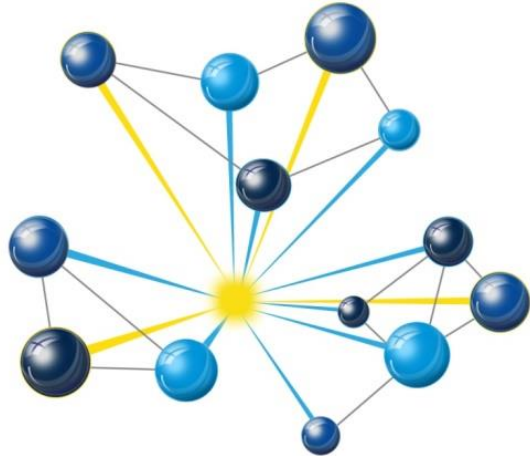


- **What are the needs of the industry in your region (also related to skills)?**



## VANGUARD INITIATIVE

New growth through smart specialisation

*Meeting DG Connect – Vanguard Initiative  
(Lead Regions 3DP & ESM Pilots)*

*Brussels, 13/10/2016*



# Vanguard: Background & Rationale



- ❑ Vanguard = co-ordinated effort of 30 EU-regions to better align regional specialization strategies (through ‘Smart Specialization Platforms’) towards ‘EU Industrial Renaissance’
- ❑ Focus on Advanced Manufacturing (ADMA) & KETS deployment
  - June 2014: 3 Pilot Actions
    - High Performance Productions with 3D Printing (South-NL, Flanders, Norte)
    - Efficient and Sustainable Manufacturing (Lombardy, Catalonia)
    - Energy Related Applications in Harsh Environments (Scotland, Basque Country)
  - June 2015: 2 new Pilot Actions
    - Innovative use of Bio-mass (South Holland / Lombardy)
    - New nano-enabled products (Skåne, Tampere)



## Rationale

- KETs = Medium to high Technology Readiness & High Market Potential
- But ... still fragmented / incomplete value chains + lack of visibility between supply & demand
- ➔ Need to connect & upscale regional efforts to speed up deployment, with focus on demonstration activities (>TRL5)
- ➔ **Objective** ➔ “to accelerate technology deployment in the EU through industry-led, transregional demonstration platforms”

# Industry requests



- How to integrate 3DP in my current production environment?
- How will 3DP interact with other equipment/processes in my manufacturing company?
- How can 3DP help reduce the number of components and/or process steps?
- How to certify the integration of the different 3DP additive-subtractive process steps?
- How to streamline & co-ordinate further research on the different 3DP additive-subtractive building blocks?
- How to efficiently organize a support infrastructure that enables
  - testing new technologies (piloting AND first production series)
  - a thorough understanding of what can be produced in mass
  - easy scale-up to other applications & markets
- How to best involve industrial experts to be able to calculate industrialization TCO's ?