

EMERGING ENABLING TECHNOLOGIES

THE ITALIAN LANDSCAPE

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INITIATIVES IN ITALY

- a) Italian National Research Program (2015-2020);**
- b) Smart Specialization Strategies that have enhanced local entrepreneurship (2016);**
- c) National Plan on «Sustainable Growth» (2016);**
- d) National Plan “Industry 4.0” (2017).**

KETS	Industrial Biotechnologies	Nanotechnologies	Micro and nanoelectronics	Photonics	Advanced Materials	Advanced manufacturing	ICT
Industrial Biotechnologies	Highly Related	Not related	Not related	Not related	Not related	Highly Related	Not related
Plant and Instruments	Not related	Not related	Highly Related	Related	Highly Related	Highly Related	Highly Related
Precision Agriculture	Highly Related	Not related	Related	Not related	Not related	Related	Related
Quality	Highly Related	Not related	Related	Not related	Not related	Related	Not related
Sustainable Processes	Not related	Related	Related	Not related	Not related	Highly Related	Related



Not related

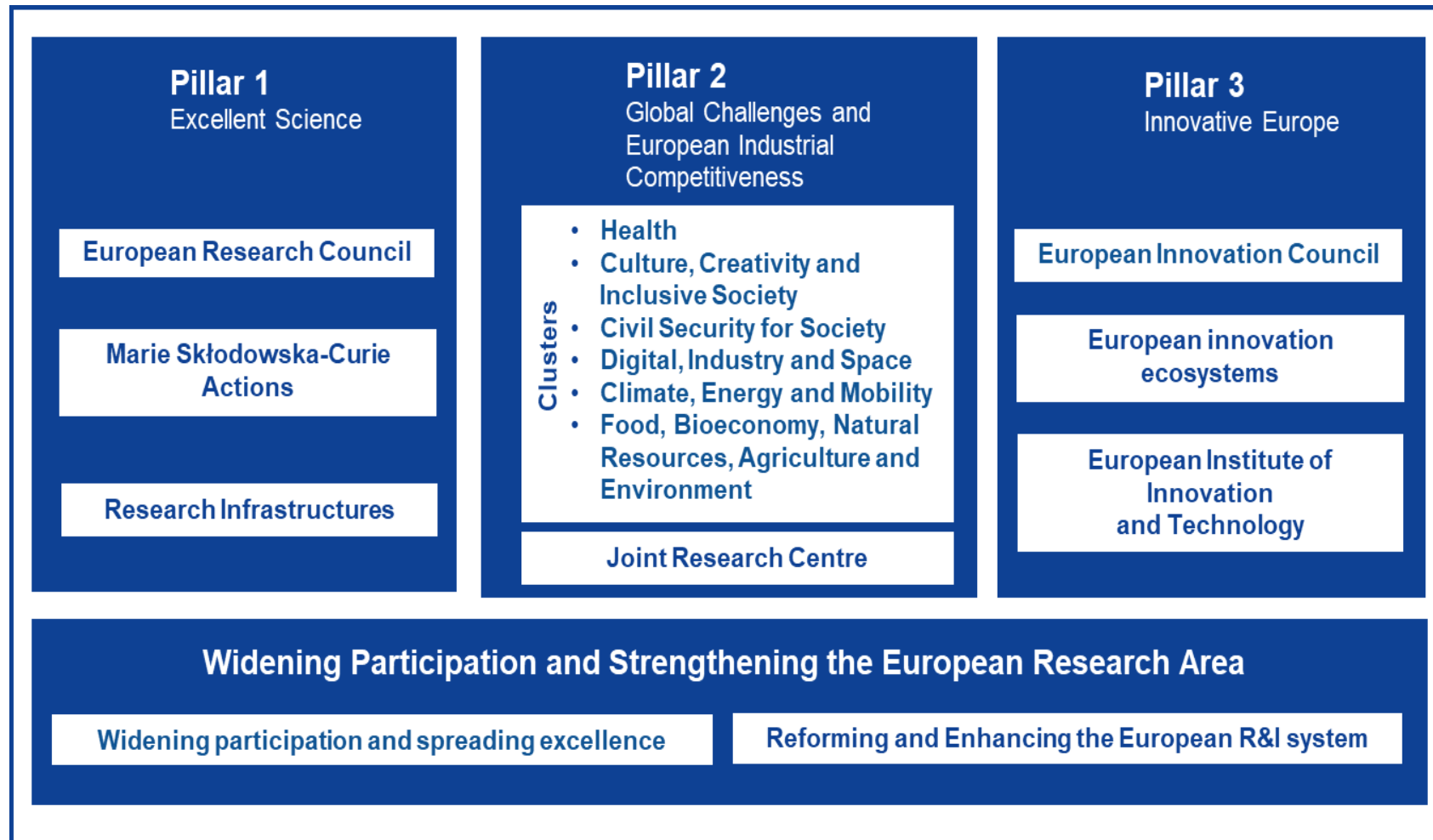
Related

Highly Related

**Main Goals
in
Transportation Area**

	Nanotechnology	Advanced Materials	Bio-technology	Advanced Manufacturing	ICT
Security				•	•
Environmental Sustainability	•	•	•		
Energy Efficiency		•	•	•	•
Connettivity				•	•
Comfort		•		•	•
Product life-cycle		•		•	
Infrastructures and logistic				•	•

MANUFACTURING	N° Companies	Productivity
- COMPANIES NOT SUSTAINABLE	202.854	Benchmark
- COMPANIES SLIGHTLY SUSTAINABLE	58.180	+ 4,5%
- COMPANIES AVERAGE SUSTAINABLE	58.568	+ 7,9%
- COMPANIES HIGHLY SUSTAINABLE	68.264	+ 10,2%



THE VISION: a European industry with global leadership in key areas, fully respecting planetary boundaries and resonant with societal needs

SUSTAINABILITY MEANING FOR A COMPANY

- BE AWARE OF THE IMPACT OF ITS ACTIVITIES
- MAKE A RESPONSIBLE USE OF SIX FORMS OF CAPITAL

➤ NATURAL CAPITAL

- ❖ *provides resources to productive activity of the Company*
- ❖ *guarantees the disposal of waste generated by this activity*

➤ HUMAN CAPITAL

- ❖ *knowledge, skills and abilities possessed by employees that allow them to carry out business activities efficiently and effectively*

➤ INTELLECTUAL CAPITAL

- ❖ *patents, technologies, know-how, information on customers and suppliers that contribute to the creation of value in the Company*

➤ MANUFACTURED CAPITAL

- ❖ *tangible assets which, together with intangible assets, contribute to the creation of value in the Company*

➤ SOCIAL CAPITAL

- ❖ *the relationship system of the Company with the stakeholders including its own employees.*

➤ FINANCIAL CAPITAL

- ❖ *provides the Company with the financial resources necessary for the needs of the business*

- ❖ **A more flexible and dynamic eco-innovation system**
- ❖ **Improved public-private cooperation (reducing fragmentation)**
- ❖ **Technology transfer (improving exploitation of research results)**
- ❖ **Participation of SMEs to HE and national programmes**
- ❖ **Improve access to (R&I) finance**
- ❖ **Availability of venture capital**
- ❖ **Research infrastructures for easy access to competences and equipments,**
- ❖ **Research evaluation/careers of young researchers**