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Synergies among EU programmes and cohesion policies in the Bioeconomy and Blue Economy domains: sharing information for co-designing more effective funds synergies

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The Regional R&I Ecosystem



7 National and International Research Centres

7 Universities with 166K students + Bologna Business School

65 IR ESFRI

2 European Agencies/Authorities (Efsa e Ecmwf)

34 Incubators and accelerators

91 R&I Accreditated laboratories

1 National Champion (Big Data)

1 National Ecosystem

11 Clust-ER



1st Region in ITALY «Regional Innovation Scoreboard 2021»

1° Region in export per capita

1° Region in patents per capita



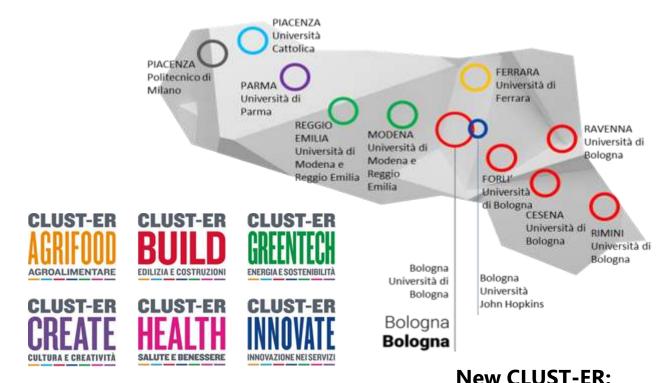
- → 43.000 manufacturing companies
- **→** 500 multinational companies

4 UNESCO cities (Ferrara, Modena, Bologna, Ravenna)

9 UNESCO sites

543 Museums

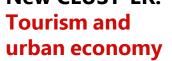
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Impact of S3 2014-2020



Focus on Bioeconomy
Agrifood, blue-bio-economy, biobased industries



Focus: Horizon 2020 – Emilia-Romagna ecosystem participation

DATA	EXPLANATION	
494	N°of entities participating	
1317	N°of project granted	
1802	N°of total participation	
581,3	Mil€ contribution received	
706	N° of enterprises	

Bioeconomy is about 13% of the total

Source: Cordis – Elaborated by ART-ER, August 2022



S3 2021-2027: main objectives and content

		A smarter Europe	A greener Europe	A more connected Europe	A more social and inclusive Europe	A Europe closer to citizens		
Industrial Specialization systems	Agri-food	1. Clean,	Clean, affordable and secure energy					
	Building and Construction	3. Climat	 3. Climate and natural resources (air, water and land) 4. Blue growth 5. Innovation in materials 					
	Mechatronics and Motor Engineering	5. Innova						
	Health and Wellness Industries	 7. Manufacturing 4.0 and future evolutions 8. Connectivity of ground and space systems 						
	Cultural and Creative Industries		 Sustainable and innovative mobility and motor industry Cities and communities of the future Heritage and identity of the region: cultural assets and contents, creative activities, tourism and Made in E-R products 					
	Tourism Industry	,						
	Energy and Sustainable Development		ellbeing, nutrition e lifestyle					
	Innovation in Services		Social innovation and social participation Inclusion and social cohesion, education, jobs, territories					



Bio-economy keywords in the S3 2021-2027

SPECIALISATION #	KEYWORDS
1. clean energy	green hydrogen, bio-energy, biogas
2. circular economy	organic matters circularity (i.e. agro-food systems, organic wastes valorisation, organic waste recycling)
3.climate	CO2 emission reduction, nature based solutions
4.blu-economy	Bio blu-economy
5.materials	new bio-based materials
6. Al-digitalisation	use of big data and AI in bio-economy applications
7.Industry 4.0	manufacturing processes sustainability bio-based industries
12.wellbeing	bio-based food ingredients, cosmetics and medicines
15.territories	territories renovation in upgrading traditional bio-based industries



The Bio & Blue Economy Players

UNIVERSITIES

Bologna, Ferrara, Parma, Modena and Reggio-Emilia, Politecnico of Milan (Piacenza), Sacro Cuore Catholica Univ. (Piacenza)

NATIONAL RESEARCH CENTRES
CNR, ENEA, CMCC, Marine Research Centre
(CRM), CREA

REGIONAL AGENCIES
ART-ER and ARPAE & CLUST-ER

COMPANIES AND SPIN-OFF

Biosphere s.r.l, Biotec sys s.r.l., Caviro Distillerie s.r.l., Centro di ricerche Produzioni animali (CPRA), Coopbox Group S.p.a., Endura S.p.a., Eni Versalis (production plant of Ferrara e Ravenna), Eridania Sadam S.p.a., Fondazione Raul Gardini, Temix Oleo, Granarolo, ...



Policy tools and mix for the S3 implementation

The policy tool for implementing the S3 focus on 7 main pillars:

- 1. Technopoles, laboratories and research infrastructures
- 2. Research and innovation projects (laboratories and companies)
- 3. Skills development and higher education
- 4. Operational Groups for Innovation (GOI)
- 5. Development and growth of innovative startups
- 6. Development of the Emilia-Romagna Data Valley
- 7. Networks, partnerships, cooperation and synergies with EU programs

S3 implementation investment, total resources: 5.000 Mil€



Policy synergies for the S3 implementation

Regional Productive Activities Program 2023-2025 includes Activity 1.6

- Support for participation in EU R&I programmes up-stream approach
- The Region supports the extensive participation in European programs with particular reference to Horizon Europe.
- It concerns all the 3 Pillars of Horizon Europe, as well as other coherent European programmes.
- Methods of intervention: Tenders, expressions of interest, direct interventions also in co-financing, negotiated procedures



On going activities and further synergy' examples to build on

- European exascale HPC Leonardo
- PNRR National R&D Champion: Hub BIG Data, HPC and Quantum Computing
- PNRR Innovation Ecosystem: Ecological Transformation
- PNRR Research and Innovation Infrastructures (New materials)
- Bologna Technopole: new location for international research activities
- Ferrara and Ravenna Technopoles on Blue Economy
- United Nations University «Human Development»
- Smart Specialisation Thematic Platform, Industrial Modernisation: Bioeconomy; Chemicals and European hydrogen Valleys



Two more examples of synergies operated (not exclusively linked to the bio-economy)

Cumulative synergy through the contribution of the Joint Undertaking ECSEL projects with additional (non-structural) funds to the national funding to support the participation of local universities

Integrated Life project Prepair synergies with the **POR funds** of the regions of the Po Valley

