S3 Platform on Industry Modernisation and Investment – Info Day 11 May 16

The Vanguard Initiative Experience

Wim De Kinderen
Brainport Eindhoven/South Netherlands
Rationale – starting point

- **November 2013**, start of a political engagement of regions for interregional cooperation in European strategic priority areas on the basis of smart specialization, exchange of good practices and alignment of roadmaps to achieve complementarities.

- **Focus** on an investment boost in demonstrators and pilots for deploying European lead-markets (such as KETs, bio-construction, clean vehicles, smart grids,…), supported by instruments at all policy levels.

- **Upgrading** regional clusters into world-class clusters through cross-border cooperation and networking in international value chains.
VI – network of 11 regions

- Basque Country
- Flanders
- Lombardy
- Malopolska
- North Rhine Westphalia
- Rhône Alpes
- Scotland
- Skane
- South East Netherlands
- Tampere Region
- Wallonia
VI – network of 30 regions

- Asturias
- Auvergne-Rhône Alpes
- Baden-Württemberg
- Basque Country
- Catalonia
- Dalarna
- East Netherlands
- Emilia-Romagna
- Flanders
- Galicia
- Hauts-de-France
- Île-de-France
- Lombardy
- Malopolska
- Navarre
- Norte
- North Rhine Westphalia
- Ostrobothnia
- Pays de la Loire
- Randstad Region
- Saxony
- Scotland
- Skane
- South Denmark
- South Netherlands
- Tampere Region
- Upper Austria
- Wales
- Wallonia
VI – network of many regions

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

❖ **Action oriented / lead-by-example** / Pilot new EC mechanisms (focus at the start: SSP Advanced Manufacturing)

❖ **3 ADMA Pilot Projects** / launched in Summer 2014 / +/- 40 regions participating
  • AM related Energy Applications in Harsh Environments (Scotland & Basque Country)
  • High Performance Production through 3D Printing (Flanders & South Netherlands & Norte)
  • Efficient and Sustainable Manufacturing (Lombardy & Catalonia)

❖ **2 new Pilot Projects launched in June 2015**
  • New Nano-enabled Products (Skane & Tampere)
  • Bio Economy (Randstad Region & Lombardy)

❖ **Accelerate** market development
  • cooperation projects between companies and knowledge institutes
  • European Network of Demonstrators
  • 4 validation criteria for DemoCases :
    • Demonstration !!! No research projects !!! = high ‘technology readiness level’ (>TRL5)
    • Added value of joint-demonstration:
      – no critical mass at regional level
      – access larger community of lead users
      – increase coverage and accelerate market uptake
  • Industrial relevance and Business involvement !!! (including committment of industry to lead/participate)
  • European dimension (geographical coverage & impact)
VI – Internal Structure

- **2 High Level Meetings per year** / Annual Political Meeting & Policy Directors Meeting

- **multi layered (Brussels based) activities**
  - Coordination Group
  - VI Network Meeting (members meeting)
  - 5 Task Groups: 1) Vanguard Pilot Monitoring; 2) Policy Influencing; 3) Financial Instruments; 4) Communication; 5) Future of VI

- **Pilot Projects**
  - Co-lead regions
  - Steering Group
  - DemoCase Leaders

- **organized structure in home region**
  - triple helix partners
  - innovation intermediaries

- **set-up of a legal entity (asbl)**
### VI – Methodology (4 step approach)

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<th>Step</th>
<th>Description</th>
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| learn | • developing a scoping paper  
• mapping questionnaire  
• Identify lead regions and actors |
| connect | • matching events for complementary partners  
• developing demonstration cases |
| demonstrate | • networked demonstration  
• pilot lines and first-of-a-kind factories (TRL6-8)  
• Generation ‘n’, ‘n+1’ and ‘n+2’ |
| commercialise | • launch of new ventures and start-ups  
• new value chains (TRL 9) |
VI – Cases Joint Demonstration

Product-driven demonstration (specific applications, products or processes)

Shared technology platform for joint-demonstration (common to various applications, products, domains, sectors)

Generic support, f.ex.:
- knowledge sharing/best practices
- matchmaking
- training
- certification

by connecting/upscaling
- demonstrate potential and validity
- disseminate ‘solutions’ and good industrial practices
- support emergence of standards

- mainly private funding
- competition, IPR
- closed, bilateral

- public-private €
- not open, but multilateral
- IPR agreements

- mainly public funding
- open

€
Demo-line 1 ‘Reducing weight in automotive, machinery and aerospace applications’ via 3D-Printed hybrid components

COMPANIES

DESIGN FOR MANUFACTURING

MANUFACTURE

TEST 1
Fatigue - durability

TEST 2
Crash

Product specification

Design specification

Raw materials, moulds
Combining funding opportunities for joint-demonstration

**Key issue:** how to fill the investment gap for the demonstration phases (Valley of death) without eroding/crowding out.

**Aim:** less grant dependence through financial engineering & combining H2020 - ESI Funds - regional funding - EFSI

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**Predictability / Funding Window**

- **Long-term funding / Financial predictability**
- **Short(er)-term funding, no (less) financial predictability**

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**Availability of interregional funding**

- **None**
- **Some**
- **Large**

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**Own Regional Funding Instruments**
- (innovation funding, vouchers, public investment banks etc)

- **ERDF (Regional OPs)**
  - ERDF - Art. 70 - Interreg

- **H2020 (grants)** (e.g. Innosup, FoF, Pilots etc)

- **EFSI / EIB ?** (InnovFin, e.g. Energy demo-projects?)
**Welcome! / major achievement**

- VI testing of SSP ADMA
- mainstreaming of 4-step methodology
- realization of core objective in Milan Declaration: structural dialogue with EU institutions

**« Structural Dialogue »**

- many project/activity based ad hoc contacts in the past and future (DGs REGIO, GROW, CONNECT, R&I, JRC-IPTS,...); large support from the start (f.ex. VI MatchMaking Event February 2016)
- structural dialogue to improve existing framework of support mechanisms and co-design new framework
  - finances (co-investment, public-private)
  - legal framework for joint demonstration projects
  - IPR framework
  - etc

**VI will continue to develop activities**

- VI is an open initiative
- finding new partners with added value
- participation in respect of VI conditions
  - good start but a lot of additional efforts to be done to cover and accommodate need within and beyond VI (Innosup-1, Re-Confirm)
  - “lengthy and sticky process” → Shared Funding Model, ie financial contribution by all participating regions
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Questions – Contact

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