



# Intelligent Manufacturing Cluster



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# MISSION & NUMBERS



AFIL facilitates R&I in manufacturing sector promoting best practices and enabling technologies in order to support and develop Lombardy production system leadership and competitiveness.



138  
MEMBERS



115  
COMPANIES



13  
UNIVERSITIES/  
RESEARCH CENTERS



10  
INDUSTRIAL  
ASSOCIATIONS





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# THEMATIC WORKING GROUPS



# AFIL WORKING GROUPS



**De- and  
Remanufacturing**  
*(Circular Economy)*



**Adaptive and  
smart  
manufacturing  
systems**



**Additive  
Manufacturing**



**Sustainable  
Material and  
Surface Treatment**

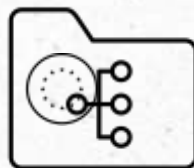


**Digital and Virtual  
Factory**



*Coming soon*  
**Energy Efficiency**





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# ONGOING EUROPEAN PROJECTS

ENTERPRISES





# Interreg



EUROPEAN UNION

**S34Growth**  
Interreg Europe



European Union  
European Regional  
Development Fund

**Interreg**  
Mediterranean



**Interreg**  
CENTRAL EUROPE



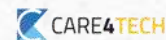
European Union  
European Regional  
Development Fund

**3DCentral**

**Interreg**  
Alpine Space



EUROPEAN UNION



**SMART-SPACE**  
EUROPEAN REGIONAL DEVELOPMENT FUND

**BE in CPPS**

Regional Manufacturing Digital Innovation Hubs  
LOMBARDY



**SCREEN**

**ERICA**

**HORIZON 2020**



**European Commission**  
Unit GROW F2 – Clusters,  
Social Economy and  
Entrepreneurship



<b>DIH</b> Digital Innovation Hubs	CC Competence Centres
Cloud-based HPC Simulation	Laser
<b>Sensors, CPS, IoT</b>	Robotics
<b>x</b>	Clear filter





# VANGUARD PILOT NETWORKS

ENTERPRISES







# VANGUARD INITIATIVE

NEW GROWTH THROUGH SMART SPECIALISATION



**Vanguard  
Coordination  
Board**

Vanguard Pilot  
Monitoring

**Pilot Plants  
Network  
Level**

Nano Enabled  
Products

**High Performance  
Production  
through 3D  
Printing**

**Efficient &  
Sustainable  
Manufacturing**

Energy Applications

Bioeconomy

**Demo Case  
Level**

- Automotive 1
- Automotive 2
- Machinery & Tooling
- AM-Subtractive Platform
- Creative Industries
- Textiles
- 3DP Smart Bike
- Healthcare

- De- and Remanufacturing**
- Digital and Virtual Factory**
- Adaptive and Intelligent  
Manufacturing**
- Manufacturing of Advanced  
components and materials**
- Efficient Manufacturing process





# CEN4.0

C E N T O 4 P U N T O 0 . I T

## “Cento4.0: The excellence of manufacturing in Lombardy”

The initiative, led by AFIL, is meant to identify the most relevant Industry 4.0 cases in Lombardy and there will be final award for the most innovative companies.





## The objectives

- Identification of **real and tangible applications of Industry 4.0** among local SMEs and large enterprises.
- **Increase awareness** among local actors on the concept of Industry 4.0
- **Sharing best practices** among local (and even interregional) actors
- Promote the **identification of synergies** among local actors





Lombardia  
[www.afil.it](http://www.afil.it)

