

# The French higher education, research and innovation landscape

2019



[www.enseignementsup-recherche.gouv.fr](http://www.enseignementsup-recherche.gouv.fr)



MINISTÈRE  
DE L'ENSEIGNEMENT SUPÉRIEUR,  
DE LA RECHERCHE  
ET DE L'INNOVATION



6<sup>th</sup> in the world for scientific publications



2<sup>nd</sup> in the world in number of Fields Medals  
4<sup>th</sup> in number of Nobel Prizes



2<sup>nd</sup> in Europe and 6<sup>th</sup> in the world for public patent filings (16,600 in 2012)



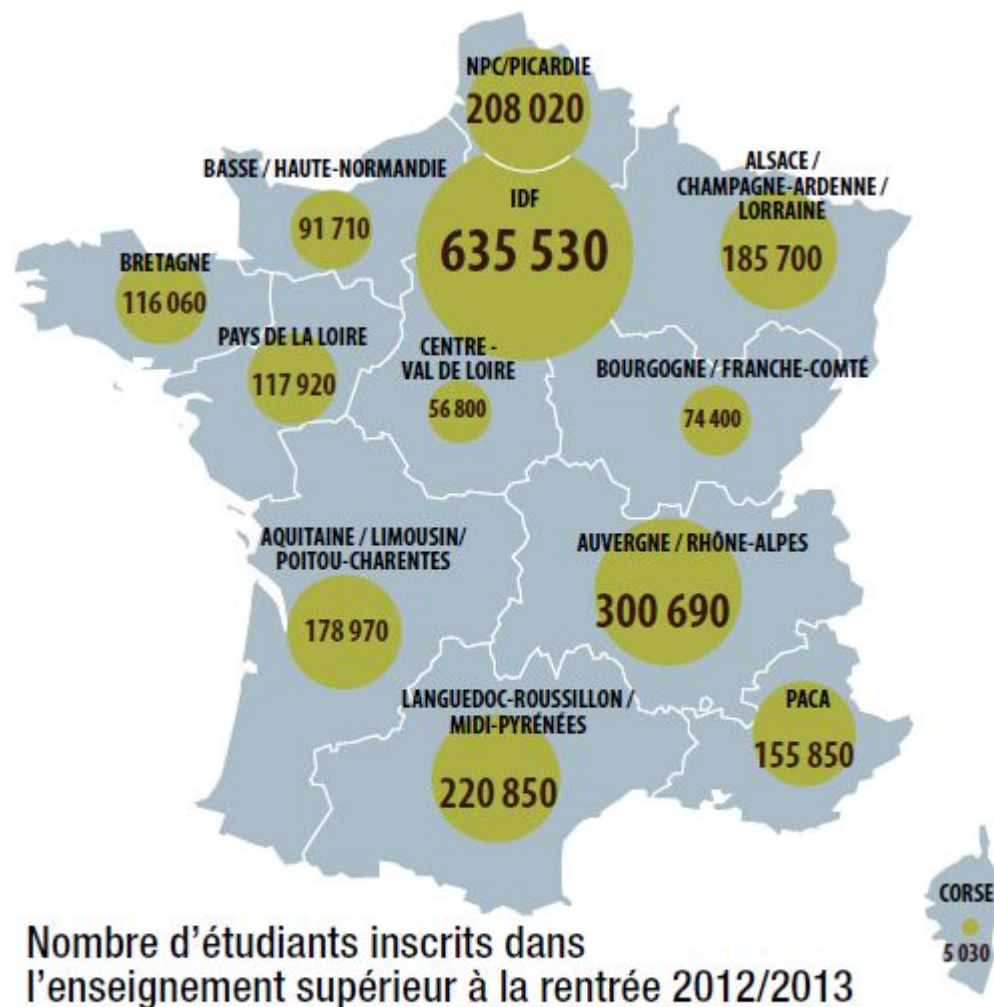
# Higher Education: facts & figures

**2,466,500 students**

**63% of students in universities**

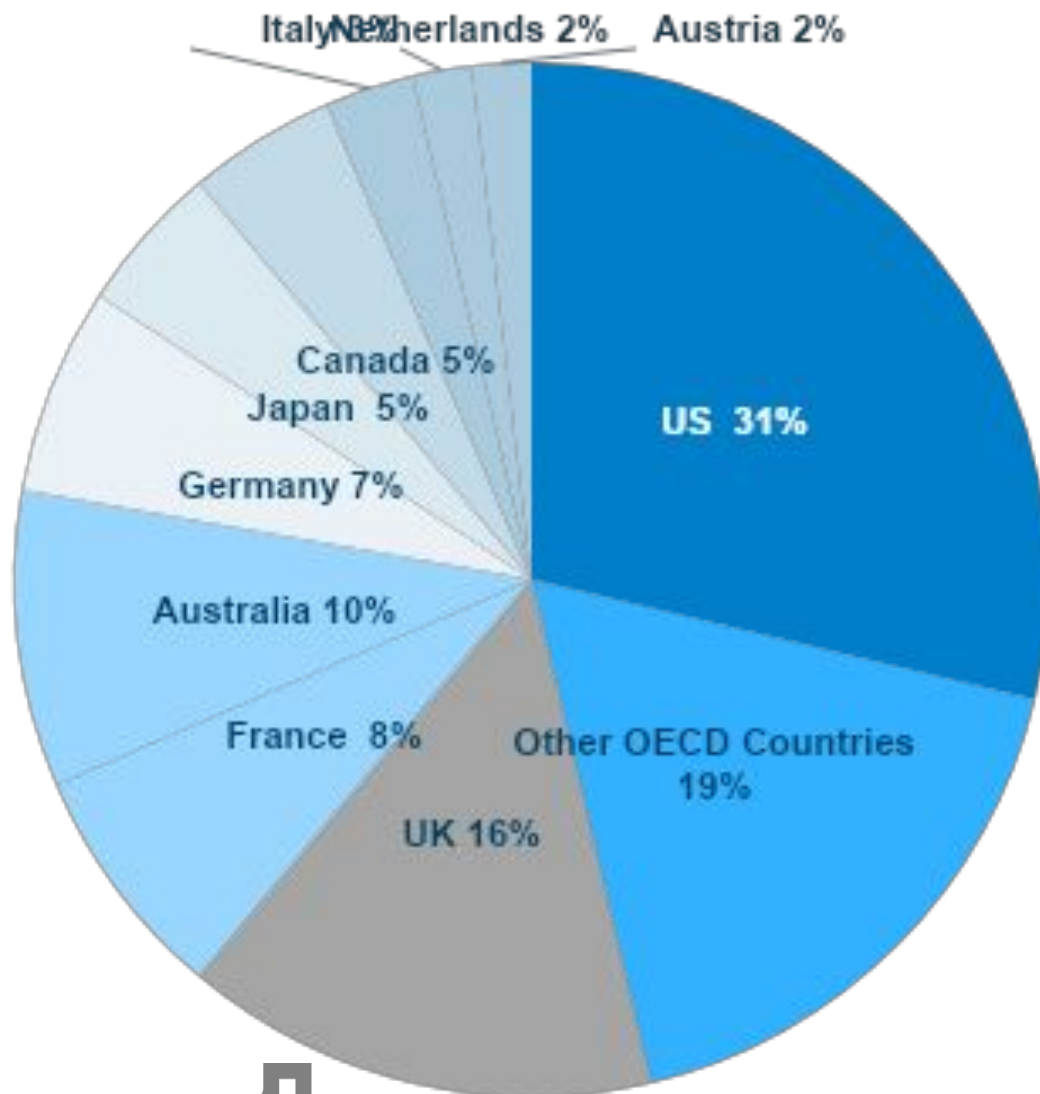
**12,000 new doctors**  
Every year

**58,000 academic staff**



# Higher Education: facts and figures

France is the 4th welcoming country of mobile students in the world





## Higher Education institutions

- 76 public universities
- 206 « Elite schools » (Ecole Polytechnique...)
- 220 business and management schools
- ...



## Public Research institutions

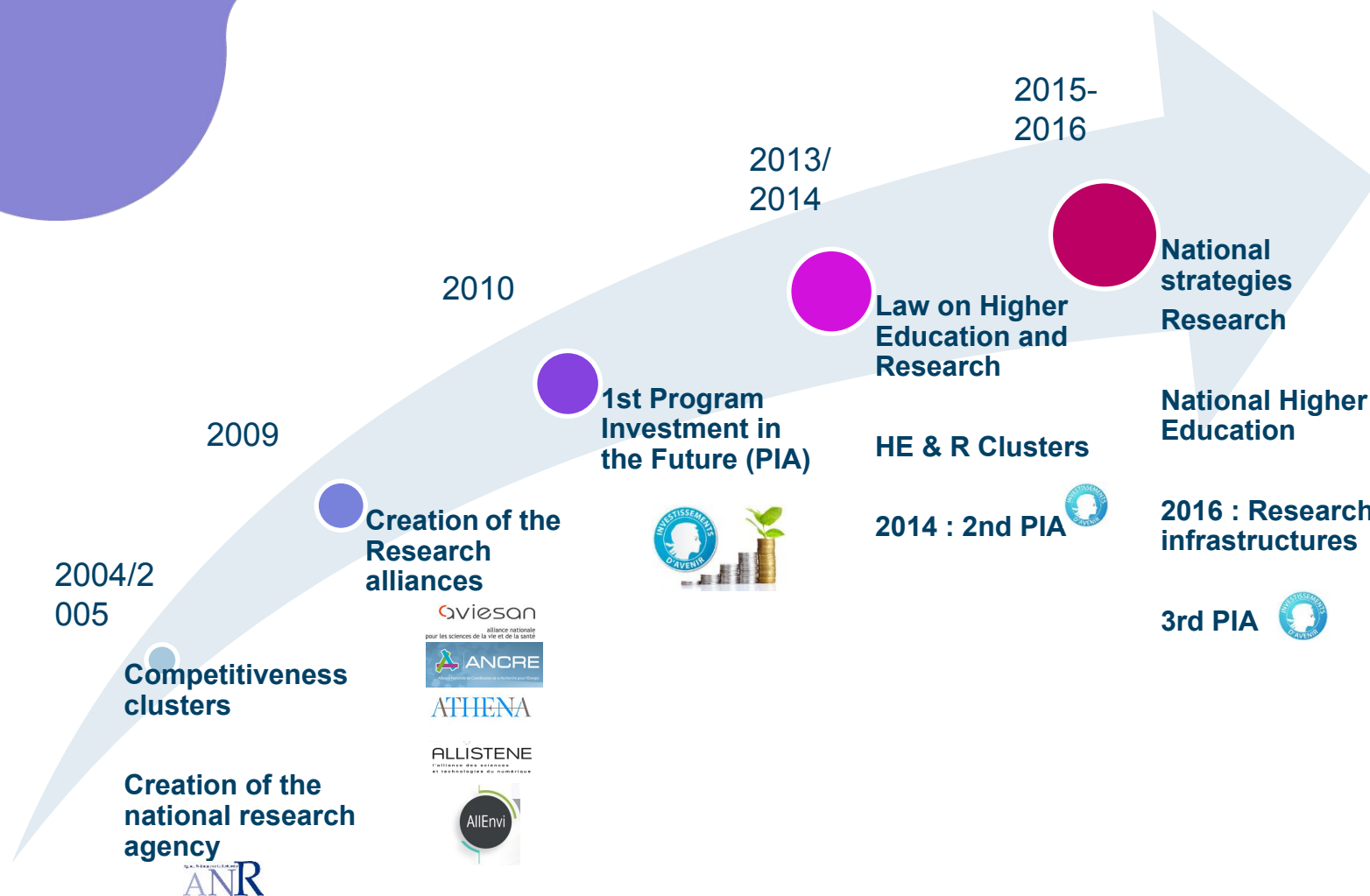
- 19 Public research institutions (CNRS, INSERM, INRA, INRIA, CEA, ...)



## Private research

- Private foundations with public funding : Pasteur and Curie institutes, numerous research foundations...
- Private research focusing on 5 sectors of excellence: aeronautics, communication equipment, automotive, IT services and pharmaceuticals

# Key steps to foster the knowledge triangle in France

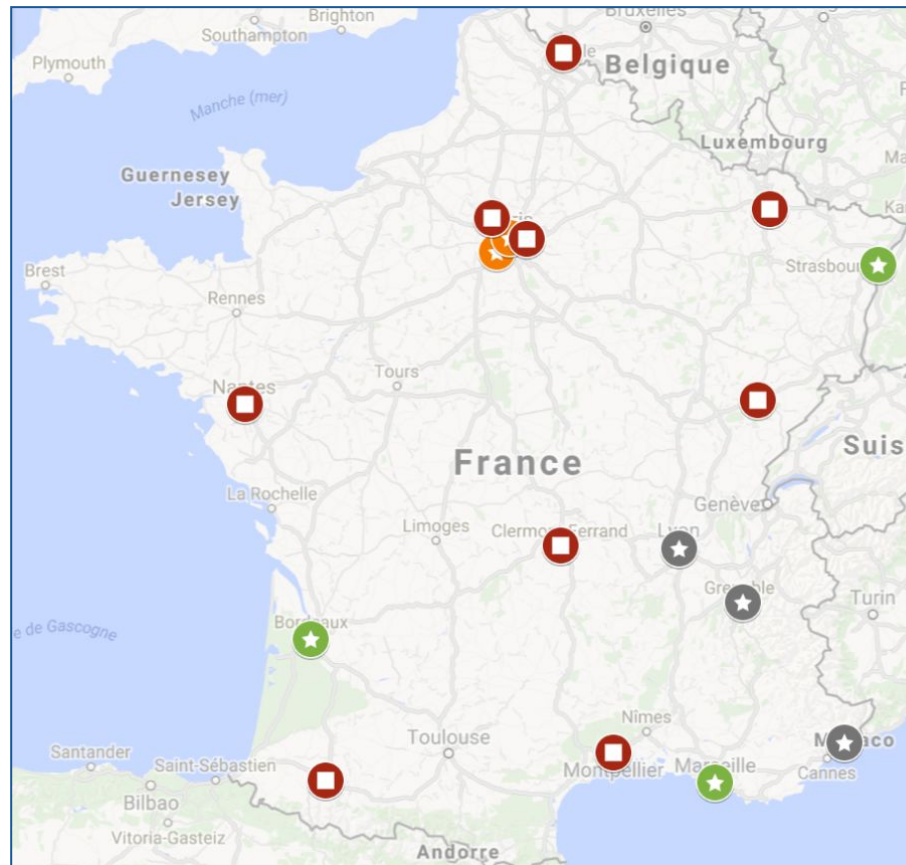


# Excellence clusters: IDEX & I-SITE,

**IDEX: Initiatives of Excellence**

**I-SITE « Science – Innovation – Territoires – Economie »**

-  IDEX confirmed
-  IDEX probationary period
-  IDEX of PIA 3
-  I-SITE



# French national research strategy (2015-2020)

“France-Europe 2020”, published in April 2015



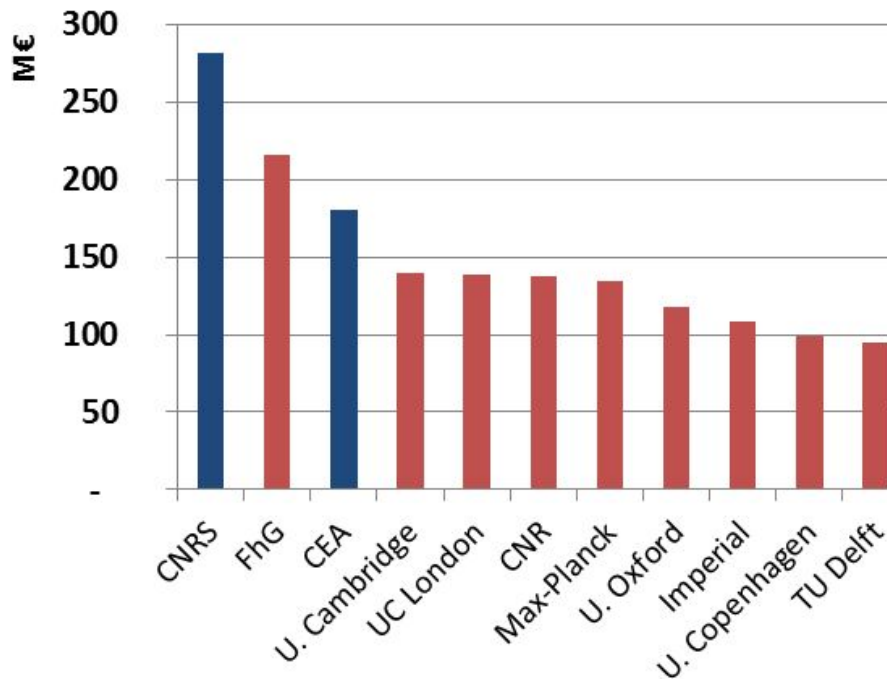
## Focusing on 10 societal challenges

- Sustainable resources and adaptation to climate change
- Secure, clean and efficient energy
- Industrial rebirth
- Health and wellbeing
- Food security and demographic challenge
- Mobility and sustainable urban systems
- Information and communication society
- Innovative, inclusive and adaptive societies
- A space ambition for Europe

# French results in the framework programmes

**Third beneficiary** of FP grants after Germany and UK

**Highest success rate** : 23,6 % in FP7 – 17,5% for the first period of H2020

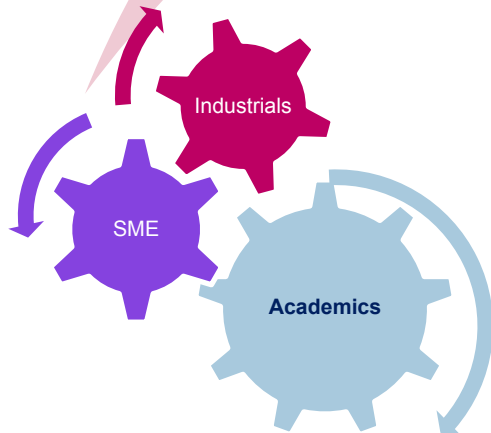


Two French research organizations - **CNRS** and **CEA** – among the top 5 beneficiaries in FP7 and H2020.

# Innovation policies in France

## The funding landscape

- ✓ CIFRE grants
- ✓ Carnot Institutes
- ✓ Competitivity Clusters
- ✓ CIR
- ✓ H2020



## Partnership Research

- ✓ SATT
- ✓ Patents, extension to the International Patent

## Technology transfer

- ✓ Global Innovation Competition

- ✓ BPI France \*Eureka



\*Bilateral agreements

- ✓ National competition I-Lab
- ✓ Worldwide Innovation Challenge
- ✓ French Tech



**Student orientation and success**

**Experimentations**

**Internationalization/mobility**

**Horizon Europe/EIC**

**European Universities**

**LPPR**



