

**Developing entrepreneurship in
cities and regions: HEIs' role**

Company Creation in Catalonia

by

M. Parellada, Fundació CYD & J. M. Vilalta, Associació
Catalana de Universitats Publicas ACUP

10 – 11 September 2009

OECD

Roundtable meeting for regions involved in the Reviews of HE in regional
and city development

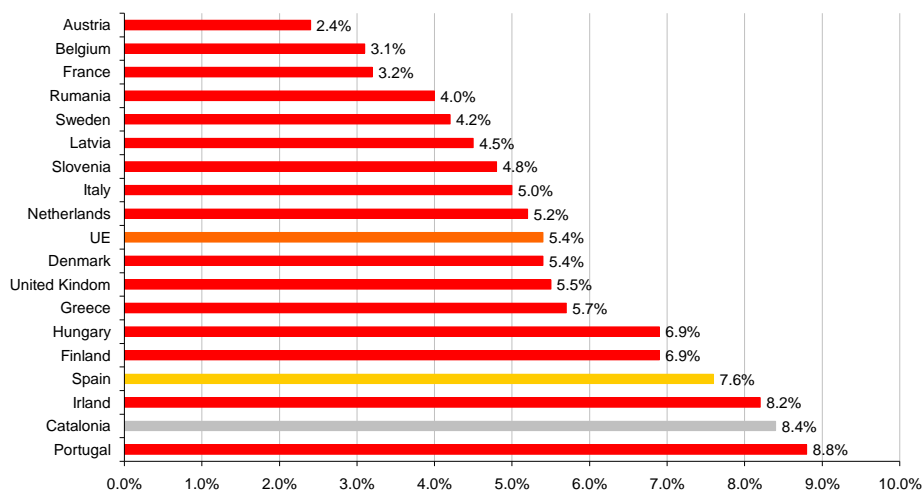
**Universities contribute to the business formation and
development through**

- Technology transfer
- Delivery of advisory and consultation services
- Increase of human capital reserves
- Fostering the research-information-technology system

Success in the promotion of entrepreneurship depends for example on

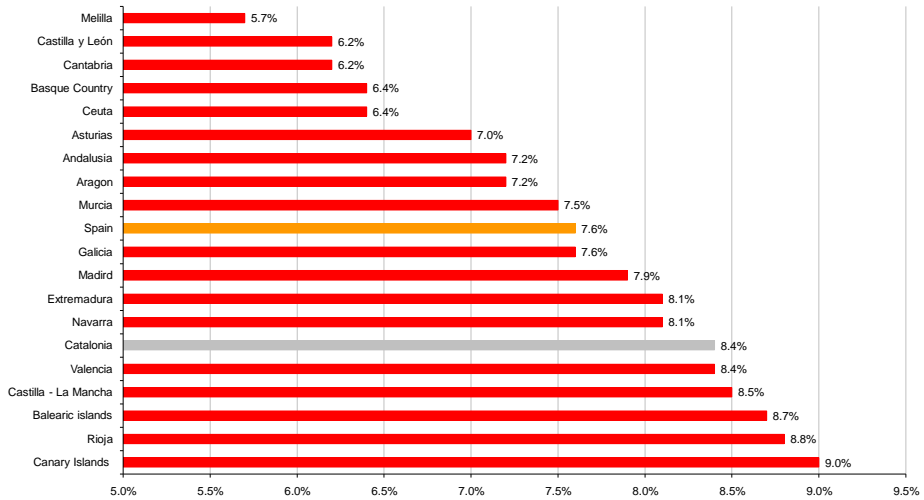
- Quality and quantity of technology transfer
- Research quality
- Physical and financial resources
- Governance systems of the university
- Support services (Technology transfer offices, Scientific and Technological Parks, etc.)
- Territorial surroundings (Profile of entrepreneurs, creation of SMEs and co-operation between companies and institutions)

% of new companies versus the adult population in comparison with European Union countries. In 2007



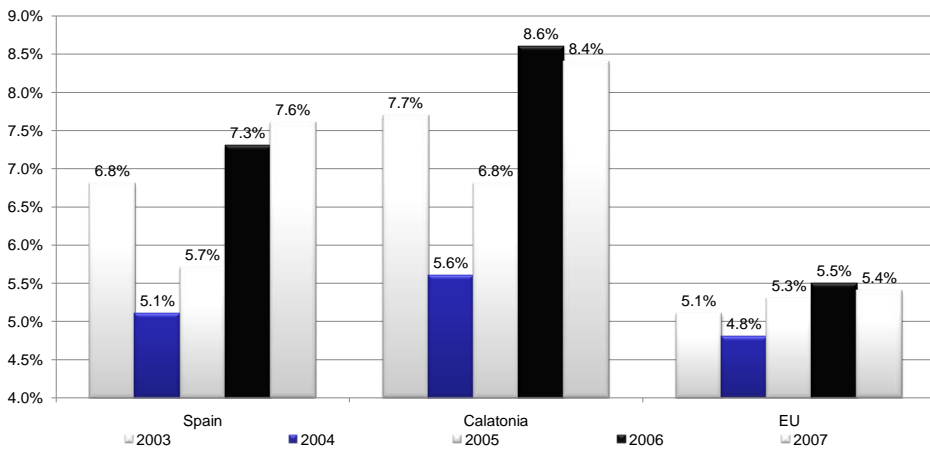
Source: GEM 2007

% of new companies versus adult population in Spanish regions. In 2007



Source: GEM 2007

Evolution of the creation of new companies over the percentage of adult population



Source: GEM 2007

General context: entrepreneurs and companies

Entrepreneurs

- 66% are men
- The majority (38%) are aged between 45 and 54
- 58% have secondary or university education
- The average income of 70% of entrepreneurs exceeds EUR 1800 per month

Companies

- 31.7% belong to the sector of products targeted at consumers
- 83.4% have at least 5 employees
- 66.4% have a turnover of at least EUR 250 000 euros per year
- 63.7% are not innovative and 93.2% have a low technology profile
- 71.9% use technologies dating back over 5 years

General profile of the state university system in Catalonia. in 2007

	Catalonia ^(a)	Spain ^(b)
<i>Budget (in millions of euros)</i>	1,509.6	8,052.4
<i>Research faculty (Full-time equivalent)</i>	10,050.0	77,167.6
<i>R&D expenses (in millions of euros)</i>	459.0	2,547.7
<i>Existence of regulations on the creation of technology-based companies</i>	42.9%	39.3%
<i>Availability of company incubators</i>	42.9%	42.6%
<i>Existence of Science and Technology Parks</i>	85.7%	47.5%

(a) The following Catalan universities were studied: Lleida Uni, Girona Uni, Barcelona Uni, Aut3noma de Barcelona Uni, Pompeu Fabra Uni, Oberta de Catalunya Uni and Polit3cnica de Catalunya Uni

(b) 61 Spanish universities were included in the sample

Source: OTRI University network

% of Technology Transfer Offices developing the following functions

	Catalonia ^(a)	Spain ^(b)
Research services	85.7%	50.8%
R&D in cooperation with companies	14.3%	29.5%
Knowledge protection management	100.0%	91.8%
Licenses	85.7%	83.6%
R&D and consulting contracts	100.0%	90.2%
Rendering of technical services	71.4%	75.4%
Company creation support	57.1%	68.9%
Scientific park management	14.3%	16.4%
Seed capital management	14.3%	18.0%
Life-long learning	100.0%	89%

(a) The following Catalan universities were studied: Lleida Uni, Girona Uni, Barcelona Uni, Autònoma de Barcelona Uni, Pompeu Fabra Uni, Oberta de Catalunya Uni and Politècnica de Catalunya Uni

(b) 61 Spanish universities were included in the sample

Source: OTRI University network

Results of the creation of companies at universities. in 2007

	Catalonia ^(a)	Spain ^(b)
Number of licensing contracts and options signed	17	190
Number of licensing contracts and options signed with own spin-offs	9	52
Total R&D contracts	1652	10113
Total value of R&D contracts signed (in millions of euros)	70.2	408.2
R&D contract income (in millions of euros)	16.7	190.9
Spin-offs created over the 2002-2007 period	65	361
% of spin-offs surviving in 2007	95.4%	93.4%
Spin-offs	17	114
Start-ups	8	120

(a) The following Catalan Universities were studied: Lleida Uni, Girona Uni, Barcelona Uni, Autònoma de Barcelona Uni, Pompeu Fabra Uni, Oberta de Catalunya Uni and Politècnica de Catalunya Uni

(b) 61 Spanish universities were included in the sample

Source: OTRI University network

References

- Morales, S; Gutiérrez, A y Roig, S. (2008). *¿Por qué crean spin-offs académicas los investigadores españoles?. Informe CYD 2008*
- OECD (2008). *Global Entrepreneurship Monitor. Informe ejecutivo de Cataluña 2007*
- RedOTRI (2008). *Informe de la encuesta RedOTRI 2007*
- Solé, F. (2005). *La creación de empresas desde la universidad como contribución al desarrollo regional. Informe CYD 2005*