

FRENCH HIGHER EDUCATION:

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I. HISTORICAL PERSPECTIVES

Sorbonne University



1793 – 2013 :

death and revival of the French universities

- ◆ 1253 : creation of Sorbonne university
- ◆ 1793: independent faculties, and high education schools
(polytechnic, central, mines)
- ◆ 1968: New law (Faure) redefines “comprehensive universities” as public institutions based on several principles including autonomy and multidisciplinary
- ◆ 1984 : Savary law
- ◆ 2007 : LRU law
- ◆ 2013 : ESR law

1970 – 2005 :

A long way towards the revival of universities

- ◆ Context : huge increase of students (from 600 000 students in 1965 to 2.2 million today)
- ◆ Need to reinforce the centralization of administrative services and to set up university strategies, encouraged by a 4 year contract between the University and the State
- ◆ Organisation of Doctoral schools
- ◆ 2004 : Development of the Bologna Process in all universities, involvement in Erasmus and Erasmus Mundus programs

2005 – 2014 : Between Cooperation and Competition : to reinforce the autonomy

- Creation of :
 - ◆ The National Agency for Research (ANR)
 - ◆ The National Agency for University Evaluation (AERES)

- LRU : law on autonomy and accountability of the universities (august 2007) looks like a law of decentralization :
 - ◆ Statutory changes : governance
 - ◆ HR & financial autonomy
 - ◆ Funding increased by € 1 Billion per year during 5 years (in fact from 2008 to 2009, less in the following 3 years due to the crisis)

Other challenges for up-coming years

French university in 2020

- ◆ University able to combine vocational system and LLL in all fields (opening on society) and promoting the pluri-disciplinarity
- ◆ Students mobility increased (From 10% to 20% then 50% outgoing mobility)
- ◆ Attractiveness reinforced
- ◆ Innovation in education, research & innovation strategies
- ◆ Reinforce the whole chain of research and innovation (from basic research...) for the economical development : toward an ecosystem of HE-R-I

Other challenges for up-coming years

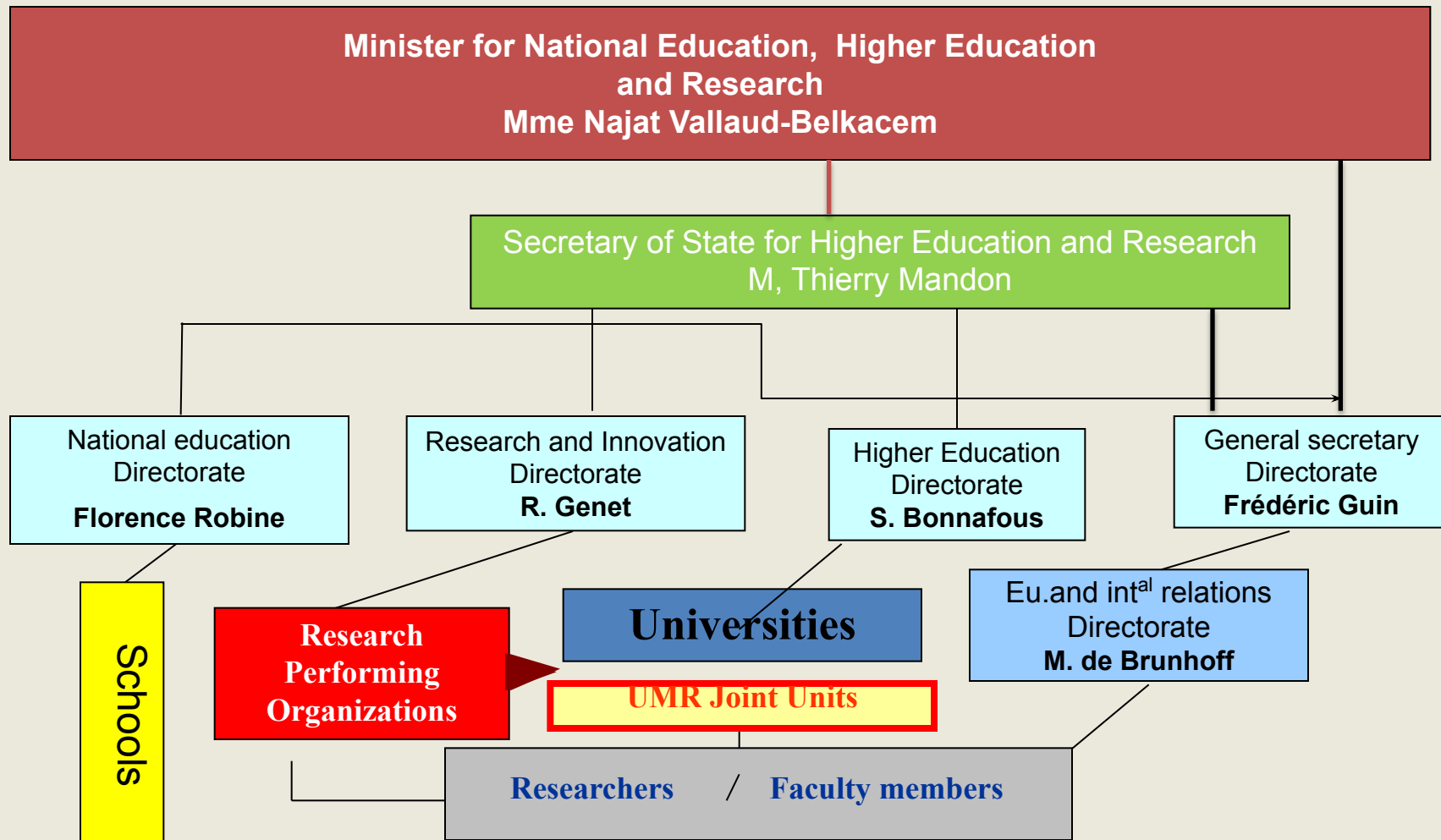
French landscape in 2020

- ◆ More developed inter-institutions cooperation through structuring projects (mobility, research...) and removal of barriers at the EHEA level
- ◆ « Grandes Ecoles » in the frame of universities
- ◆ Some merger of universities
- ◆ Europeanisation and internationalisation : More integrated networks at the European and international level (research,

II. GENERAL FRAMEWORK



French Ministry of National Education, Higher Education and Research



High Council of evaluation of research and higher education (HCERES)

- Governance :
 - Board of directors (representing assessment institutions instances)
 - Scientific Advisory Board
- Focus assessment on ESR institutions and consortia missions, research units, FCS and ANR relying as appropriate committee of other bodies which he has validated procedures

Universities and higher Education schools

More than 3 500 public or private establishment :

73 universities and linkened establishments (70 % of the students)

224 engineering schools (some are inside university)

120 schools of Art

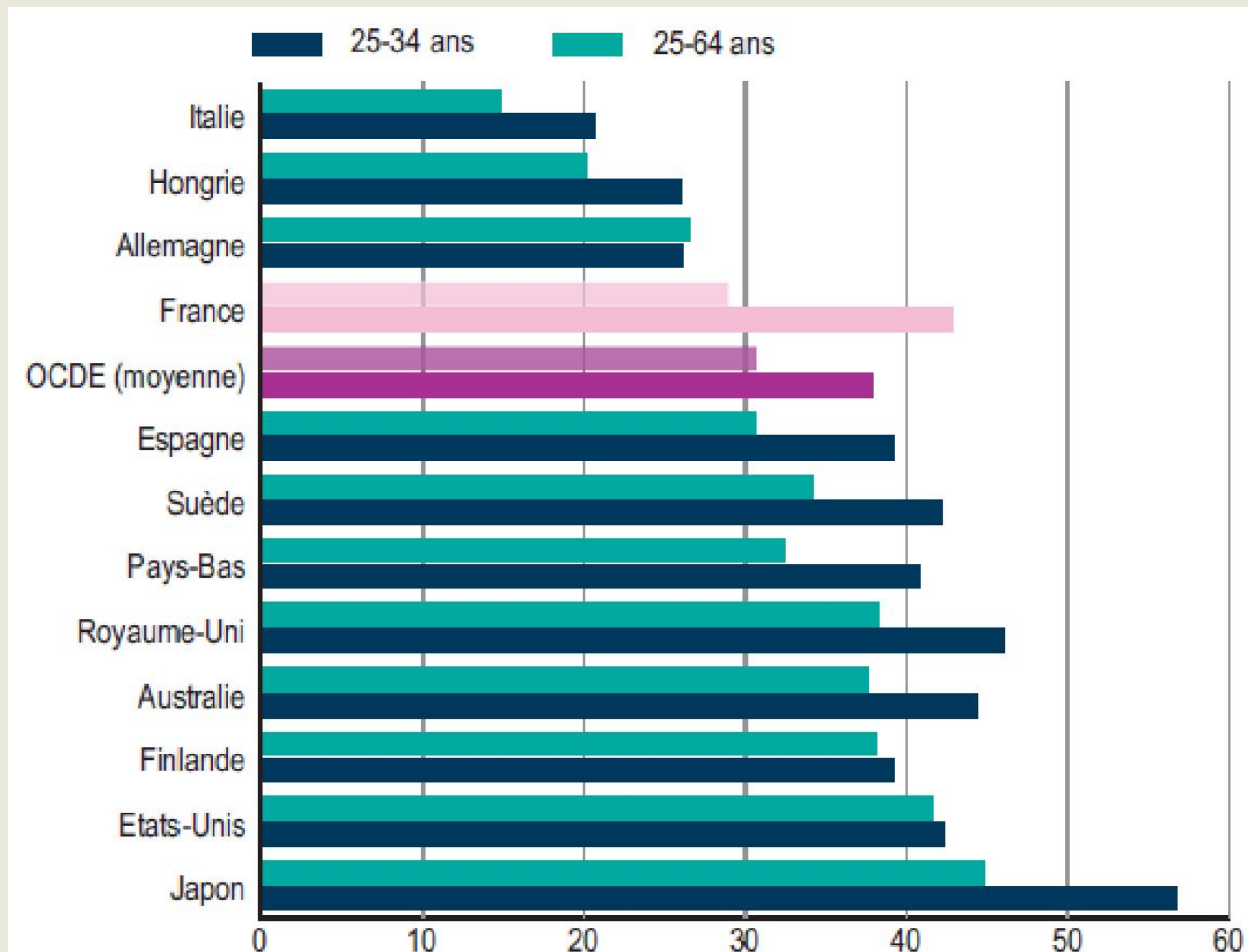
220 Business schools and of management

20 schools of architecture

3000 other scholls and institutes



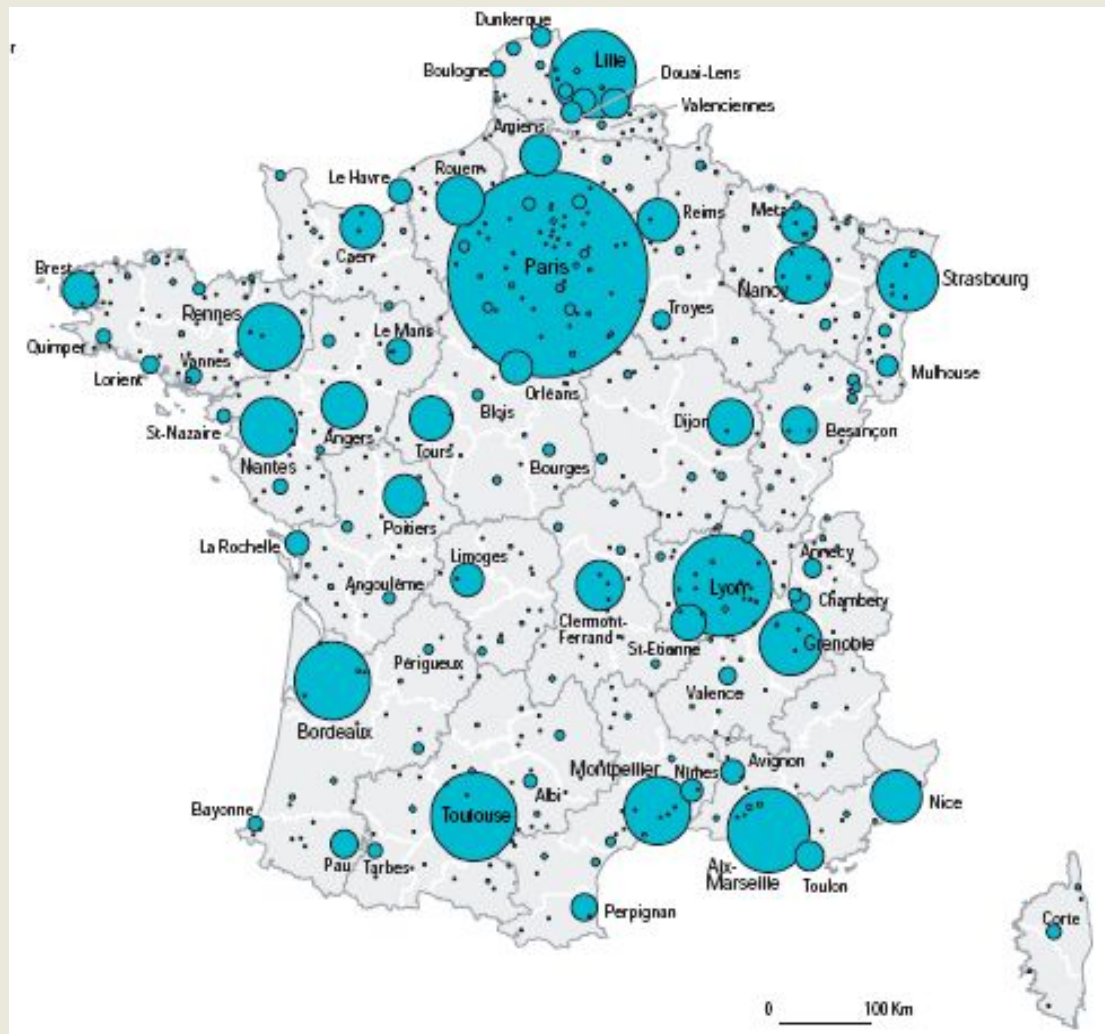
% of the population with a Higher Education Diplomas



2 422 900 students at back to school 2013

- ❖ **2 422 900** students in 2013
- ❖ **62%** in Universities
- ❖ **18%** in private Universities or Schools
- ❖ **12%** foreign students (75% in universities)
- ❖ **42%** thesis are defended by foreign students
- ❖ **90%** success in professional integration with a Master, **91%** with a license, **93%** with a MBA, **96%** with a engineer diploma
- ❖ **13 K€**/student (L&M), **110K€** /PhD, payed by citizens

Students : 2.4 million (Paris : 26%)

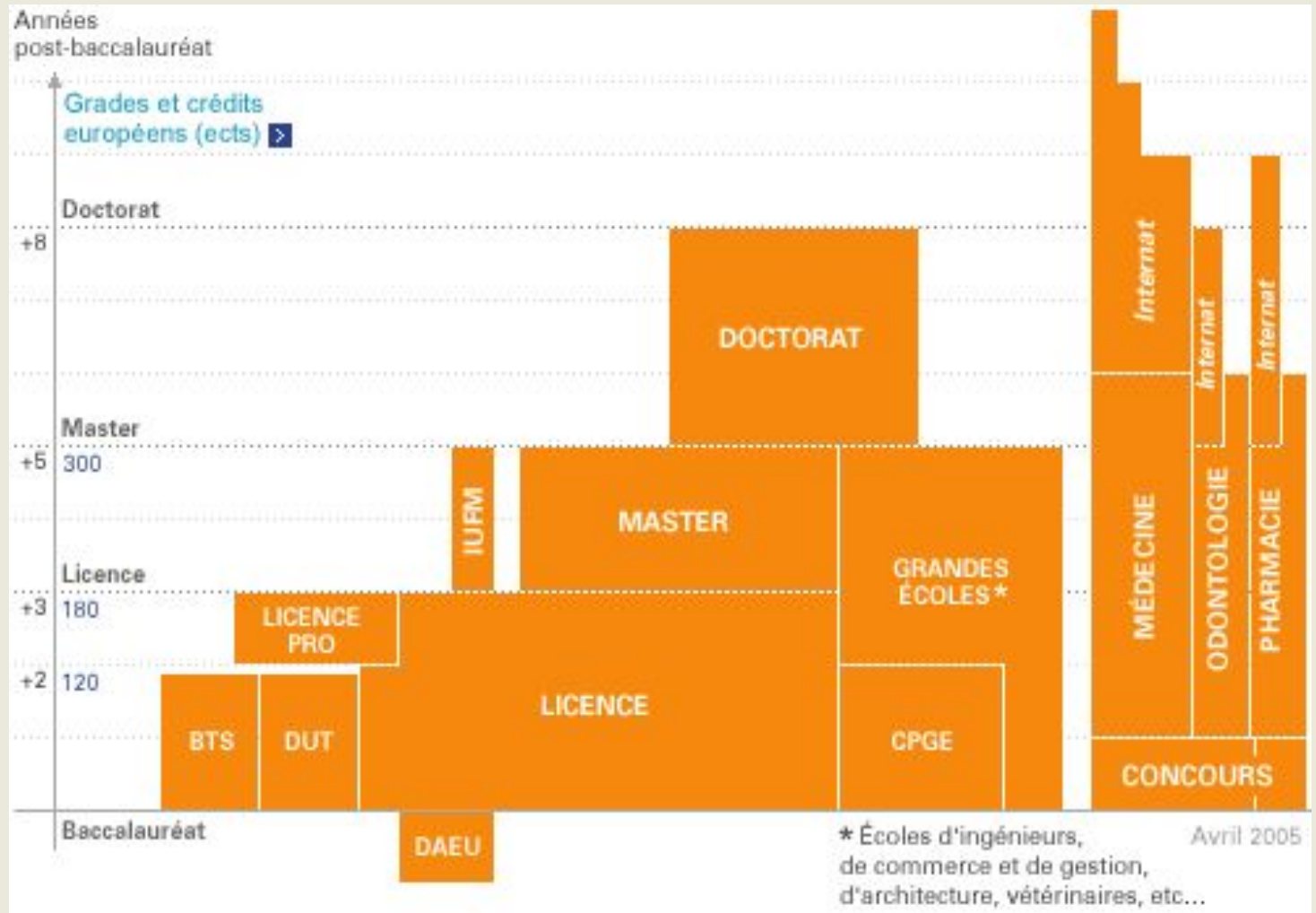


LA ROCHELLE UNIVERSITY



III. EUROPEAN SYSTEM LMD

Clarification of diplomas : The new European education system and European diploma and ERASMUS



EUROPEAN CREDITS

- ❑ One semester = 30 European Credit Transfer System (ECTS)
- ❑ 1 ECTS credit = 25-30 working hours per student
- ❑ One year = 60 ECTS = 1 500-1 800 working hours
- ❑ European System : L (B+3) : 180 ECTS / M (B+5) : 300 ECTS/ D (B+8)
- ❑ National accreditation in France and national diplomas

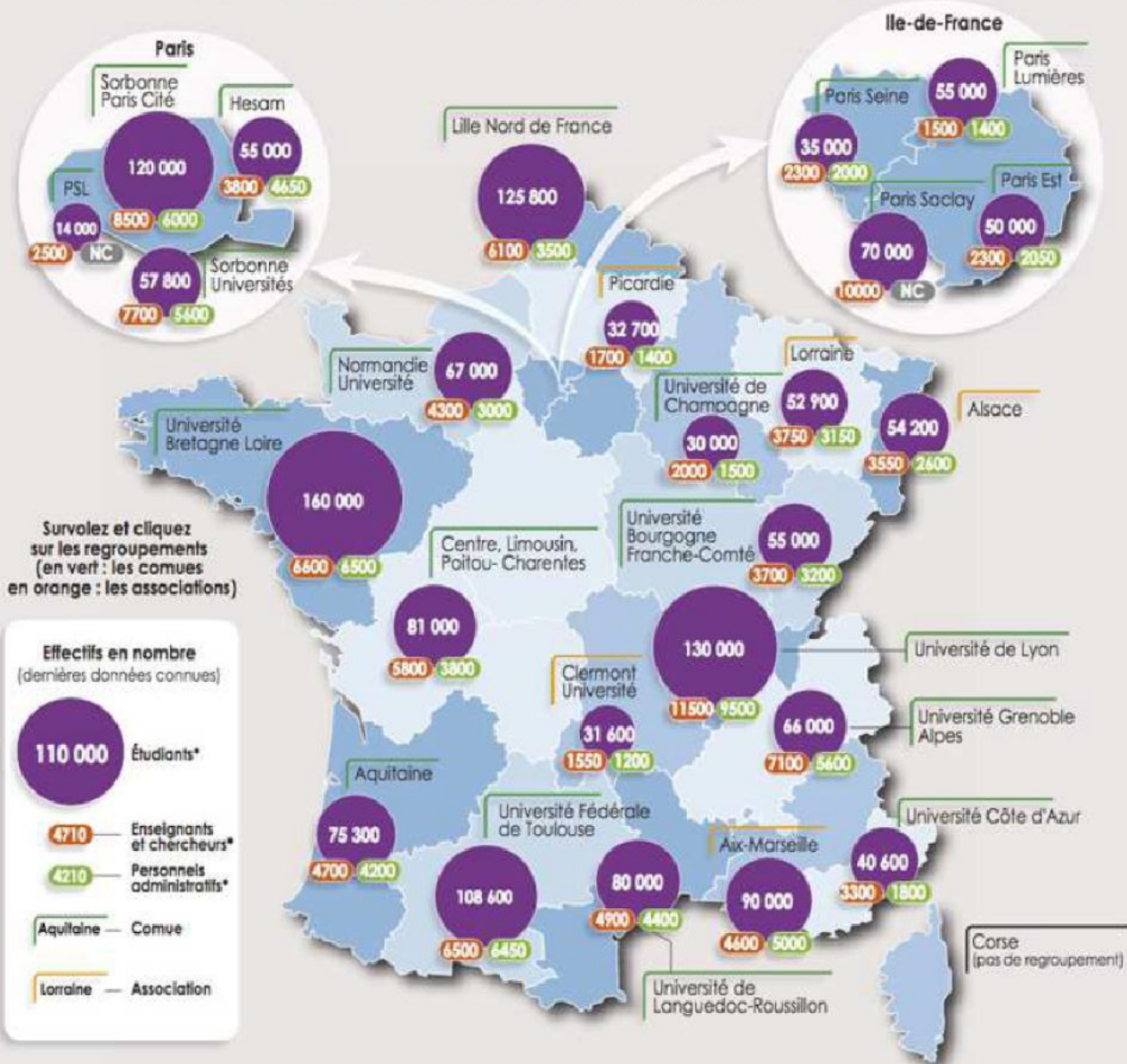
IV. TERRITORIAL ORGANISATION

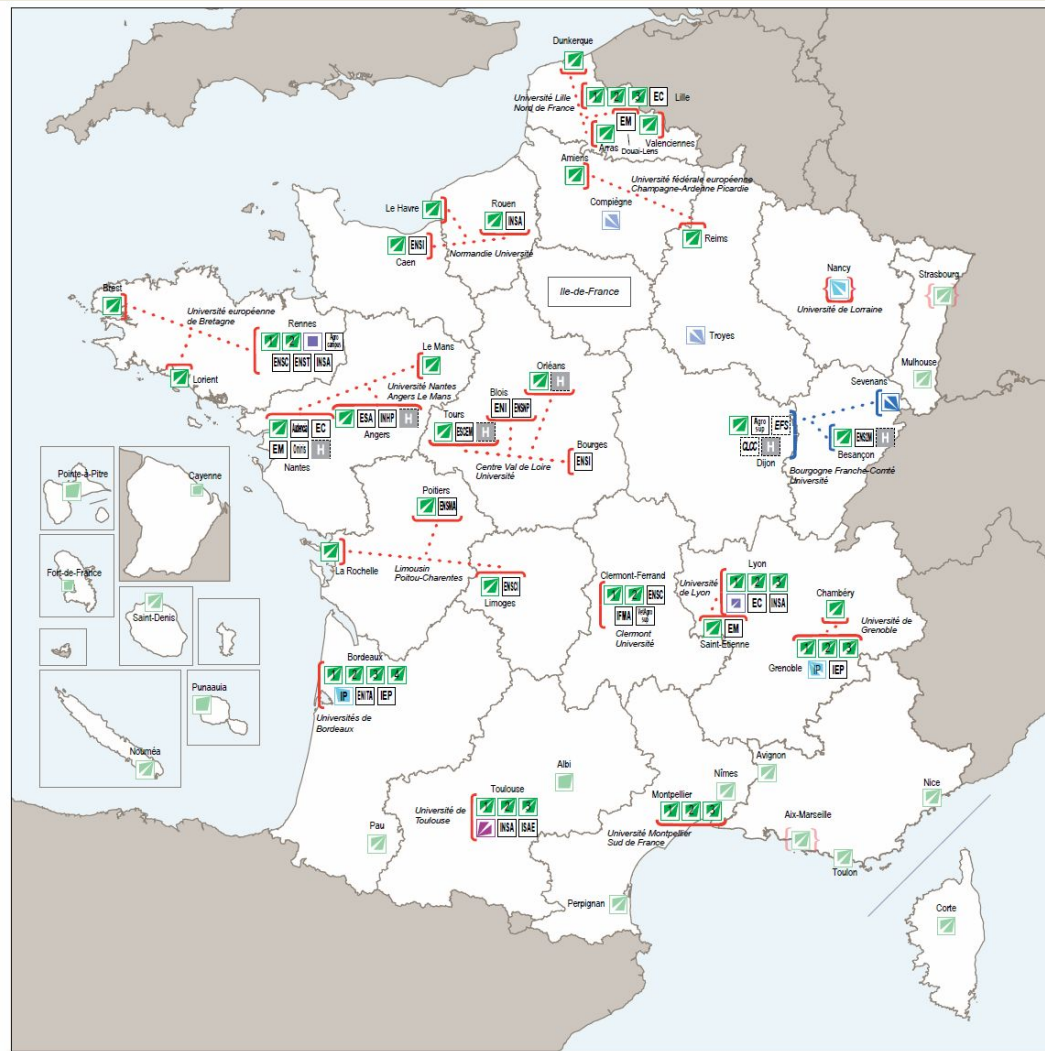
COMUE

**Communauté
d'universités**









et d'établissements

LA CARTE DES REGROUPEMENTS UNIVERSITAIRES






Établissements d'enseignement supérieur

-  Universités
-  Universités autonomes
-  Universités de technologie autonomes
-  Instituts nationaux polytechniques autonomes
-  Grands établissements
-  Écoles normales supérieures - ENS
-  Écoles normales supérieures autonomes
-  Autres établissements d'enseignement supérieur



Établissement issu d'une fusion { }

Pôles de recherche et d'enseignement supérieur (membres fondateurs)

 EPCS (établissement public de coopération scientifique)

 FCS (fondation de coopération scientifique)

Autres établissements et organismes

-  CHR, CHRU, CHU
-  Divers

PERPIGNAN UNIVERSITY

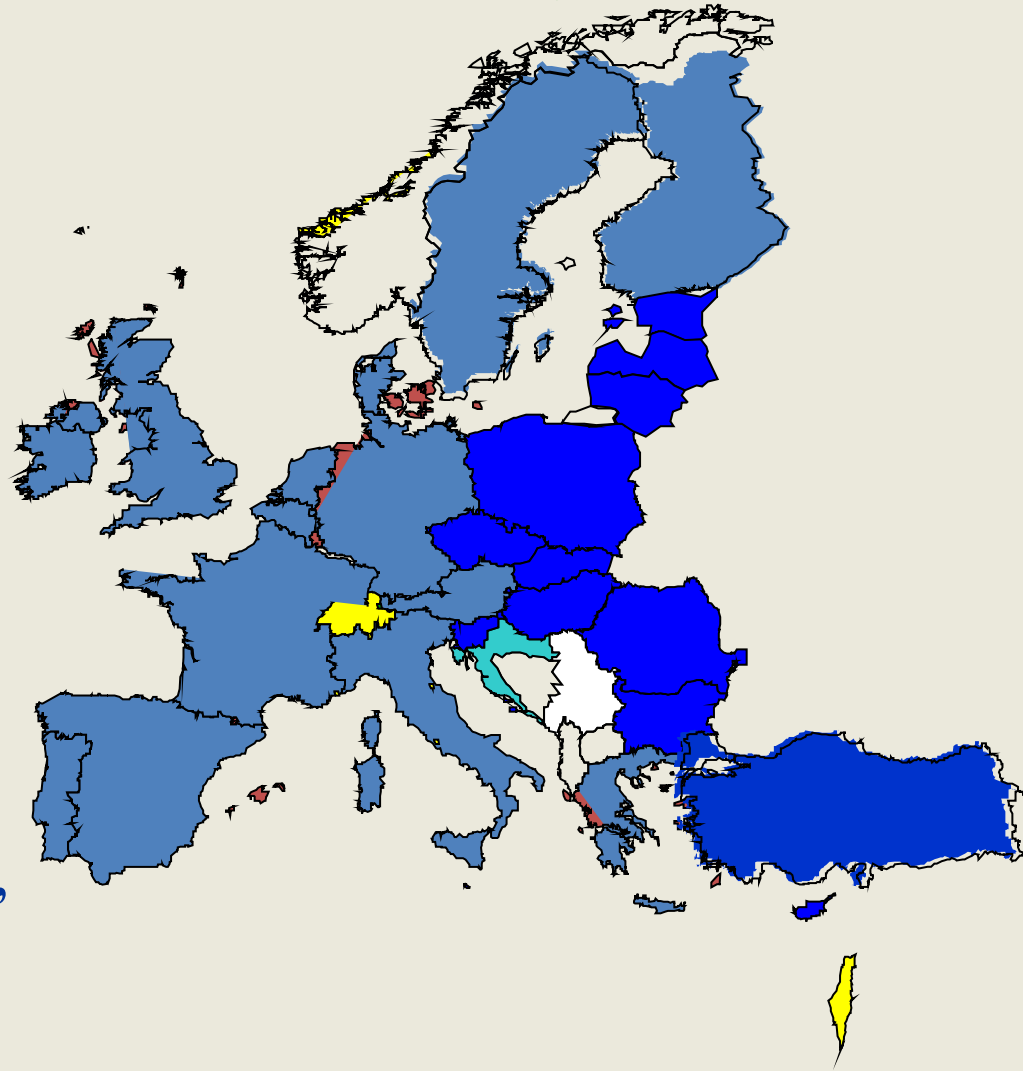


V. RESEARCH ORGANISATION

European Research Area

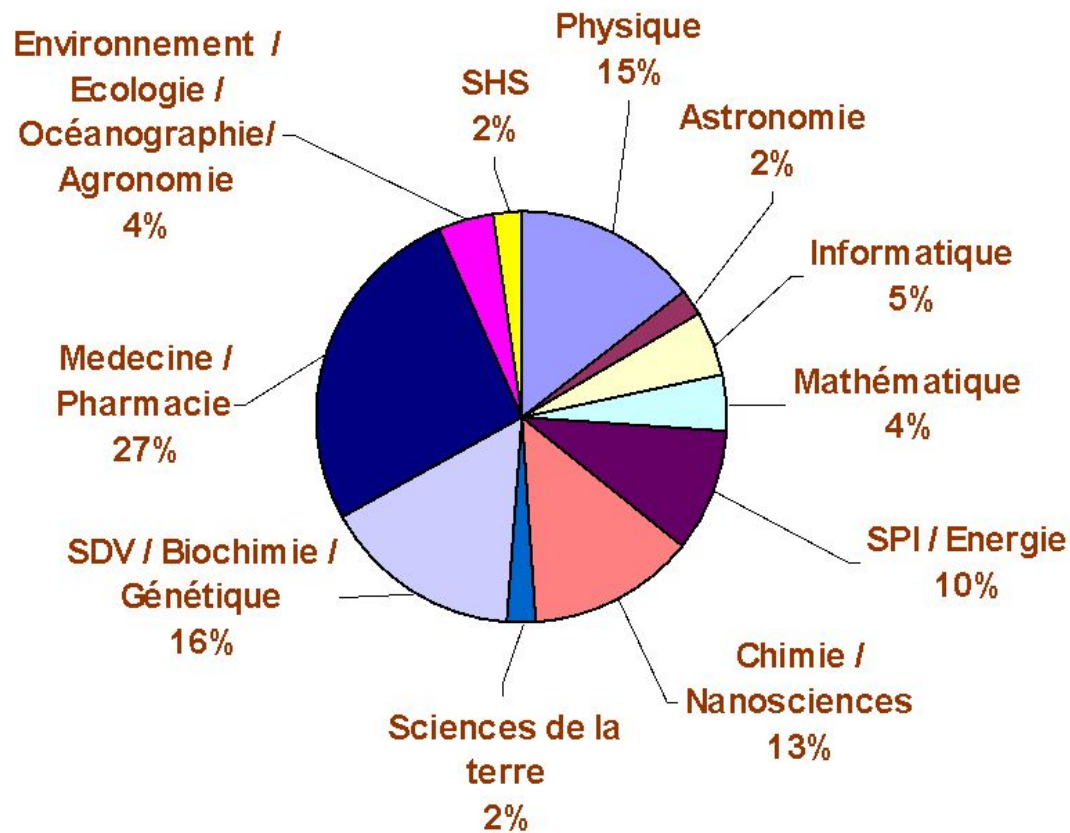
France
plays a major role in
the European
Institutions :
European Union,
European Science
Foundation, Science
Europe, etc...

and in the European
organizations : CERN,
ESA, EMBL, ESO,
etc...



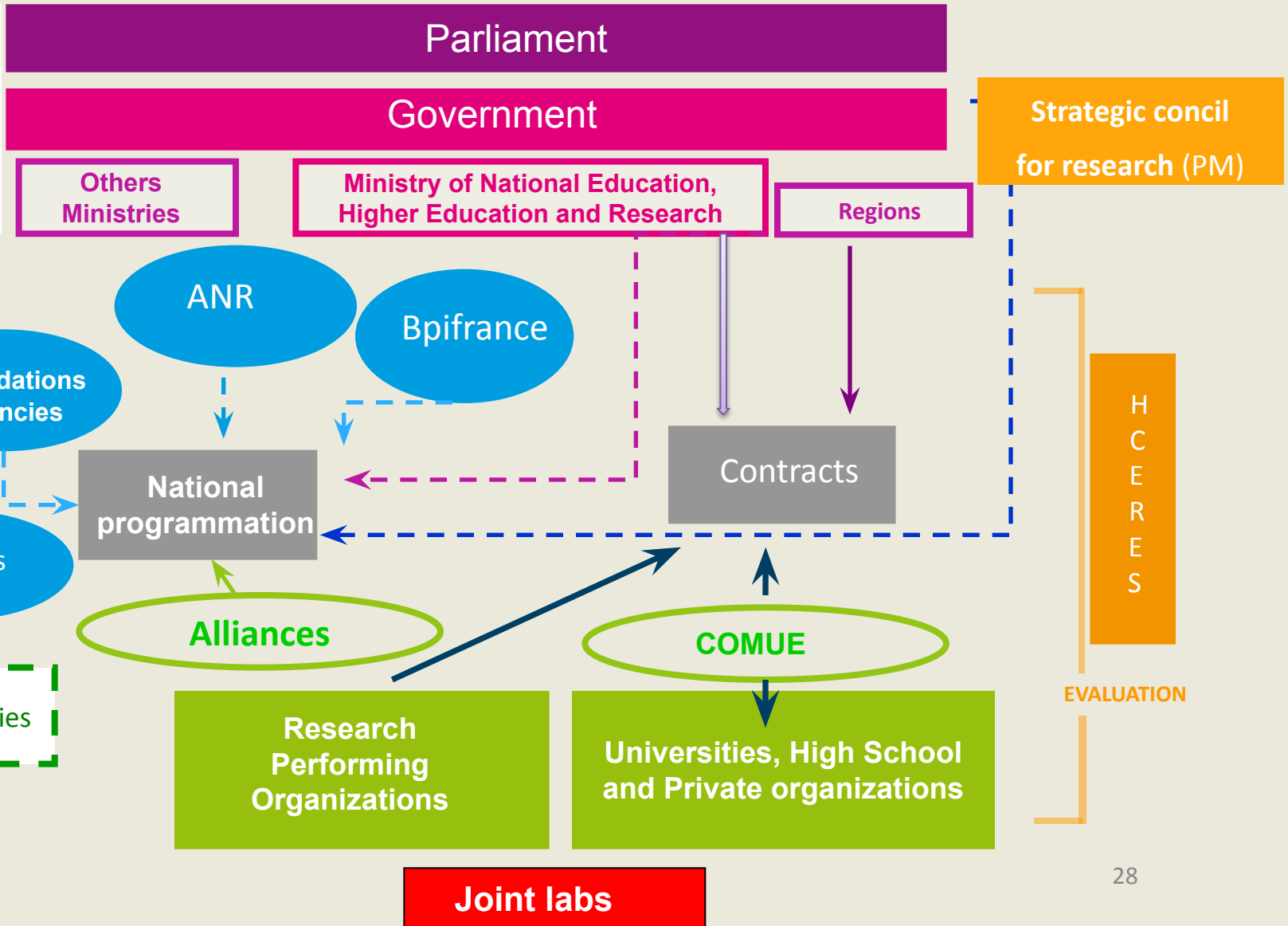
French Publications 2008-2012

Publications françaises 2008-2012

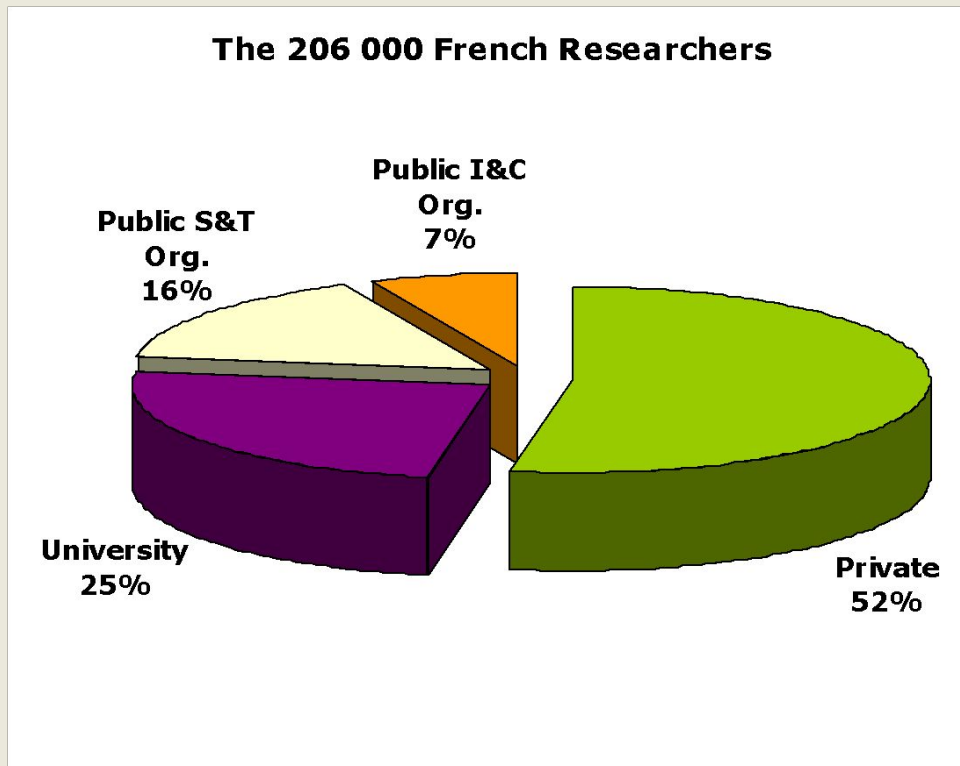




French organization in R&D



Research Performing Organizations



Public S&T Organizations (9)

CNRS – general

INRA – CIRAD - agriculture

INSERM - health

INRIA – informatics

IRD – development

Public I&C Organizations (15)

CEA - nuclear

CNES - space

BRGM - mining/geol.

Nonprofit institutions

Pasteur Inst. - health

Higher education institutions

74 universities – housing most public research laboratories

~ 200 «grandes ecoles» - highly selective - research effort limited

Horizon 2020

- Initial Commission proposal for a €80 billion research and innovation funding programme (2014-2020); now €79 billion
- A core part of Europe 2020, Innovation Union & European Research Area:
 - Responding to the economic crisis to invest in future jobs and growth
 - Addressing people's concerns about their livelihoods, safety and environment
 - Strengthening the EU's global position in research, innovation and technology

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Human Resources

Total: **402 300** persons (Equivalent Full Time) :

- **238,000** persons working for research in private labs (including **100 800** scientists).
- **163,400** persons working for public research including
 - **51 185** faculty in universities
 - **45 743** scientists in public research institutes
- **12 000** new doctors (PhD) every year (8,000 in natural sciences and 4,000 in humanities and social sciences).

VI.

FRENCH

CONFERENCE

OF RECTORS

History

- Created on February 2, 1971
- Confirmed by a law on January 26, 1984
- By a joint declaration of the minister and CPU on July 1998, CPU becomes the main negotiator to the government in the field of higher education policy.

Development is the consequence of growing autonomy of the member institutions

Mission of CPU

- Building up a collectif identity within the members
- Voice of Universities in higher education policy on national and international level
- Foster the public debate
- Modernize the Universities' management by the exchange of good experince

The main bodies of CPU

- The president: the minister
- The plenary assembly, CPU
- The bureau (three elected presidents)
- The permanent commission, CP2U
- The commissions



The general assembly members:

- 75 Universities
- 3 Universities of technology
- 2 « Instituts Nationaux Polytechniques »
- 4 « Écoles Normales Supérieures »
- 3 « Instituts Nationaux des Sciences Appliquées »
- 14 « Grands établissements »

(IEP, CNAM, INALCO, Observatoire de Paris, EHESS, Institut de physique du Globe de Paris, ENSAM, EPHE, Ecole Centrale Paris)

The general assembly function:

- Meetings every 3rd Thursday of each month
- Election of the first vice-president, the bureau and all bodies every two years
- Resolutions on propositions, projets, motions and documents prepared by the permanent commission or the sectional commissions



The board

Composition

President : Manuel Tunon de Lara

Vice-President: Virginie Dupont

Vice-President : Guillaume Gellé

Function

- decides political guidelines and agenda setting within CPU
- Represents the French Universities in all aspects (education, research etc.) on national and international level

The permanent commission CP2U

- Formed by the 3 Vice-Presidents, the 6 presidents of sectoral commissions, 8 elected members of CPU and the Delegate General
- Elaborates the issues before the deliberation in the plenary sessions
- Takes decisions on topics that are not subject to a vote in plenary session
- Follow-up of the decisions taken of CPU

The commissions and committees

Three committees :

1. Sustainable Development
2. Quality
3. Numeric

Six standing commissions

4. Education
5. Research
6. Finances and personnel
7. Student affairs
8. International Relations
9. Law and regulation

Function

Prepare the issues for the discussion in the general assembly

The permanent team

- The General Delegate is consulting the bureau and coordinates the work of the permanent team
- The principal secretary to the bureau (“chef de cabinet”)
- Heads of missions: preparing the issues, conducting surveys and studies, doing the follow-up of the deliberations in the commissions
- Administrative collaborators

The CPU has two sites :

the main site in Paris and a permanent representation in Brussels



CPU is a major actor by

- organizing conferences
- initiating various working groups
- meeting regularly the main partners in research, education, administration and international relations

CPU is working on a better understanding of the role of universities on a national, european and international level.

Missions of CPU

- elaborate common positions
- raise new issues

- discussion
- exchange
- representation

Members



**Common
voice
of French
Universities**

- Information platform
- Service (esp. Amue)
- Representation in Brussels

Répartition disciplinaire des programmes en anglais

Business et Management : 409 formations

Sciences de l'ingénieur : 224 formations

Sciences environnement et santé : 154 formations

Droit économie : 101 formations

SHS : 81 formations

Art Design : 62 formations

Mathématiques : 33 formations

Tourisme : 23 formations mais elles peuvent être mixtes en Business et Tourisme

Agriculture – agro industrie : 20 formations

Formations en anglais dans les écoles doctorales

Il y a 283 écoles doctorales, et approximativement la moitié de ces écoles acceptent ou permettent la rédaction d'une thèse en anglais avec un résumé en français. Elles ont donc des formations internes qui ne sont pas comptabilisées, car ne correspondant pas à un diplôme.

Il nous faut rappeler qu'il y a 42 % de doctorants étrangers. En terme de mobilité sur 26 000 doctorants, on compte :

9 000 étudiants originaires d'Algérie, du Maroc, de Tunisie et Afrique de l'Ouest

7 800 venant d'Asie-Océanie

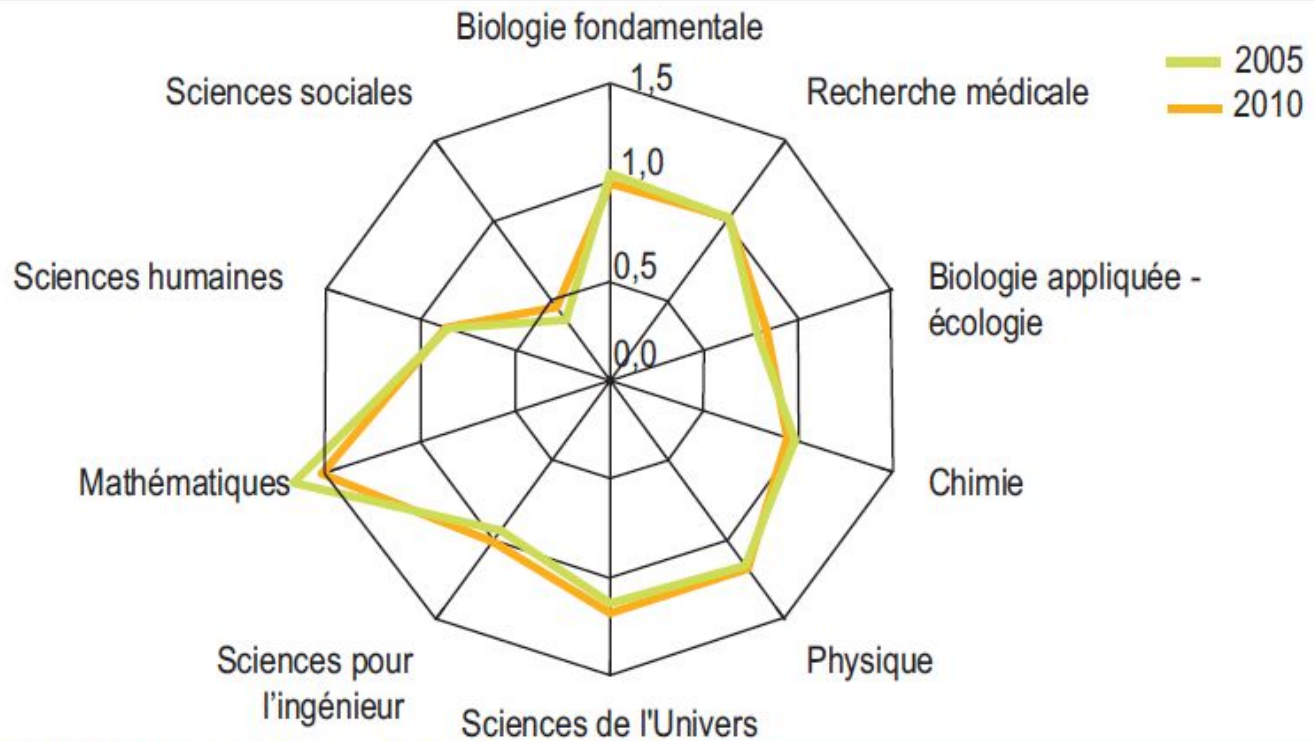
4 600 pour l'Union européenne

2 800 d'Amérique

1 000 Europe hors union européenne

Impact of French Publications

02 Indice de spécialisation, par discipline scientifique, pour la France (2005 et 2010)



Source : OST-2012 (données Thomson Reuters, traitements OST).

VII. NOBEL PRICE AND FIELD MEDAILS

France: A major contributor to scientific achievement

Famous French scientists : 65 Nobel Prizes, 12 Fields Medals



High quality research facilities



Successful technologies



1 NOBEL PRICE

- Serge Haroche prix Nobel de physique 2012
- Jean Tirole, prix Nobel d'économie 2014 (prix des banques de suède)

At least:

- 13 prix Nobel de médecine,
- 13 prix Nobel de physique,
- 8 prix Nobel de chimie,
- 3 prix Nobel d'économie.

2. FIELD MEDALS

2010: Cédric Villani

2014: Congrès international de mathématiques à
Séoul : Arthur Avila

At least:

11 field medals for French laureats on 44