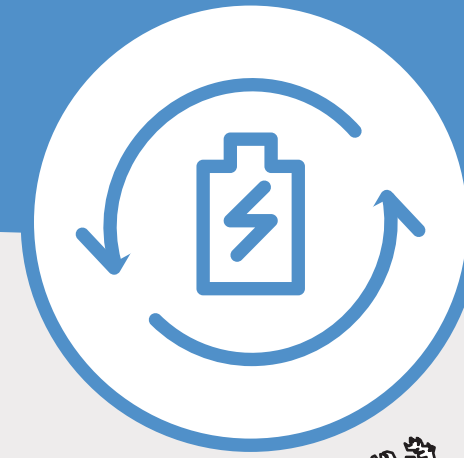


Interregional partnership for Smart Specialisation on **EFFICIENT AND SUSTAINABLE MANUFACTURING**

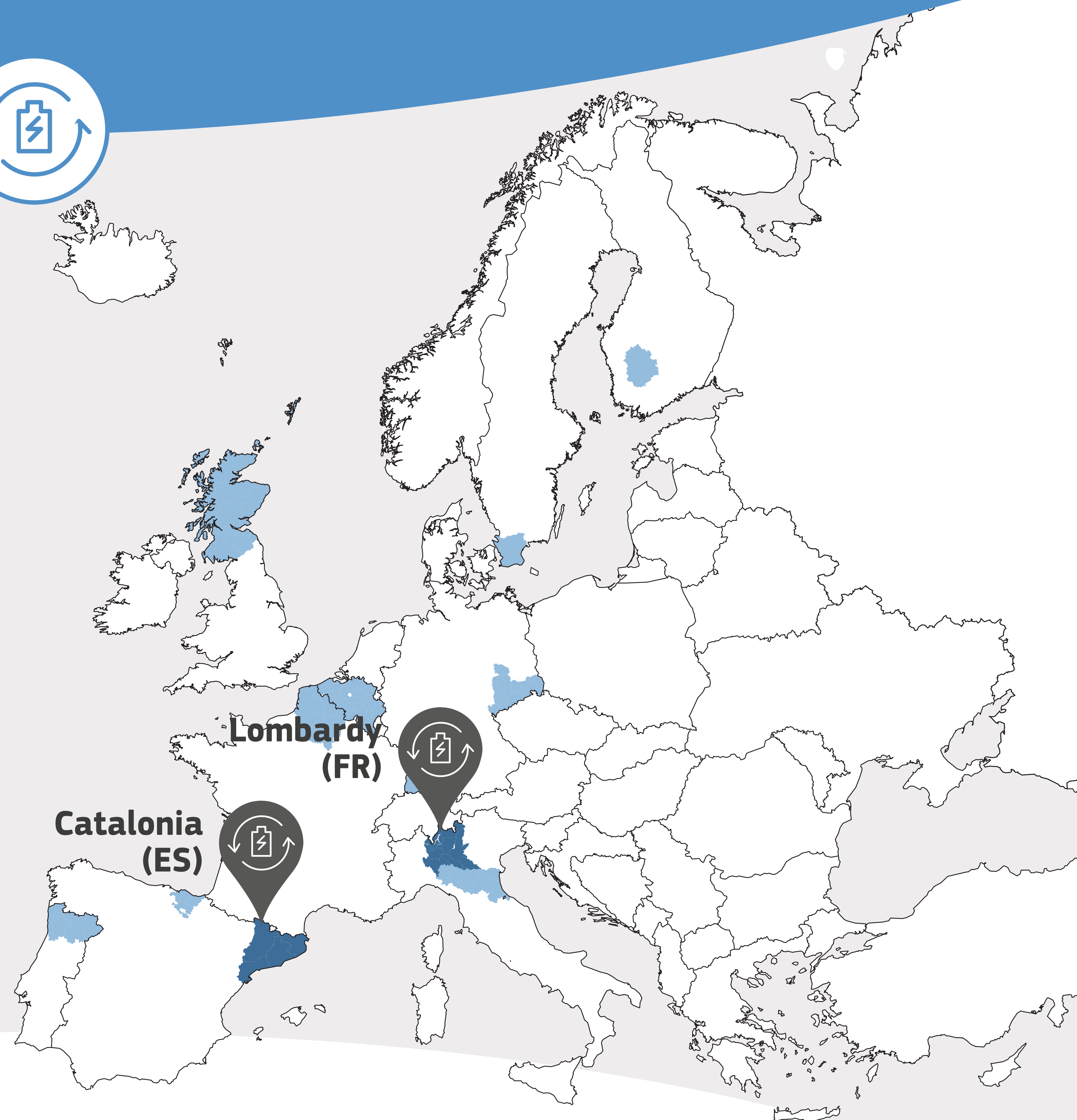


Leaders

Led by **Lombardy** (IT), and **Catalonia** (ES), the partnership engages the participation of

20 REGIONS

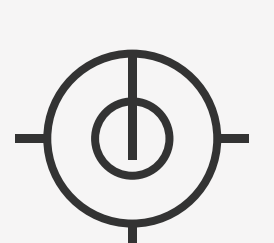
The aim of the partnership is to create an integrated network of European demo-sites and pilot plants supporting the uptake of advanced technologies boosting manufacturing efficiency and sustainability.



Reference topics

The partnership addresses manufacturing challenges transversal to multiple sectors. Relevant industrial use cases for pilot plants applications are identified at regional level according to smart specialisation priorities.

- 1 De- and Remanufacturing**
Technologies and business models for circular economy to re-use, remanufacture and recycle products and materials in all sectors
- 2 Functional polymers**
Advanced sustainable surface and material technologies for functional polymer components in various applications
- 3 Smart and Adaptive manufacturing**
Reconfigurable and intelligent manufacturing systems for the production of customised/ personalised products and components
- 4 Digital and virtual factory**
Industry 4.0 technologies applied in manufacturing environments to realise high performing and human-centred digital/ virtual factories
- 5 Energy- and resource-efficient factory**
Technologies and methods to optimise energy/materials consumption in manufacturing processes and to achieve emission-neutral factories



Key factors

Pilot planning is needed in order to support companies –especially SMEs– in the uptake of state-of-the-art technologies for the global competitiveness of EU industry and societal challenges

The partnership participates to the “ESM Pilot” of the Vanguard initiative and includes about 100 stakeholders from 20 Regions

Industrial leadership: thematic areas are defined with bottom-up approach by committed industrial stakeholders that identify inter-regional cooperation opportunities

Openness: the partnership is open to new regions and stakeholders that may propose complementary topics and industrial use cases (in the frame of Vanguard quality criteria)

