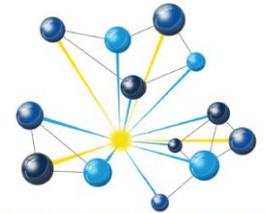


Vanguard Initiative

EARTO Innovation School
14 January 2019

Contact:
Michael Johnsson
Deputy Director– Skåne European Office
Board Member Vanguard Initiative
Michael.Johnsson@skane.eu

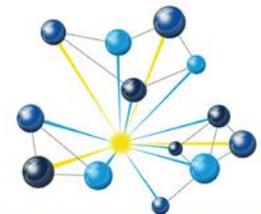
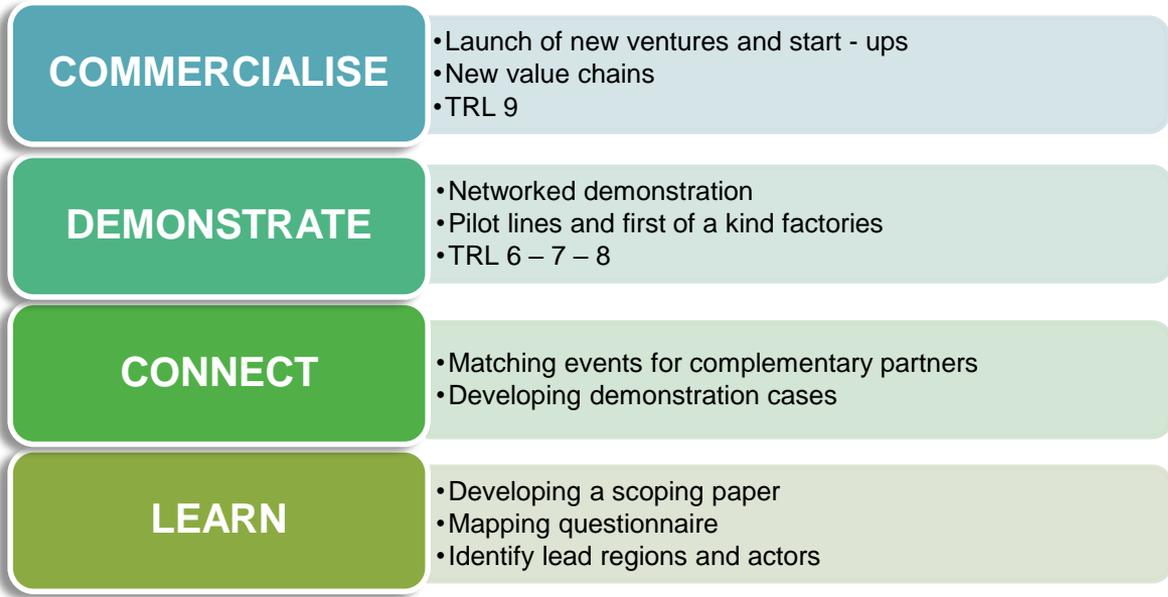
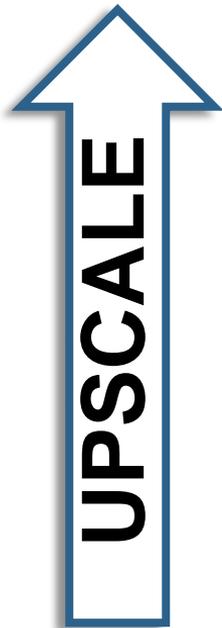


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Structure of the Vanguard Initiative



Methodology of the Pilot Projects



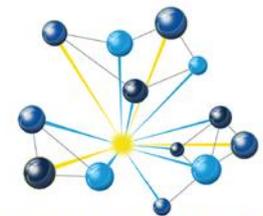
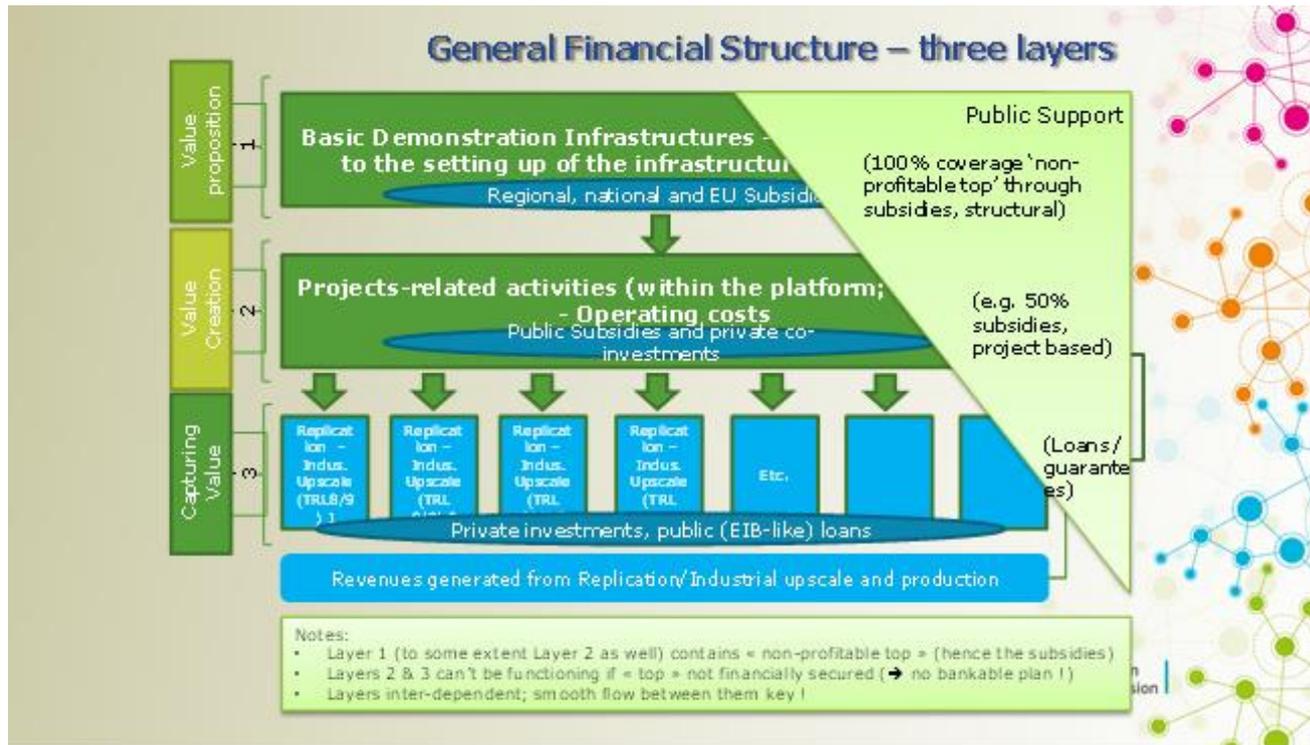
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Current pilot projects and demo cases

3D-printing	Advanced Manufacturing for Energy-Related Applications in Harsh Environments	Efficient and Sustainable Manufacturing	Bioeconomy	New Nano-enabled Products
3D printed hybrid component	Corrosion	De-and Remanufacturing	Lignocellulose biorefinery	Nanowires for ICT and energy applications
Additive Subtractive Platform High Precision & High Finish Production	Manufacture of large-scale components	Adaptive and intelligent assembly and manufacturing systems	Bio-aromatics	Nano enabled Micro System for Bio Analysis (NeMs4Bio)
3D printed automotive components for large, medium, and small complex parts	Operations and Maintenance	Advanced Sustainable Surface and Coating Manufacturing Technologies on Polymers	LNG Blue Corridors	Nano Enabled Printed Electronics
Machinery, tooling and complex shapes	Sensing and Instrumentation	Digital and Virtual Factory integrating planning and stimulation into operative environments		
3D-Printed Customized Components for Orthosis, Exoskeleton and Exoprosthesis		Energy-Flexible and resource-efficient factory operation		



Vanguard Pilot Monitoring (VPM) – Three Layer Model



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HybrAM – Additive Manufacturing for metal and hybrid components (CFRP)



ÖREBRO
UNIVERSITY



Swedish research
team led by
Prof. Lars Pejryd



BOFORS TEST CENTER



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

Italian research
team
led by
Prof. Luca Tomesani



Ferrari



ALFRED NOBEL
SCIENCE PARK



Central Sweden är Dalarnas, Gävleborgs och Örebro läns förlängda arm i EU.

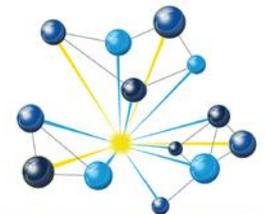


Vanguard Initiative

Based on complementary smart specialisations Vanguard Initiative aims to :

1. develop thematic roadmaps to build innovative industrial value chains across Europe, with a key role for interregional networks of demonstration and pilot infrastructures.
2. create open access for SMEs to those interregional demonstration and pilot infrastructures.
3. support facilitation and acceleration of bringing innovative solutions to the market.

in order to enhance Europe's competitive position



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3D-printing



Bio-economy



ADMA-Energy

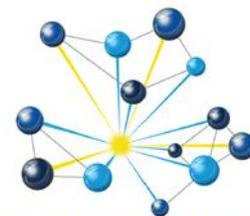


Nano-
technology



Efficient and
sustainable
manufacturing

UPSCALE



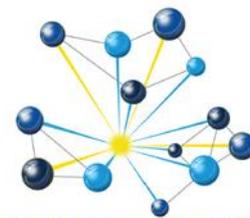
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THANK YOU

Michael.Johnsson@skane.eu



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