6 November 2018
08:00 – 09:00 am, MEP Salon
European Parliament, Brussels

VANGUARD INITIATIVE

Vanguard Initiative's Pilot Projects a short intro.

VI Pilot Projects

- **Interregional cooperation projects between companies and knowledge institutes in a specific technology field or application domain**
 - demonstration projects, no research (> TRL 5 – post prototyping)
 - industrial commitment (to participate/lead/co-invest)
 - European dimension : added value of joint demonstration
 - expected significant impact (economic, social and environmental returns)
- **European Networks of Demonstrators**
- **no “one off” projects / building of new industrial value chains through a pipeline of investment projects**

in order to :

- **accelerate market development**
- **global competitiveness**

VI Pilot Projects and Democases

3D-printing	ADMA for Energy-Related Applications in Harsh Environments	Efficient and Sustainable Manufacturing	Bioeconomy	New Nano-enabled Products
repairing	Power Transfer in the Sea (PURE)	De- and Remanufacturing	Lignocellulose biorefinery	Nanowires for ICT and energy applications
Collaborative robots	Joining of Large Scale Components	Polymer based functionalproducts	Bio-aromatics	Nano enabled Micro System for Bio Analysis (NeMs4Bio)
Integrated electronics	New Methods of Manufacturing of Components	Digital Transformation	LiquifiedBio-Methane (LNG Blue Corridor)	Printed Electronics on metallic 3D objects (Shapetronics)
Large parts	Corrosion on Offshore and Subsea Infrastructure	Energy-flexible and resource-efficient factory operation - EFREFO	Biopolymers	Structural health on composite materials
Healthcare	Sensing and Remote Monitoring Technologies			MEMS for nano-analytiX
Build Environment				Flip-Chip assembly for Indium Phosphide PICs
hybrid components				
Maintenance				
Additive-subtractive				

DYNAMIC
LANDSCAPE

NEW

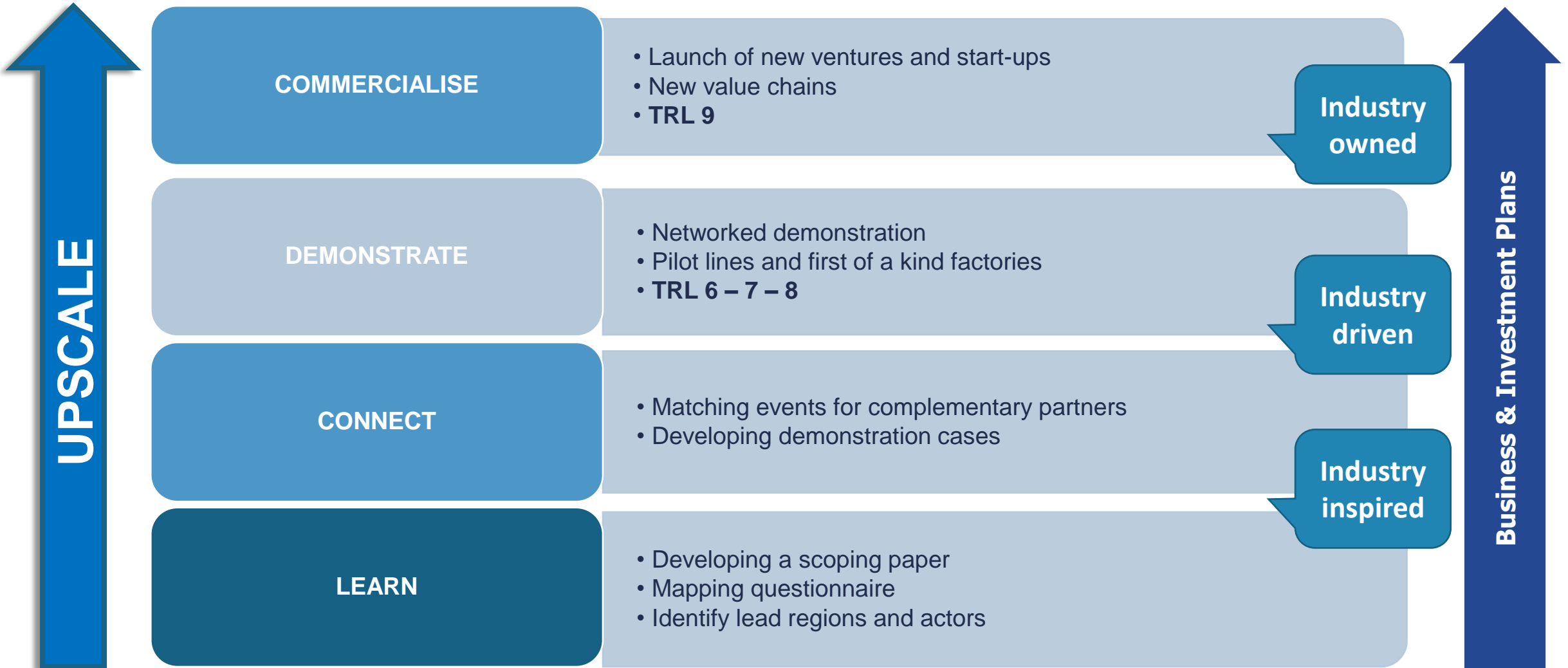
Artificial
Intelligence

Smart Health

VI democases

- **VI democases common objectives**
 - establish (shared) facilities for demonstration of new technologies
 - facilitate access to (shared) facilities
 - lower technology uncertainty, risks and costs
 - stimulate industrial replication and upscale (hence market uptake)
- **each democase =**
 - combination of complementary demonstration facilities
 - group(s) of companies accessing infrastructure (TRL 6-8)
 - Industrial replication and upscale (if the above is successful) (TRL 8-9)
- **3 types of democases**
 - challenge driven or technology driven
 - connecting existing infrastructure
 - building brand new infrastructure
 - connect and upgrade existing infrastructure (hybrid format)

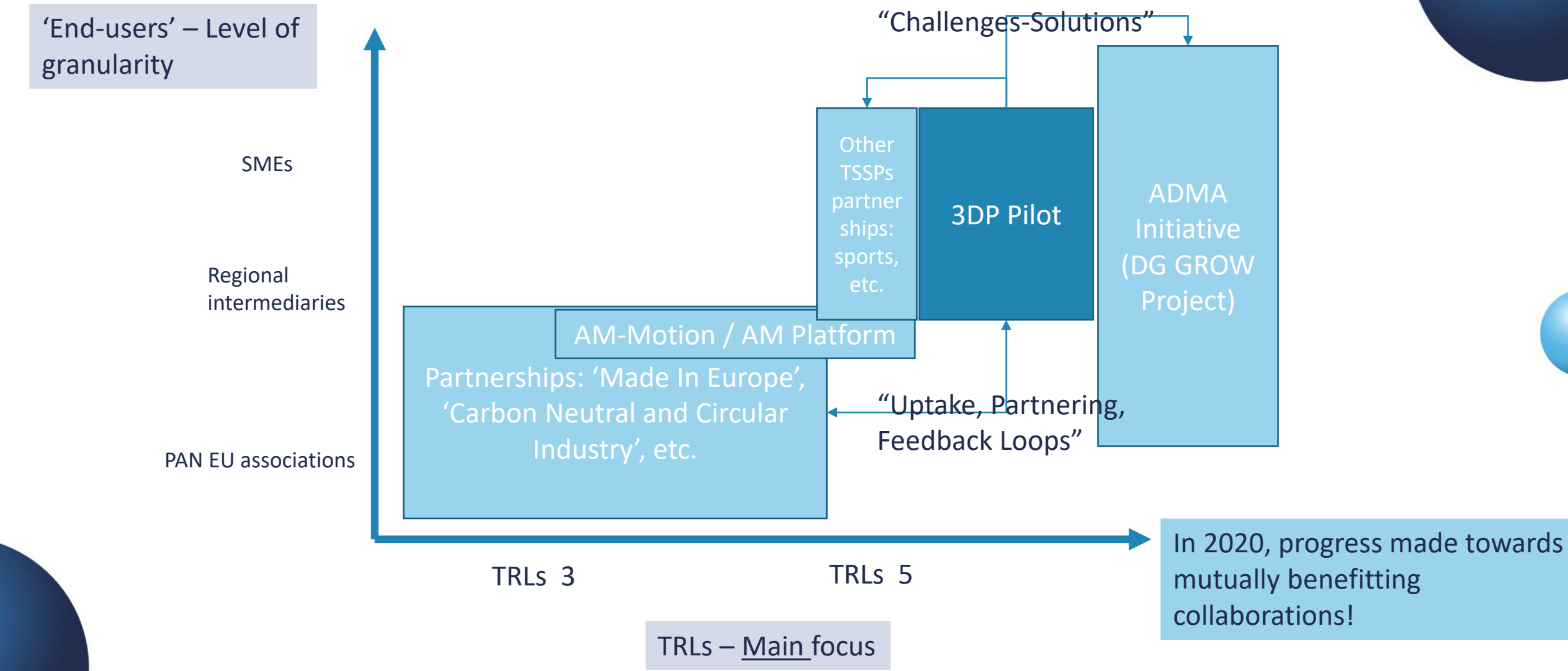
VI Methodology



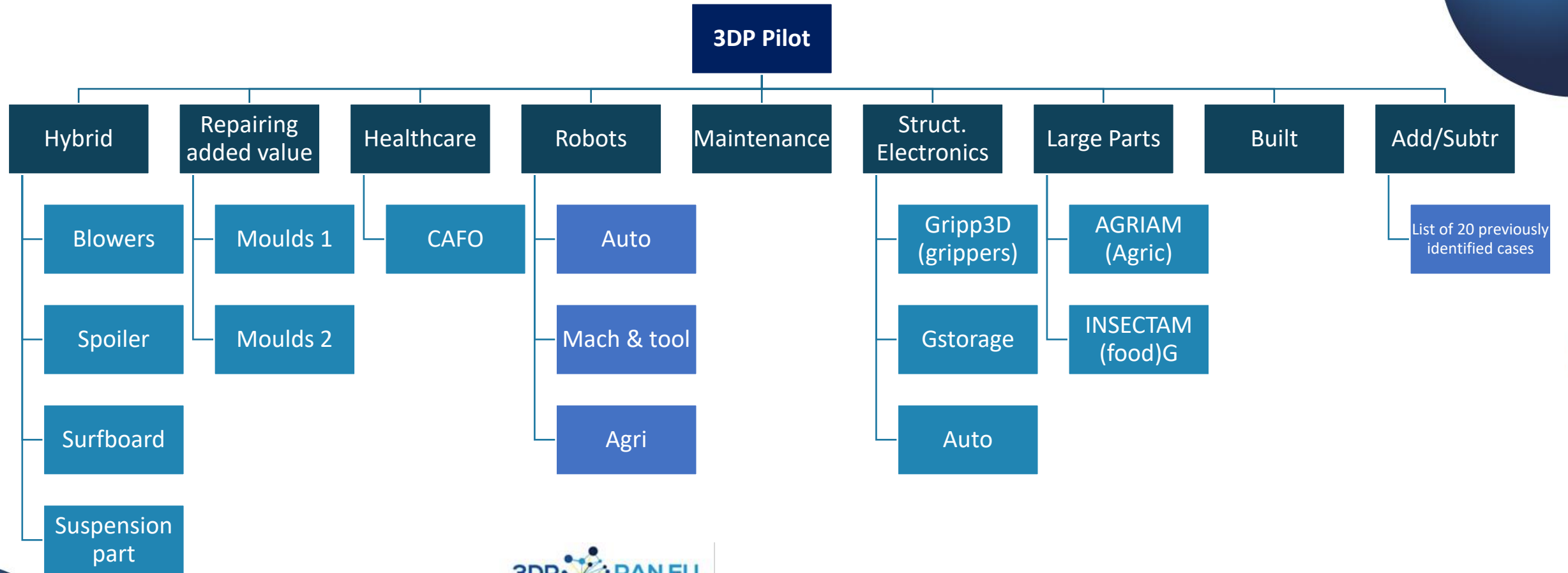
Vanguard Initiative's Pilot Projects some results.

VI 3DP – strategic positioning in the landscape

Other key cross-regional AM-related initiatives (preliminary, illustrative)



3DP – portfolio of business driven use cases

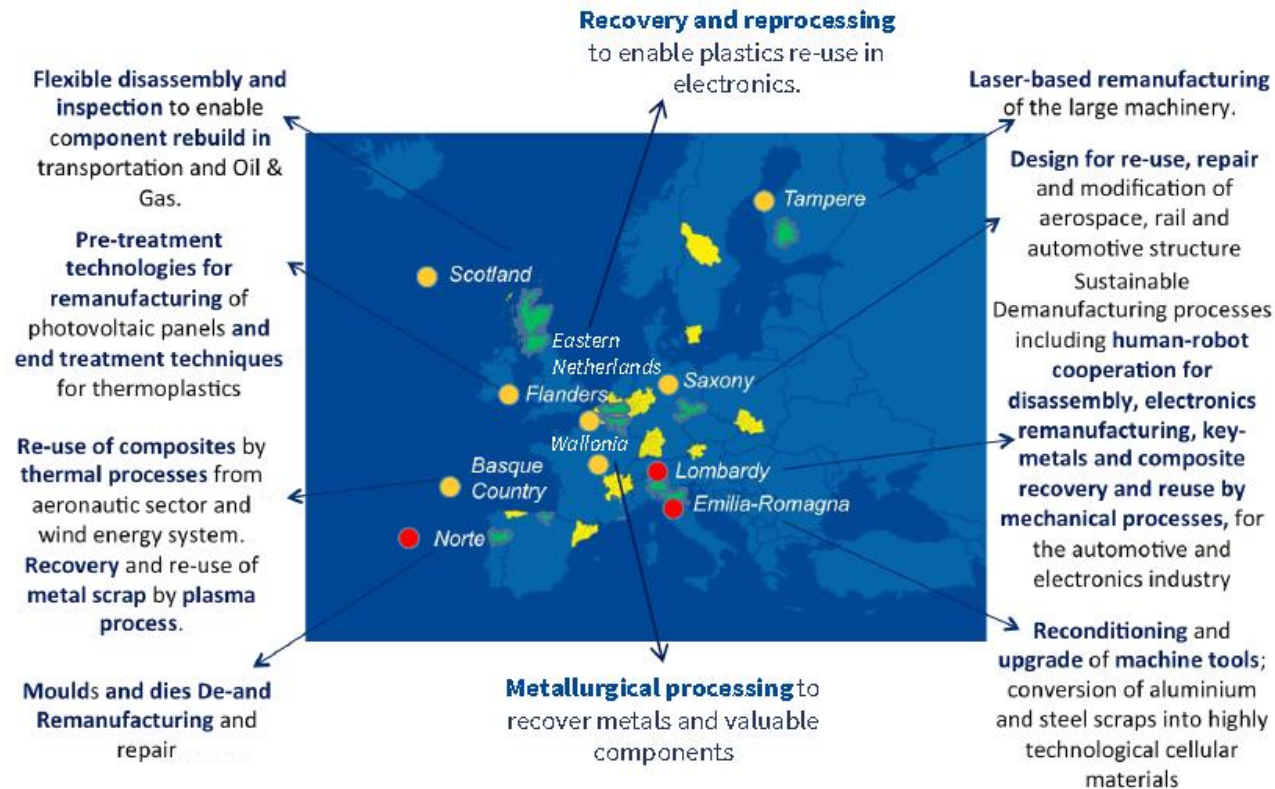


*10 'company-facility center collaborations' supported
2 of them with Slovenian partners
Total budget of 400 kEUR*

ESM – De- & Remanufacturing democase

Envisaged inter-regional nodes configuration

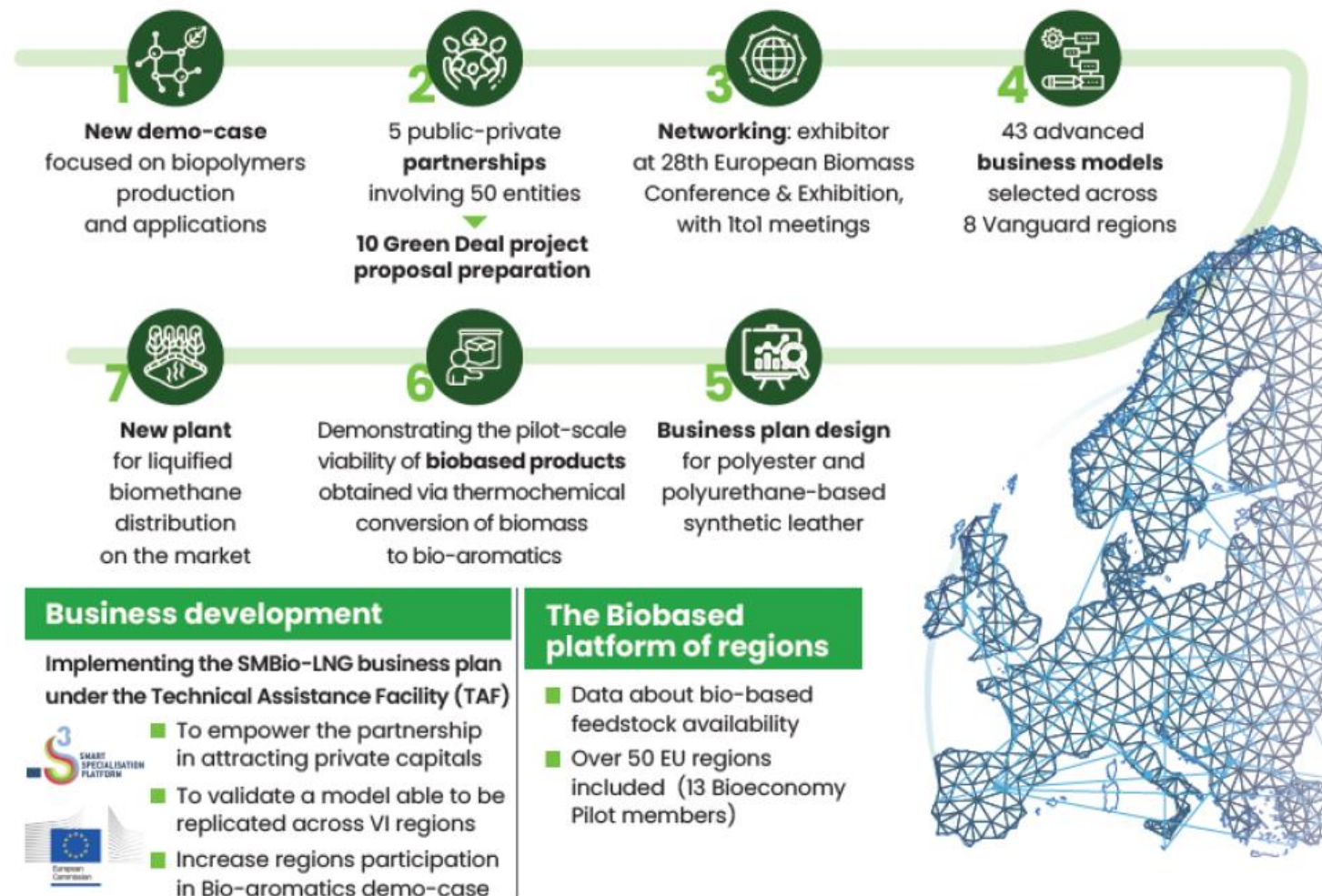
- Totally new pilot site (or connection)
- Upgraded existing pilot site (or connection)



Key Issue: integrated pilot plant solutions, needed by industry to *validate high-risk investments* in circular economy businesses before the industrial implementation.

BioEconomy

Bioeconomy Pilot's 2020 key achievements



VI Pilot Projects' funding and investment needs
will the new MFF instruments respond to them?
(we are connected to EU's strategic orientations)
(and we are ready to contribute)

will the (new) regional instruments respond to them?

Questions ?

A 3D printer is shown in the process of printing a black, perforated, bowl-like object. The printer's nozzle is positioned directly above the object, which is resting on a reflective surface. The background is a blurred industrial setting.

THANK YOU

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