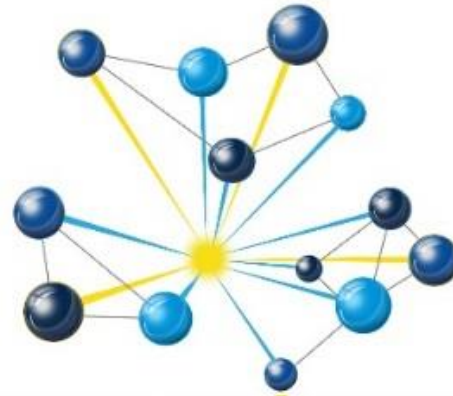


# Zugang zu Kooperationspartnern in europäischen HighTech – Regionen

## *Vorstellung der Vanguard-Initiative*

*Alexandra Fezer  
Steinbeis 2i GmbH*

*Stuttgart, 09.07.2018*



**VANGUARD INITIATIVE**  
New growth through smart specialisation

## Stärkung der Innovationsfähigkeit durch überregionale Zusammenarbeit

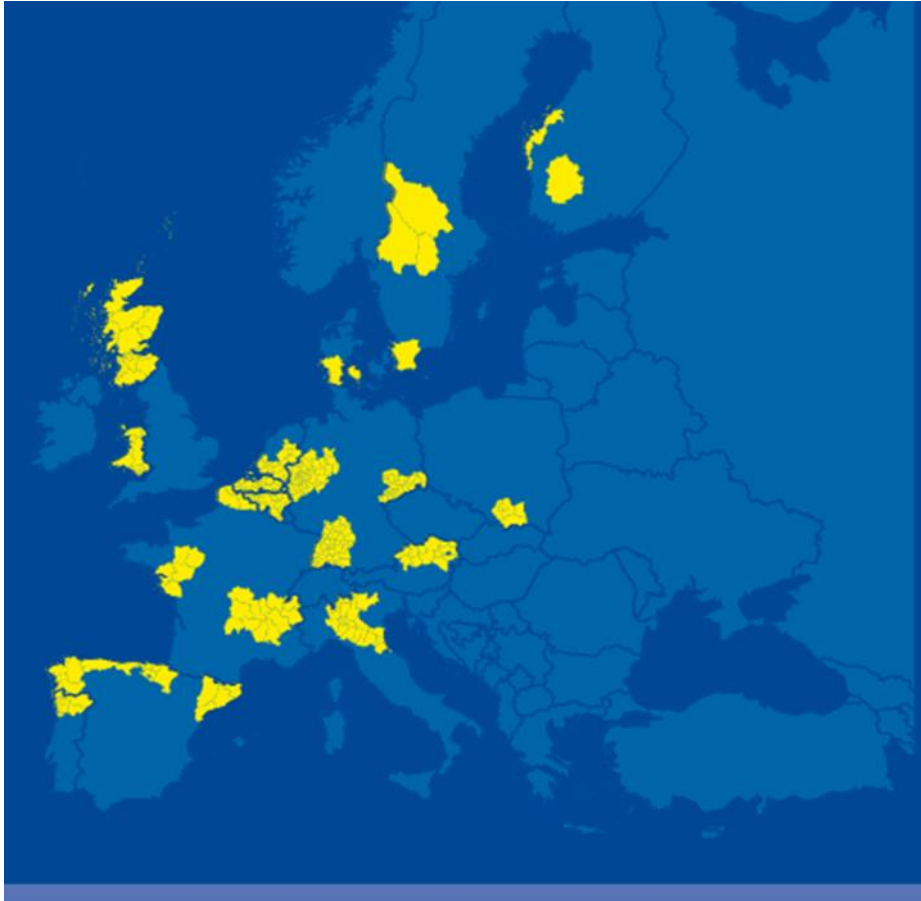


*@VI\_Brussels*

*#Vanguardinitiative*

*www.s3vanguardinitia  
tive.eu*

## Netzwerk aus 33 Regionen



**Belgien:** Flanders, Wallonia

**Dänemark:** Süddänemark

**Deutschland:** Baden-Württemberg, Nordrhein-Westfalen, Sachsen

**Finnland:** Tampere

**Frankreich:** Auvergne – Rhône-Alpes, Pays de la Loire

**Italien:** Emilia-Romagna, Lombardei, Piemont, Südtirol, Trentino

**Niederlande:** Nordbrabant, Südholland, Gelderland

**Österreich:** Oberösterreich, Niederösterreich

**Polen:** Malopolska

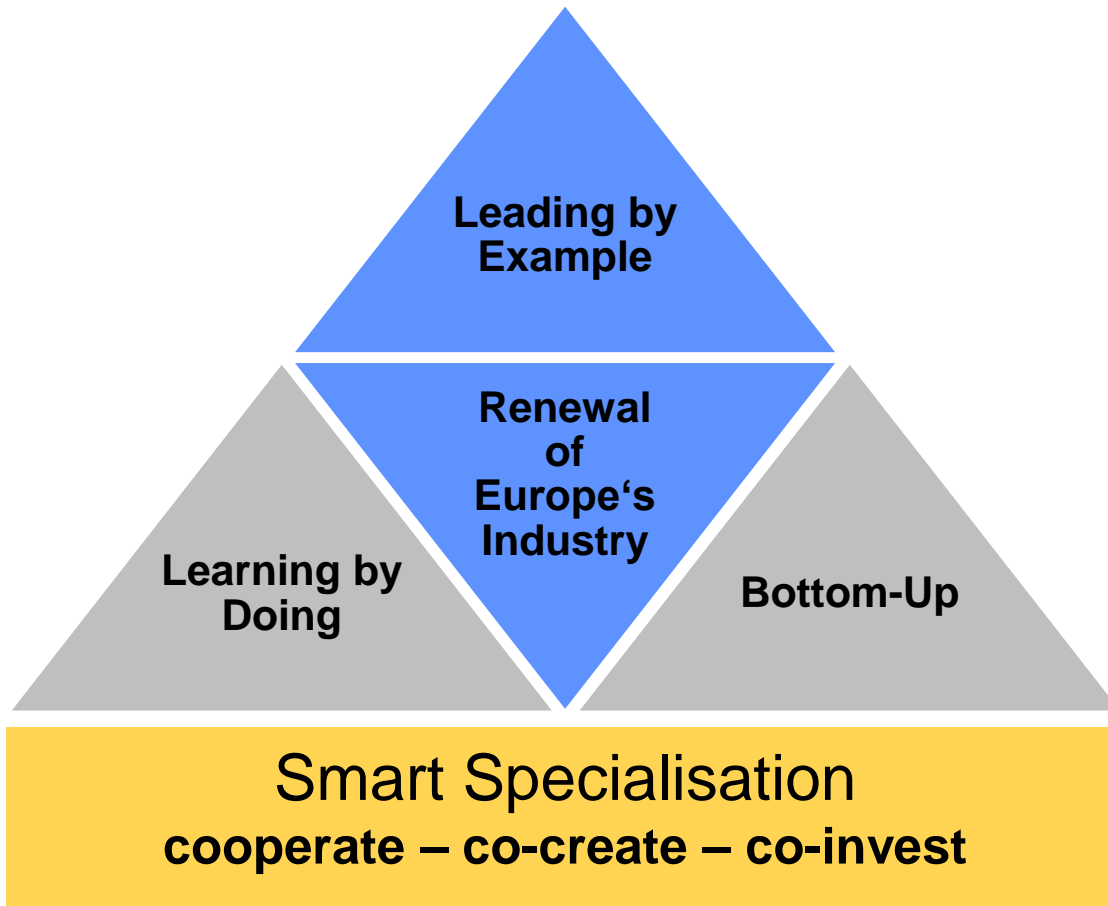
**Portugal:** Norte

**UK:** Schottland, Wales

**Schweden:** Dalarna, Örebro County, Skåne und Värmland

**Slowenien:** Ost und West Slowenien

## Initiative zur Stärkung der industriellen Produktion in Europa



### Political Leadership



**Industry-led  
Interregional Joint  
Demonstration**

# Pilot projects and demo cases

## **What**

To explore opportunities for developing interregional joint-demonstration and to test the VI-approach

## **Goal**

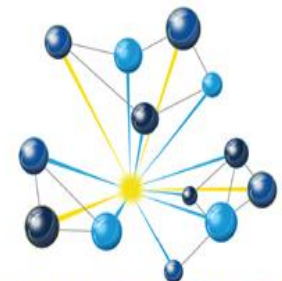
Accelerate market development for existing and emerging industries with competitive and high-value added products

## **How**

Within the pilot projects, several concrete demo cases are under development

## **Actors**

These demo cases are a cooperation between clusters, companies and knowledge institutes



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## Five Pilot Projects

	Pilot Project	Lead regions	Democases
1	Bio - economy Interregional cooperation on innovative use of non - food biomass	Lombardy Randstad Region	<ul style="list-style-type: none"> <li>• Biobased aromatics</li> <li>• Lignocellulose refinery: European value chains for second-generation sugar and lignin</li> <li>• Turning (waste)gas into value</li> <li>• Biogas beyond energy</li> <li>• Aviation biofuel</li> <li>• High value food and feed from agro-food waste</li> </ul>
2	Efficient and sustainable manufacturing	(Catalonia) Lombardy	<ul style="list-style-type: none"> <li>• De- and remanufacturing</li> <li>• Adaptive &amp; intelligent manufacturing</li> <li>• Advanced surface &amp; coating manufacturing</li> <li>• Digital and virtual manufacturing</li> <li>• Energy and environmentally efficient manufacturing</li> </ul>

## Five Pilot Projects

	Pilot Project	Lead regions	Democases
3	High performance production through 3D-printing	Flanders Norte South-Netherlands	<ul style="list-style-type: none"> <li>• Multi-materials components by hybrid 3D-printing manufacturing.</li> <li>• Metal products 3D-Printing for automotive components, tools and moulds for large (&gt;2500 mm), medium and small complex parts</li> <li>• Machine, tooling and complex parts</li> <li>• Additive subtractive high precision &amp; high finish pilot production hubs.</li> <li>• Customised consumer goods in creative industries</li> <li>• Adding a dimension to 2D-printed textiles</li> <li>• 3D-printing in health-care</li> <li>• 3D-printed smart bike</li> </ul>
4	Advanced manufacturing for energy - related applications in harsh environments	Basque Country Scotland	<ul style="list-style-type: none"> <li>• Real condition testing of new materials for offshore</li> <li>• Cost-effective power transfer</li> <li>• Optimised corrosion management – including modelling, sensing and design</li> </ul>

## Five Pilot Projects

	Pilot Project	Lead regions	Democases
5	New nano - enabled products	Skåne Tampere	<ul style="list-style-type: none"> <li>• Nano wires for ICT and energy applications</li> <li>• Manufacturing nano-enabled microsystems</li> <li>• Medtech</li> <li>• Printed nano-electronics: integrated energy harvesting/ cross-technology application platform</li> <li>• Industrial pilot production of nanomaterials establishing new value chains</li> </ul>



## Demo Cases

*Ziel: Industriegetriebene, multiregionale  
Demonstrationsplattformen*

*Methodologie:*



Quelle: Hannele Räikkönen,  
Tampere Region EU Office

*Technologiereifegrad:*

*TRL > 5!*

## Vorteile für beteiligte Unternehmen

- *Anregungen und Beratungen für eigene Innovationen*
- *Zugriff auf Kompetenzen und Innovations-Infrastrukturen in den beteiligten Regionen*
- *Prototypische Umsetzung der Innovation, Sammeln von Erfahrung vor der Umsetzung im Unternehmen*
- *frühzeitige Partizipationsmöglichkeit in EU-Projekten*
- *ggfs. Partizipationsmöglichkeit in weiteren nationalen und internationalen Forschungsprogrammen / -projekten*

# Kontakt

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