

# The Regional Innovation Ecosystem Emilia-Romagna

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# Emilia-Romagna Regional Profile

**6 Universities + Johns Hopkins University**

135.000 University students

**6 National and International Research Centres**

**Cineca**, Inter-University Computing Centre

**CNR** - National Research Council

**ENEA** - National Agency for New Technologies, Energy and Sustainable Economic Development

**INFN** - National Institute for Nuclear Physics

**INAF** - National Institute for Astrophysics

**INGV** - National Institute for Geophysics and Volcanology

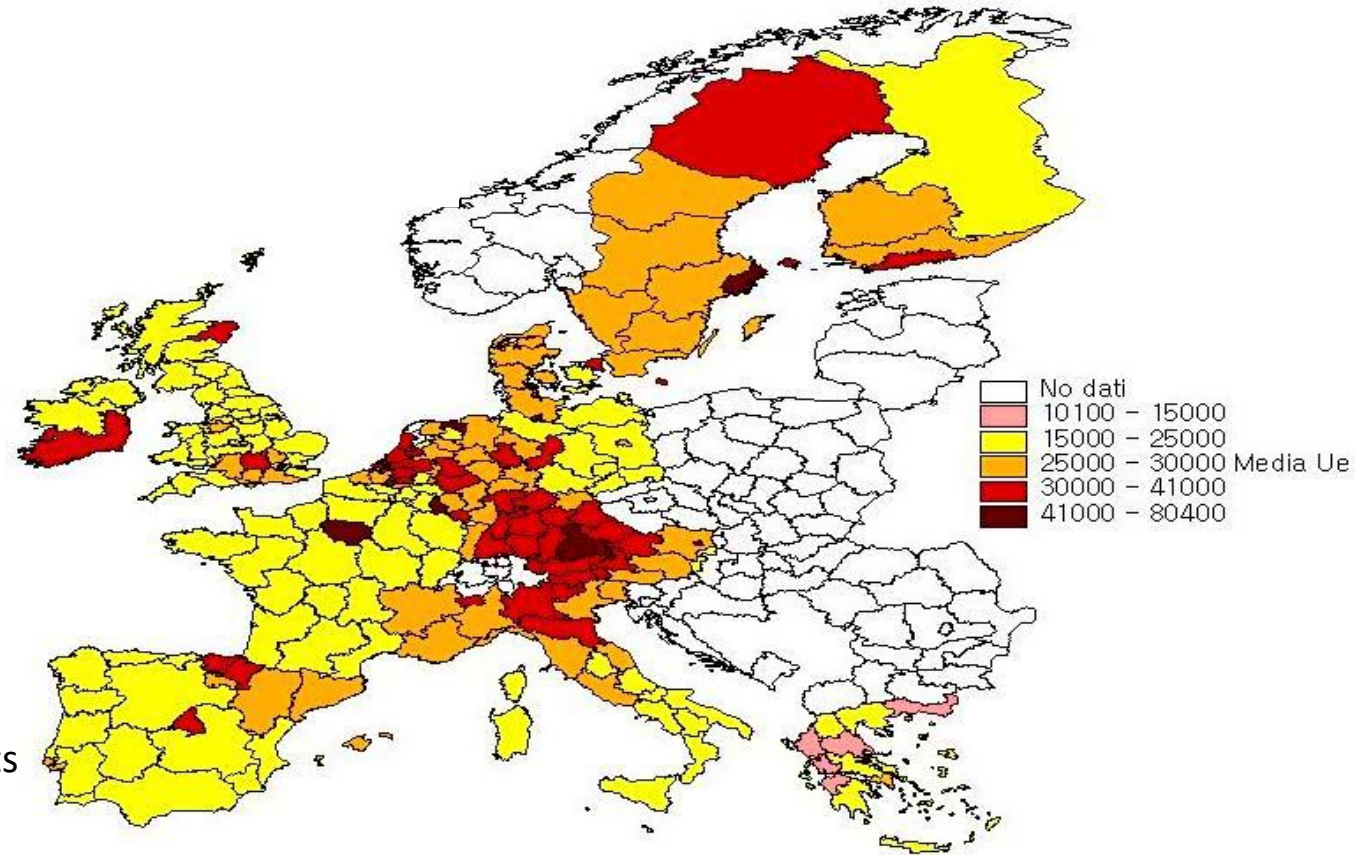
**CMCC** - Euro-Mediterranean Centre on Climate Change

**International Authorities/Agencies**

**EFSA** European Food Safety Authority

**ECMWF** European Centre for Medium-Range Weather Forecasts

**R&D expenditure/GDP 2%**

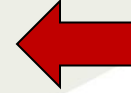


# Emilia-Romagna R&D

**Research and innovation policies are focused on:**

- Public facilities and infrastructures
- Strategic research projects
- Collaborative Research Projects
- Dissemination Events and Exhibitions
- European and International networks (Vanguard Initiative)
- High tech start ups
- Universities and High Competence training centres

Regional, National and European Programmes



## **Research and innovation strategy**

Public institutions

Private companies

Universities and High  
Competence Training  
centres

Collaborative  
projects

Business  
academies

# Highlights: Technopoles and S3 areas

- a network of **10 infrastructures** located in **20 locations** throughout the Emilia-Romagna region, hosting and organizing activities and services for industrial research, experimental development and technology transfer.
- **industrial research Laboratories** equipped with research tools and staff dedicated to activities and services designed with the companies, favouring the networking at national and international level.
- **service facilities and opportunities** for researchers, start-up and spin-off (S3 areas).





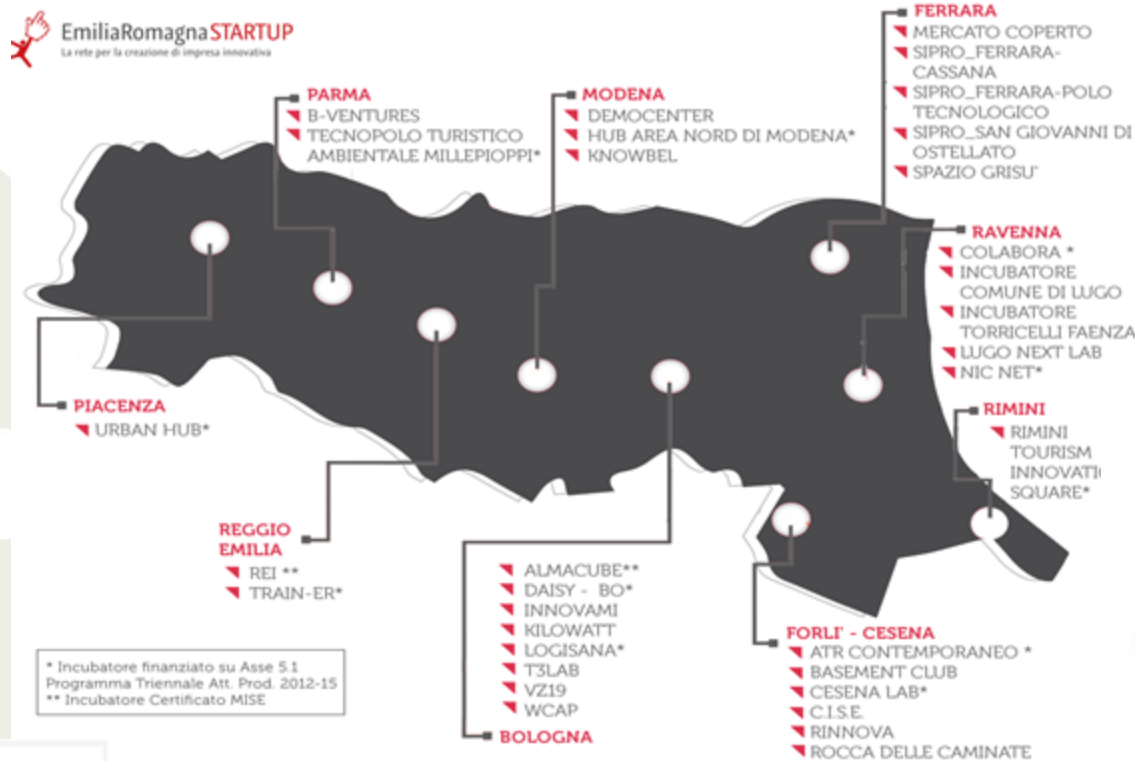
# Technopoles NETWORK

Universities – Laboratories – S3 Areas



# Highlights: Incubators and Fablabs

## The Incubators network



57

Incubatori



19

FabLab



## The Fablabs network



# Highlights: Clust-ER ASSOCIATIONS

Clust-ER Associations are communities of public and private bodies (research centres, businesses, training bodies) that share ideas, skills, tools, and resources to support the competitiveness of the most important production systems in Emilia-Romagna. It is a competitiveness that no longer relies on the ability of individual research centres or businesses to operate on the global market, but increasingly on the ability of the entire local system to be innovative and attractive.



<http://www.retealtatecnologia.it/clust-er>



**Big Data Technopole** -  
Bologna Hub | ECMWF Data  
Centre, CINECA-INFN  
Integrated Research Data  
Infrastructure



# 4 Large Research Infrastructure



**INAF Radio Telescopes**  
It hosts the "**Northern Cross**",  
one of the largest transit radio  
telescopes all over the world

**ENEA Brasimone** - Fusion &  
Technology for Nuclear Safety  
and Security



**CICLOPE** - Centre For  
International Cooperation In  
Long Pipe Experiments and  
studies on Turbulence





## THE STATE OF IMPLEMENTATION OF THE S3

Projects funded

6.515



Million of investments

2.594,54



Million of contributions

1.132,71



5.646 Funding companies



919 Funding research laboratories



153 New businesses created



228 Patents generated directly by the projects



2.013 New researchers



22.665 People trained



**2.5 billion euro of  
investments foreseen in 2023**

# A showcase: Bologna Big Data Technopole

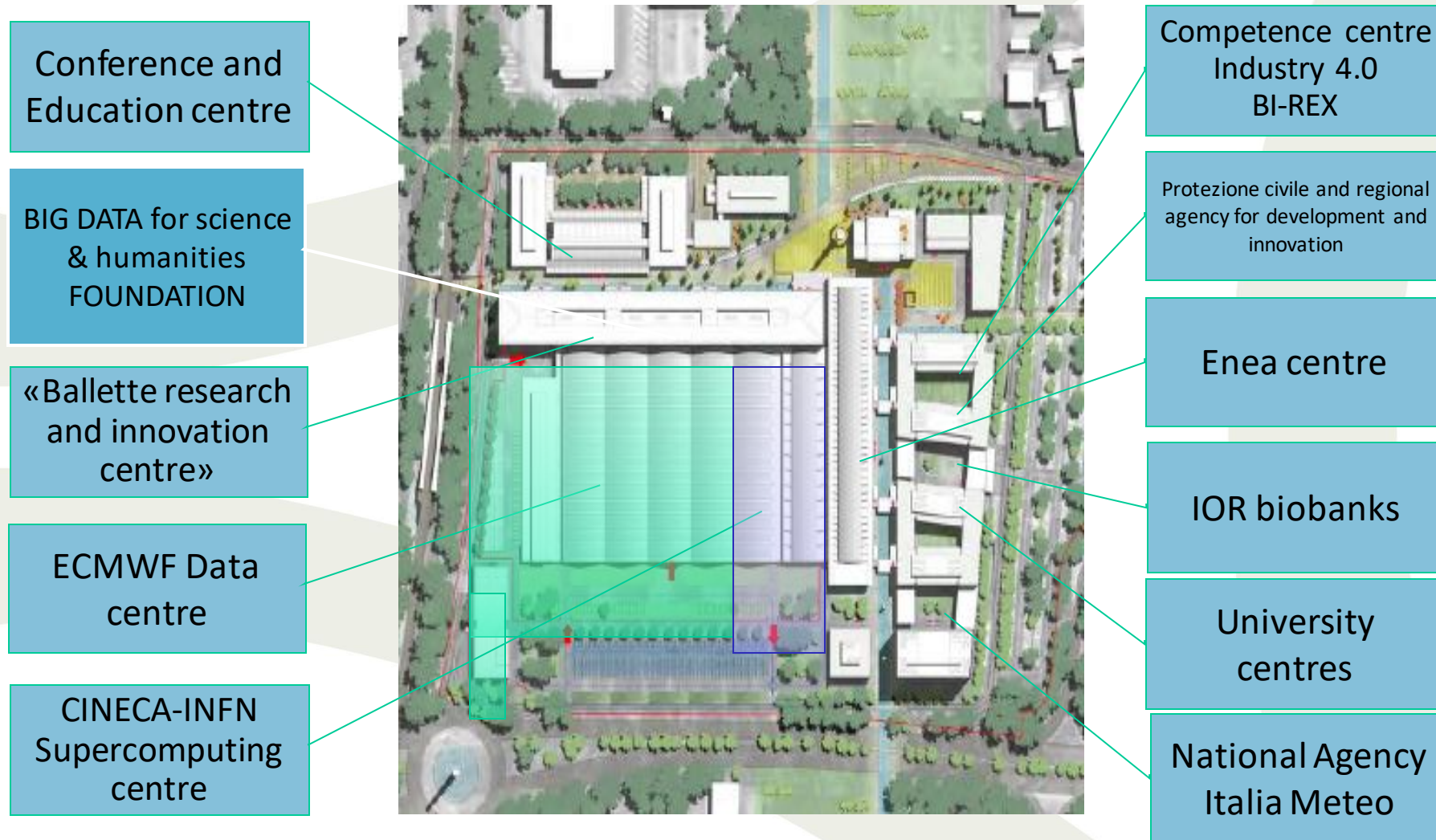
*A National and Regional investment for Digital Economy and BD*



- 100.000 sqm for data centres, laboratories, competence centre, Aster agency



# Bologna Big Data Technopole – Bologna Hub





## CHALLENGES FOR THE FUTURE

