







IL PNRR PER LA DIGITALIZZAZIONE DEL PAESE 24 maggio 2023

Stakeholder management e identità di territorio: le chiavi per una innovazione efficace e sostenibile

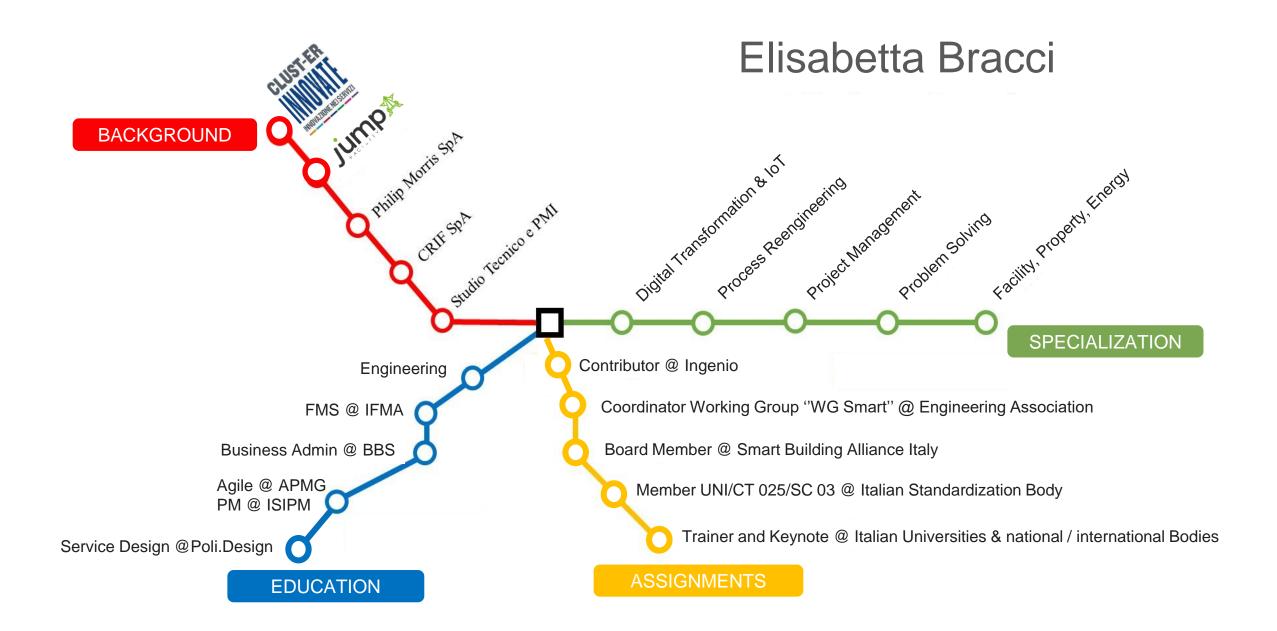
Dott. Ing. Elisabetta Bracci Manager Clust-ER Innovate Regione Emilia-Romagna



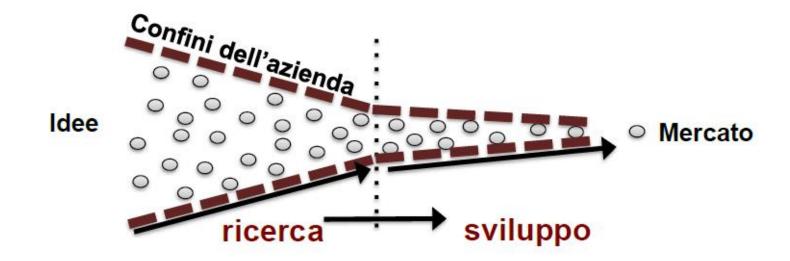




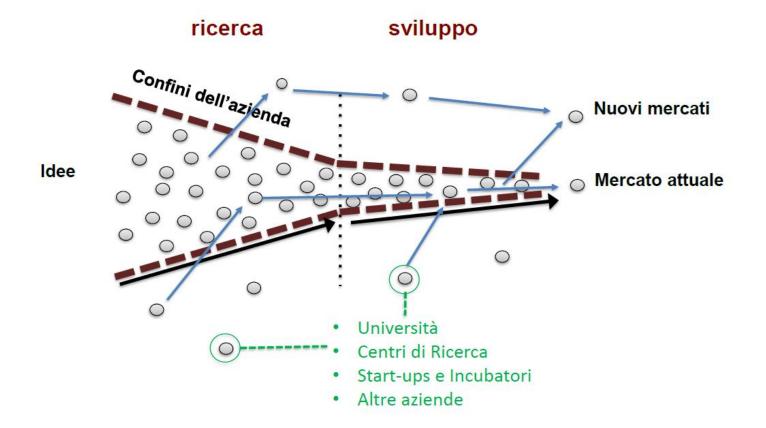






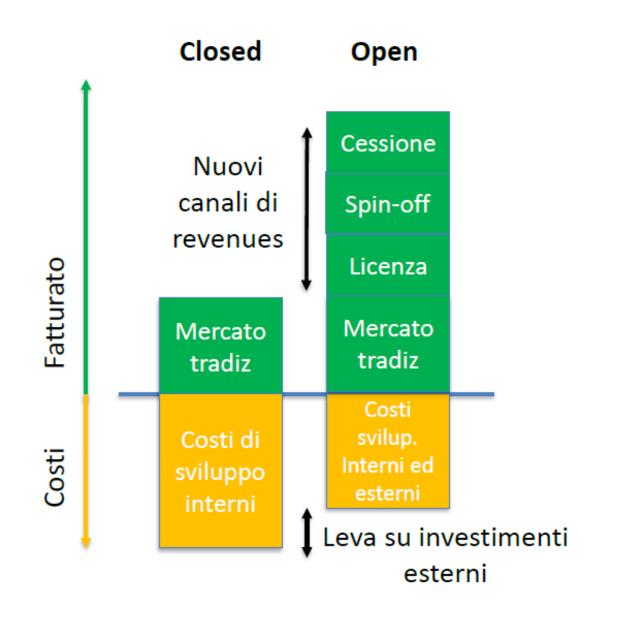




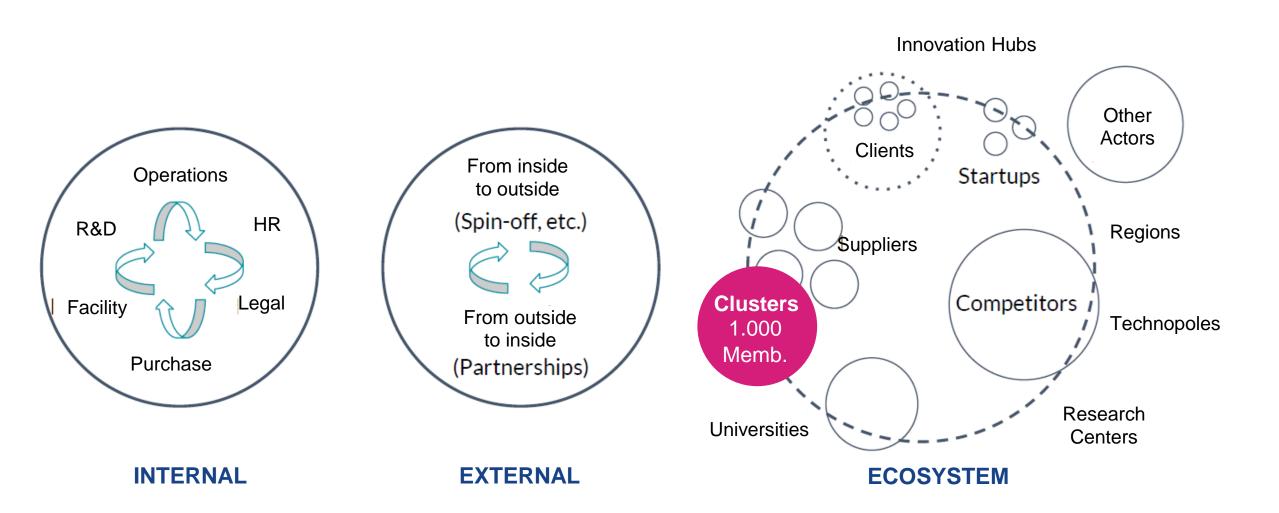




- Offset del costo dell'errore minimizzandolo
- L'errore è accettato come portatore di valore aggiunto nel percorso innovativo
- L'esperienza è condivisa e massimizzata









L'innovazione aperta è il processo di innovazione ripartito TRA PIÙ PARTI coinvolte e basato su una gestione dello SCAMBIO di conoscenze che ATTRAVERSA i confini dell'organizzazione, che sfrutta sia meccanismi che prescindono dalla RETRIBUZIONE sia quelli che comportano uno scambio di denaro in base al modello di business dell'organizzazione*

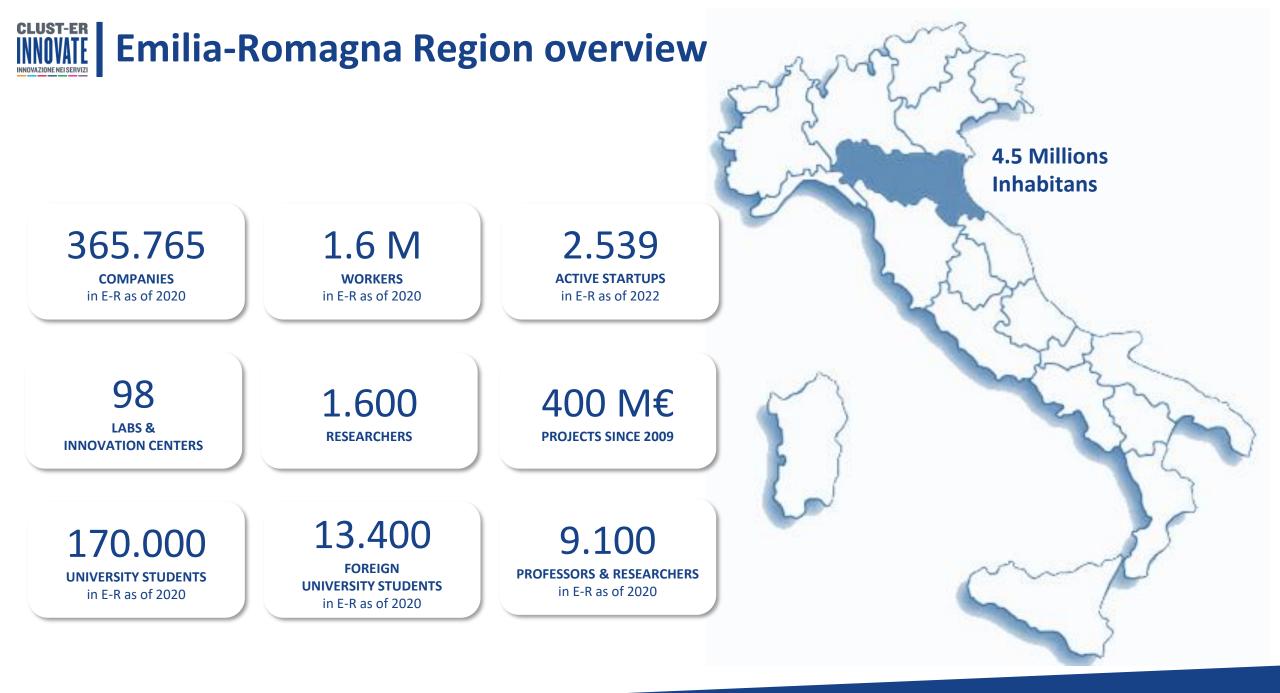
* Chesbrough & M. Bogers (2014) "Explicating Open Innovation: Clarifying an Emerging Paradigm for Understanding Innovation". In H. Chesbrough, W. Vanhaverbeke, and J. West, eds. New Frontiers in Open Innovation. Oxford Scholarship Online (pp. 3-28).

YEN /





- **INNOVATION CULTURE** : not to survive but to compete
- What can **I GIVE** to the ecosystem
- KNOW THE ECOSYSTEM, not only my competitors or clients
- Start from **NEEDS**, not from technology
- BE OPEN



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Emilia-Romagna: innovation in its DNA

1st Region in Italy for innovation

Source: EC-RIS, 2021 and the Transatlantic Subnational Innovation Competitiveness Index 2022

Data Valley

with supercomputers among the most powerful in the world Emilia-Romagna is home to ancient and prestigious universities, important national research institutes, large world-leading companies, specialized and competitive small and mediumsized enterprises, and innovative start-ups. An ideal environment to promote the circulation of scientific and technological knowledge and the development of businesses, people, and territories.
A region that competes with the most advanced regions in the world and attracts international investments and talents. A region of excellence.



Higher R&D expenditure per capita

> compared to the national and EU27 average. Source: Eurostat, 2020

1st Region in Italy to adopt an innovation law

Regional Law 7/2002

2

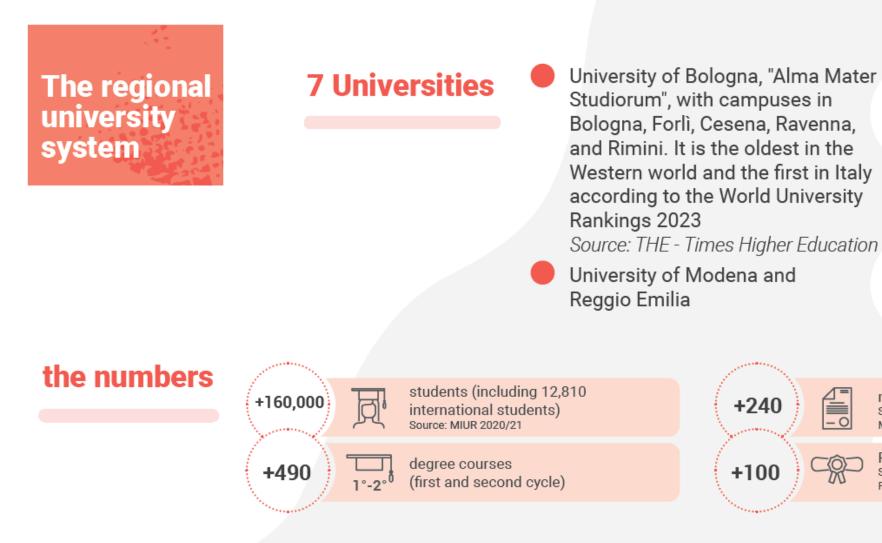
1st Region in Italy to adopt a law on talent attraction Regional Law 2/2023



Emilia-Romagna: innovation in its DNA

12,217 Financed R&D projects	3.621,75 M€ Total investment	1.883,86 M€ Public funds Source: Monitoring of ER S3 (Smart Specialisation Strategy)
1st in Italy for R&D personnel per 1,000 inhabitants Source: ISTAT, 2020	 1st in Italy for patent applications per capita filed with the EPO (European Patent Office, and among the top twenty in Europe. 2nd in Italy for the number of patents filed in 2021 Source: EPO, 2021 	2 nd in Italy for the incidence of R&D expenditure on GDP. Source: ISTAT, 2020
2 nd in Italy for the incidence of business expenditure on R&D on GDP <i>Source: ISTAT, 2020</i>	2 nd in Italy for the number of researchers employed in companies as a percentage of total employees <i>Source: ISTAT, 2020</i>	2 nd in Italy for employees in high-tech and medium/high- tech manufacturing sectors <i>Source: Eurostat, 2021</i>





University of Ferrara

- University of Parma
- Catholic University of Piacenza
- Piacenza Campus of Politecnico di Milano
- Johns Hopkins University -SAIS Europe

master's courses (first and second level) Source: Almalaurea - University of Bologna, Ferrara, Modena and Reggio Emilia, Parma

PhD programs Source: websites of the University of Bologna,

Ferrara, Modena and Reggio Emilia, Parma



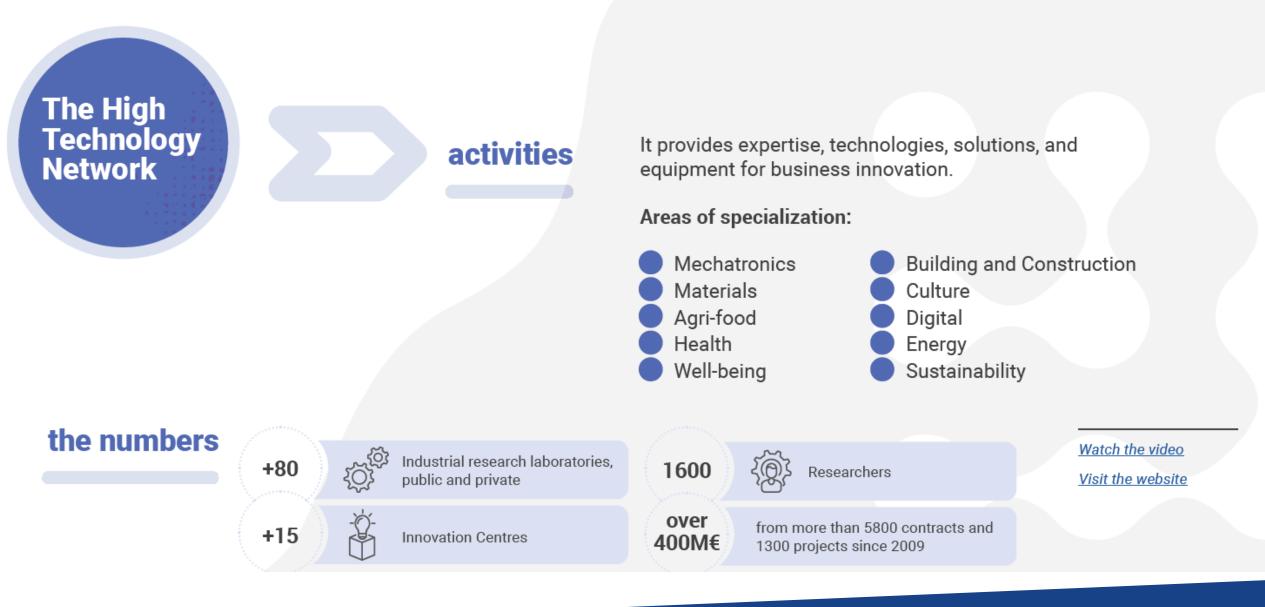
The High Technology Network

what is it?

It is the tool promoted by the Emilia-Romagna Region to organize the regional industrial research offer.

It is composed of Industrial Research Laboratories and Innovation Centres.







The Technopoles Network

what is it?

Promoted by the Emilia-Romagna Region in collaboration with regional Universities, Research Centres, and local Institutions, the Technopoles host and organize activities and services for industrial research, experimental development, and technology transfer to support innovation of companies, individuals, and the territory.



Data Valley -Emilia-Romagna

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Data Valley Emilia-Romagna

Emilia-Romagna qualifies as an international **Data Valley**, boasting state-ofthe- art supercomputers and data centres, unique organizations in the field of big data, policies to support new investments, and a dynamic entrepreneurial environment that aims to put Europe on par with giants such as the USA and China.



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CLUST-ER 9 Clust-ER S3, Ass Big Data e Muner

TECHNOPOLES (high technology activities) 10 Infrastructures 20 Headquarters

HIGH TECHNOLOGY NETWORK (Rete Alta Tecnologia) 82 Labs for industrial research 14 Innovation Centers

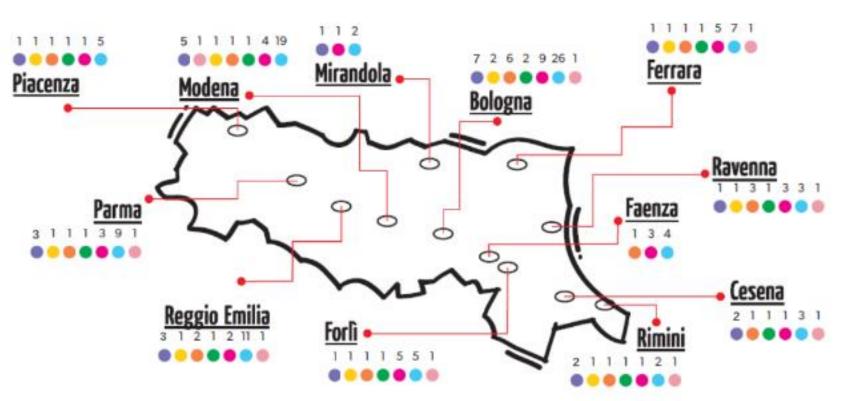
INCUBATORS 75 private and public structures

MAKERs 22 Labs for advanced manufacturing

OPEN LABS 10 Open Labs for digital-citizenship

S3 AREAS NETWORK 10 Areas insideTechnopoles







Research centres, companies and training institutions working together to share ideas, skills, tools and resources.

The **Emilia-Romagna Region** finances and collaborates with **Clust-ERs** as the subjects capable of multiplying innovation opportunities through a cooperative approach, as they focus on strategic R&D sectors.

Together with the Technopoles and the High Technology Network laboratories, we are a key player in the regional innovation ecosystem coordinated by **ART-ER**, the Emilia-Romagna consortium for innovation and technology transfer.



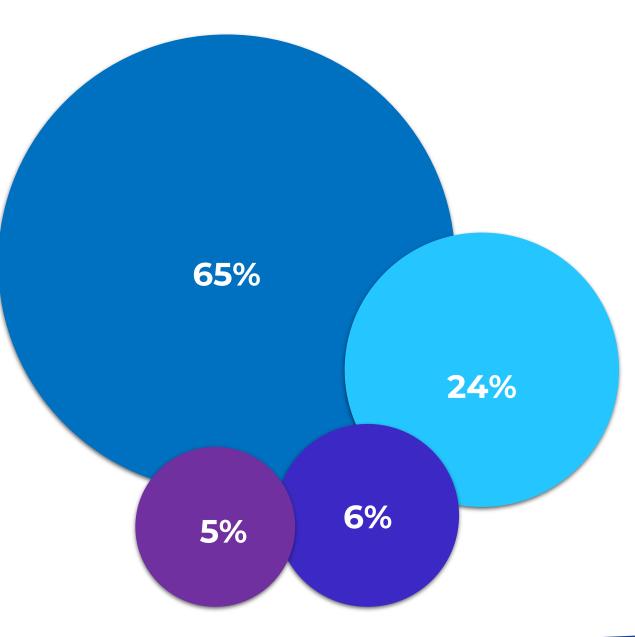
ART-ER Attractiveness Research Territory is the Emilia-Romagna Joint Stock Consortium born with the purpose of fostering the region's **sustainable growth** by developing **innovation** and **knowledge**, **attractiveness** and **internationalisation**

ART-ER promotes the internationalization of the research system through **participation in European and international networks and the development of collaborative projects**, to promote knowledge exchanges and enhance regional skills and experiences.

To increase the participation of companies and researchers in European Union funding programs and help make regional stakeholders' access to the resources deployed by Horizon 2020 more effective, we have activated an **office in Brussels** that carries out networking, partner research and strategic alliances.



Companies and Startups	65%
Research Labs and Innovation Centers	24%
ITS Foundations and training institutions	6%
Other (CINECA, Lepida, INFN, ITL,)	5%







Competence Universities Centers, Innovation Centers. Research Centers, MechLav ENEN aboratorio per la Meccanica Avanza Big Data Innovation & Research Excellence ART-ER INFN ATTRATTIVIT CINECA (MISTER SMART INNOVATION RICERCA Laboratorio di Trasferimento Tecnologico dell'Istituto Nazionale di Fisica Nucleare in Emilia Romagna ISTITUTO sui TRASPORTI e la LOGISTICA



ALMA MATER STUDIORUM

UNIVERSITÀ DI BOLOGNA

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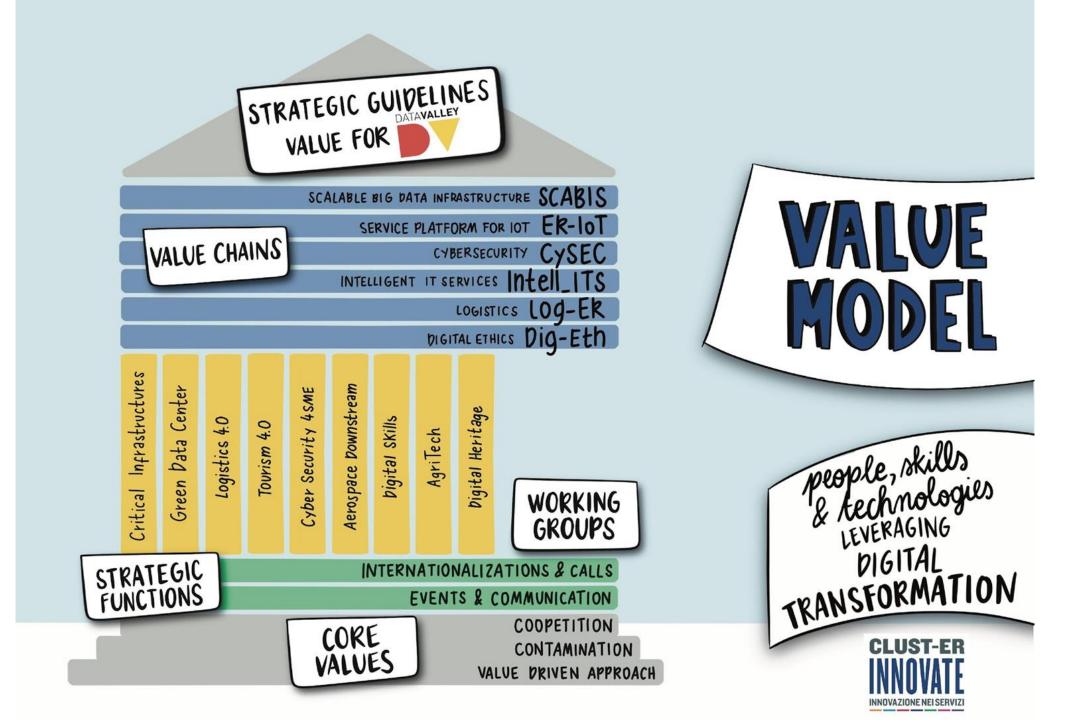
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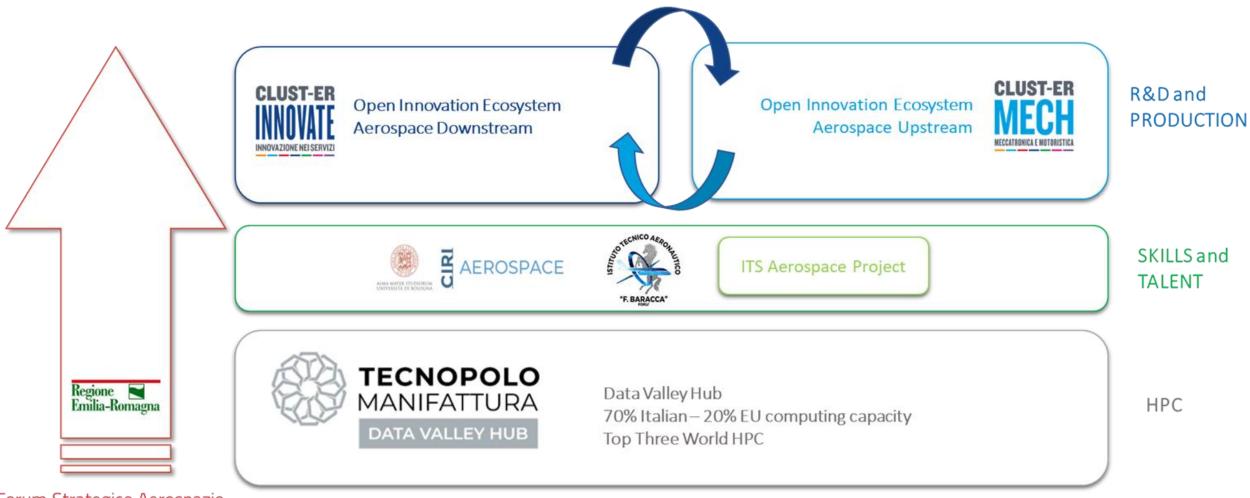
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Forum Strategico Aerospazio
SYSTEM BOOSTER



OPPORTUNITIES : being a member of the Clust-ER will give you privileged access to many opportunities

STRATEGY: contribute to the definition of regional development strategies

KNOWLEDGE: receive the latest sectoral science, technology and business news from regional, national and international sources, best practices sharing

NETWORK: leverage the network of international partners to build consortia for research and innovation projects

PARTNERSHIP: reach new business sectors and create national and international partnership

INNOVATION: share ideas and innovate your business / find new research themes

ECOSYSTEM: keep in touch with the regional innovation ecosystem









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Cofinanziato dall'Unione europea

RegioneEmilia-Romagna