Lombardy Intelligent Factory Association

Regione Lombardia
Cluster Tecnologici Lombardi

fabbrica intelligente®
Socio Ordinario

AFIL in a nutshell

AFIL – Lombardy Intelligent Factory Association is the technological cluster focused on Advanced Manufacturing in Lombardy Region.

2013
Foundation

2014
Recognized as Lombardy
Technological Cluster

2015
Private Association

139 MEMBERS

114 Industrial Companies (68% SMEs)

13 RTOs and Universities

12 Industrial Associations

MISSION

Creation and animation of Strategic Communities

Reference counterpart of Lombardy Region for the definition of R&I policies in the manufacturing industry

Participation in R&I interregional networks

Animation of the regional ecosystem

Creation and animation of Strategic Communities of stakeholders focused on priority topics, favoring cooperation and promoting research and innovation projects and initiatives among its members.

- De- and Remanufacturing for Circular Economy
- Digital and Intelligent Factory
- Additive Manufacturing
- Secure and Sustainable food manufacturing

Strategic Communities

- Elaboration of Roadmaps
- Dialogue with Lombardy Region
- Interregional projects opportunities
- International events
- Meeting delegations
- AMHUB running

Partnership with Lombardy Region

Reference counterpart of Lombardy Region for the definition of R&I policies in the manufacturing industry through the elaboration of Roadmap documents on strategic topics (i.e. Circular Economy, Artificial Intelligence).
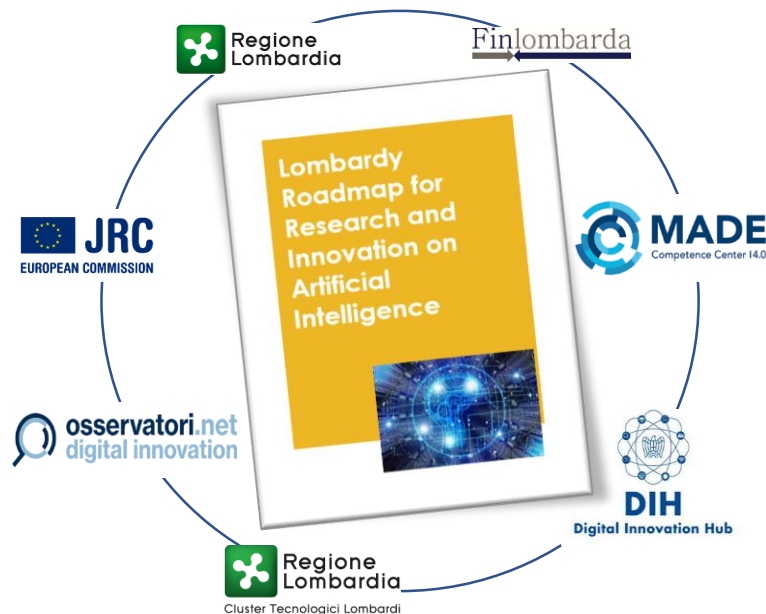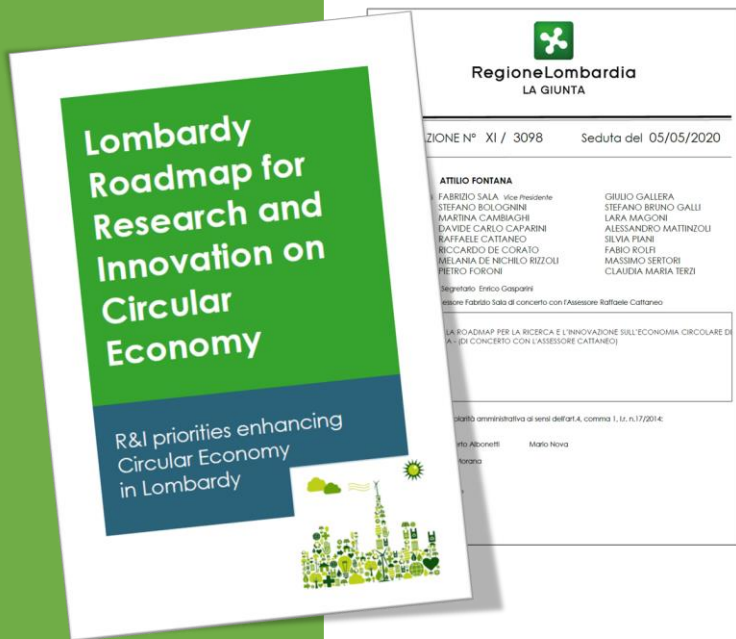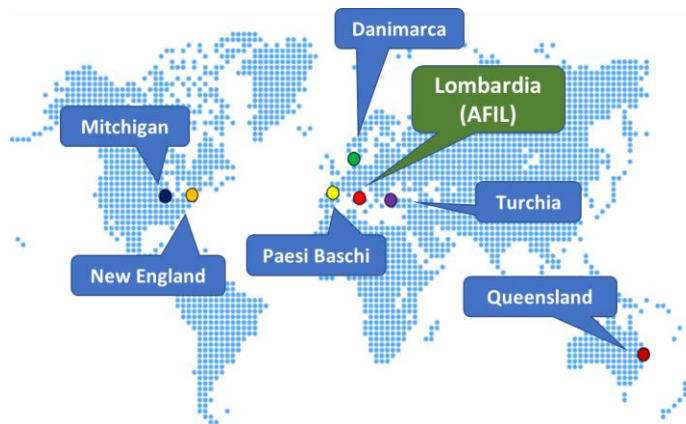
European and International networks

Participation in R&I interregional networks to foster the involvement of regional stakeholders in European and National innovation ecosystem, generating and capitalizing emerging opportunities at interregional level.
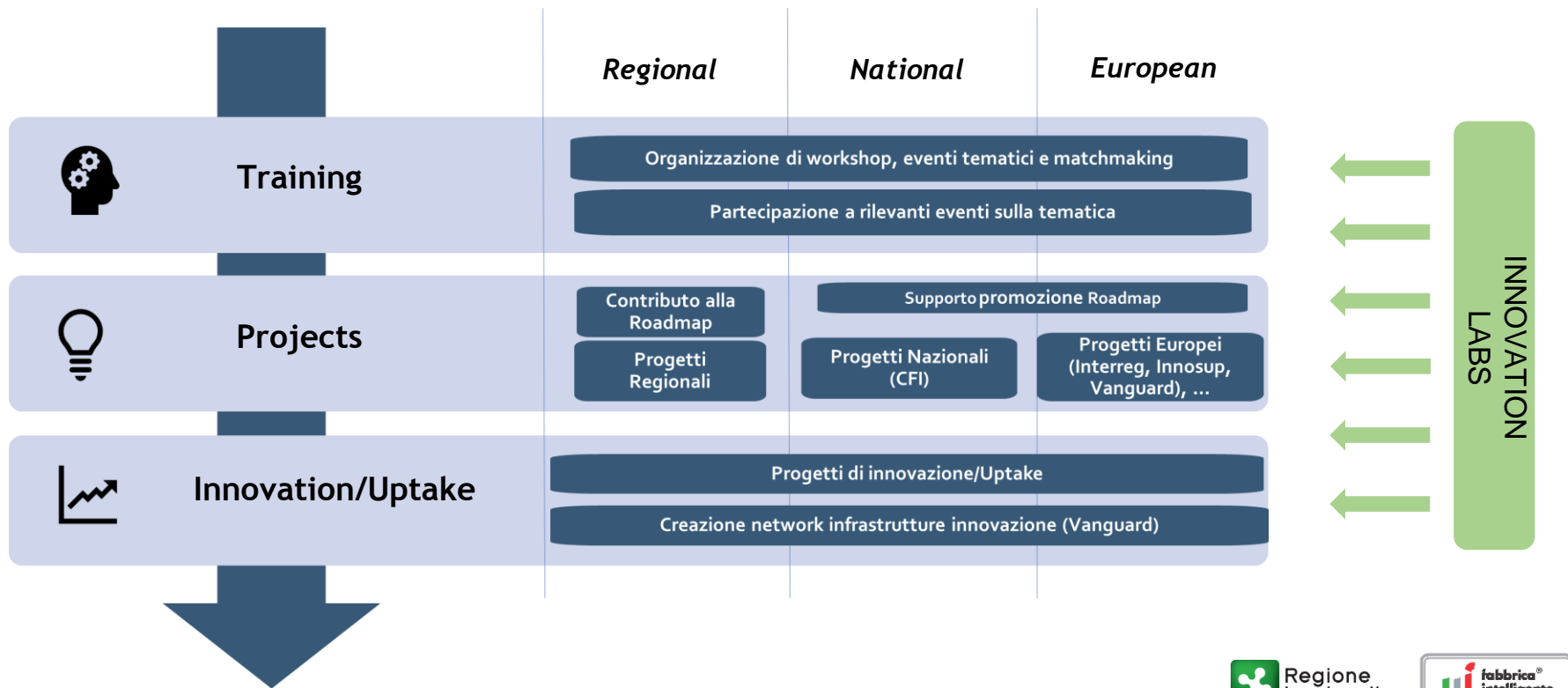

Advanced Manufacturing Hub Lombardia

The Strategic Communities

Groups of stakeholders working on specific challenges for the Advanced Manufacturing

	Regional	*National*	*European*
Training	Organizzazione di workshop, eventi tematici e matchmaking		
	Partecipazione a rilevanti eventi sulla tematica		
Projects	Contributo alla Roadmap	Supporto promozione Roadmap	
	Progetti Regionali	Progetti Nazionali (CFI)	Progetti Europei (Interreg, Innosup, Vanguard), …
Innovation/Uptake	Progetti di innovazione/Uptake		
	Creazione network infrastrutture innovazione (Vanguard)		

INNOVATION LABS

21 Ottobre 2020

Regione Lombardia
Cluster Tecnologici Lombardi

fabbrica® intelligente
Socio Ordinario

AFIL Innovation Labs

- 09/03/2020 **– Virtual and Augmented Reality**
- 23/03/2020 – **Vision Systems** for manufacturing
- 09/04/ 2020 –**Circular economy of composite materials**
- 27/04/2020 – **Strategic Community building** "Secure and Sustainable Food Manufacturing»
- 20/05/2020 – **Digital Twins** for machine tools
- 05/06/2020 – **Roadmap Artificial Intelligence**
- 22/06/2019 – **Working group"Secure and Sustainable Food Manufacturing"**
- 06/07/2020 – **Roadmap AI: focus group Machinery**
- 02/10/2020 – **Circular Economy in textile industry**
- 29/10/2020 – **Vision systems of agri-food products**

Events at Lombardy Region premises

Beyond White Goods

Scenari, prospettive e priorità di innovazione in Lombardia

22 Novembre 2019, ore 9.30
Palazzo Pirelli, via Fabio Filzi 22 (MI)

Haier Europe
CANDY Hoover Haier

Whirlpool CORPORATION

Regione Lombardia
Cluster Tecnologici Lombardi

fabbrica® intelligente
Socio Ordinario

Strategic Communities Projects

FiberEUse -Large scale demonstration of new **circular economy value-chains** based on the reuse of end-of-life fiber **reinforced composites**

SCREEN - Synergic Circular Economy across European Regions

DIGIPRIME - Digital Platform for Circular Economy in Cross-sectorial Sustainable Value Networks

CarE-Service - Circular Economy oriented services for **re-use and remanufacturing of hybrid and electric vehicles** components through smart and movable modules

Circular Economy – H2020

Additive Manufacturing – POR-FESR

MADE4LO – Metal Additive for Lombardy

BE in CPPS

BEinCPPS - Business Experiments in Cyber Physical Production Systems

AI REGIO - Regions and DIHs alliance for AI-driven digital transformation of European Manufacturing SMEs

Artificial Intelligence – H2020

Artificial Intelligence – POR-FESR

SMARTCPPS - Smart Solutions for Cyber Physical Production Systems

WATCHMAN– Workload-reduction mAchine vision-based TeChnology Hub for MANufacturing

Additive Manufacturing Working Group

- ✓ *Materials and processes for additive manufacturing*: fiber polymeric and composite materials, metals, ceramic materials.
- ✓ *Process optimization* for Molten Filament Deposition, Stereolithography, Digital Light Processing, Selective Laser Melting, Electron Beam Melting, Direct Energy Deposition of metallic materials in powder and wire
- ✓ *Zero-defect additive manufacturing*.
- ✓ *New powder bed solutions and new industrial robotic systems*.

VANGUARD INITIATIVE
New growth through smart specialisation

High Performance Production through 3D- Printing

MADE4LO - Metal Additive for Lombardy

21 Ottobre 2020

UNIONE EUROPEA
Fondo europeo di sviluppo regionale

Regione Lombardia

fesr

AM Strategic Communitiy
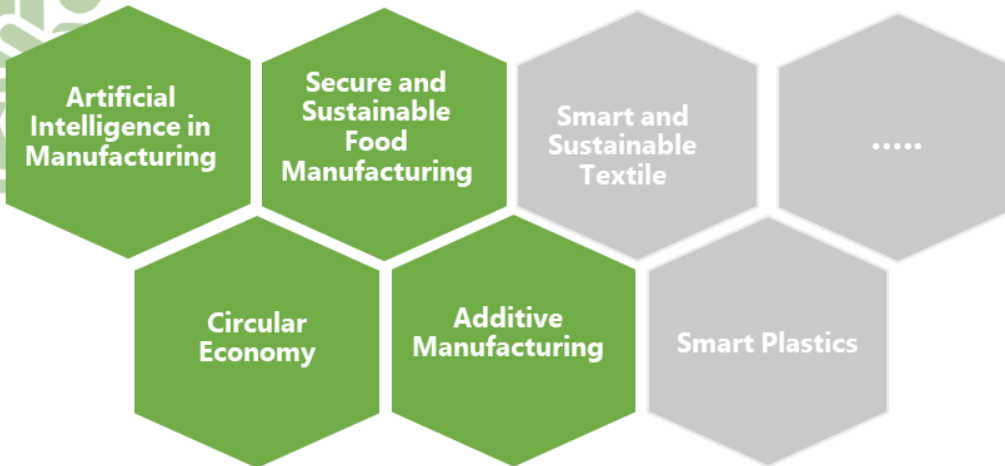
- ✓ **The Strategic Community is now under definition**
- ✓ **Open to all regional stakeholders**

- ✓ Webinars to define the specific focus of the community
- ✓ Definition of the regional priorities in the field of Additive Manufacturing

Thanks for your attention

21 Ottobre 2020