



VANGUARD INITIATIVE
New growth through smart specialisation

Efficient and Sustainable Manufacturing

A Vanguard Initiative Pilot Project

Vision

The Vanguard Initiative Efficient and Sustainable Manufacturing (ESM) Pilot project addresses the development of a European network of pilot plants in the area of manufacturing efficiency and sustainability. It is aimed at sustaining the competitiveness of the European Manufacturing sector, by allowing the exploitation in Europe of innovative efficient technologies, methods, processes and standards in production, contributing to pollution and energy consumption reduction and facilitating smart usage of resources.

What's in it for me?

The ambition of the ESM pilot plants will be to address multiple enabling technologies in a systemic perspective, making available an infrastructure that is currently not existing, due to its complexity and to the high innovation level of the industrial applications for which it is conceived. These pilots will be open to companies, constituting a neutral and cooperative playground for cross-sectorial and interregional collaboration, facilitating the access to state of the art and newest process technologies to all European manufacturing environment.



Democases currently under development

- De- and Remanufacturing to recover and re-use functions and materials from End-Of-Life products
- Adaptive and intelligent manufacturing and assembly for personalised products and components

- Advanced Sustainable Surface and Coating Manufacturing Technologies on Polymer materials
- Digital and Virtual Factory integrating planning and simulation into operative environment
- Energy and Environmentally-efficient Manufacturing processes and solutions

pilot projects are:

- Advanced Manufacturing for Energy Applications in harsh environments
- Bioeconomy - Interregional cooperation on innovative use of non-food Biomass
- High Production through 3D-Printing
- New Nano-enabled products



Vanguard Initiative

Vanguard Initiative is a European network of industrial regions that seeks to speed up the market uptake of new technologies through the establishment of industry-led, cross regional joint-demonstration platforms. The network has initiated five thematic pilot projects to explore opportunities for developing interregional joint-demonstration.

Besides the pilot project on Efficient and Sustainable Manufacturing, the other four

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