



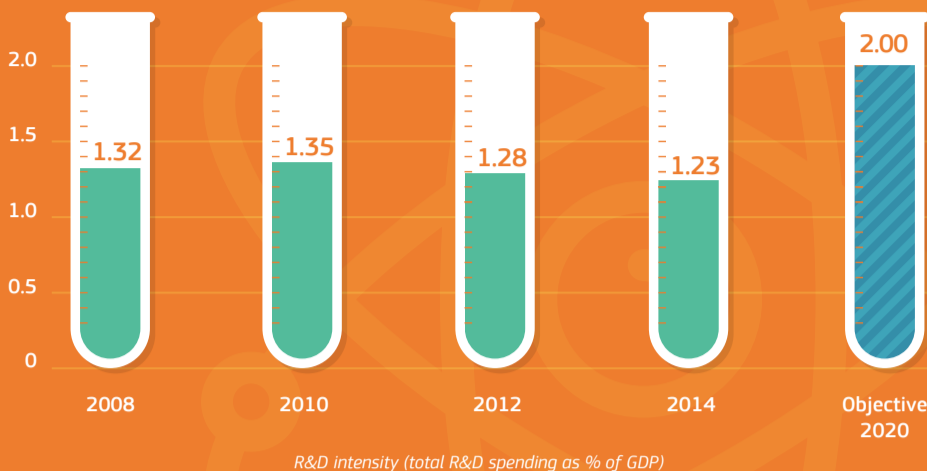
# Spain

Providing incentives for academia-business cooperation to leverage business R&D investment

## INVESTMENT IN R&D

### R&D SPENDING

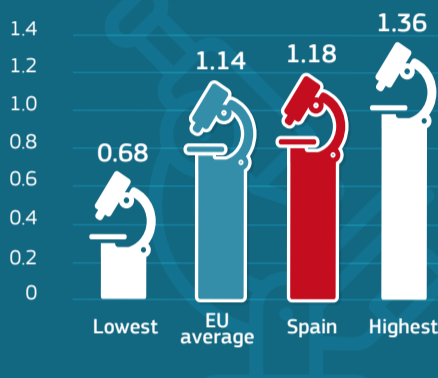
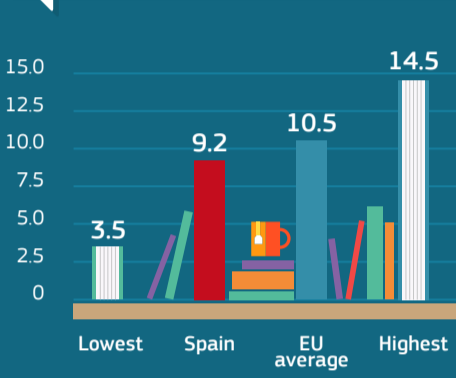
R&D investment is losing ground – and reaching the national R&D intensity target remains a challenge



## STRENGTHS OF R&I SYSTEM

### QUALITY OF RESEARCH SYSTEM

Good performance in terms of scientific outputs

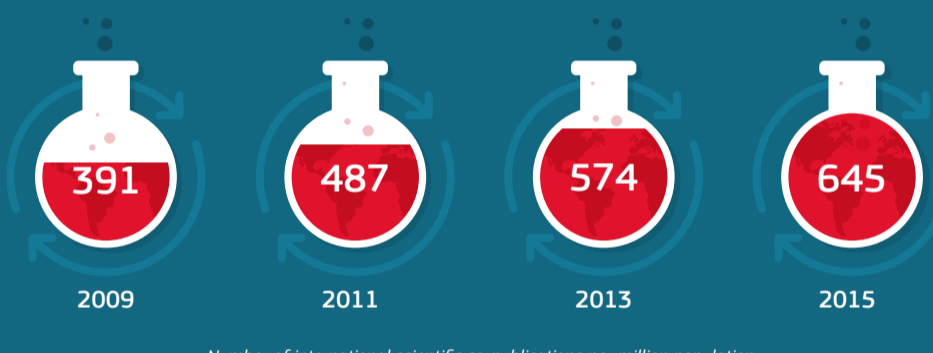


% of scientific publications that are highly cited (top 10%) in other publications (2013)

Average impact factor (ARIF) of scientific publications (2013)

### INTERNATIONAL COOPERATION

Policy makes efforts to focus the national R&I system on societal challenges and open it up to the world

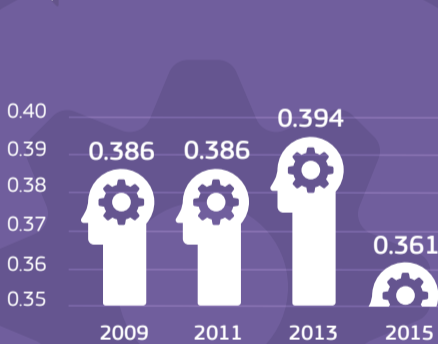


Number of international scientific co-publications per million population

## KEY CHALLENGES

### INNOVATION RANKING

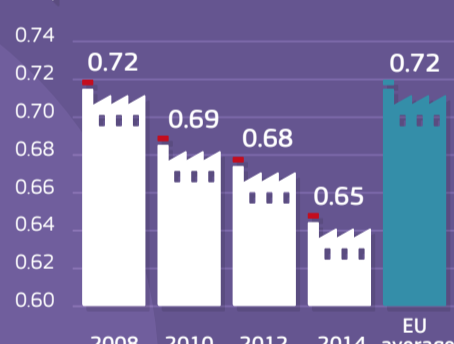
Innovation performance is falling...



Ranking in European Innovation Scoreboard

### BUSINESS R&D SPENDING

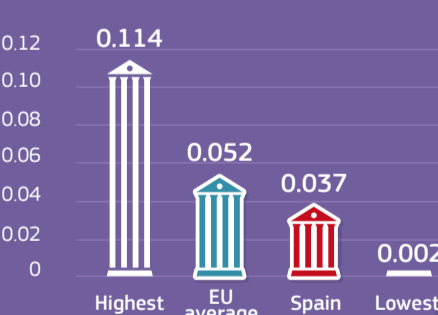
...as well as business R&D investment



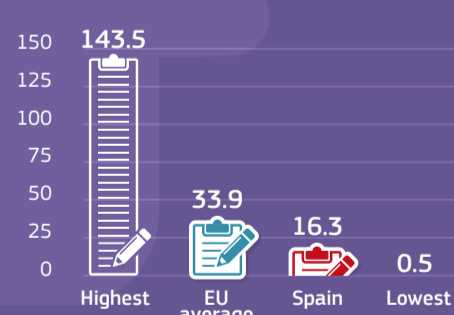
Business R&D intensity (business R&D spending as % of GDP)

### PUBLIC-PRIVATE COOPERATION

Weak interaction between public research and business holds back the potential for knowledge circulation



Public-performed R&D financed by business, as % of GDP (2013)



Number of public-private co-published research papers per million population (2014)

## RECOMMENDATIONS

### 2016 EUROPEAN SEMESTER – COUNTRY SPECIFIC RECOMMENDATION



Take further measures to improve the labour market relevance of tertiary education, including by **providing incentives for cooperation between universities, firms and research. Increase performance-based funding of public research bodies and universities and foster R&I investment by the private sector**

### HORIZON 2020 POLICY SUPPORT FACILITY ACTIVITIES



Spain has participated in three **Mutual Learning Exercises**:

1. **Evaluation of business R&D grant schemes** (as core country)
2. **Evaluation of complex public-private partnerships** (as observer country)
3. **Performance-based funding of public research**