



**InnoHEIs**  
Interreg Europe



European Union  
European Regional  
Development Fund

# Autonomous University of Barcelona

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12 September, 2019 InnoHEIs kick off meeting Thematic Workshop



**InnoHEIs**  
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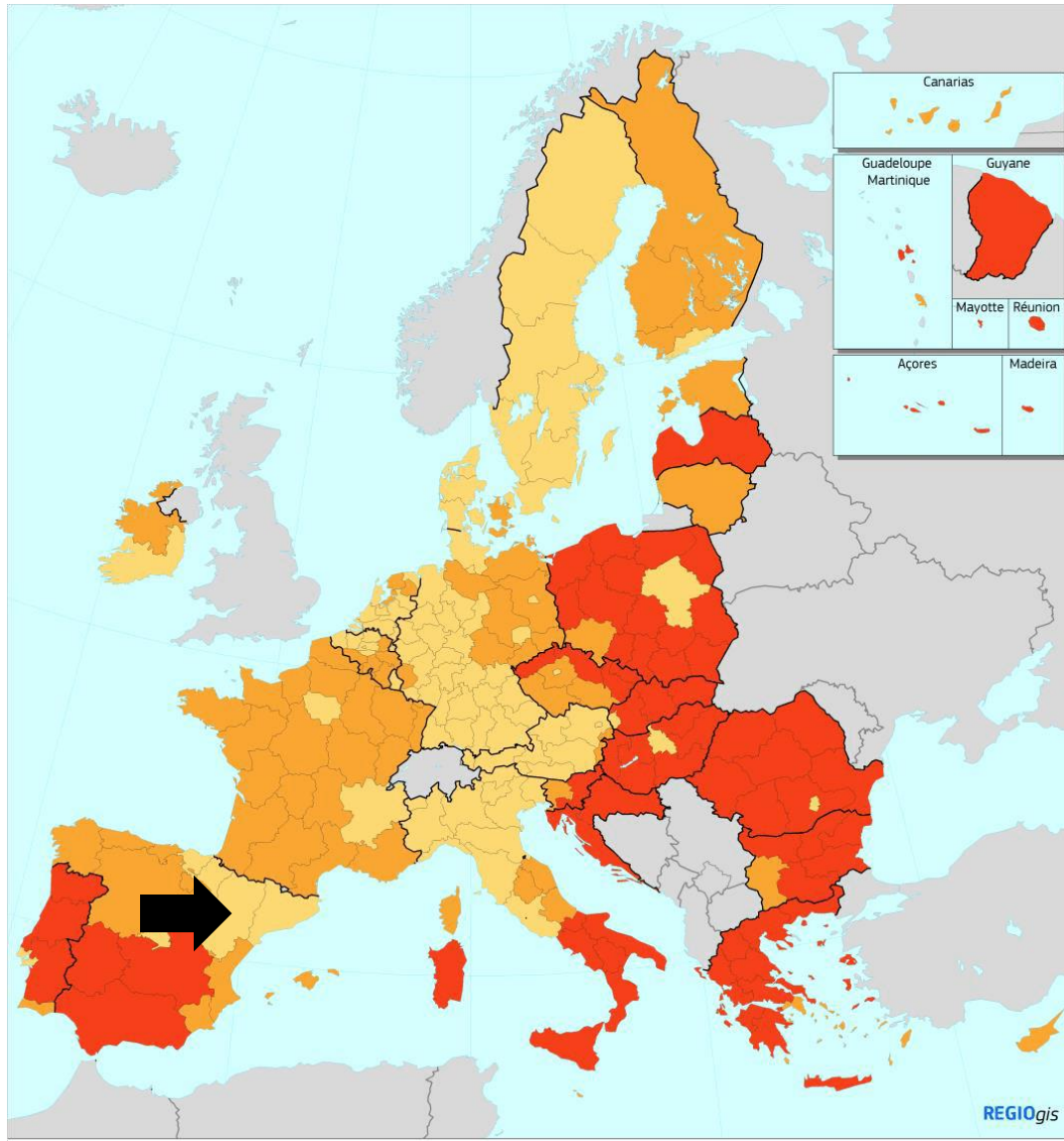
**UAB**

Universitat Autònoma  
de Barcelona

## Autonomous University of Barcelona & ERDF T.O.1 for HEIs infrastructure

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*InnoHEIs kick-off meeting, Groningen (NL), 10-12 September 2019*

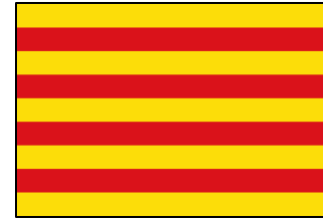


GDP/head (PPS) by NUTS2 region, average 2014-2015-2016

Index, EU-27 = 100

- < 75% (less developed regions)
- 75% - 100% (transition regions)
- >= 100% (more developed regions)

# About Catalonia and its universities



7.6 million inhabitants

Barcelona metropolitan area: 5.5 million people  
(4<sup>th</sup> largest in the EU)

ERDF – More developed regions

Full competences in education and universities



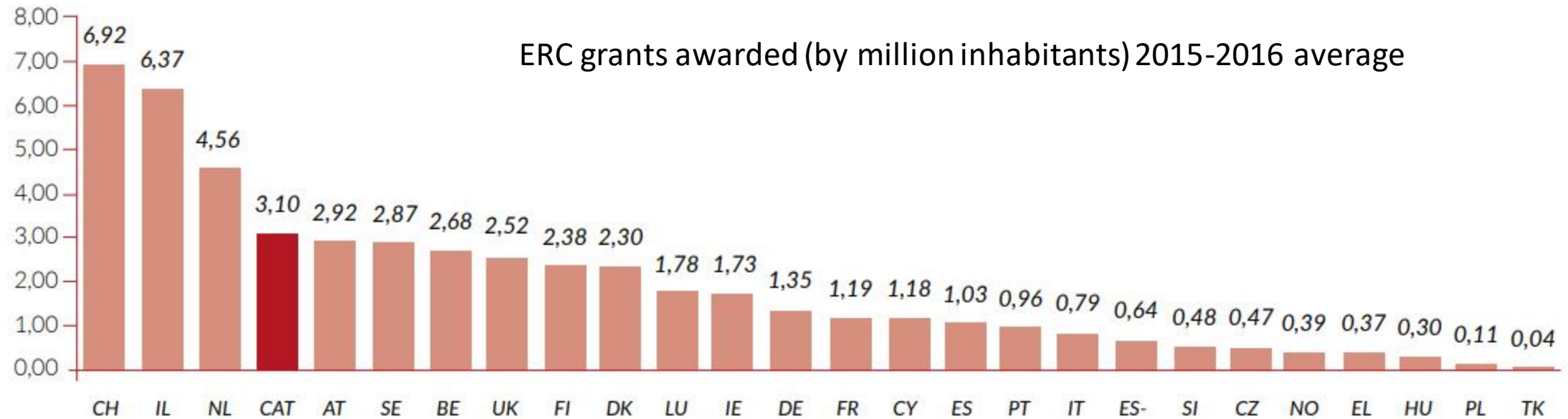
# About Catalonia and its universities



Public

Private

# About Catalonia and its universities

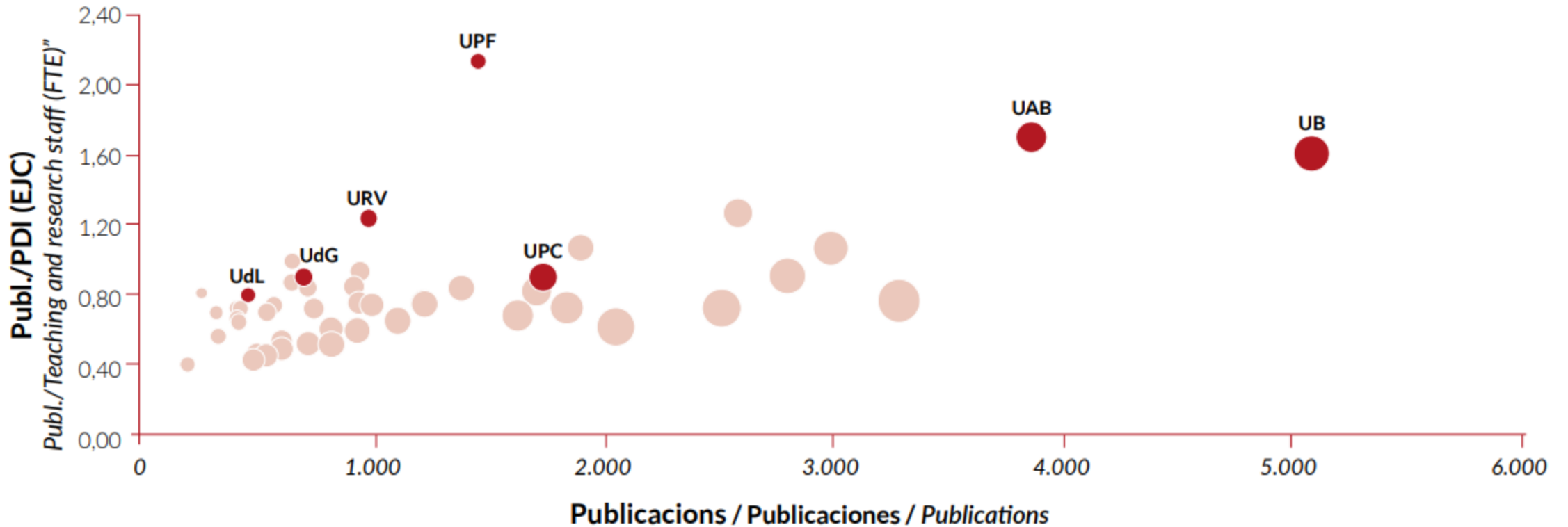


CH: Suïssa IL: Israel NL: Països Baixos CAT: Catalunya AT: Àustria SE: Suècia BE: Bèlgica UK: Regne Unit  
 FI: Finlàndia DK: Dinamarca LU: Luxemburg IE: Irlanda DE: Alemanya FR: França CY: Xipre ES: Estat espanyol  
 PT: Portugal IT: Itàlia ES-: Estat espanyol (exclou CAT) SI: Eslovènia CZ: Txèquia NO: Noruega EL: Grècia  
 HU: Hongria PL: Polònia TK: Turquia

Source: Institute for Catalan Studies and European Research Council.

# About Catalonia and its universities

Number of research publications per FTE academic staff, 2015



● Universitats públiques espanyoles  
Universidades públicas españolas  
Spanish public universities

● *Universitats públiques catalanes*  
Universidades públicas catalanas  
Catalan public universities

Volum: PDI (EJC)  
Volumen: PDI (EJC)  
Volume: Teaching and research staff (FTE)

# About Catalonia and its universities

## Full-time equivalent staff and indexed publications

Universitat / Universidad / University	Publicacions Publicaciones Publications	PDI doctor a temps complet PDI doctor a tiempo completo Full time teaching and research staff with PhDs	Publicacions/PDI doctor a temps complet Publicaciones/PDI doctor a tiempo completo Publications/full time teaching and research staff with PhDs
Universitat de Barcelona	4.970	2.339	2,12
Universitat Autònoma de Barcelona	3.780	1.529	2,47
Universitat Politècnica de Catalunya	1.711	1.493	1,15
Universitat Pompeu Fabra	1.435	452	3,17
Universitat de Girona	695	544	1,28
Universitat de Lleida	459	455	1,01
Universitat Rovira i Virgili	970	556	1,74
Universitat Oberta de Catalunya	125	205	0,61
<b>Total</b>	<b>14.145</b>	<b>7.573</b>	<b>1,87</b>

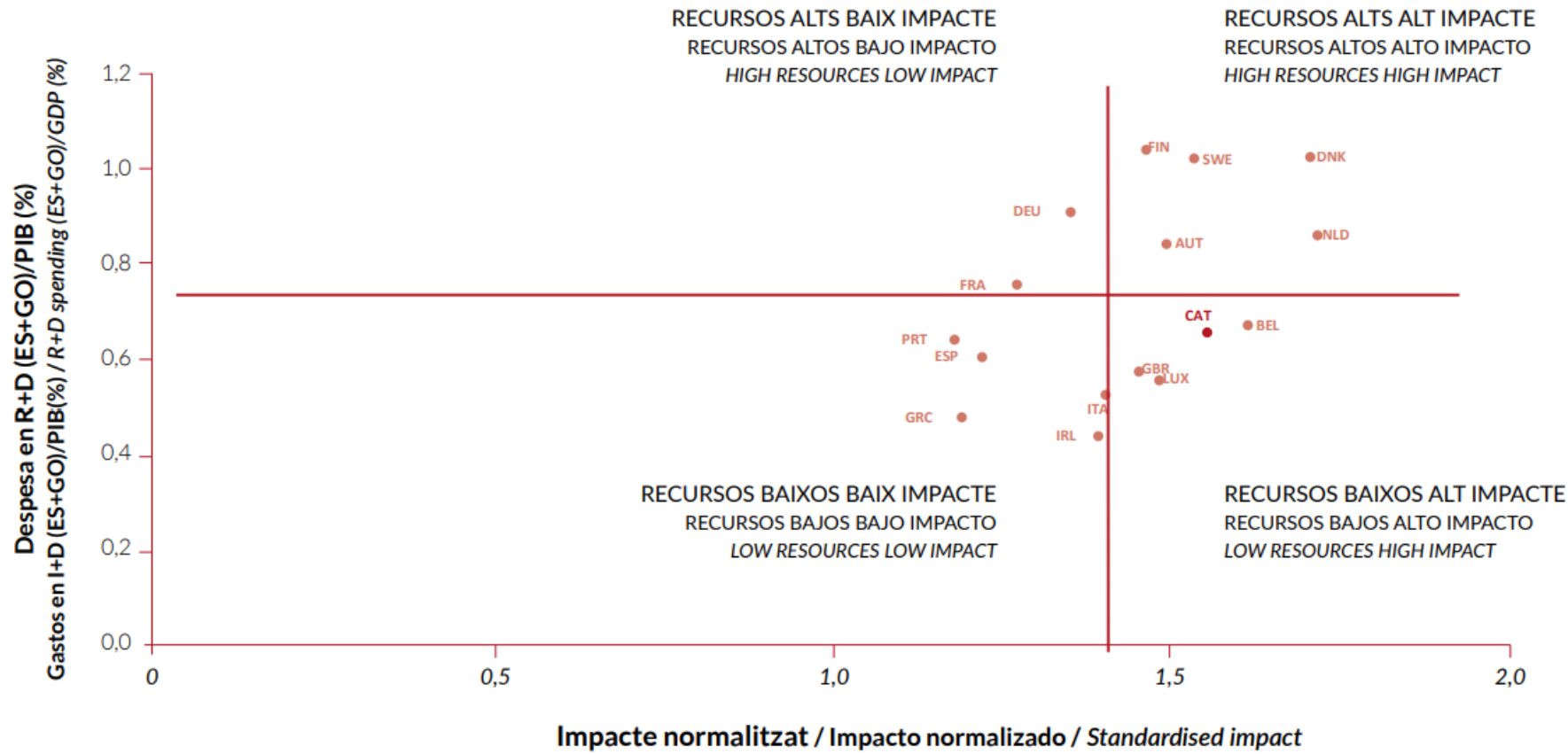
Font: UNEIX i UOC (PDI doctor) i Web of Science (publicacions). Data d'extracció: 31/06/2016

Fuente: UNEIX y UOC y Web of Science, 2015 (publicaciones). Fecha de extracción: 31/06/2016

Source: UNEIX and UOC (teaching and research staff with a PhD) and Web of Science (publications). Data: 31/06/2016

# About Catalonia and its universities

Expenditure on R+D (higher education and government) in relation to GDP and the impact of scientific output, 2010-2015

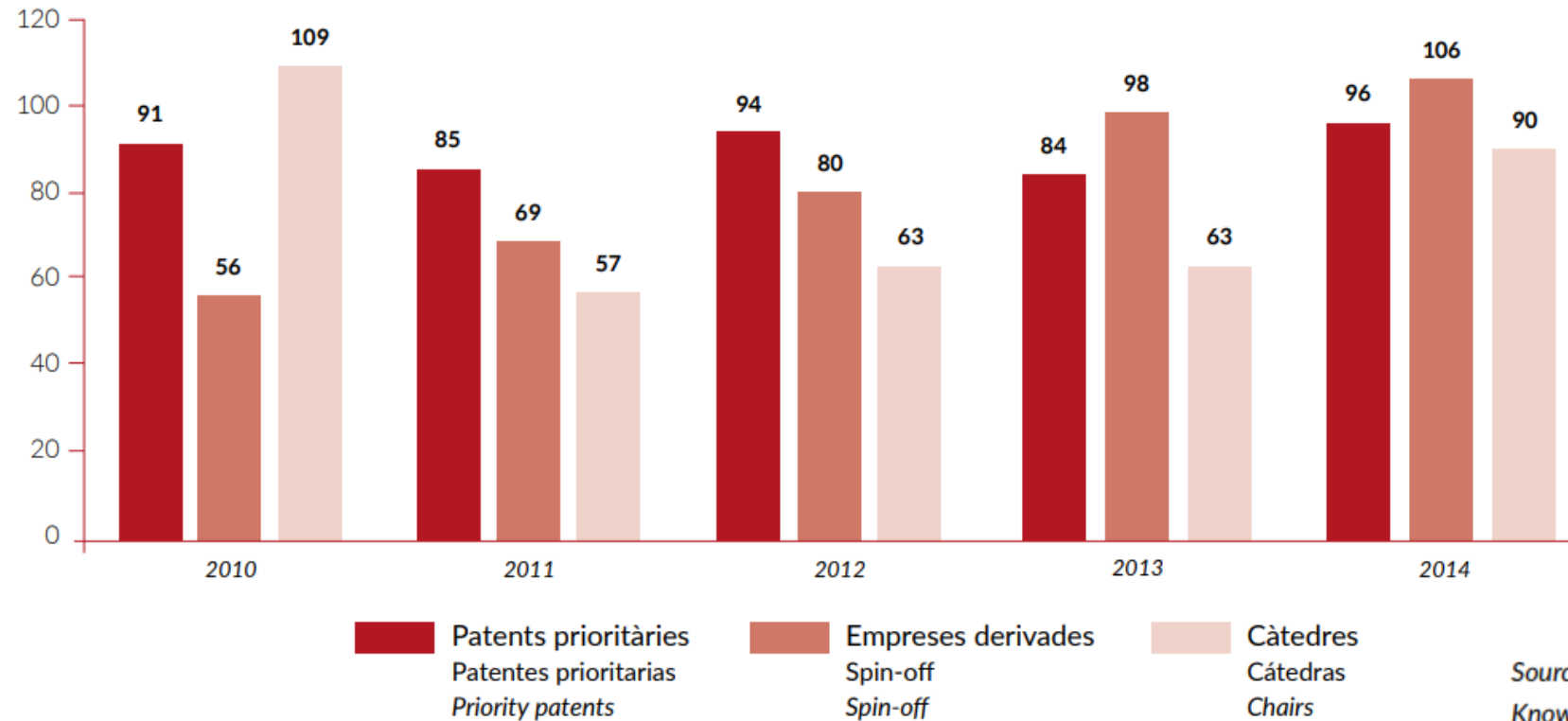


Source: Prepared by the authors from the CYD Report 2015. The contribution of Spanish universities to development (standardised impact) and Eurostat (R+D spending as % of GDP)

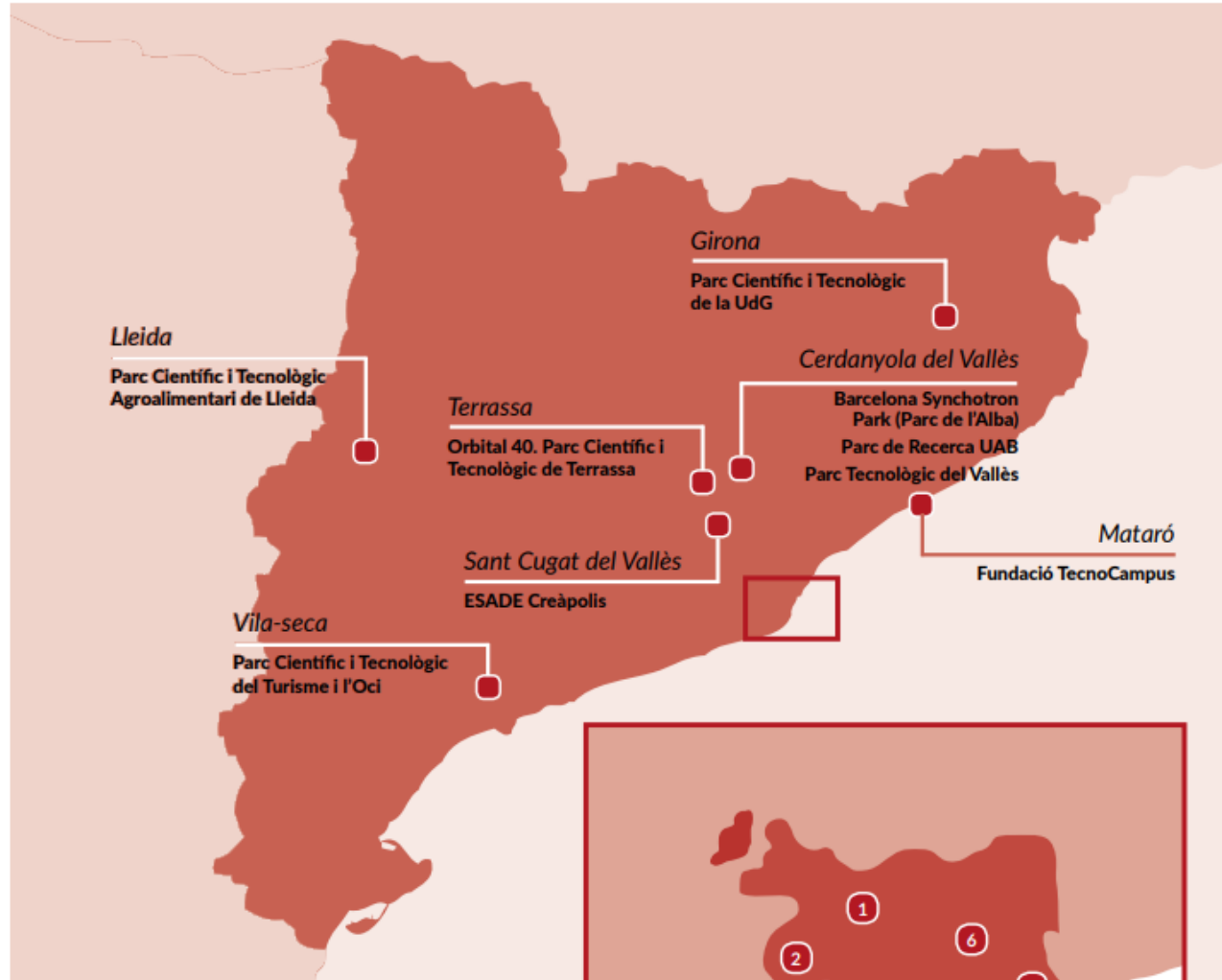


# About Catalonia and its universities

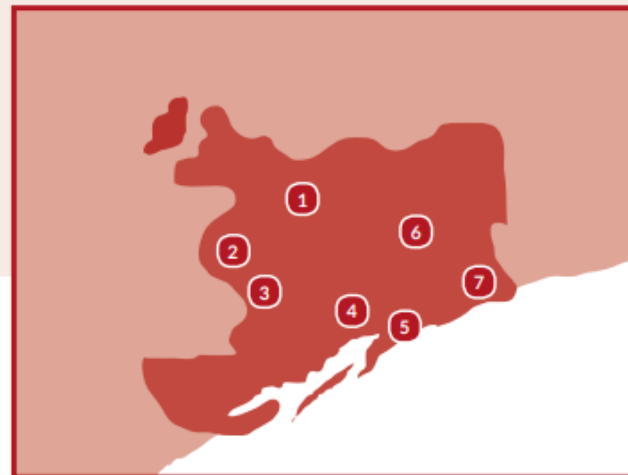
Priority patents, active spin-off companies and current university-business-society chairs



Source: For patents, Report of Investigation and Knowledge Transfer in Spanish Universities 2014. RedOTRI-RedUGI, CRUE. Data was provided by UNEIX for spin-offs, and by the universities for the chairs



1. La Salle Technova Barcelona
2. Parc UPC
3. Parc Científic de Barcelona
4. Parc de Recerca UPF
5. Parc de Recerca Biomèdica de Barcelona
6. Barcelona Activa (seu)
7. BTEC Barcelona Innovació Tecnològica



## About Catalonia and its universities

Science and technology parks (STPs)



The Autonomous  
University of  
Barcelona





UAB

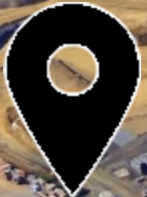


The Autonomous University of Barcelona

ALBA Synchrotron



ALBA Park



Vallès Technology Park





## The UAB: some figures

31,000 undergraduate + 11,000 graduate students

90 bachelor degrees + 270 master programmes + 68 PhD programmes

5,500 EU and international students every year

#188 worldwide university (2<sup>nd</sup> state) QS Shanghai ranking (2019)

#145 worldwide (#76 in Europe) university (2<sup>nd</sup> state) Times Higher Education ranking (2019)

#168 worldwide university (3<sup>rd</sup> state) Best Global Universities ranking (2019)

57 departments, 264 consolidated research groups, 68 research centres and institutes

5,800 indexed publications in 2017

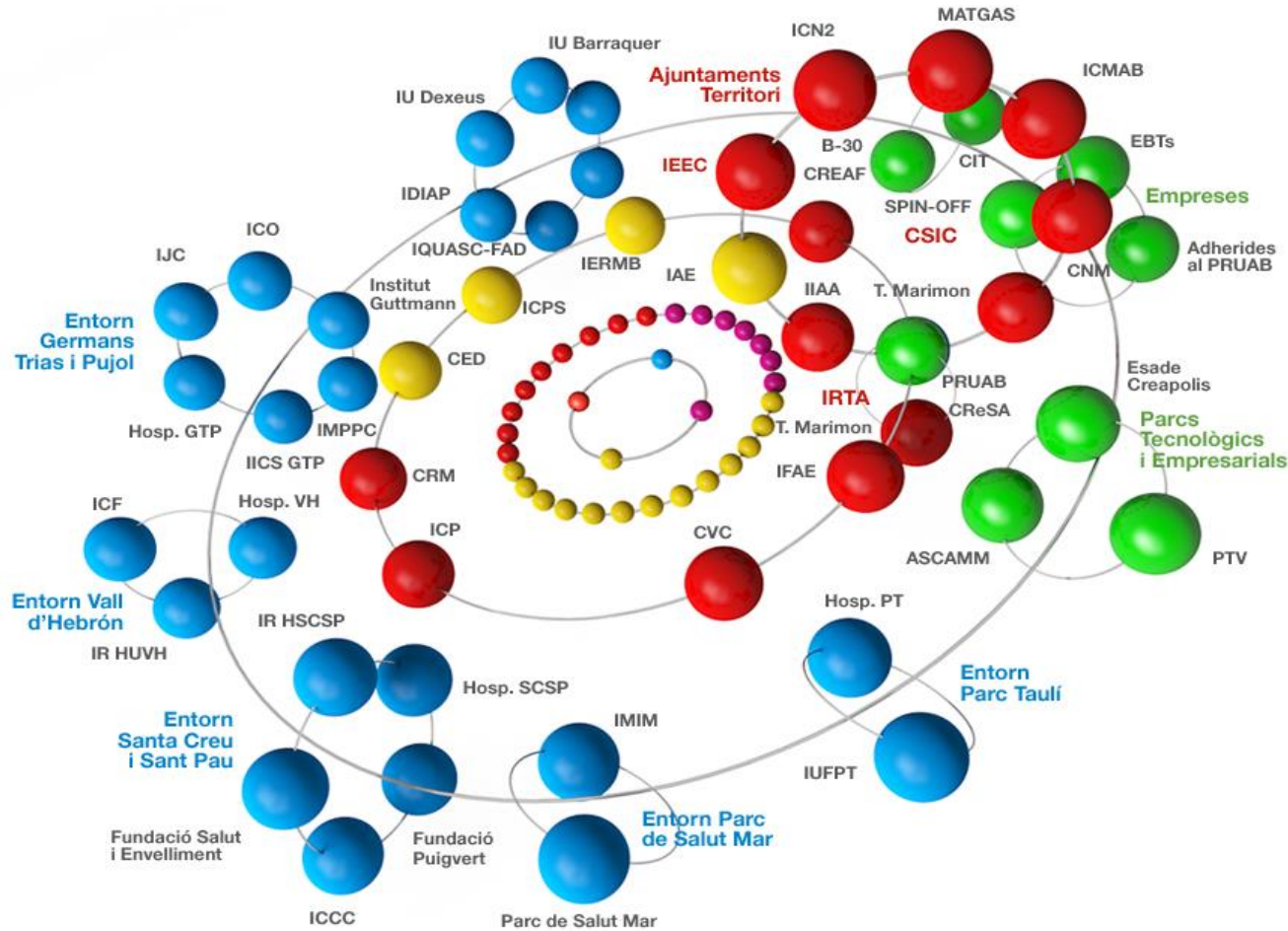
30 million Euro in competitive projects funding in 2018 + 18 million in non-competitive

65 new patents (2017)

>90 companies on research results created since 2007 (>750 employees, 80% success rate)



# The UAB sphere



The UAB is the hub of the UAB sphere, a knowledge ecosystem that includes research centres and the largest hospital network in Catalonia

# The UAB: Infrastructure

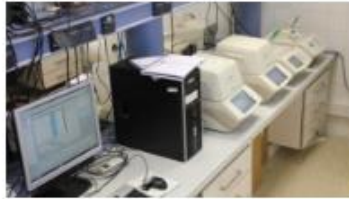
## Main R&D infrastructure facilities

**LIGIT**



Laboratory of Geographical Information and Remote Sensing

**LLEB**



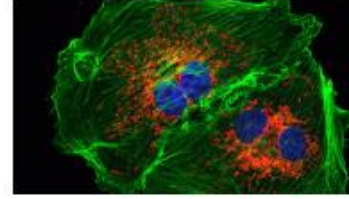
Laboratory of Luminescence and Spectroscopy of Biomolecules

**SAQ**



Chemical Analysis Service

**SM**



Microscopy Service

**SePBioEs**



Proteomics and Structural Biology Service

**SE**



Animal Facility

**SDRX**



X-ray Diffraction Service

**SEA**



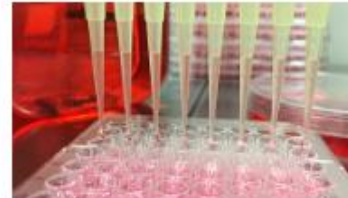
Applied Statistics Service

**SGB**



Genomics and Bioinformatics Service

**SCAC**



Crop, Antibody and Cytometry

**SGCE**



Service of Farms and Experimental Fields

**SeRMN**



Magnetic Resonance Service

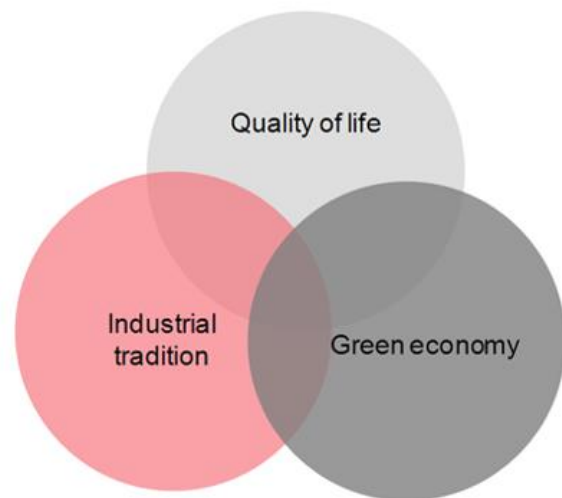
**UTPR**



Technical Unit for Radiological Protection

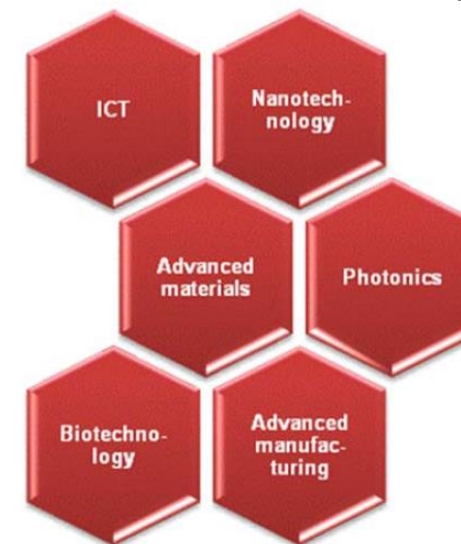
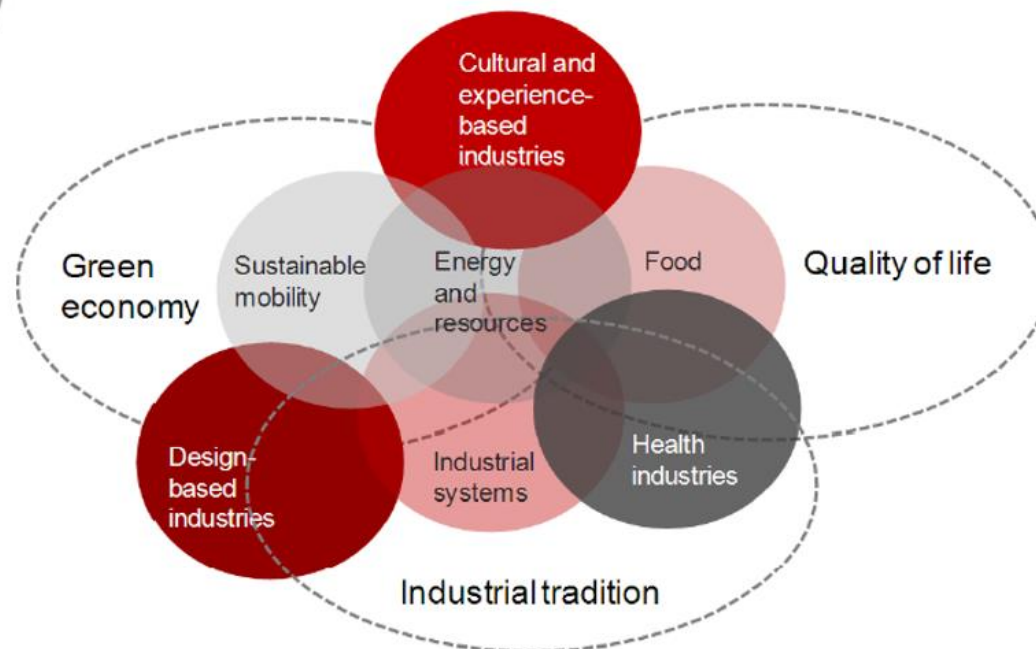
+ 42 other technical services and service providing labs

## Strategic priorities



# The RIS3CAT

## Specialisation sectors



## Key enabling technologies

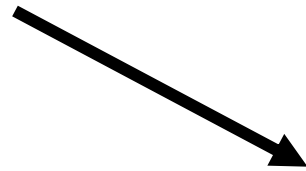
## ERDF T.O.1 policy instruments for (or with) HEIs

- I. **Knowledge industry:** development of applied new technologies in HEIs
- II. **Research infrastructure:** updating of or new infrastructure for R&D providers
- III. **Nucleus:** subsidies for high tech companies that can have the support of R&D providers
- IV. **RIS3CAT Communities:** joint thematic projects for R&D providers and companies
- V. **Territorial specialisation projects:** 4-helix innovation projects in Catalan territories linked to the specific challenges of those participating
- VI. **CATLabs:** definition of new innovation ideas + pilot actions testing
- VII. **Industrial doctorates:** PhD students collaborating with firms for new R&I projects
- VIII. **Knowledge transfer actions:** improvement of the actions of HEIs' TTOs.

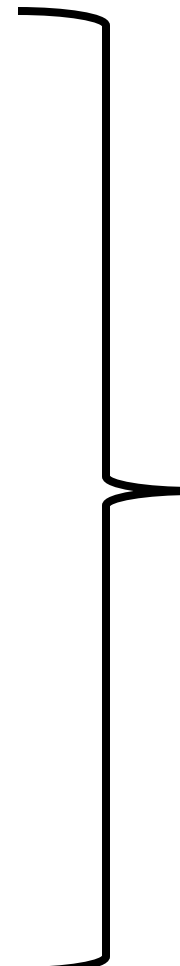
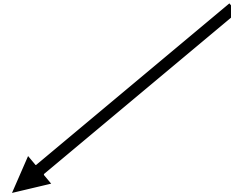


# InnoHEIs, policy instrument, and towards action plan

**UAB**  
Universitat Autònoma  
de Barcelona



  
**Generalitat de Catalunya**  
Government of Catalonia



Axis 1: Rethinking the policy instrument calls to enlarge the use of Catalan HEIs' infrastructure for business innovation

Axis 2: Further develop the social innovation approach based on participatory labs where HEIs infrastructures are key for new innovative business ideas

Axis 3: Develop a long-term collaboration with the regions/states of the partnership around HEIs and business innovation, linking it to use of HEIs' infrastructure





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Thank you!