

Regional policies for Innovation, Research and University

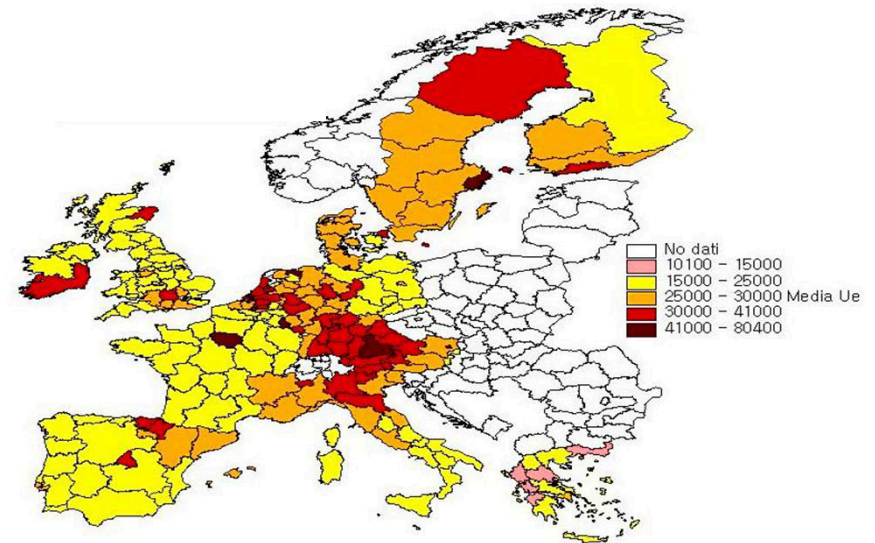
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General Director for Knowledge Economy, Labour and
Enterprises EMILIA-ROMAGNA REGION
Managing Authority ERDF Regional Programme 2014-2020
Managing Authority ESF Regional Programme 2014-2020

Bologna, 12 March 2019

EMILIA-ROMAGNA: MAIN INDICATORS

Main Indicators

Population	4.45 million
GDP per capita	34,500 €
Export	63 billion €
Employment rate	66,3%
No. companies	372,000

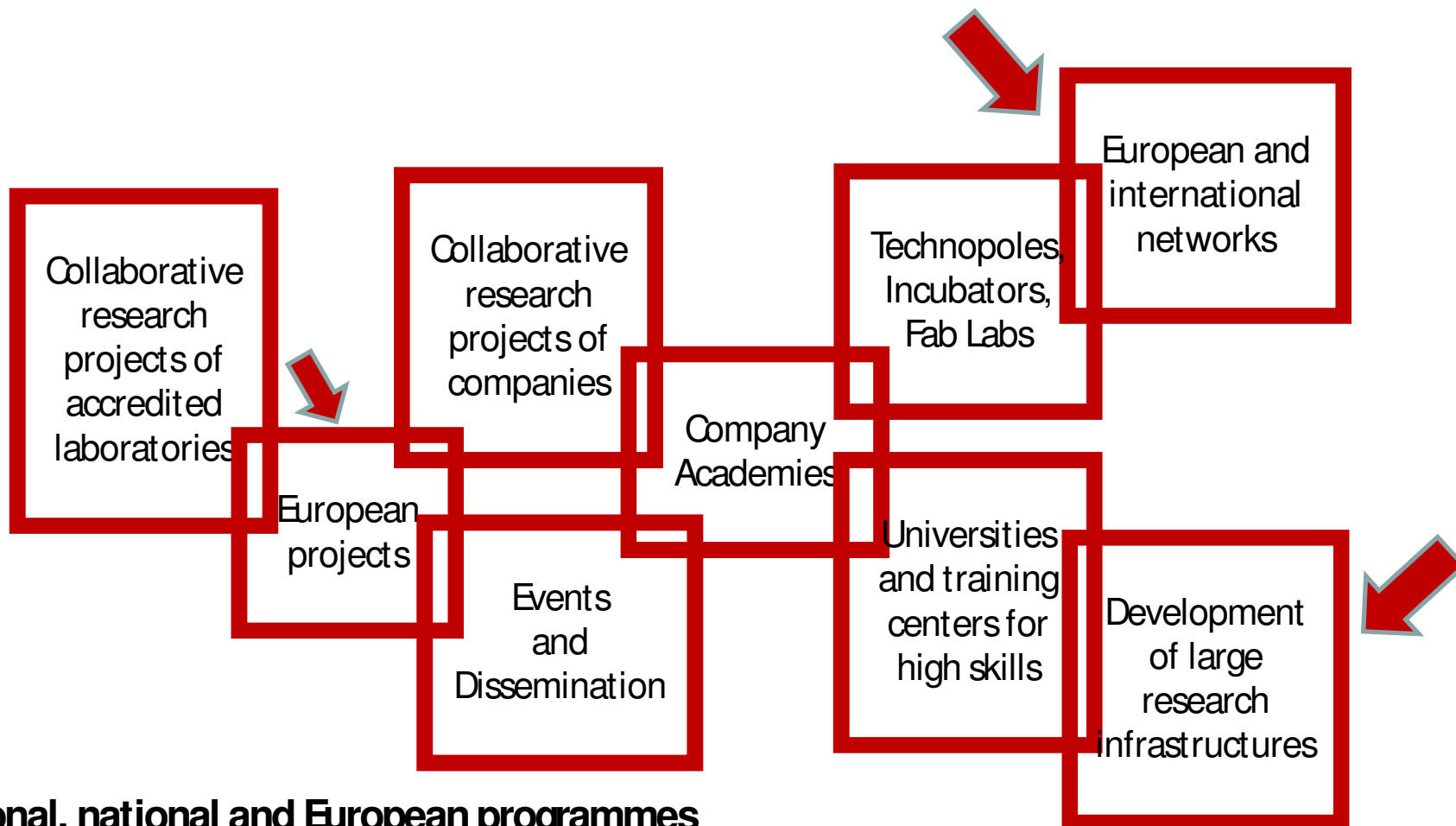


Successful brands and businesses

ADVANCED MECHANICS	AGRO-FOOD	HOUSING	FASHION	HEALTH INDUSTRY
		<p>CERAMICS</p> <p>BUILDING INDUSTRY</p> <p>SERVICES</p>	<p>CLOTHING</p> <p>FOOTWEAR</p> <p>ACCESSORIES</p>	<p>BIOMEDICAL</p> <p>PHARMACEUTICAL</p> <p>WELLBEING</p> <p>PACKAGING</p>

1st region by number of patents per capita

2nd region by number of innovative companies



Regional, national and European programmes

International Collaborations: Aster/ Smau for R2B, Ervet/ ITKAM

(Italian Chamber of Commerce in Germany), ASTER/ Plug&Play, ICE/ Ervet

Institutional arrangements: Guandong Province, Gauteng Province (south Africa), Hesse, California (Under2MoU)

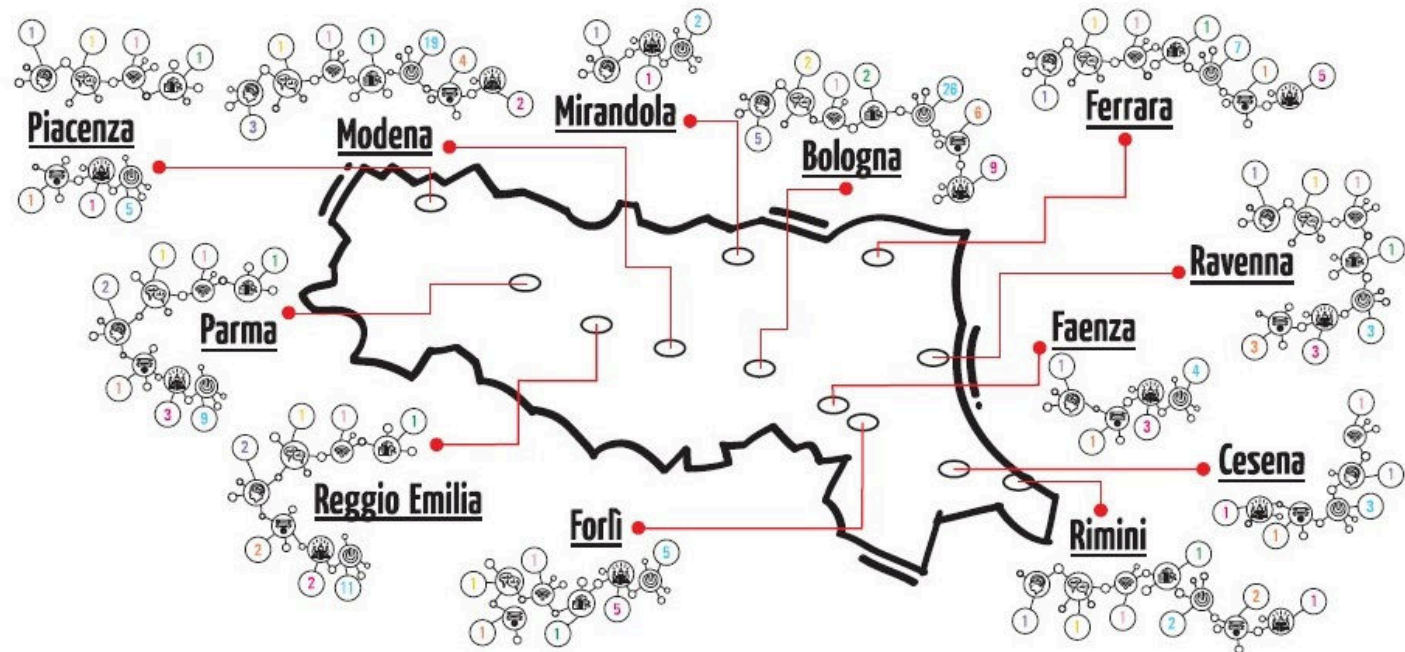
EMILIA-ROMAGNA R&D ECOSYSTEM



Innovation&Education

Networks to multiply Skills and Opportunities

-  **HIGH TECHNOLOGY NETWORK**
82 Industrial Research Laboratories
14 Innovation Centres
-  **TECHNOPOLES NETWORK**
10 Infrastructures
20 Locations
-  **INCUBATORS NETWORK**
75 Public and Private organisations
-  **DIGITAL MANUFACTURING NETWORK M4A-ER**
22 Fab Labs and Maker Spaces
-  **OPEN LABORATORIES NETWORK**
10 Equipped Areas with hi-tech solutions
-  **LOCAL NETWORK "SPAZIABRA 51"**
10 Offices located in the Technopoles to assist highly-skilled (young) people
-  **ITS NETWORK**
7 Hi-Tech Schools



UNIVERSITY SYSTEM, RESEARCH CENTRES AND INTERNATIONAL AGENCIES



Regional University System (7 Universities)

- 400 Courses (Three-year and Masters degrees)
- 153 2nd-level Master Courses
- 126 Specialisation Courses
- **150,000 Students**
- Bologna Business School (Master/ MBA)
- PhD and International Data Science Phd
- School of Advanced Studies in Food Safety
- MUNER (Motor vehicles in E-R)
- High Education Courses (Climate Change, Homeland Security)

National and International Research Centres:

(Cneca, CNR - National Research Council, INFN - National Institute for Nuclear Physics, INAF - National Institute for Astrophysics, ENEA - National Agency for New Technologies, Energy and Sustainable Economic Development, CMCC - Centro Euro-Mediterraneo sui Cambiamenti Climatici, INGV - Istituto Nazionale di Geofisica e Vulcanologia)

International Authorities/ Agencies:

European Food Safety Authority, European Centre for Medium-Range Weather Forecasts

- **7 Foundations ITS with 26 courses**



ESF annual funding for research grants, PhD programs, ITS

ASTER-ERVET **ART-ER** (Attractivity, research, territory/technology)

CLUST-ER
AGRIFOOD
AGROALIMENTARE

CLUST-ER
BUILD
EDILIZIA E COSTRUZIONI

CLUST-ER
GREENTECH
ENERGIA E SOSTENIBILITÀ

CLUST-ER
CREATE
CULTURA E CREATIVITÀ

CLUST-ER
HEALTH
SALUTE E BENESSERE

CLUST-ER
INNOVATE
INNOVAZIONE NEI SERVIZI

CLUST-ER
MECH
MECCATRONICA E MOTORISTICA

associazione
BigData
from volume to value

Community of public and private subjects (research centres, companies, training institutions/institutes).

They share ideas, skills, tools, resources to support the competitiveness of Emilia-Romagna's production systems.

450 entities involved

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

MAIN INITIATIVES

- L.R. 7/2002 Industrial research, innovation and technology transfer promotion
- L.R. 14/2014 Promotion of investments in Emilia-Romagna
- POR FESR 2014-2020: 481.895.272 euros of which 358,6 million committed (research programmes, start ups, ..)
- POR FSE 2014-2020: 786.250.182,72 euros of which 562,3 million committed (Just in time for companies, PhD for graduate students)
- National initiatives and European Projects: 372 milioni di euro



Diapositiva 8

AS1

Adami Sabrina; 12/03/2019



THE REGIONAL COMMUNITY

Private and public foundations and institutions

Opificio Golinelli, Mast Cultural and Philanthropic Foundation, Masotti Fashion Foundation, Marco Biagi Foundation, Bologna Business School, Foundation of Religious Science John XXIII, Nomisma Economic Research, Prometeia Consulting on risk, wealth and performance, European Food Safety Authority, Consortium for the future in Research, ...

Leading digital companies

IBM, Yoox, CRIF, Engineering, Dedagroup, ...

Strong International connections among universities, companies, institutions Connectivity

LEPIDA, GARR, GEANT

HW Infrastructure

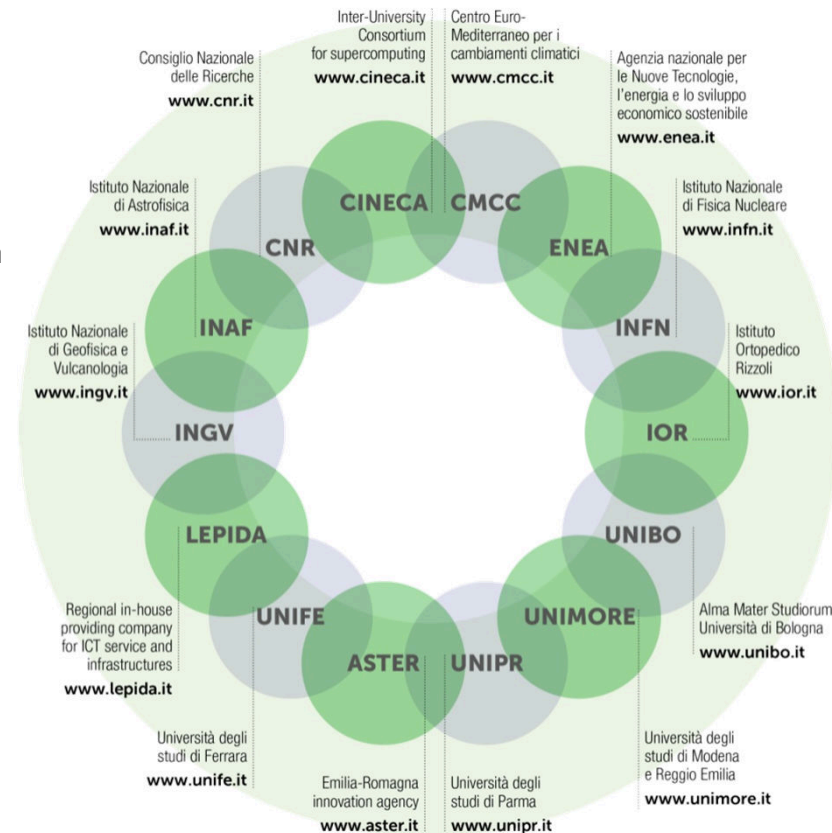
CINECA, INFN, LEPIDA

SW Infrastructure

Centre of excellence in Material Design, Operational Chain for Climate Services, Visual information technology lab, Genomic and bioinformatics data processing...

End users

Universities, National Research Institutions and Agencies, Public Administrations, Private and industrial organisations

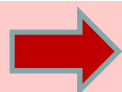


Bologna Big Data Technopole – Hub connected to all the Regional Technopoles

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

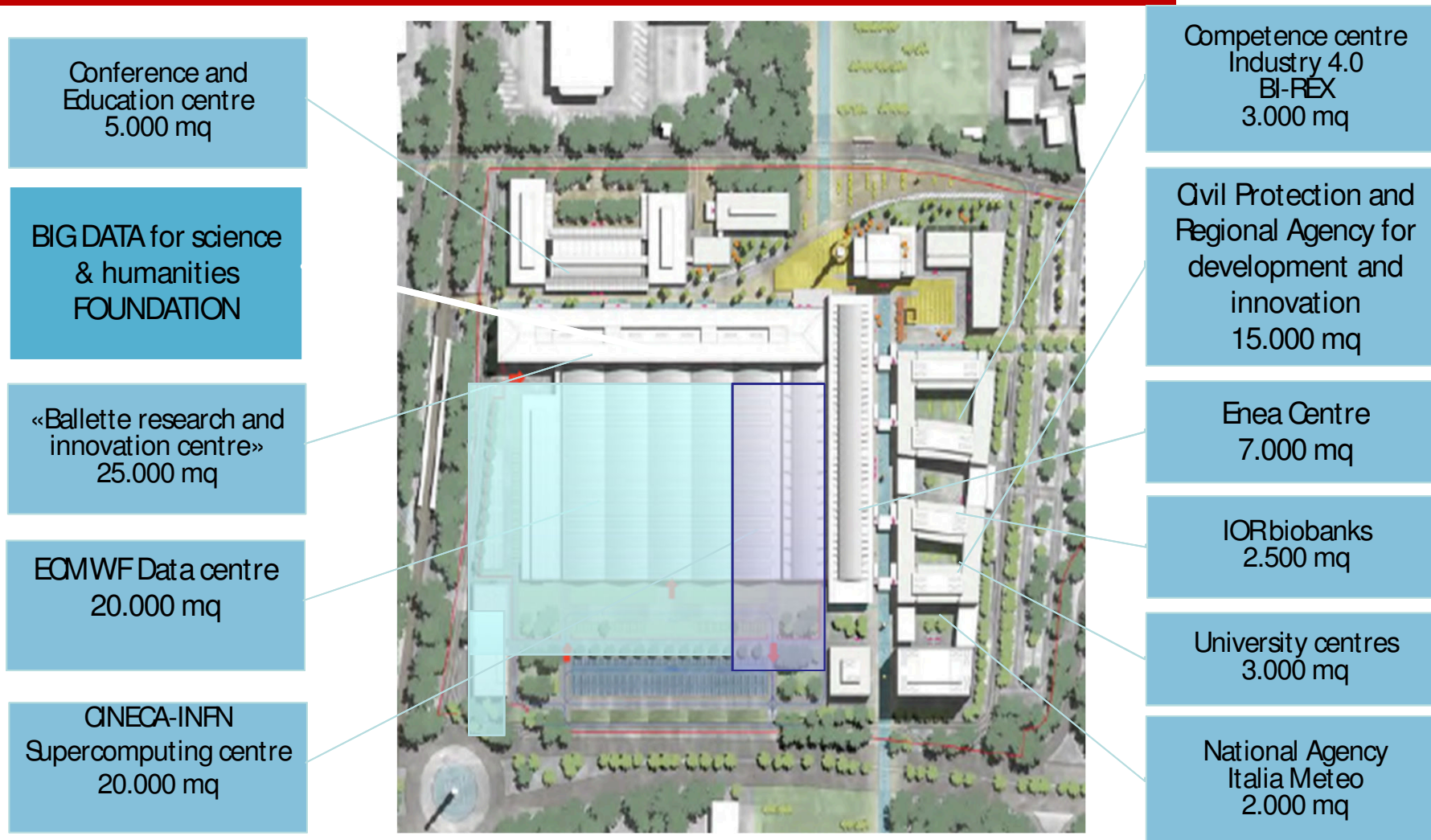


Investment with European, national and regional resources
for digital economy, big data, climate change
ECMWF, Cneca-Infn, ART-ER, Univeristies, Ior, Arpae, private centres



Participation in the European call euroHPC hosting entity (April 4)

BROAD ECOSYSTEM OF RESEARCH AND INNOVATION



TECHNOPOLES EXTENSION:

- Modena (Artificial Intelligence Lab)
- Ravenna (Energy and Environment Laboratory in collaboration with Fraunhofer)
- Mirandola (Technopol Lab + Incubator)

CHALLENGES FOR THE FUTURE

