



VANGUARD BIOECONOMY PILOT: INTERREGIONAL COOPERATION ON INNOVATIVE USE OF NON-FOOD BIOMASS

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WHAT IS THE VANGUARD INITIATIVE?

- Member regions with strong political commitment
- To speed up the market uptake of new innovative technologies
- Collaboration between regional authorities, clusters, business, RTOs
- Exploring and facilitating public-private investment and co-funding possibilities
- Co-shape EU policy and agenda



MEMBER REGIONS

ASTURIAS - ES AUVERGNE - RHÔNE-ALPES - FR OBERÖSTERREICH - AT BADEN - WÜRTTEMBERG - DE CANTABRIA - ES CATALUNYA - ES EAST NETHERLANDS - NL EMILIA ROMAGNA - IT EUSKADI - ES GALICIA - ES LOMBARDIA - IT Małopolska - Pl. NAVARRA - F.S.

NORD-PAS DE CALAIS - FR

NORDRHEIN-WESTFALEN - DE

NORTE - ES OSTROBOTHNIA - FI Pays de la Loire - FR RANDSTAD REGION - NI REGION DALARNA - SE REGION SKÅNE - SE SAXONY - DF. SCOTLAND - UK SOUTH DENMARK - DK SOUTH-NETHERLANDS - NL TAMPERE REGION FI VLAANDEREN - BE WALLONIE - BE

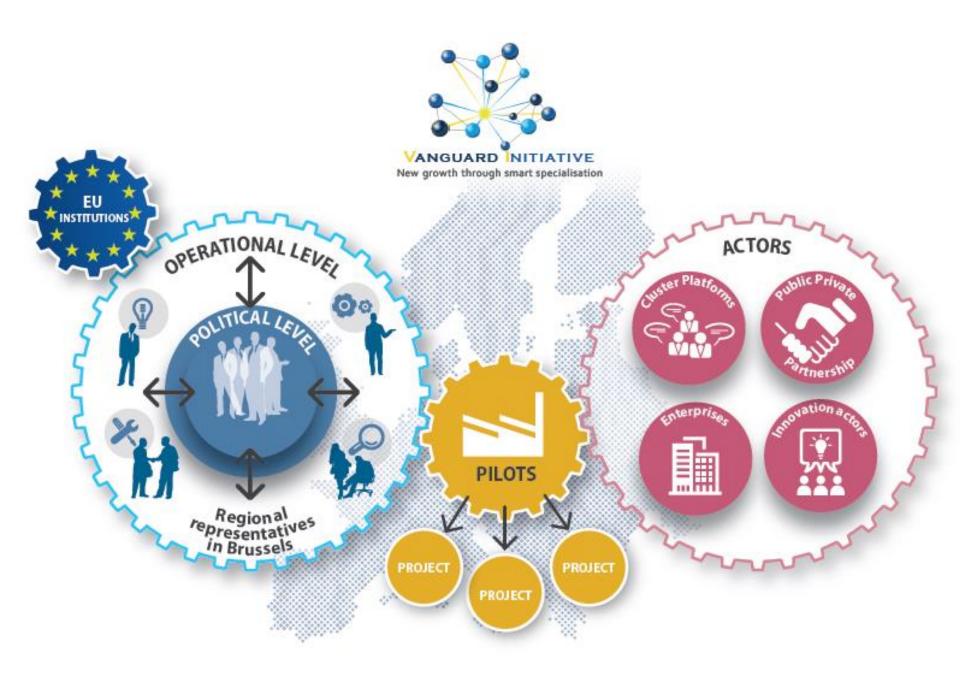




VANGUARD PILOTS: WHY & HOW

- Industry driven need to connect & upscale regional efforts to speed up market deployment, with focus on joint-demonstration
- Aim: developing cross-regional demonstration projects (Demo Cases) which are close to market (post-prototype level, TRL > 5)
- Leverage public-private partnerships for co-investment

1 - 3	4	5	6	7	8	9
Research		Pilot	Demonstration		Commercial	

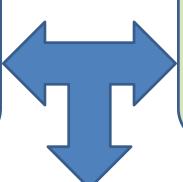




AN INNOVATIVE PUBLIC PRIVATE PARTNERSHIP

Regions

- Identify priority areas
- Coordinate policies
- Support through S3
- Leverage additional funding
- Invole other authorities



Industry

- Set innovation priorities
- Actively involved
- Design business cases
- Provide skills
- Commit resources

Demo cases

- Medium/high TRL
- New transregional value chains
- High impact
- Ambitious goals



BIOECONOMY PILOT DEMO CASES

Demo Case	Objective			
Biobased Aromatics	Joint Demonstration on Lignin Valorisation to Aromatics			
Lignocellulose Refinery	Production of chemicals and fuels from lignocellulose biomass			
Biogas Beyond Energy	Biogas production towards more and higher value added outputs			
(Waste) gas into Value	Use of industrial waste gases to produce chemicals via (syn)gas conversion			
Bio Aviation Fuel	Promoting larger scale aviation biofuel production			
Food & Feed from Agrofood Waste	Extracting functional foods and feed from different waste streams			
Food & Feed Ingredients from Algae	Production of food supplements/nutraceuticals and other pharma bioactive compounds from micro-algae			



LESSONS LEARNED SO FAR

- Two markets, different appeal
- Is the bioeconomy world ready for this exercise?
- Is the overall framework ready for the specific characteristics of the bioeconomy?
- Top/down, bottom/up: how to make it work?
- Do open networks get along with competitive ideas?
- How do we engage companies, overcoming their fears?



FURTHER INFORMATION & CONTACTS

VANGUARD INTERNET SITE: WWW.S3VANGUARDINITIATIVE.EU/

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