

# Scientific Research, Business Thinking

## *Cifre Industry PhD scheme*

*Doctoral training through public-private sector partnership*

*Pascal GIAT Ph.D.*

*Head of Cifre department*





*Cifre : Objectives and description*

*Key data*

*International side*

*FIER-DOC: A pre-research program for foreign  
students in France*

*Activities around Cifre*



## *Cifre : Objectives and description*

*Key data*

*International side*

*FIER-DOC: A pre-research program for foreign students in France*

*Activities around Cifre*

**Cifre**  
Conventions

## A PhD. in a company ... Why ?

High level of specialization

Ability to describe and solve a problem

Rigor in observation, analysis and synthesis

Self-work organization

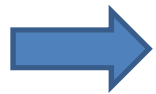
Quality in written and oral argument



# Cifre : Objectives

Contribute to the development of the collaborations of partnership in research between french companies and french and foreign laboratories to increase their competitiveness, create value and employment

Place the PhD students in multicultural scientific conditions (laboratory and company) and increase their international status



**Cifre** = Convention Industrielle de Formation par la Recherche

# Cifre : Description

Created by french government in 1981

+ 27 000 Cifre since the beginning

4200 on-going Cifre

No nationality condition

All scientific areas

All sectors of activity

# Cifre : Description



Assesses the research project

Assesses the involvement of the new company

Grant to company :

€42,000 for 3 years  
(€14,000 annually)

CIR depending on salary

ANRT : On behalf of the French Ministry of Higher Education and Research



Research partnership contract



Company in France



French academic Laboratory

Cifre



PhD student & employee

Employs the PhD student/  
3 years working contract/  
minimum gross annual salary:  
€23,484 per year

Academic professor supervises the thesis  
PhD student is enrolled in doctoral school and attends the courses



Cifre : Objectives and description

Key data

International side

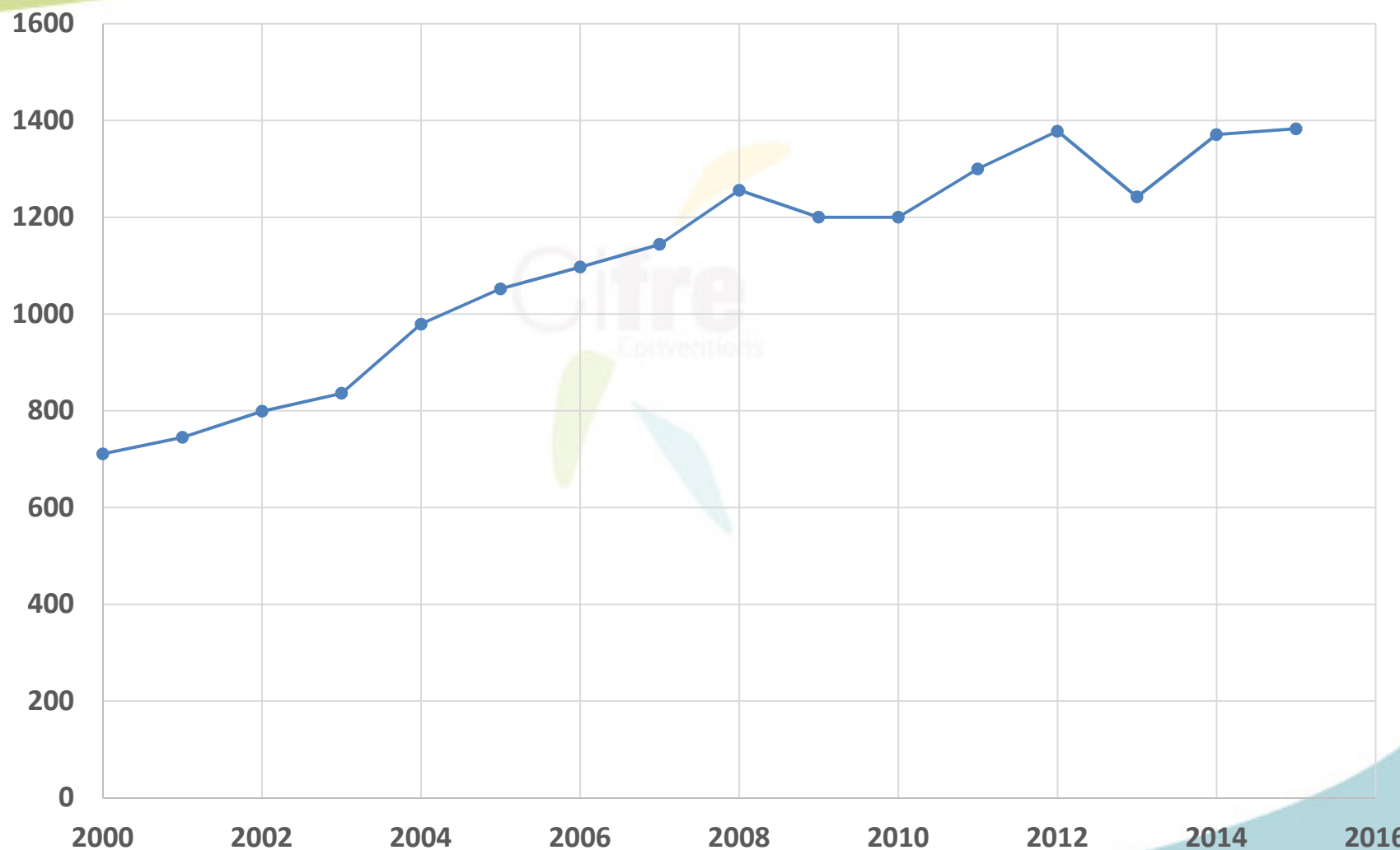
FIER-DOC: A pre-research program for  
foreign students in France

Activities around Cifre



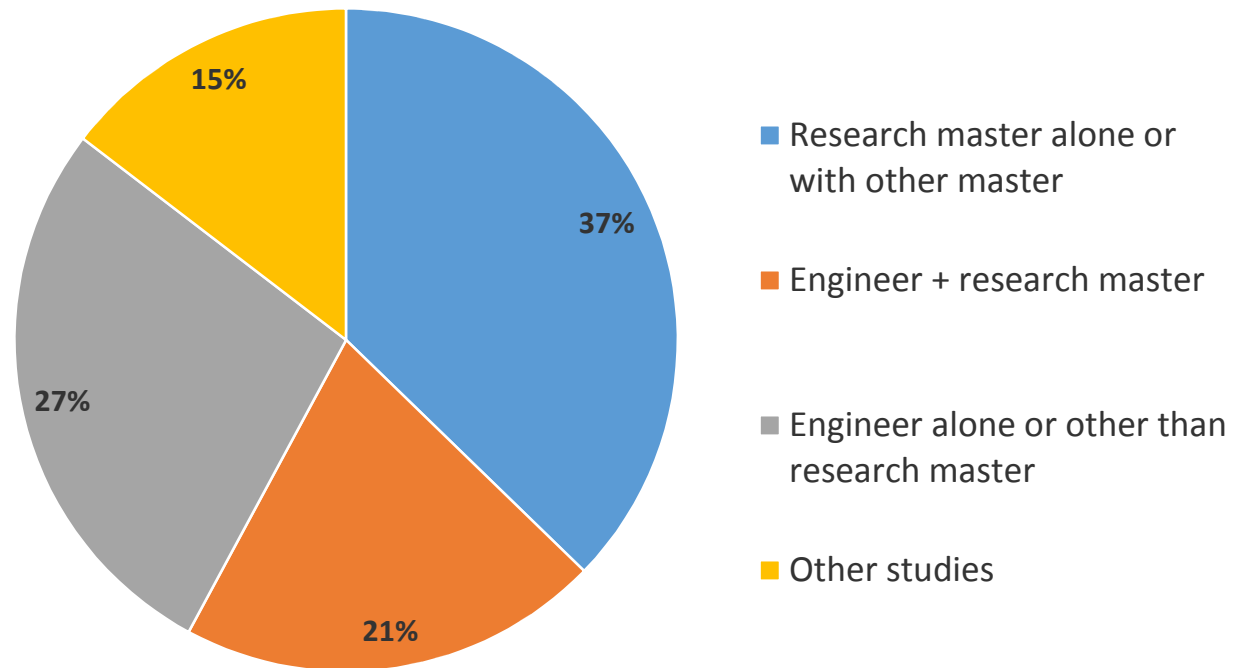
# Key data

## Evolution of accepted Cifre over the last 16 years



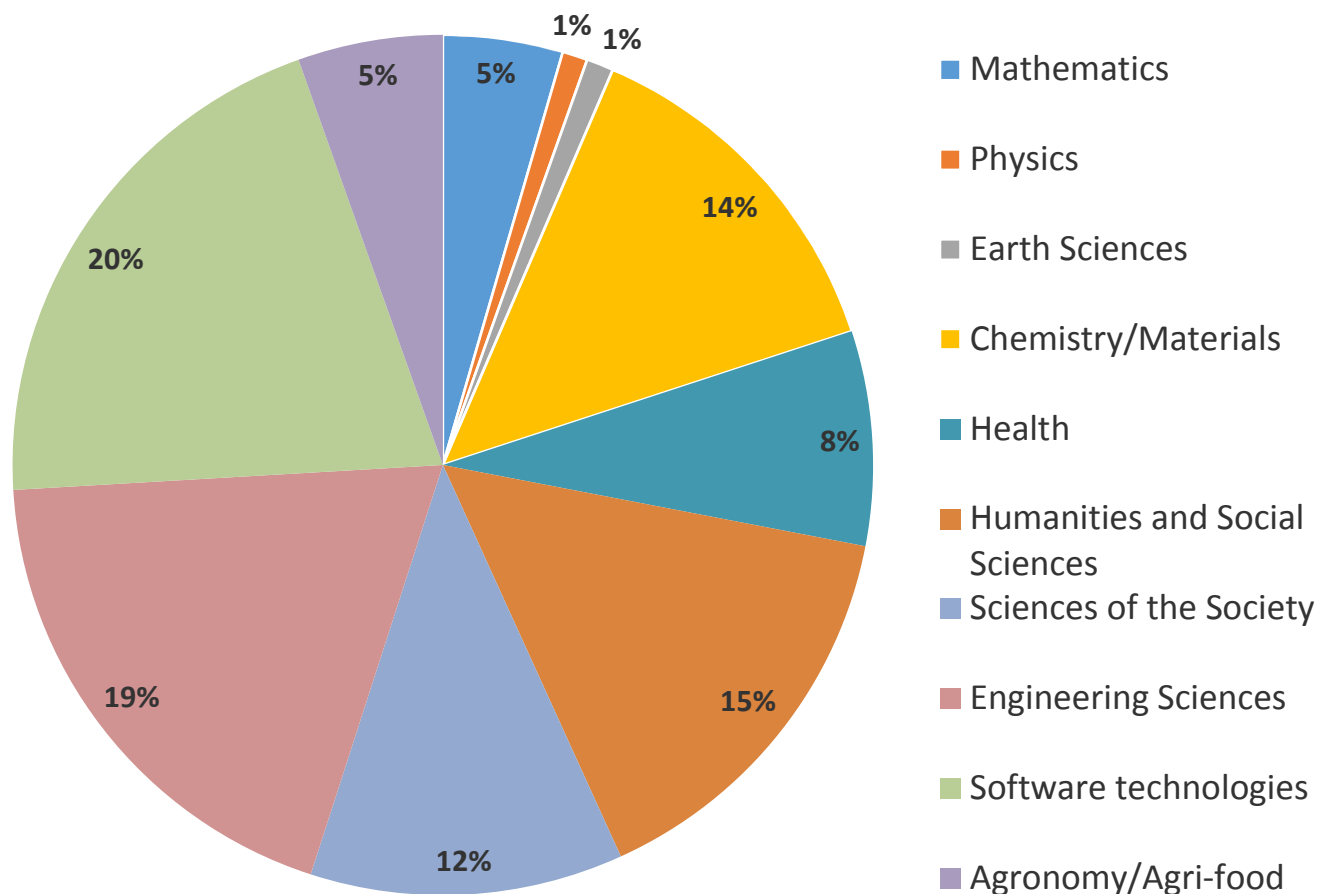
# Key data

Initial studies of PhD students accepted in 2016



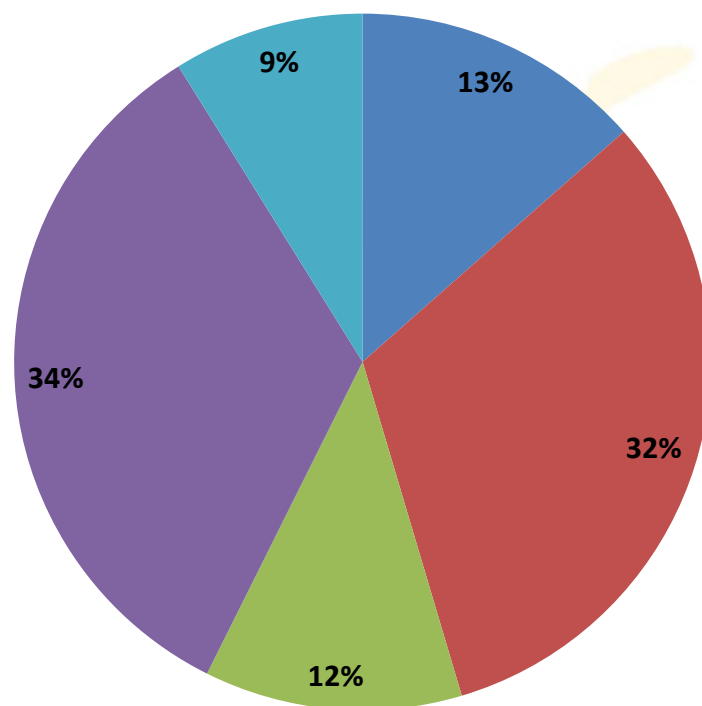
# Key data

Distribution of scientific disciplines of the Cifre accepted in 2016



# Key data

Distribution of doctoral students' salaries who have been accepted in 2016

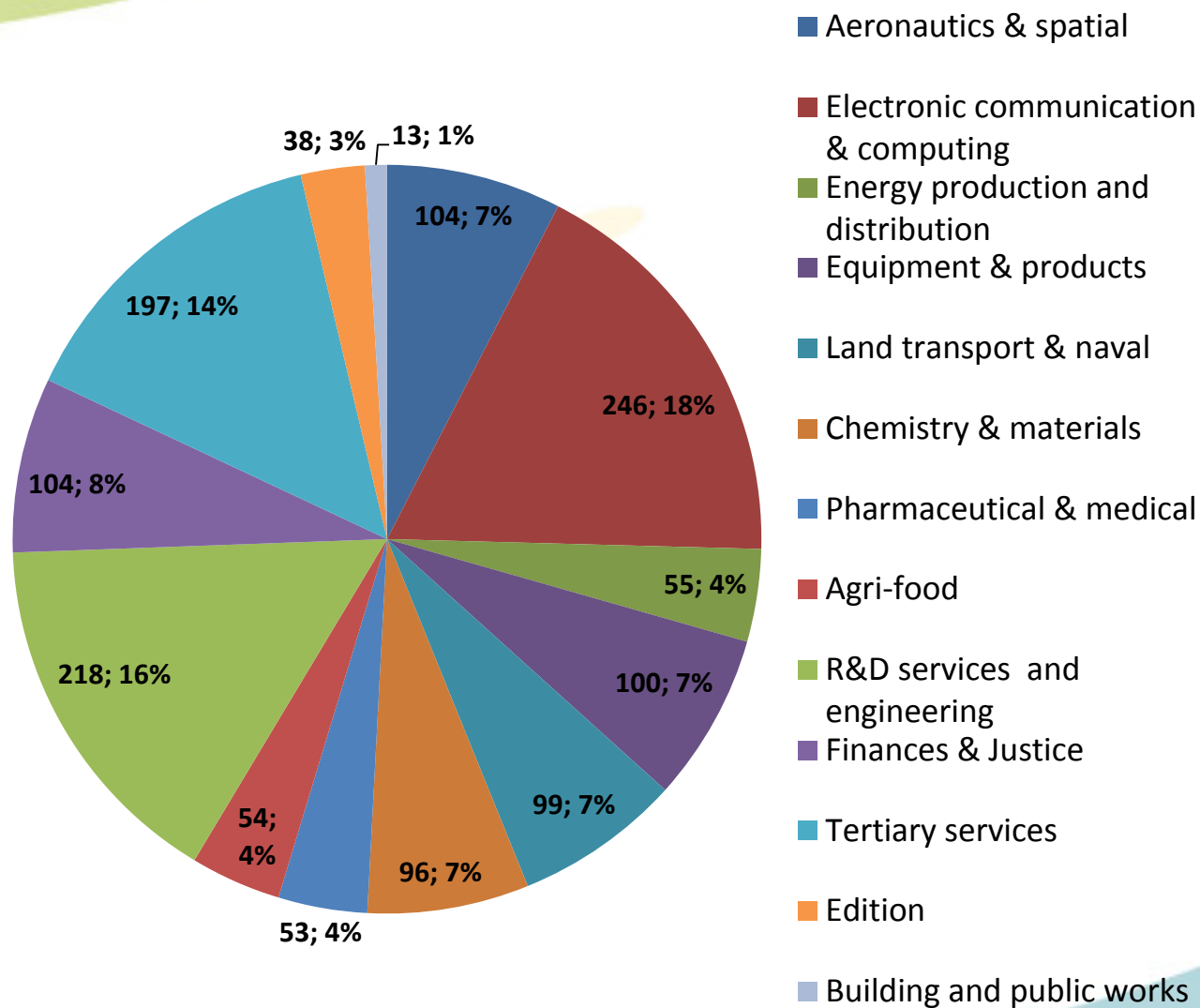


Average: 29 002€  
Max : 77 004€

- 23 484
- 23 485 - 28 000 €
- 28 001 - 29 999 €
- 30 000 - 35 000 €
- More than 35 000 €

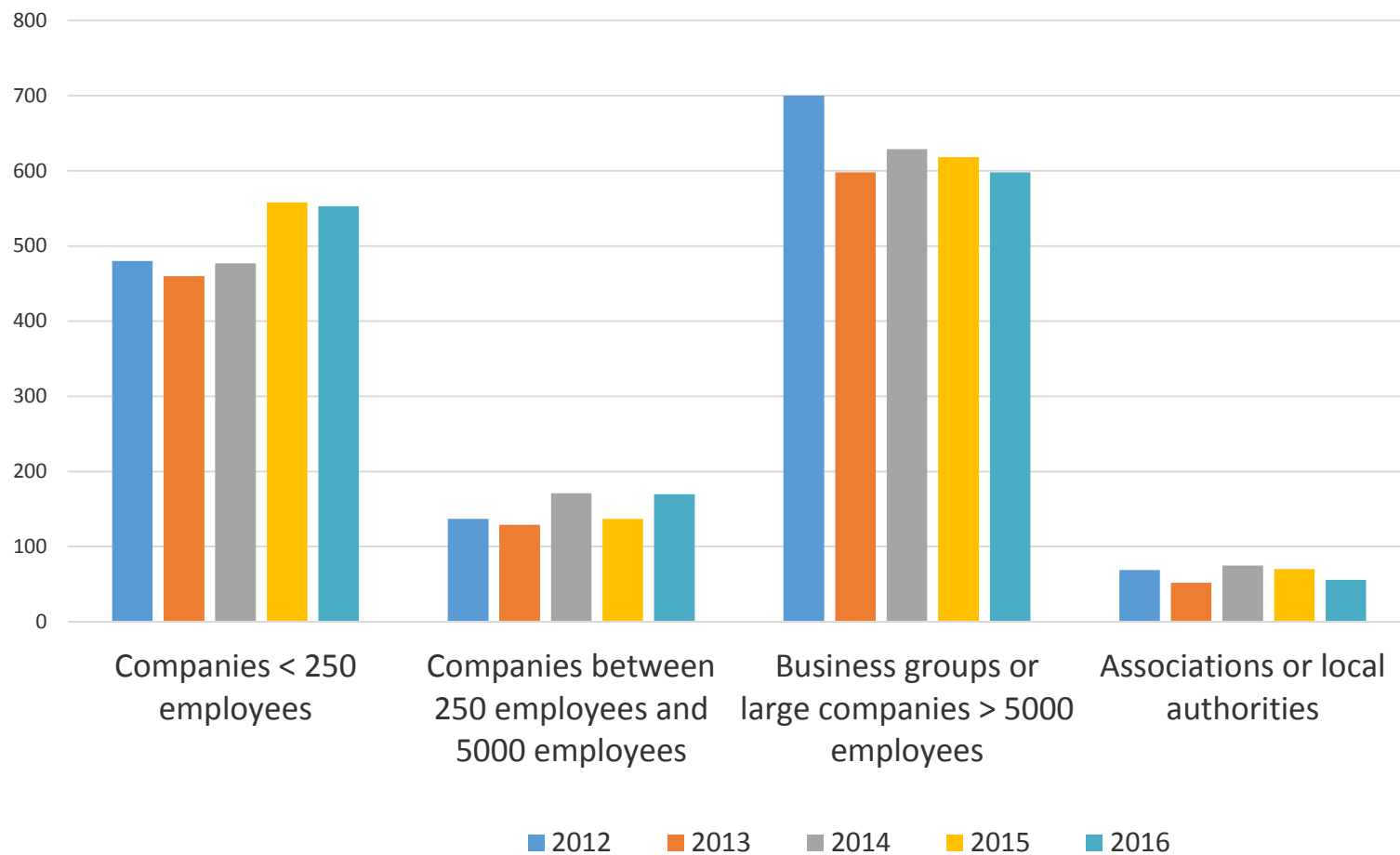
# Key data

Distribution of 1377 CIFREs accepted in 2016 by sector of activity



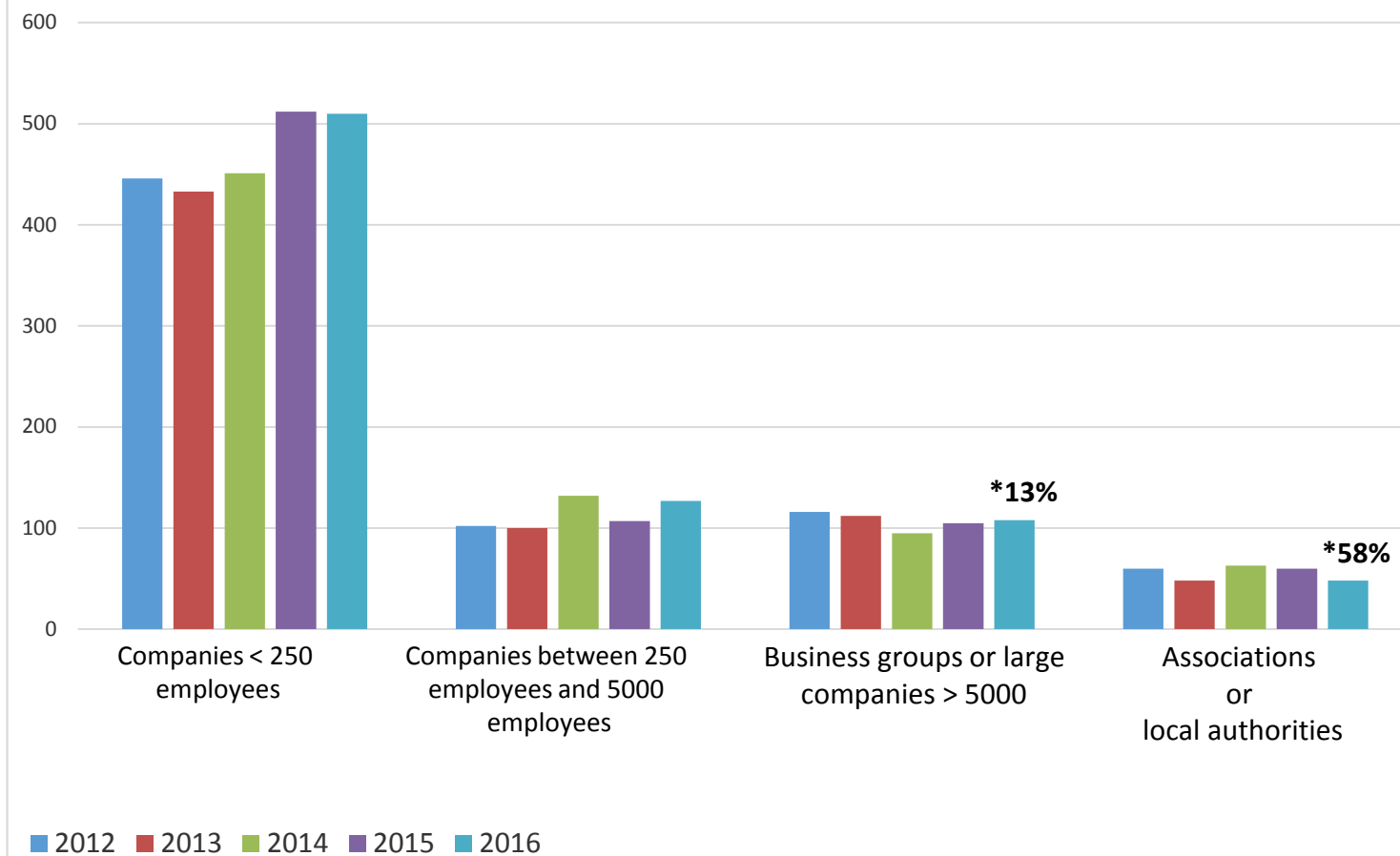
# Key data

Number of Cifre according to the typology of the employers



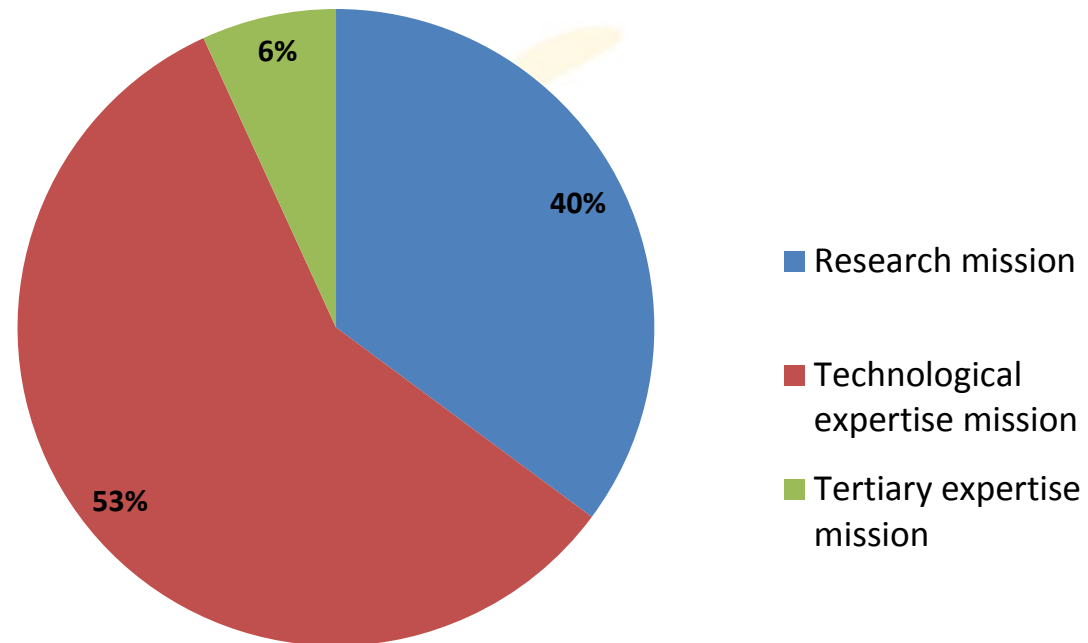
# Key data

793 separate employers of Cifre in 2016  
61%\* of which is new



# Key data

## Job after Cifre

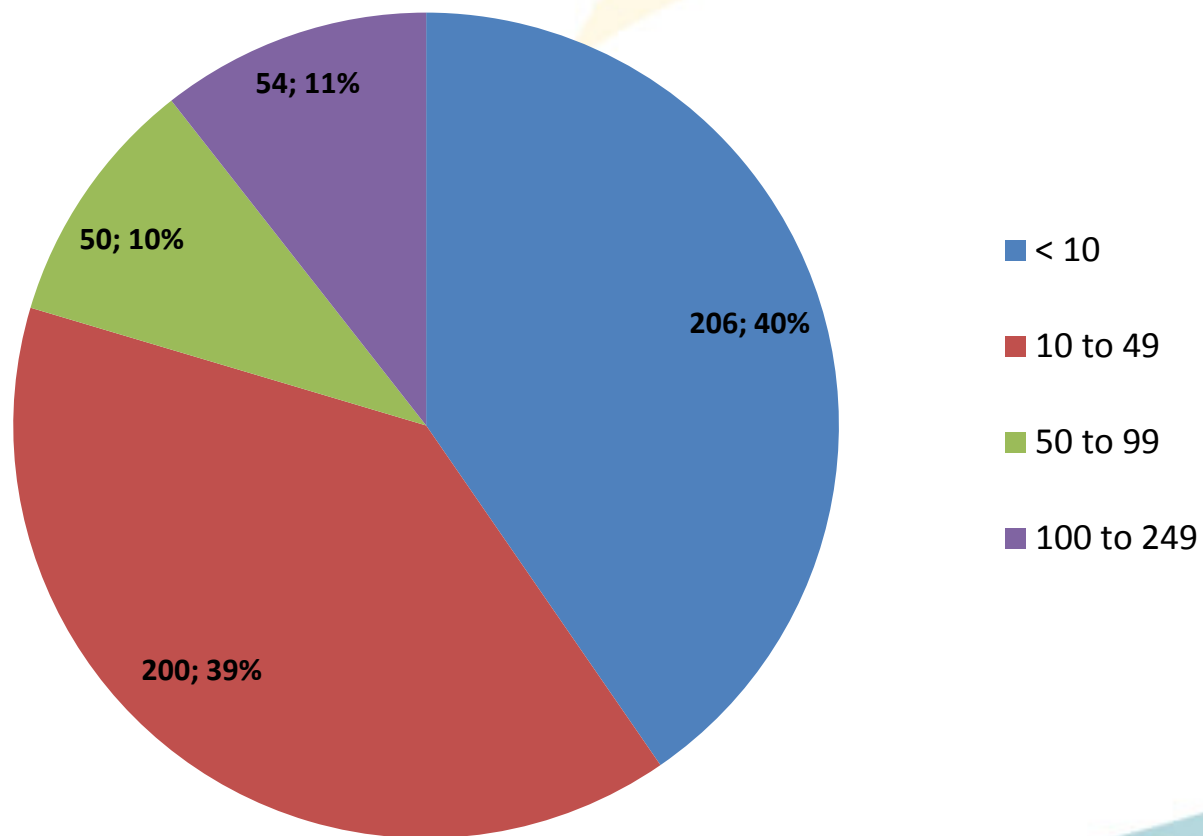


On the panel of 834 cases of "retention in the company" or "departure to another company" just at the end of the Cifre between 2012 and 2014



# Key data

Classification of small companies (below 250 employees)  
having at least 1 Cifre



# Key data

## ***What a Cifre Ph.D does after :***

- 33% stay in the company
- 70% get a job 3 months after the end of the Cifre
- 70% of those above are looking for a job before the end of the Cifre

**~ same results over last years**



Cifre : Objectives and description

Key data

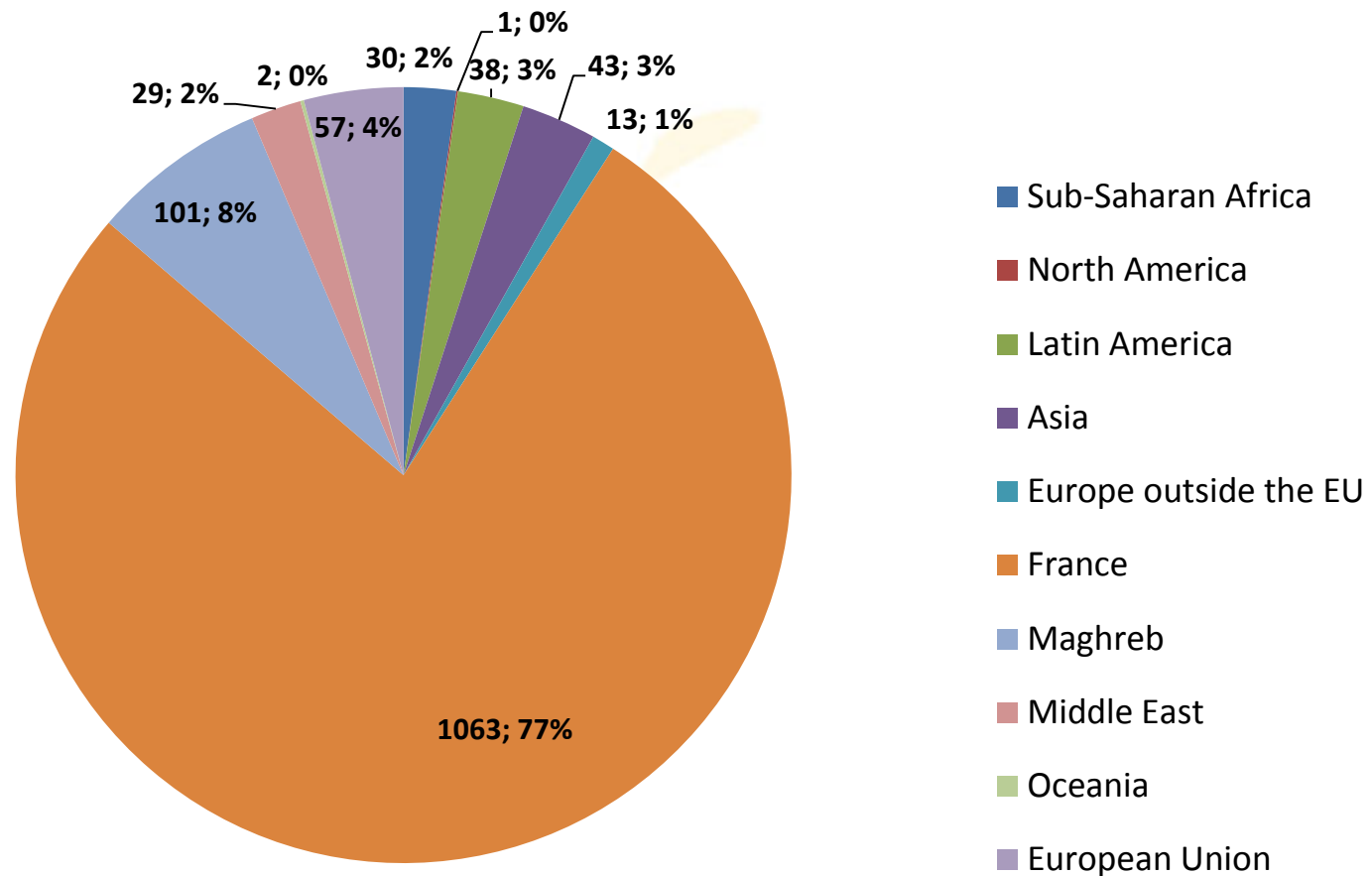
International side

FIER-DOC: A pre-research program for  
foreign students in France

Activities around Cifre

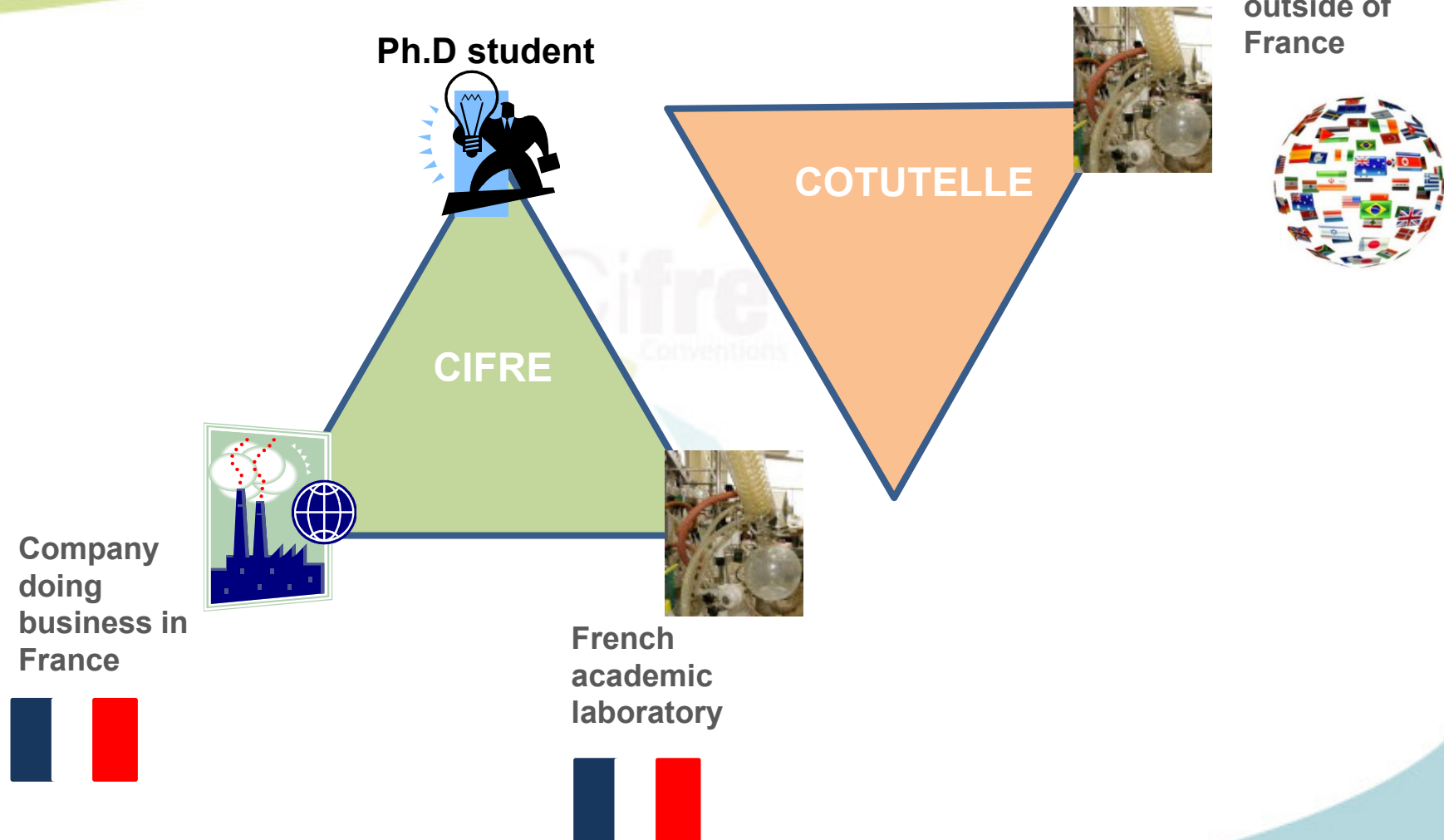
# International side

Geographical origins of PhD students accepted in 2016



# International side

## Cotutelle organization with foreign laboratory





Cifre : Objectives and description

Key data

International side

**FIER-DOC: A pre-research program for  
foreign students in France**

Activities around Cifre

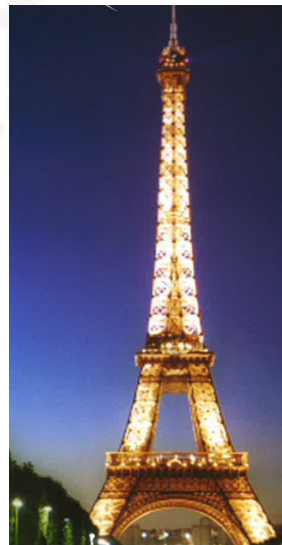
# FIER-DOC

## A pre-research program

### FIER-DOC



MINISTÈRE  
DE L'ÉDUCATION NATIONALE,  
DE L'ENSEIGNEMENT SUPÉRIEUR  
ET DE LA RECHERCHE



# FIER-DOC

## A pre-research program

### Goals

To acquire knowledge required for governance of research projects (2-month seminar in Paris)



To enable candidates to gain an outstanding “research” experience for 3 months in their field of skills (public or private laboratory)



### Audience

Master's graduate , PhD students  
English level B2 (fluent)  
No minimum level of French required





# FIER-DOC

## A pre-research program

### Perspectives for doctoral study

Option 1

With Cifre if first thesis

Option 2

with other financing sources



Coming sessions: October 2017 and February 2018



[contact@nplusi.com](mailto:contact@nplusi.com)



Cifre : Objectives and description

Key data

International side

FIER-DOC: A pre-research program for  
foreign students in France

Activities around Cifre

# Activities around Cifre



## Being a « Cifre » PhD. Student also means ...

Being part of the Cifre community (+25000 Doctors)

Getting trained on IP (13 sessions a-year)

Leading or attending scientific sessions with other students, researchers and industrial partners from R&D departments: « *ReSci ma Recherche j'en parle !* » (3 to 4 sessions a-year)

Being enrolled in the « 24H entrepreneurship Challenge » (1 session a –year in France, Australia, India (project))

# Activities around Cifre



## Developed in partnership with Novancia

### Objectives:

Improve the connection between research and business worlds

Experiment an entrepreneurship project in 24 hours only

Create entrepreneurship skills for PhD. students

Build alternative option in career path



contents are proprietary to ANRT/Cifre®

# Activities around Cifre



Project teams' members do not know each other prior to the challenge

Project is created from scratch

24H to build innovative idea or product, market analysis, financing, structure of the company ...

Project presentation – Award by a jury



Sponsorship from « la Caisse des Dépôts » and the following companies:



contents are proprietary to ANRT/Cifre®

Thank you

