

SUSTAINABLE ENERGY WEEK

13-17 June 2016



BUILDING THE ENERGY UNION TOGETHER



**SUSTAINABLE
ENERGY WEEK**

An initiative
of the

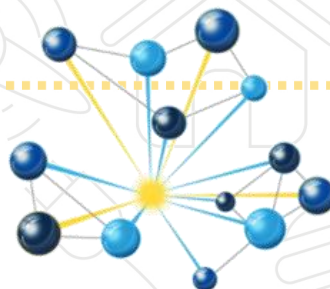


European
Commission

Advanced Manufacturing for Energy Applications in Harsh Environments



Stefan Milis



VANGUARD INITIATIVE
New growth through smart specialisation

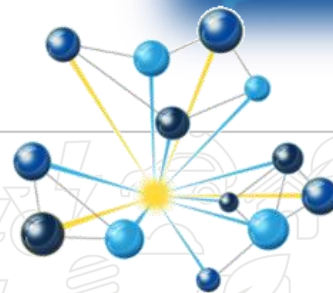
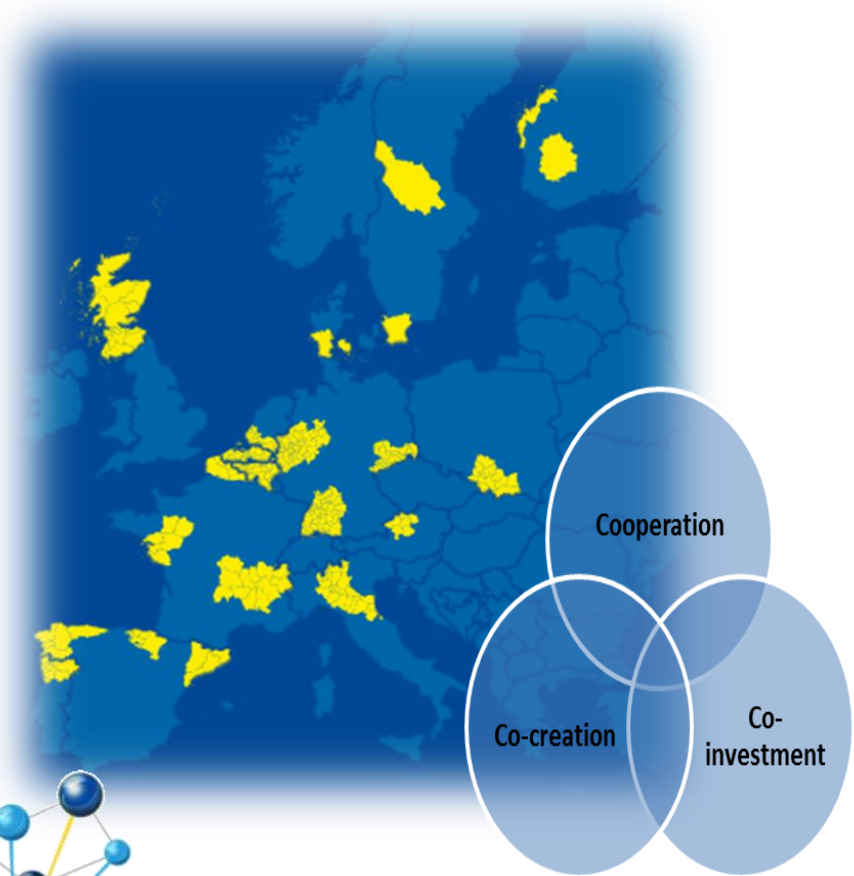


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Our Context: The Vanguard Initiative

- The **Vanguard Initiative** is a coalition of 30 European regions committed to boost the **growth of their companies**, based on technological development, **inter-regional cooperation**, bottom-up entrepreneurial innovation and industrial leadership.



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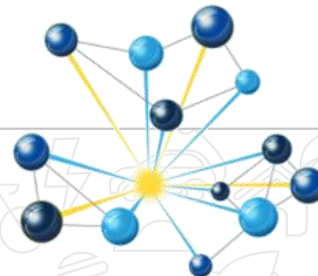
The ADMA Energy Pilot

- Seeking to make the EU the global leader in manufacturing robust high integrity components for **marine renewables and offshore energy applications**, strengthening supply chains and opening markets to SMEs
- 13 regions participating – energy a key element of RIS3
- Mapping Exercise to identify areas of mutual strength, capacity, challenges
- Pivotal companies identified
- Industry engagement under way
 - Workshop with 120 participants (Jan 27)
 - Engagement Growing
- Dynamic Economic Context
 - Constrained investment climate (e.g. in Offshore Renewables)
 - Impact of drop in Oil & Gas Price



Partner regions:

Basque Country, Scotland, Skåne (Swe), Ostrobothnia (Fin), Norte (Por), Dalarna (Swe), Lombardy (Ita), Flanders (Bel), Emilia-Romagna (Ita), Andalucía (Spa), South Denmark, Navarra (Spa), Asturias (Spa)



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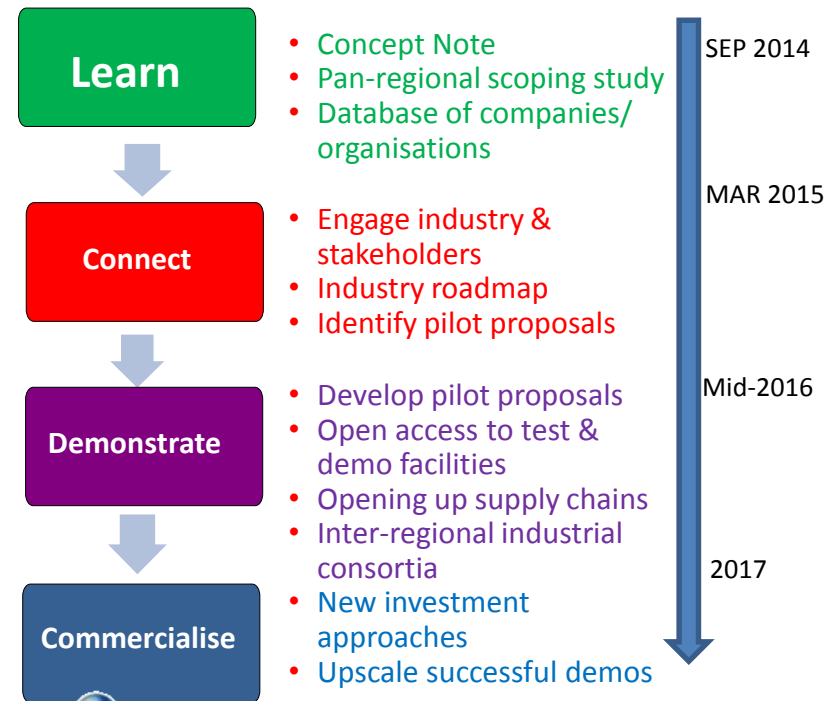
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The Vanguard Methodology

- Where we are on the Pilot Process:

Learn – Connect – Demonstrate – Commercialise

- Learn Phase : mapping study
- Learn (more) + (start to) Connect Phase:
 - Technology Roadmap
 - Workshop (27/01/16)
 - Match-Making Event (25/02/16)



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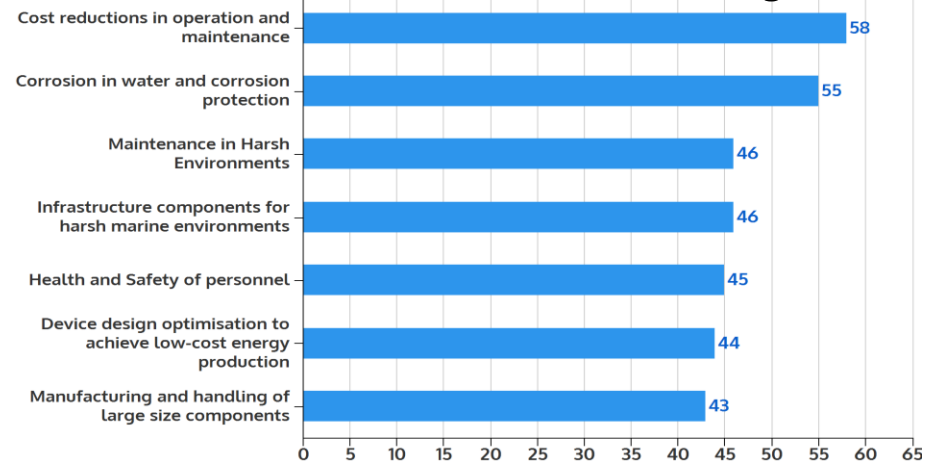
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Progress

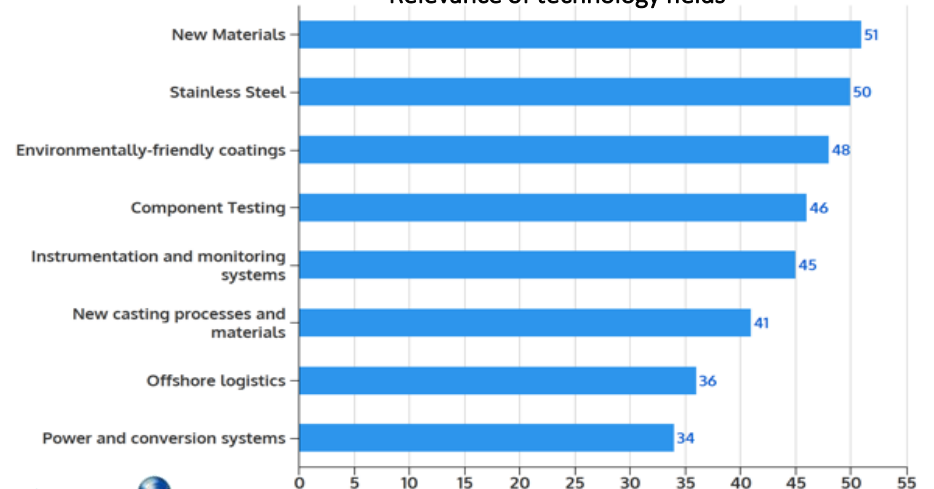
LEARN Phase → CONNECT Phase

- **6 communities** of industrial challenges and technology fields established:
 - *Cost reductions in harsh environments*
 - *Corrosion in water*
 - *Advanced Manufacturing Processes*
 - *Composites, New Materials and Materials Testing*
 - *Power Transfer and Conversion*
 - *Sensing, Instrumentation and Monitoring*
- **Regional Leads** established for each community
 - *Significant input from industry experts*
- **Industry Workshop** in Brussels on Jan 27 , to bring together companies, intermediaries, specialists)
 - 120 attendees, including 80 from industry

Relevance of industrial challenges



Relevance of technology fields



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Next steps

Opportunities for connection

- Finalisation of the ADMA Energy Roadmap (end March)
 - *Define key opportunities/challenges*
 - *Generate ideas (and synergies)*
 - *Encourage industry involvement*
- Take forward actions through the six Communities
 - Actions to address key opportunities and challenges
 - Development of *Demonstration Cases*
 - Move into *industry-led Collaboration* across international value-chains
- Scope out the role and purpose of an **Industrial Leadership Committee**
 - *Understand demand from industry*

Connect


- Follow up to the 2 events
- Completion (and write-up) of the Roadmapping exercise
- Working up actions through the 6 “Communities”
- Developing an Industry Leadership Committee



Demonstrate

- Defining “Demo Cases”
- Building Industry Engagement, including through value-chains
- Investment/Funding, Policy Challenges





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