

The CERCA System

**ANII - Uruguay** 2022-12-13

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# Catalunya







€ 90.97 B

€ 45.462 M

Imports

GDP

€ 80.57 B

Exports

25%

**Exports** 

of Spain's

GDP

23.6%

Spain's GDP Growth

€244B

**1.69%** EU-27's GDP

7.7 M

Population

16%

Spanish population

1.73%

EU-27 population

Jata 2021

€ 41.014 M

**Total Industrial** 

Direct Foreign Investment (2012-2021) 3.69%

EU-27's exports



# Catalunya Knowledge **System**

#### Catalan knowledge system

12

universities

**52,137** 

R&D workers

16

science parks

research centres (41 CERCA incl.)

156

**Public Hospital** 

Barcelona Supercomputing

Center

**ALBA Synchrotron** 

43

Private Hospital

Light Facility

**CNAG** National Centre for Genome Analysis



# **CERCA System**

#### **CERCA system**



41 CERCA Centres

14,993

R&D workers



€ 543 M Annual budged

€ 1,232 M Assets

€ 213 M private funds (2019)



**15,000** annual articles WoS



€ **529.64 M**1,114 Projects from the EU's funding Programme H2020



32

Clarivate

**18,599**Highly Cited Documents (2018-2021) 10% Top

Highly cited researchers



**187**European Research
Council Grants H2020



180 Spin-off / About 20 new per year



Periodic assessment system with more than 400 international experts



3,239
Patents
43.8% licensed





41 Institutes



















































































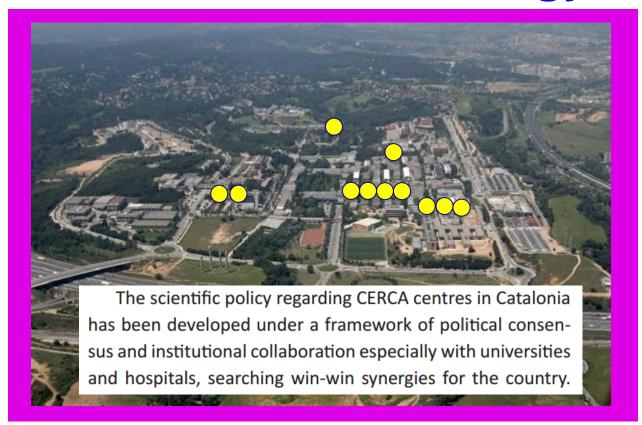


#### Main features of CERCA centers

- Independent legal entities: Foundations and Consorcia
- Government Core Funding (aprox. 150 M€ per year)
- At least a CAT GOV ministry and a University within the Governing Board
- International evaluation every 4 years (since 2012) ... With some consequences
- CERCA is 5th among Top 10 entities in Europe (EU H2020 funding)
- High level of talent attraction
- Singular model in Europe
- Research Impact assessment; Data management; Scientific platforms consorcia GINYS



### A win-win institutional strategy





# **CERCA** people

All centres have been awarded with the EU HRS4R logo

14.993 persons

37.1% assigned from other institutions (University professors, CSIC, etc)

8.194 researchers

R1 55% Female R2 47% Female R3+R4 46% Female 2.059 R1 PhD students

41.45% foreigners



#### **CERCA** science

#### Focus on DORA & RRA practices

61.932 publications

63.6% international colab. 46,1% female participation

18.599 Highly Cited papers (top 10%)

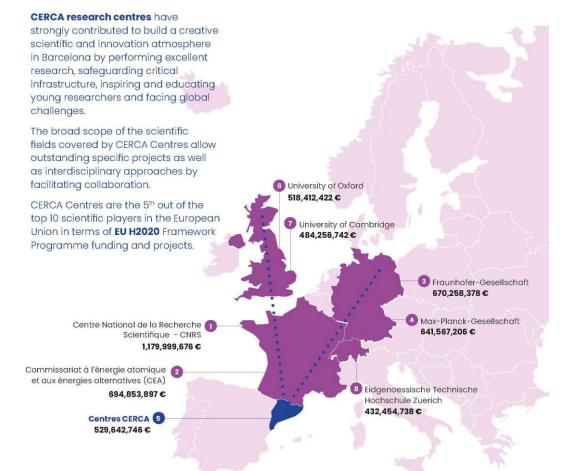
29,9% Private Colab.

11.2% Private colab. led by CERCA institutes



### **CERCA** in UE

"V" The European Research Valley





### **CERCA in EU**

5th research system in EU: CNRS, CEA, MaxPlanck, Fraunhoffer, CERCA, Oxford, Cambridge, ETH...

1.112 H2020 Projects
454 H2020 led
projects

211 ERC Grantees 50% CAT

Return: 524.45M€



## **CERCA** institutes funding

Over the expectations...

Anual budget: 543.14M€.

**GENCAT corefunding:** 132.6M€ (24,4%)

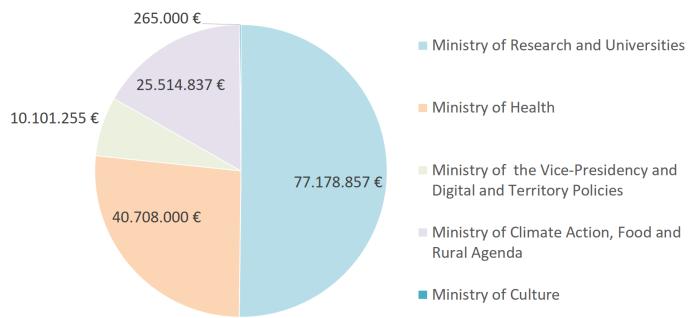
Non-competitive funding 41%

Competitive funding: 34.6%



## **CERCA** institutes funding

Generalitat de Catalunya core funding by Ministries





# **CERCA** patents

#### A broad portfolio

878 patent families
555 PCTs

3.239 patents

1.410 licensed patents (43,8% of patent portfolio)



### **CERCA** spinoffs

#### The "external" layer of the CERCA centres

186 DeepTech
companies created
30 closed
19 sold
About 20 new/year







### **CERCA** portfolios

#### **Adding visibility**



#### Ginjol Patent fund

81 tecnologies protected 781.000€ invested (10K tickets)

https://ginjol.cerca.cat/



#### Ginys Core Facilities

200 Core facilities exposed 556 persons 44 types of accreditation

https://ginys.cerca.cat/

#### Spinoff portfolio

186 companies listed Main details exposed

https://cerca.flintbox.com/startups/



### **Growing CERCA Institution support**

- Communities of practice
  - Innovation (TechTransfer, Spinoff)
  - Data (OpenData and Data management)
  - Research Impact
  - Talent (Gender, RRHH)
  - International (Projects, running HE Widening Cardea project)
  - Legal
  - Cibersecurity
  - Facilities
  - HRS4R
  - Communication
- CERCA Evaluation management



### **CERCA** as an International player

**Current MoUs, projects & missions in:** 

**Uruguay** 

**Finland** 

Israel

**Andorra** 

**Albania** 

**Northern African countries** 



Today in Tirana with the Prime Minister Rama @iCERCA and @icn2nano contributing to the creation of a Research centre NANOALB @exteriorscat @GemmaGeis







# Thank you for the attention

cerca.cat





