

#### FRANCE - LEBANON

# Scientific impact of the PHC CEDRE (2006-2024)

**MESR-DAEI / MEAE** 

2025

http://www.enseignementsup-recherche.gouv.fr



#### GENERAL PRESENTATION OF THE PROGRAM

**Creation: 1995** 

**The purpose of this program** is to develop excellence scientific and technological exchanges between the French and Lebanese laboratories, by promoting new scientific collaborations and integrating in the projects young researchers and PhD students.

Total budget (France + Lebanon) 2016-2024: around 386 000 € / year

>> including budget from the French part : around 193 000 € / year

>> including budget from the Lebanese part : around 193 000 € / year

Average budget per project (France + Lebanon) : around 12 000 € / year

Number of new funded projects per year (2006-2024): 16

From 2006-2024:
1149 applications submitted
313 projects funded



#### **DATA SOURCES**

# **Campus France (2006-2024)**

- Information about the PHC CEDRE applications
- List of mobilities (from France to Lebanon and from Lebanon to France)
- Survey 1: 2013-2015; Survey 2: 2016-2024

# **Survey (2006-2023)**

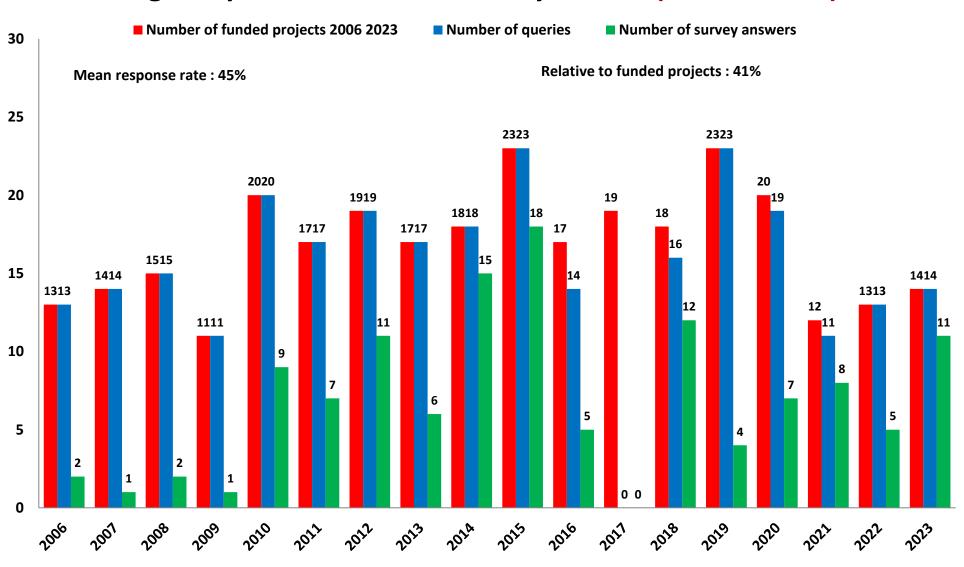
- Target: French Principal Investigators of selected projects between 2006 and 2023
- Survey 1 (2006-2015) duration: from July to August 2016
   42% response ratio (70 respondents for 167 queries)
- Survey 2 (2016-2023) duration : from June to August 2025
   49% response ratio (54 respondents for 110 queries)

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#### **ANSWERS TO THE SURVEYS**

#### Average response rate to the surveys: 45 % (124 answers)





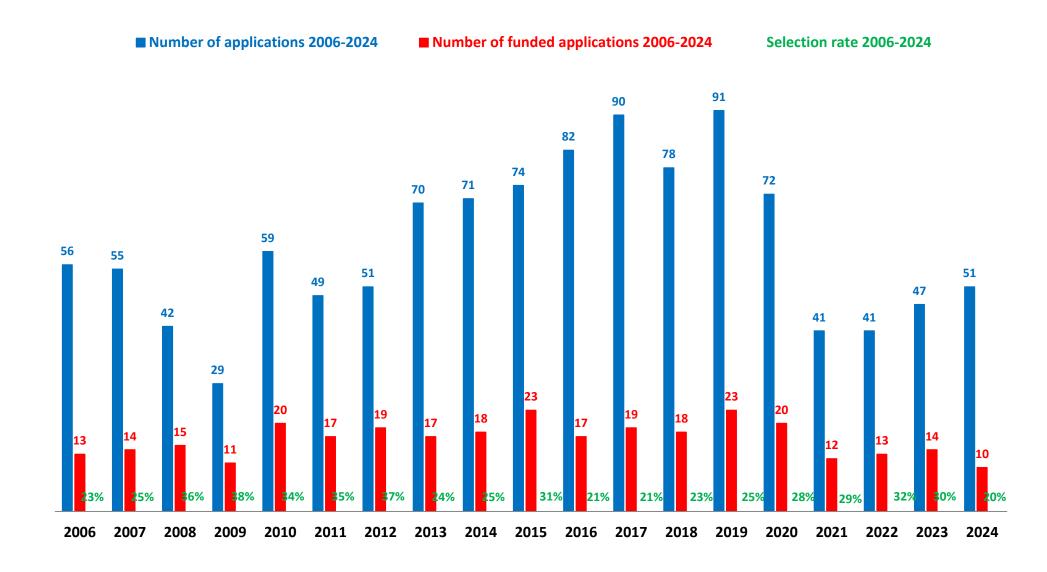
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# **2006-2024 KEY POINTS**



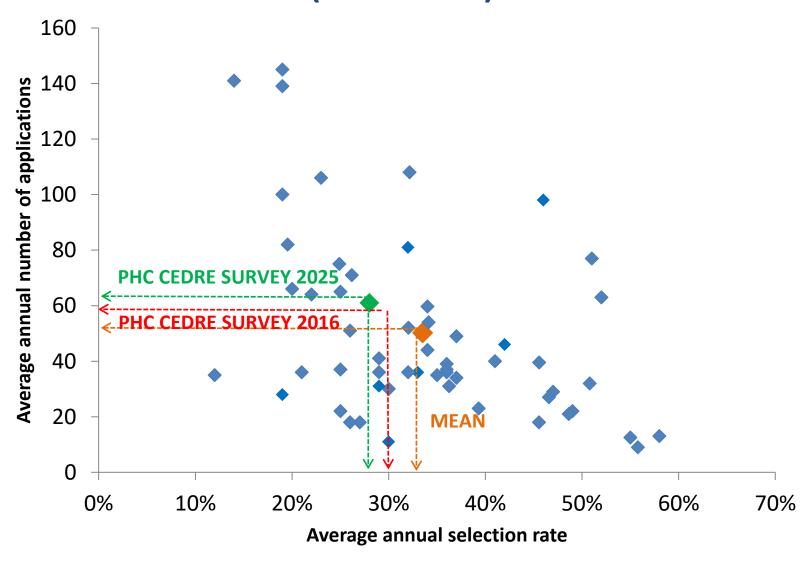
#### **NUMBER OF APPLICATIONS AND SELECTION RATE**

Average selection rate from 2006-2024: 27%





# NUMBER OF APPLICATIONS VS SELECTION RATE (2006-2023)



Survey 2025 : 56 programs



#### BEFORE THE CEDRE PROJECT

84% of the laureates have already previously cooperated with Lebanon (data from 124 responses)

(mean of all programs : 47%)

This previous cooperation was with the same partner for 67% of the laureates (data from 104 responses)

(mean of all programs : 56%)

This previous cooperation was financed by the PHC CEDRE for 47% of the laureates (data from 30 responses)

(mean of all programs : 19%)

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#### **BEFORE THE CEDRE PROJECT**

With which scientific collaboration program?	
PHC CEDRE	41%
French National Resarch Agency (ANR)	9%
Lebanese Institutions co-funding	9%
Private sector funding	9%
CNRS international funding	6%
French Government Grant (BGF)	3%
Other	24%
Total number of occurencies : 34	100%

#### Data from 30 responses

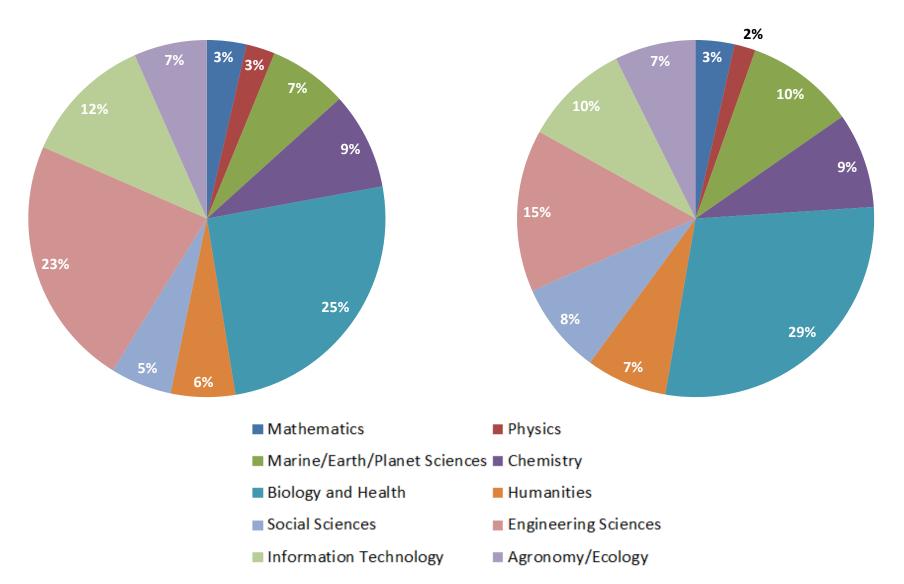
Plus 66 previous cooperations based on other exchanges (co-publication, meetings, joint PhD...)

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### **SCIENTIFIC DOMAINS OF PROJECTS (2006-2024)**

#### Number of applications: 1149 Number of funded projects: 313



DS1: Mathematics

DS3: Marine, Earth, Planet sciences

DS2: Physics

DS4: Chemistry

DS6: Humanities

DS7: Social sciences

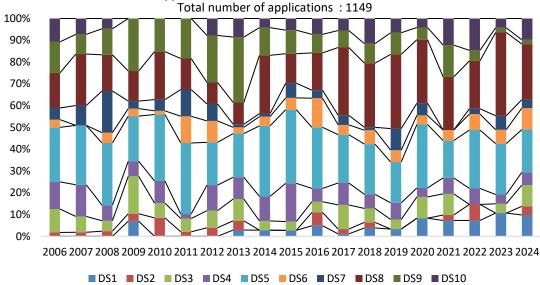
DS5: Biology and Health

DS8: Engineering sciences

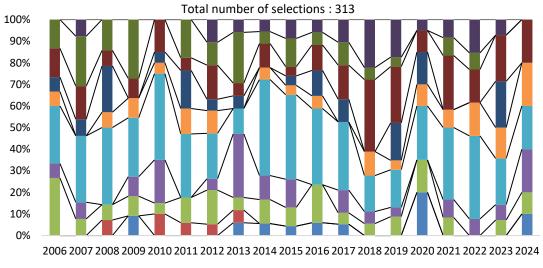
DS9: Information technology DS10: Agronomy/Ecology

#### **SCIENTIFIC DOMAINS: EVOLUTION 2006-2024**

#### Percentage of applications filed by scientific domain each year compared to all applications filed in each scientific domain

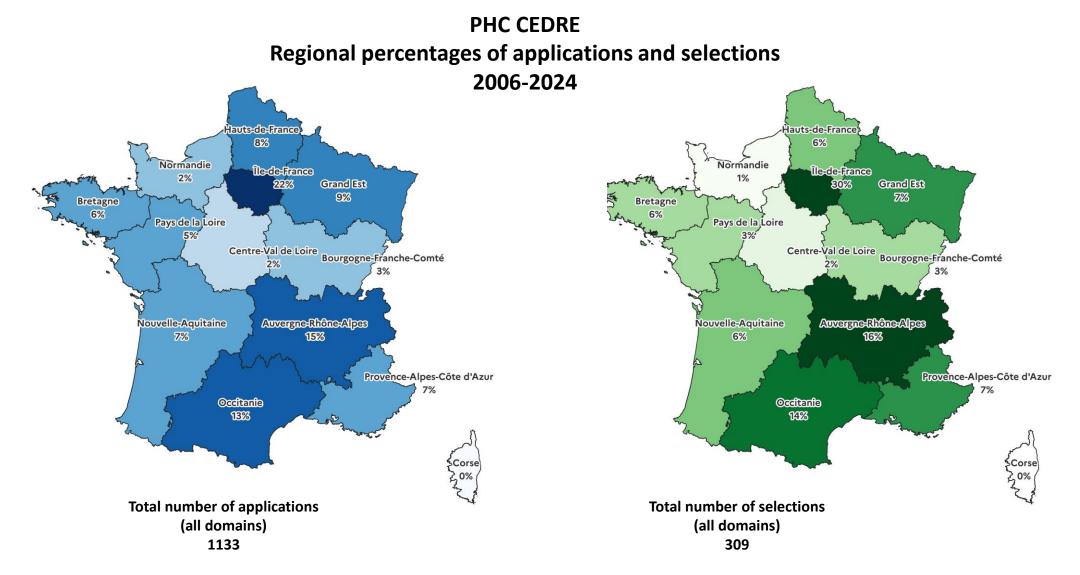


#### Percentage of selections filed by scientific domain each year compared to all selections filed in each scientific domain





### **REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2006-2024)**

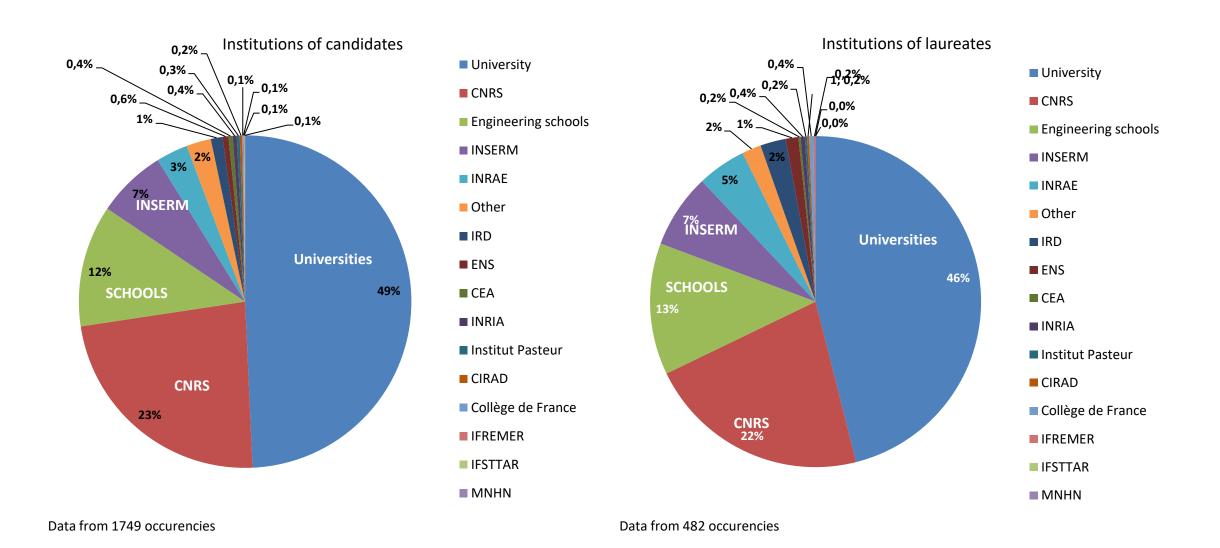


The region Ile-de-France is the main contributor both for applications and selections, followed by Auvergne-Rhône-Alpes.

Corsica has three applications and no selection



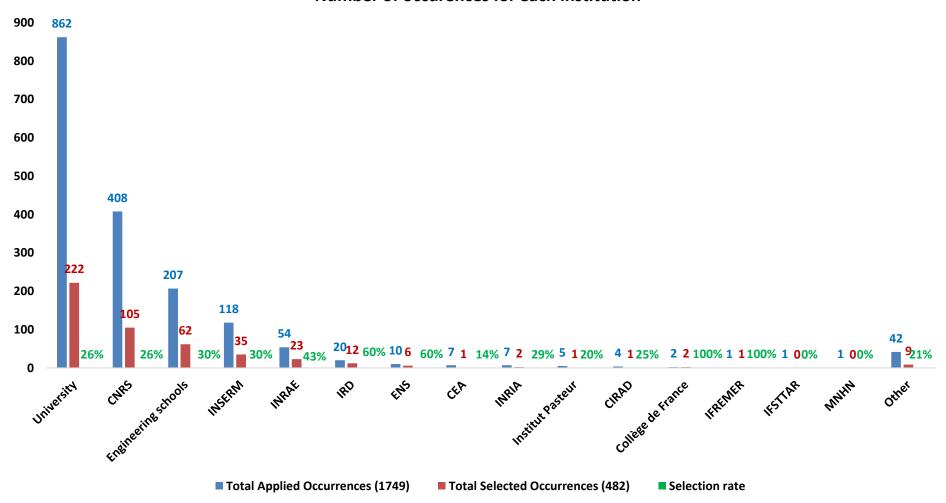
# FRENCH PARTICIPATING INSTITUTIONS (2006-2024)





# FRENCH PARTICIPATING INSTITUTIONS (2006-2024)

#### Number of occurences for each institution



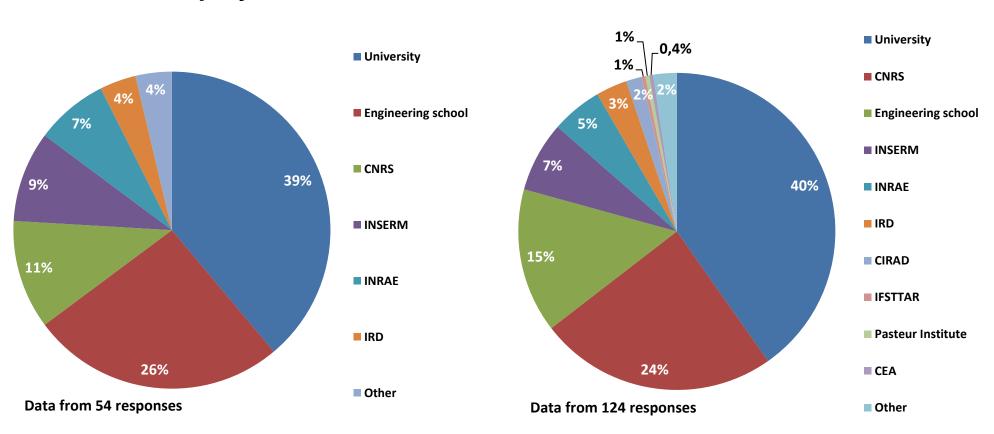


#### FRENCH PARTICIPATING INSTITUTIONS 2006-2023

(DATA FROM THE SURVEYS)

#### PI's employers

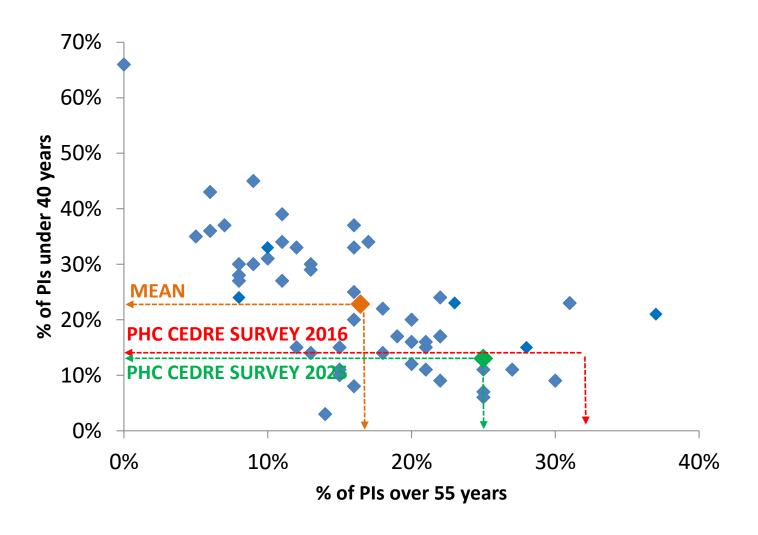
#### **Laboratories authorities**





#### **AGE OF FRENCH PRINCIPAL INVESTIGATORS 2006-2023**

(DATA FROM THE SURVEYS)



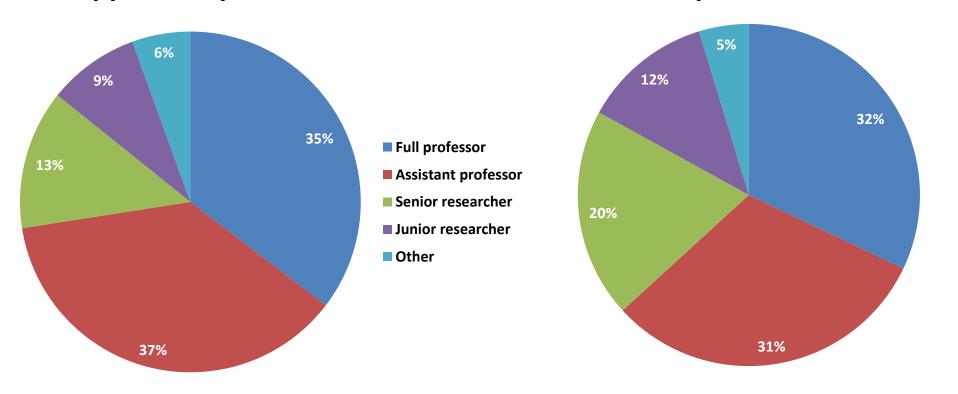
**Survey 2025 : 56 programs** 



### FRENCH PRINCIPAL INVESTIGATORS: STATUS (2006-2024)

#### **Applicants professional status**

#### Laureates professional status



Data from 506 french applicants and 106 french laureates

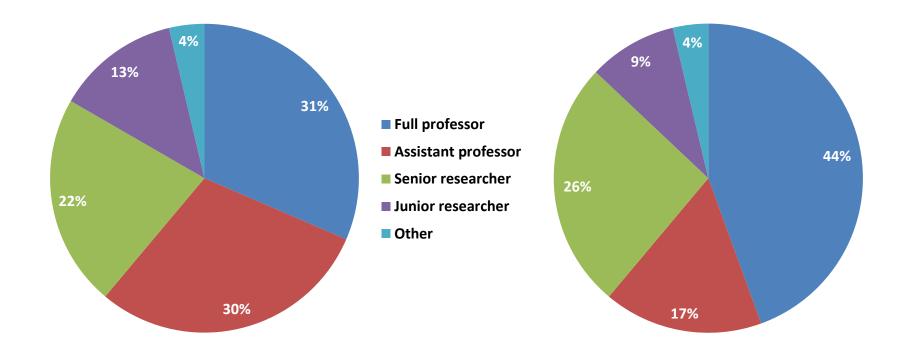


### FRENCH PIS (PRINCIPAL INVESTIGATORS): STATUS (2016-2023)

(DATA FROM SURVEY 2)

# Previous professional status (at the beginning of the project)

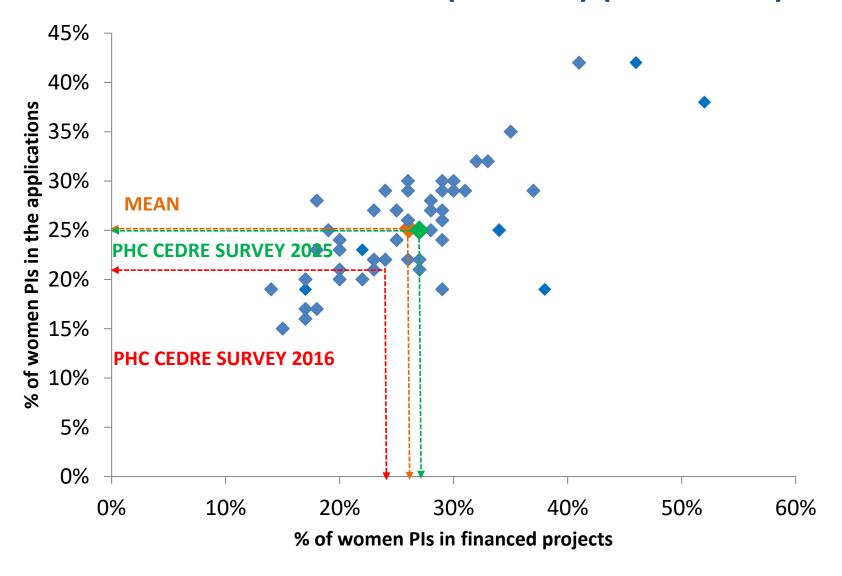
### **Current professional status**



Data from 54 responses



# **IMPLICATION OF WOMEN (FRANCE) (2006-2024)**

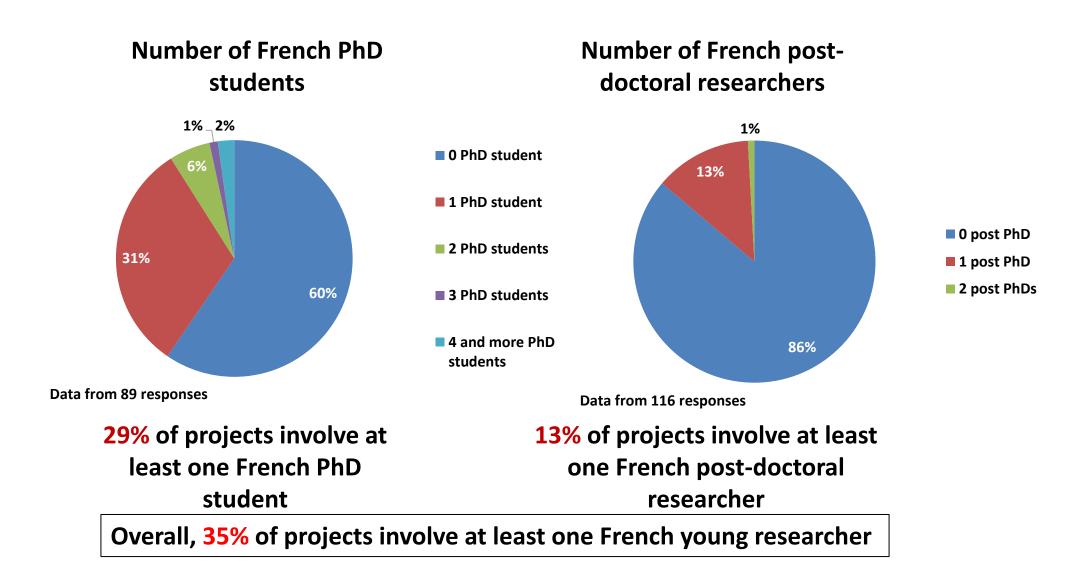


Survey 2025 : 56 programs



#### PARTICIPATION OF FRENCH YOUNG RESEARCHERS 2006-2023

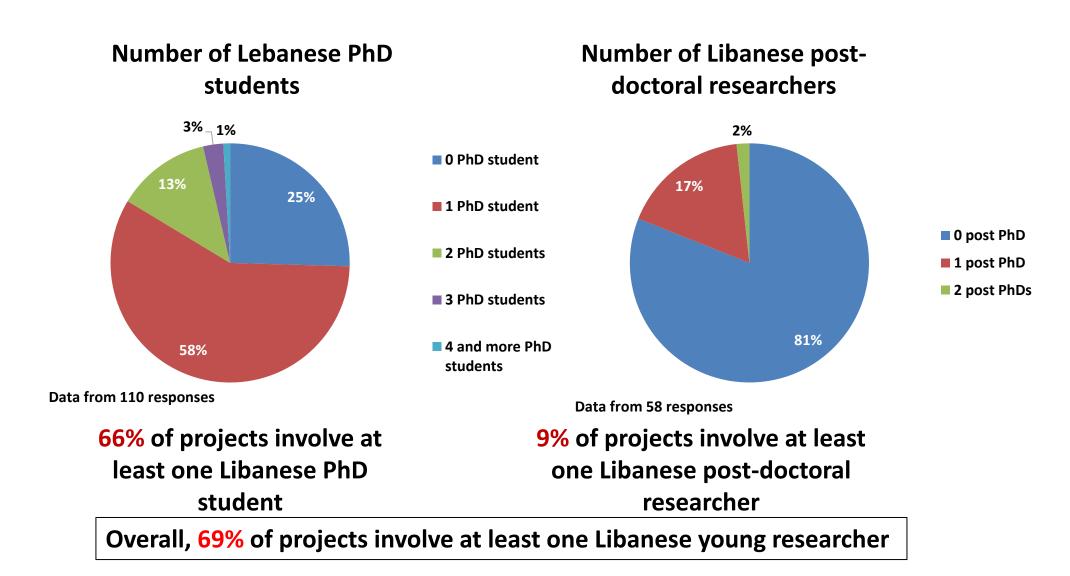
(DATA FROM THE SURVEYS)





#### PARTICIPATION OF LEBANESE YOUNG RESEARCHERS 2006-2023

(DATA FROM THE SURVEYS)

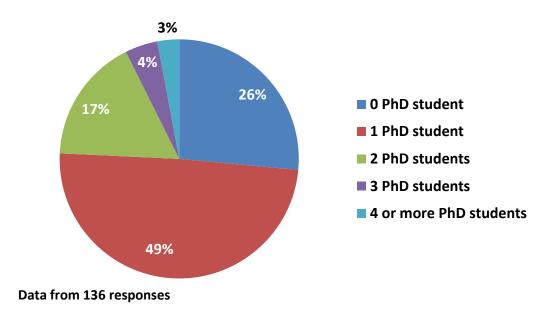




# PARTICIPATION OF FRENCH AND LEBANESE YOUNG RESEARCHERS 2006-2023

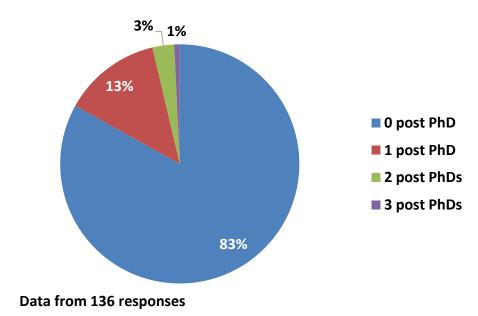
(DATA FROM THE SURVEYS)

# Number of French and Lebanese PhD students



81% of projects involve at least one French or Libanese PhD student

# Number of French and Libanese post-doctoral researchers



19% of projects involve at least one French or Libanese post-doctoral researcher

Overall, 85% of projects involve at least one French or Libanese young researcher



# PARTICIPATION OF YOUNG RESEARCHERS IN THE SCIENTIFIC COPRODUCTIONS (2006-2023)

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% At scientific contoductions involving	o a volin	o recearcher i	vs total niimna	T OT ALL	DINIA SCIANTITIC CO	nraductions
% of scientific coproductions involving	g a youn	g researcher (	vs total mullibe		zible scientinic co	pioductions

French young researchers	18%
Lebanese young researchers	49%
Either French or Lebanese young researchers	67%

# % of young researchers cited in the scientific coproductions (vs total number of young researchers involved in the projects)

French young researchers	30%
Lebanese young researchers	44%
Either French or Lebanese young researchers	39%

#### Annual rate of publication of young researchers (vs total number of young researchers involved in the projects)

French young researchers	0,36
Lebanese young researchers	0,59
Either French or Lebanese young researchers	0,51

# Annual rate of publication of young researchers (vs total number of young researchers cited in the scientific coproductions)

French young researchers	1,20
Lebanese young researchers	1,34
Either French or Lebanese young researchers	1,30



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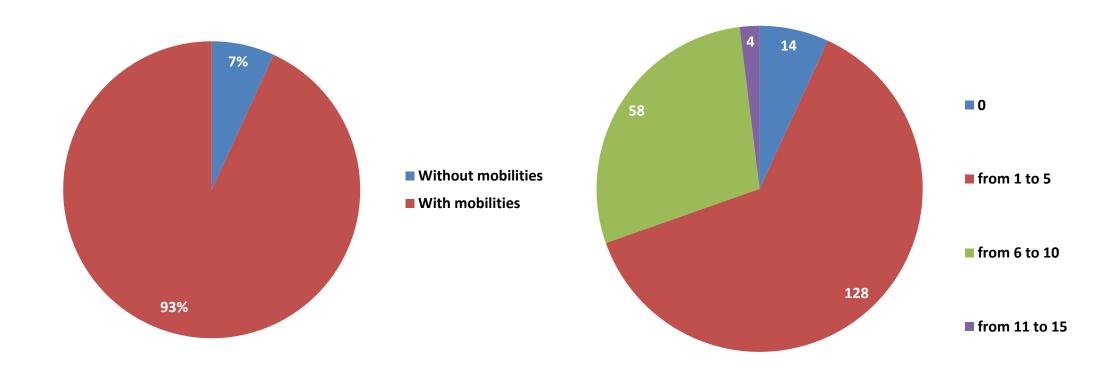
# **MOBILITY**



# **MOBILITIES (2013-2024)**

#### Projects with/without mobilities

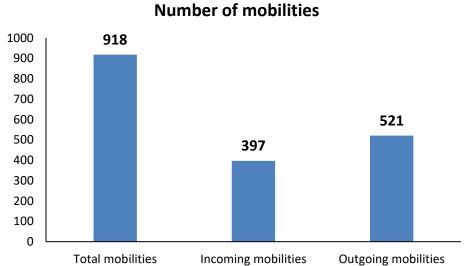
#### Number of mobilities per project

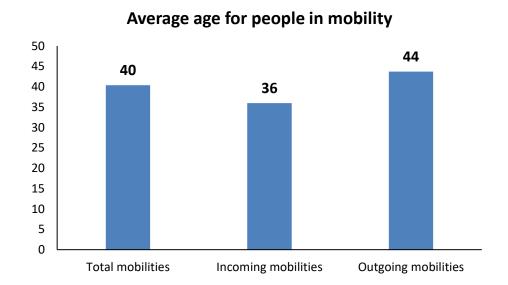


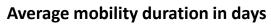
**Data from 204 funded projects** 

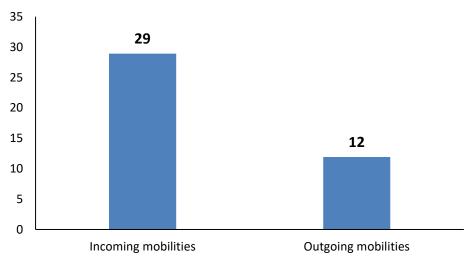


### **MOBILITIES (2013-2024)**

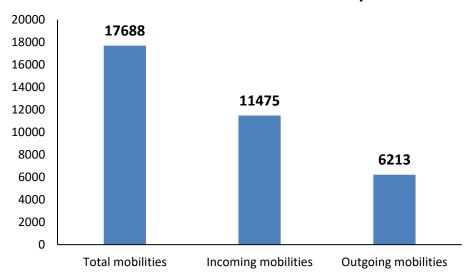








#### **Total duration of mobilities in days**

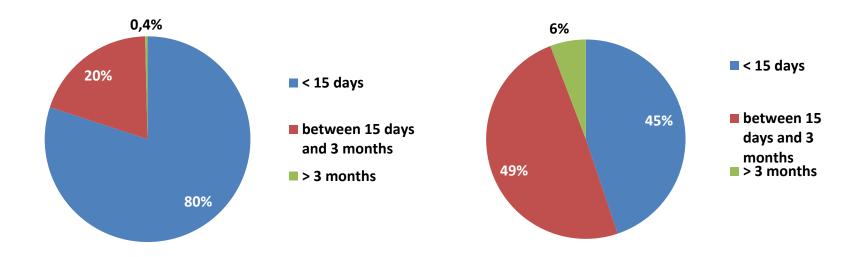




### **MOBILITY: DURATION (2013-2024)**



#### **Lebanon** → **France**

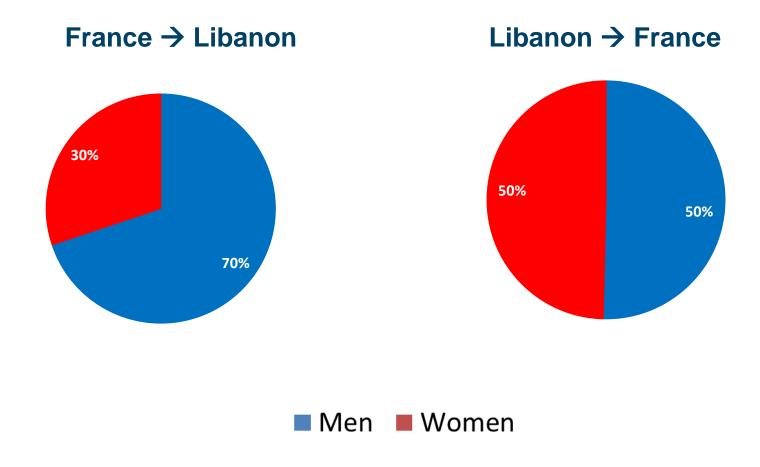


- < 15 days</p>
- between 15 days and 3 months
- > 3 months

Data from 521 outgoing mobilities and 397 incoming mobilities



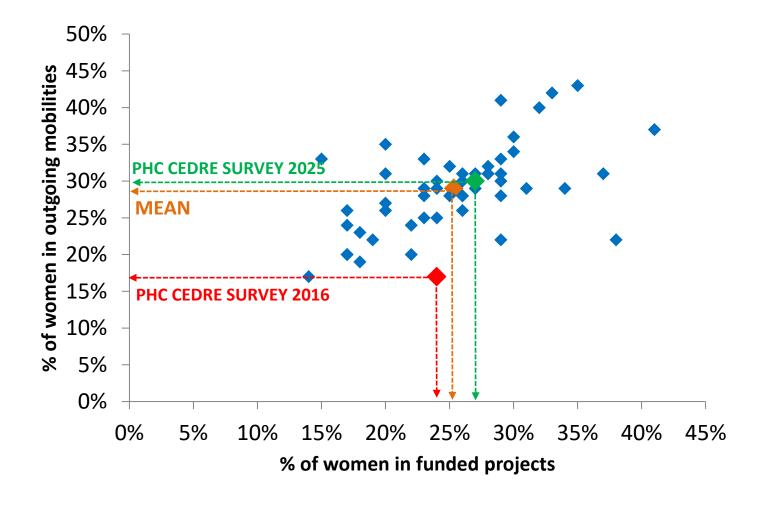
# **MOBILITY: GENDER DISTRIBUTION (2013-2024)**



Data from 521 outgoing mobilities and 397 incoming mobilities



### **WOMEN MOBILITY FRANCE – LEBANON (2013-2024)**



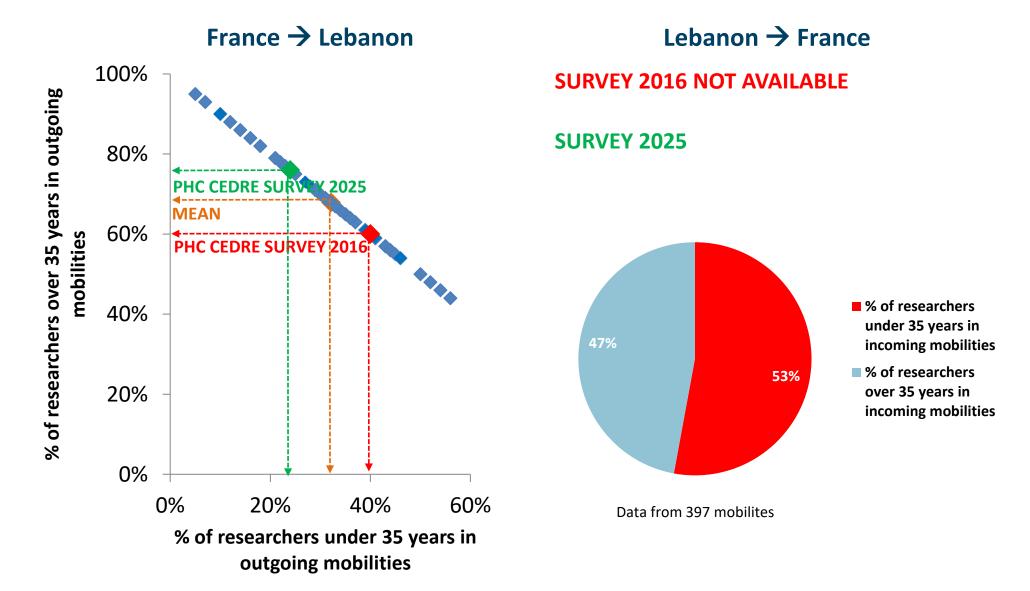
**Survey 2016 : Data from 167 funded projects** 

**Survey 2025 : Data from 204 funded projects** 

Survey 2025 : 56 programs



# **YOUNG RESEARCHERS MOBILITY (2013-2024)**



Survey 2025 : 56 programs



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# SCIENTIFIC PRODUCTION (PROJECTS 2006-2023)



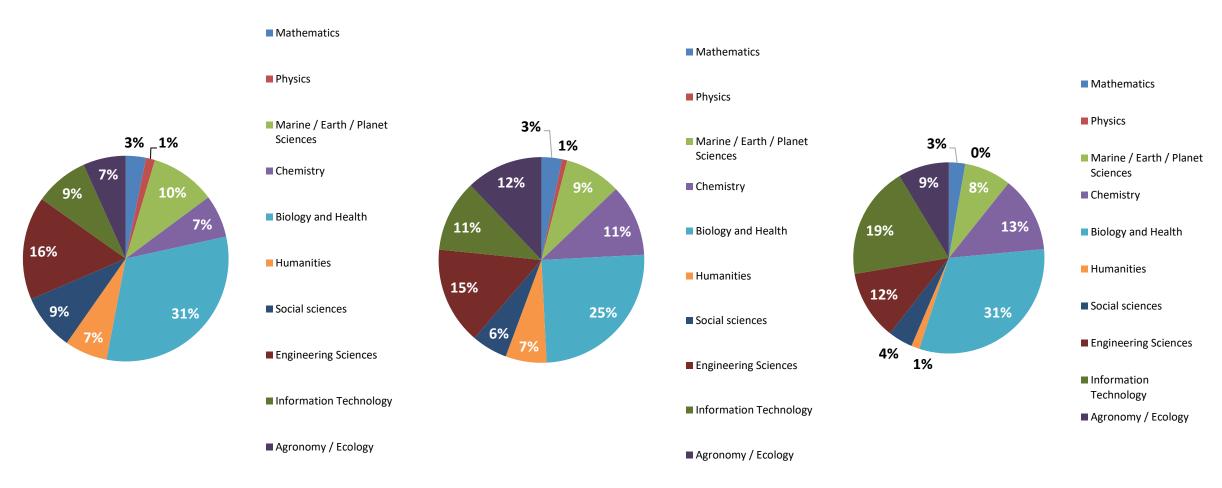
#### **SCIENTIFIC PRODUCTION 2006-2023**

(DATA FROM CAMPUS FRANCE AND THE SURVEYS)

#### **Funded projects 2006-2023**

#### Responses to the survey 2006-2023

#### **Coproductions 2006-2023**





# SCIENTIFIC PRODUCTION (2006-2023) 2016+2025 SURVEYS

	Number of funded projects 2016 survey	Number of funded projects 2016+2025 surveys	Average annual number of scientific coproductions per project 2016 survey	Average annual number of scientific coproductions per project 2016+2025 surveys
Mathematics	4	10	0,00	1,00
Physics	6	6	0,00	0,00
Marine/Earth/Planet Sciences	18	30	0,75	1,05
Chemistry	18	25	0,83	1,32
Biology and Health	52	88	1,60	1,47
Humanities	10	21	0,00	0,25
Social Sciences	12	26	1,17	0,86
Engineering Sciences	17	44	0,92	0,89
Information Technology	23	30	0,80	1,96
Agronomy / Ecology	7	23	0,83	0,83
TOTAL/MOYENNE	167	303	0,89	1,17

Overall average annual number of scientific coproductions per project 2016 : 0,89 vs 0,96 mean Overall average annual number of scientific coproductions per project 2016+2025 : 1,17

#### **Enquêtes 2016+2025**

68% of funded projects led to at least 1 scientific coproduction (vs 55% survey 2016)

67% of scientific coproductions involve at least 1 young researcher (vs 51% survey 2016)

The average annual rate of publication of young researchers implicated in the projects is 1,01 (vs 0,8 survey 2016)

The average annual rate of young researchers implicated in the scientific coproductions is 2,60 (not available survey 2016)

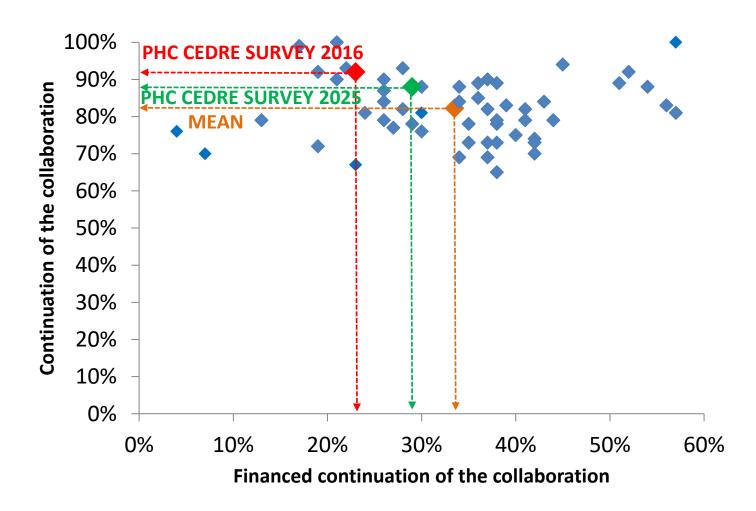


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# WHAT HAPPENS AFTER A CEDRE PROJECT ?



#### **CONTINUATION OF THE COOPERATION**



Data from 113 responses (continuation) and 96 responses (financing)

Survey 2025 : 56 programs



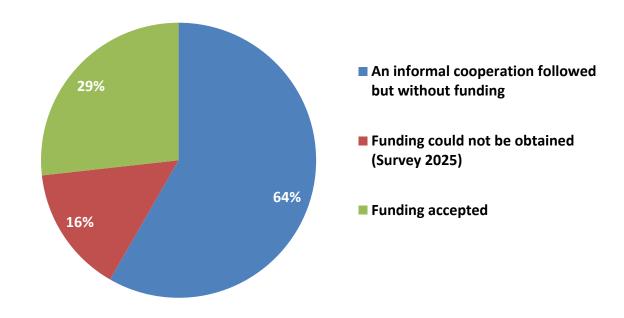
#### **CONTINUATION OF THE COOPERATION**

### **88%** of the cooperations continued after the CEDRE project

	% of
Which activities?	projects
Scientific co-productions	66%
Cooperative research	58%
Joint participation to conferences	35%
Joint participation to PhD thesis	34%
Researchers mobilities	33%
PhD mobilities	23%
Co-organisation of scientific events	13%
Joint diplomas (Master, PhD)	5%
Other	11%



#### 29% of cooperations have been funded following the project



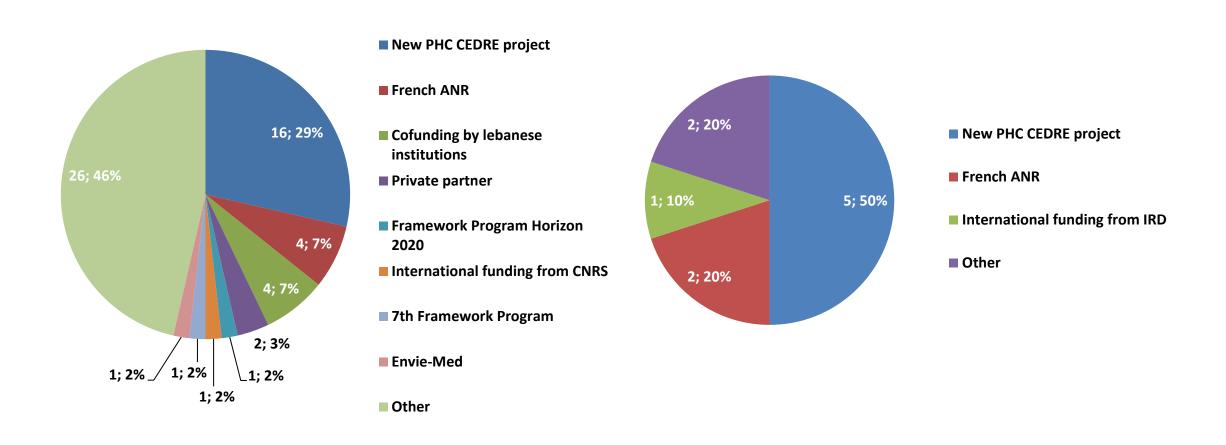
**Data from 96 responses** 



#### What kind of funded collaborations after the PHC CEDRE project?

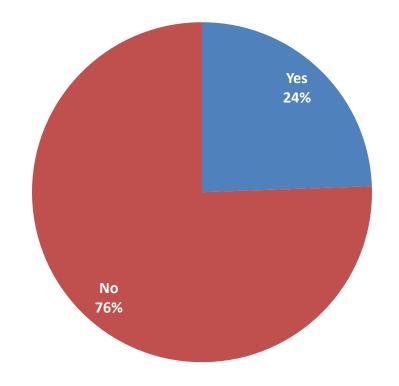
**ACCEPTED FUNDINGS AFTER THE CEDRE PROJECT** 

REJECTED FUNDINGS AFTER THE CEDRE PROJECT



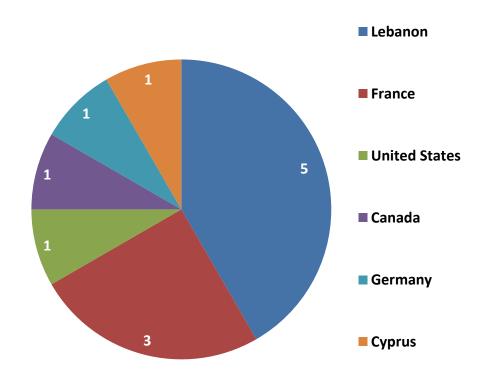


#### Has the French-Libanese cooperation involved new partners?



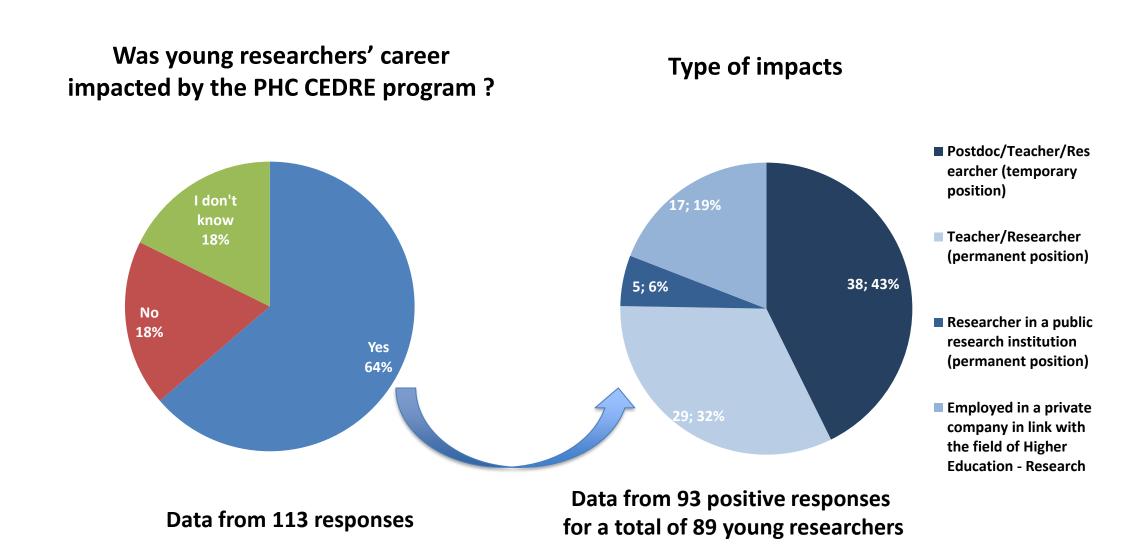


### If the French-Lebanese cooperation involves new partners, list with which countries



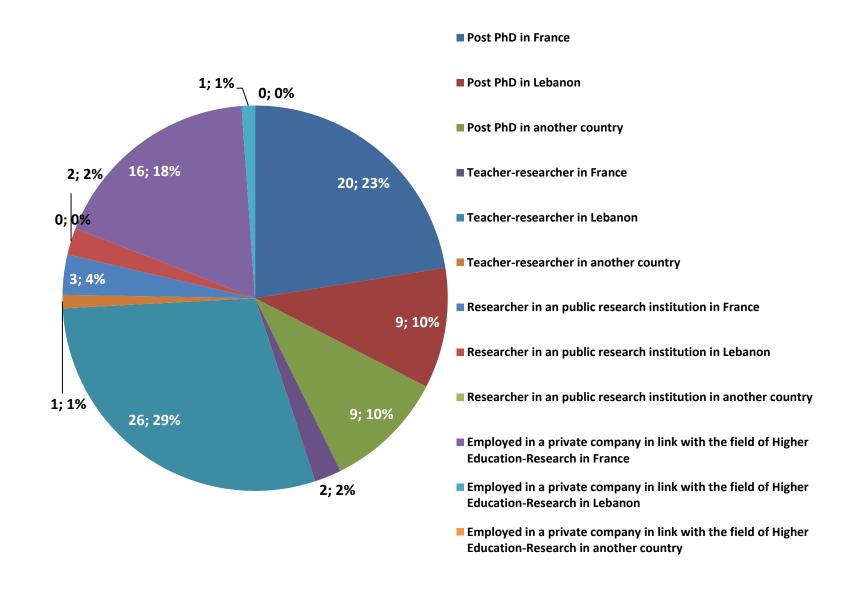


#### **IMPACT ON YOUNG RESEARCHERS' CAREER**





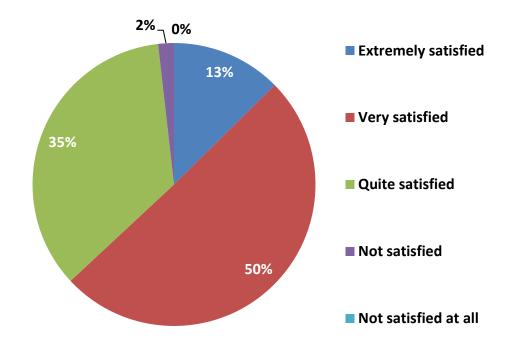
#### **IMPACT ON YOUNG RESEARCHERS' CAREER**





## GENERAL OPINION OF FRENCH PRINCIPAL INVESTIGATORS ON THE PROGRAM

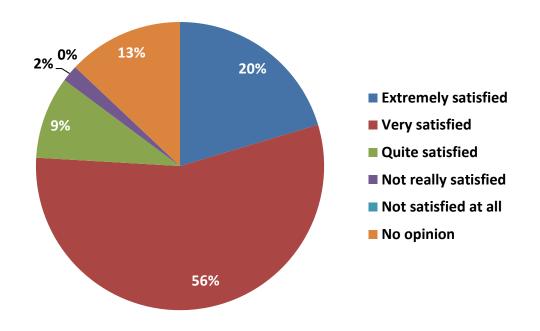
#### 98% of French principal investigators are satisfied





## OPINION OF FRENCH PRINCIPAL INVESTIGATORS ABOUT FRENCH EMBASSY HELP

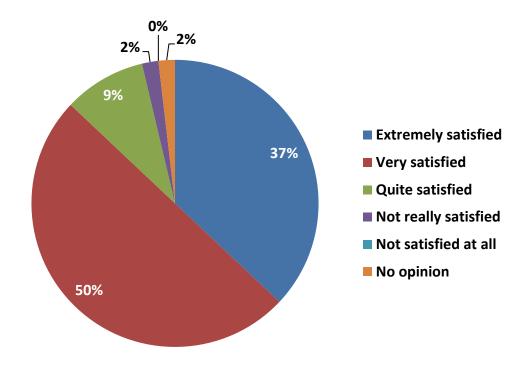
(DATA FROM SURVEY 2025)





# OPINION OF FRENCH PRINCIPAL INVESTIGATORS ABOUT CAMPUS FRANCE ADMINISTRATIVE MANAGEMENT

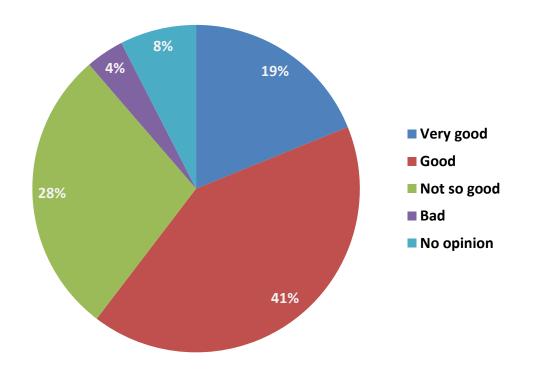
(DATA FROM SURVEY 2025)





# OPINION OF FRENCH PIS ABOUT UNDERSTANDING THE ROLE OF THE DIFFERENT FRENCH ACTORS IN THE PROGRAM

(DATA FROM SURVEY 2025)





# GENERAL OPINION OF FRENCH PIS ON THE PROGRAM POSITIVE COMMENTS



Strengths of this program	Number of occurencies (out of 402)	% of funded projects (111 responses)	
Fostering an international research cooperation	65	59%	
Fostering researchers' mobility	55	50%	
Fostering the training of young researchers	46	41%	
Simplicity of the project application process	40	36%	
Easy implementation (administrative flexibility)	38	34%	
Fostering exchanges enabling scientific production	36	32%	
Sufficient financial means for the mobility costs	26	23%	
Financial autonomy towards your institution	15	14%	
Helping to know the partner country	14	13%	
Helpful to initiate other fundraising	14	13%	
Sufficient amount of mobility time given to collaborate	14	13%	
Good scientific-added value on financial investment	12	11%	
Flexibility of the programme for actions co-financed with the Lebanese partner	10	9%	
Sufficiently long duration of the projects	8	7%	
Transparency of the selection process	6	5%	
Timetable for implementation	2	2%	
Other	1	1%	
Total number of occurencies	402		



# GENERAL OPINION OF FRENCH PIS ON THE PROGRAM NEGATIVE COMMENTS



Weaknesses of this program	Number of occurencies (out of 230)	% of funded projects (112 responses)
Insufficient financial means to cover a project	55	49%
Length of support too short	25	22%
Financial means insufficient for the expenditure of mobility (transport)	23	21%
Difficult to continue the cooperation	20	18%
Lack of transparency in the selection process	19	17%
Financial means insufficient for the expenditure of mobility (per diem)	19	17%
Too short duration of mobilities	12	11%
Administrative heaviness of the missions management	9	8%
Heaviness of the process of applications	7	6%
Insufficient communication on the evaluation's results	6	5%
Timetable for implementation	6	5%
Too low number of mobilities	4	4%
Too long duration of mobilities	1	1%
Flexibility of the program for actions co-financed with the Lebanese partner	1	1%
Financial autonomy towards your institution	1	1%
Other	22	20%
Total number of occurencies	230	



#### **COMPARISON SURVEY 2016 (2006-2015) – SURVEY 2025 (2016-2023)**

	2006-2015	2006-2023	
Average annual number of applications	56	61	+5
Number of selected projects carried by young researchers	14%	13%	-1%
Number of women applicants	21%	25%	+4%
Number of women laureates	24%	27%	+3%
Projects involving young researchers	71%	85%	+14%
Outgoing mobilities of french young researchers	40%	24%	-16%
Outgoing mobilities for women researchers	17%	30%	+13%
Average annual number of scientific coproductions per project	0,89	1,17	+0,28
Continuation of cooperations	92%	88%	-4%
Continuation of cooperations with financing	23%	29%	+6%

### Response rate:

• **2016**: 43%

• **2025**: 49%

• Evolution: +6%



#### PRELIMINARY CONCLUSIONS

Preliminary conclusions suggest that the funding scheme has efficiently contributed to create (or to maintain) fruitful and long-term cooperation.

Implication of women laureates (25%) same as the general mean (25%)



85% of funded projects with the participation of at least one french or libanese young researcher 67% of scientific coproductions involve at least one french or libanese young researcher Good average annual scientific coproductions per project (1,17)

Correct rate of average annual publications for french and libanese young researchers involved in the scientific coproductions (1,30)

Good implication of libanese young researchers in the mobilities (53% of the mobilities) 92% of ongoing cooperation after the CEDRE project

Only 16% of new cooperations with Lebanon

67% of the cooperations with the same previous libanese partner (mean of all programs : 45%) Implication of young researchers laureates (13%) below the general mean (23%) 32% of the projects with no scientific coproduction



Only 35% of funded projects with the participation of at least one french young researcher Only 39% of french or libanese young researchers involved in the scientific coproductions (mean of all programs : 50%)

Rather low implication of french young researchers in the mobilities (24%) compared to the mean of all programs (32%)

Low rate of average annual publications for french or libanese young researchers involved in the projects (0,51)



#### PRELIMINARY RECOMMANDATIONS

- Encourage new cooperations
- Encourage young researchers applications
- Enhance scientific coproductions (from the surveys : 32% of projects with no scientific coproduction)
- Increase the participation of french young researchers to the projects
- Increase the participation of both french and libanese young researchers to the scientific coproductions
- Promote outgoing mobilities of french young researchers



French national ministries (MESR / MEAE) will provide a complete analysis of the survey. It will be sent to the recipients of the funding who participated in this survey.

#### **CONTACTS**

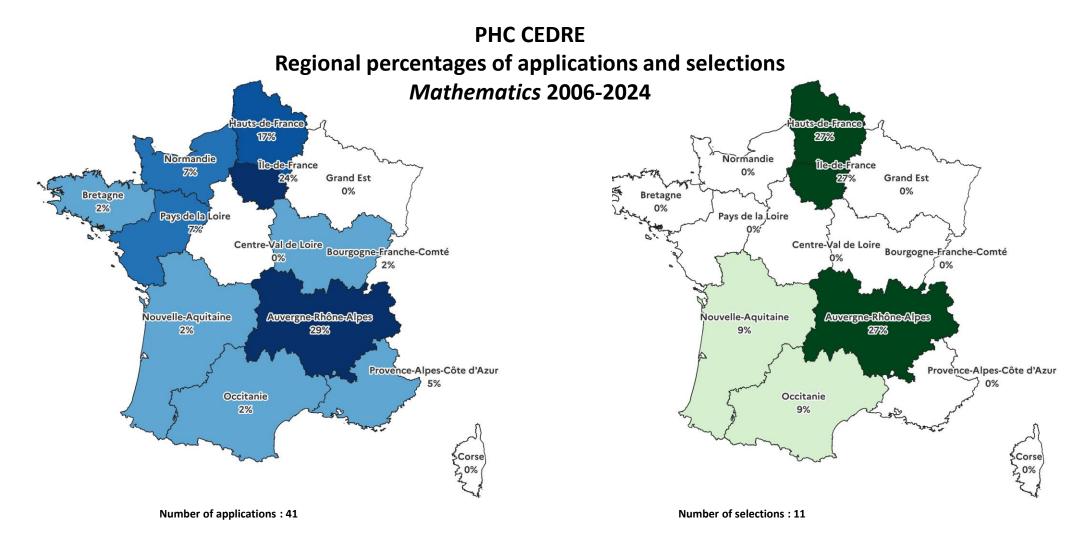
christophe.delacourt@recherche.gouv.fr
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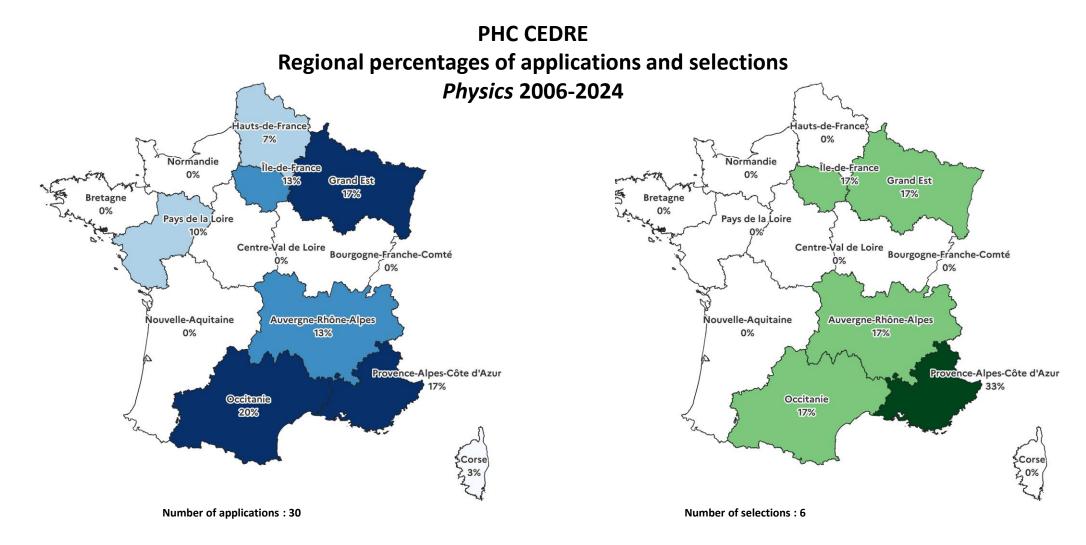
# ANNEX REGIONALISATION AND SCIENTIFIC DOMAINS (CARTOGRAPHIES)





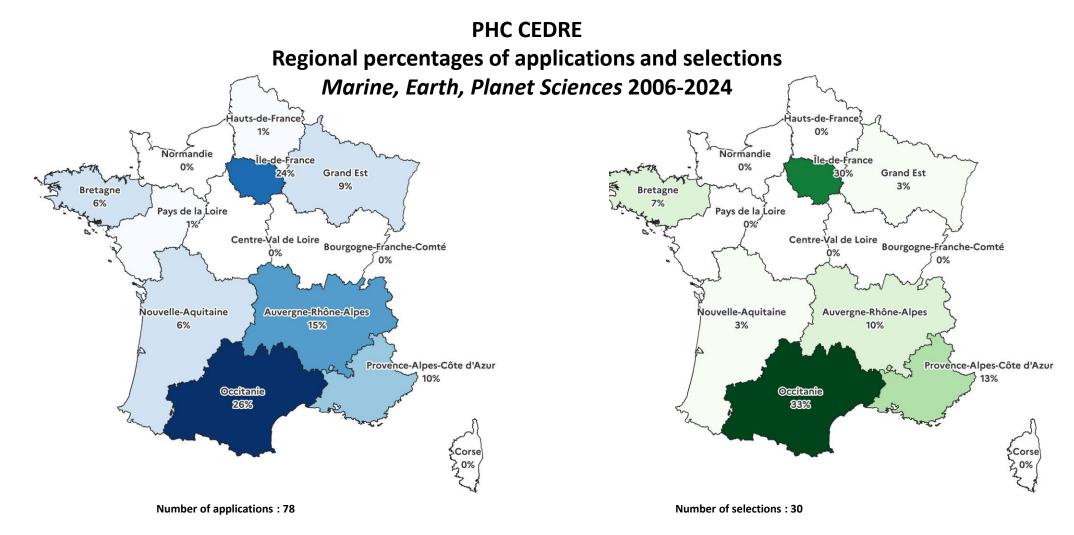
Ten regions are concerned for applications with Auvergne-Rhône-Alpes ahead. Only five regions are concerned for selections





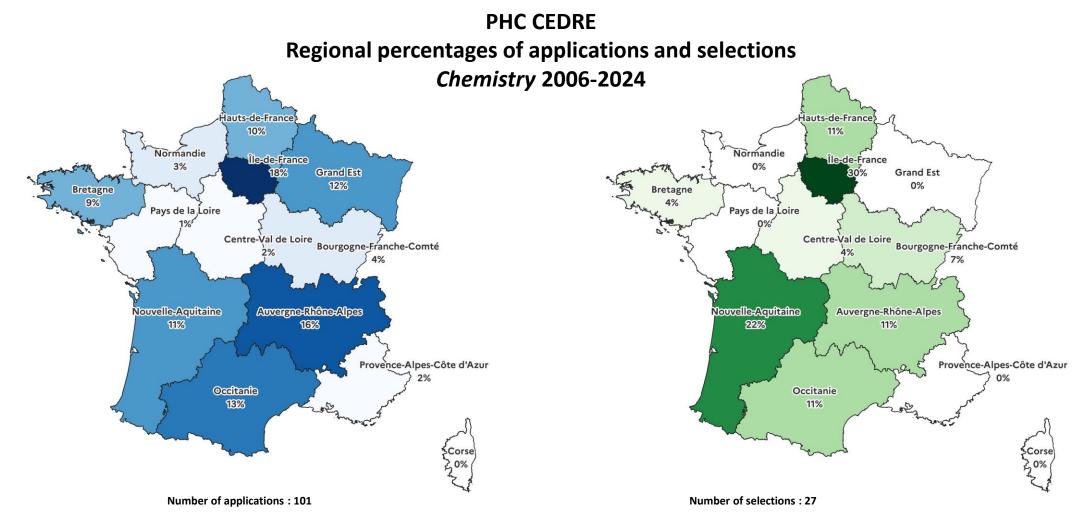
Eight regions are concerned for applications with Occitanie ahead. Five regions benefit selections with Provence-Alpes-Côte d'Azur ahead)





Nine regions are concerned for applications with Occitanie ahead .Seven regions benefit selections with Occitanie still ahead

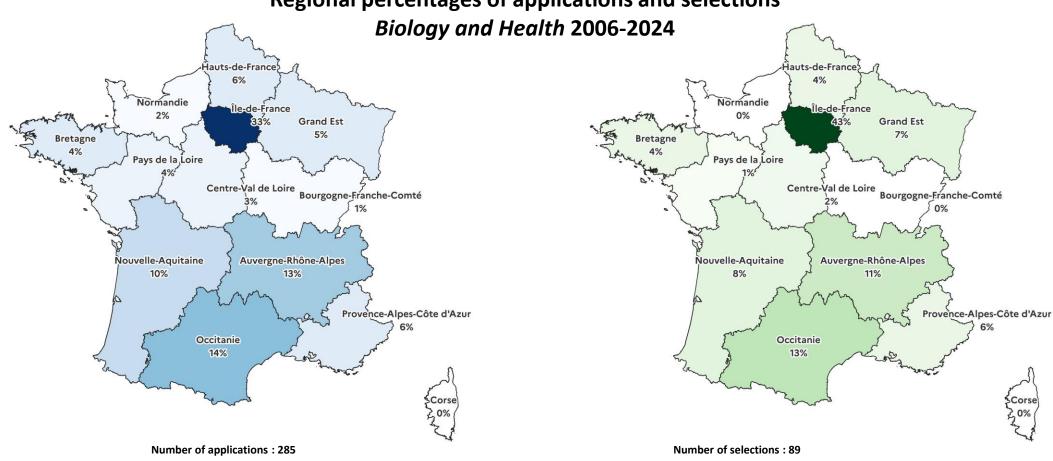




Twelve regions are concerned for applications with Ile-de-France ahead. Eight regions are concerned for selections with Ile-de-France still ahead



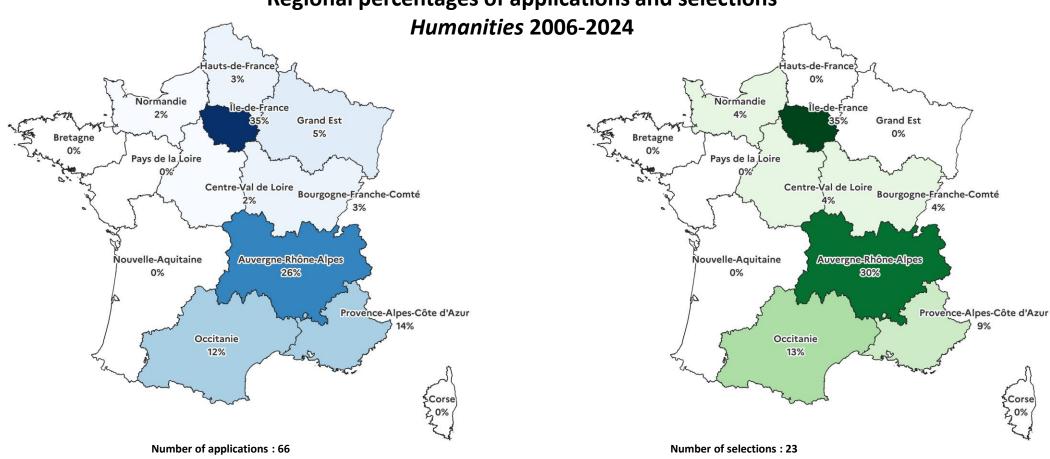
### PHC CEDRE Regional percentages of applications and selections



Twelve regions are concerned for applications with Ile-de-France ahead. Ten regions benefit selections with Ile-de-France still ahead



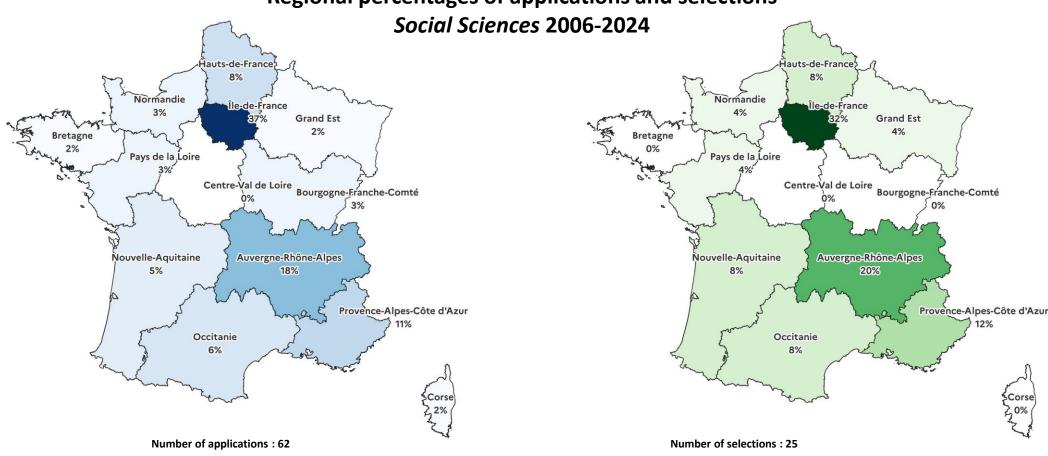




Nine regions are concerned for applications with Ile-de-France ahead. Seven regions benefit selections with Ile-de-France still ahead

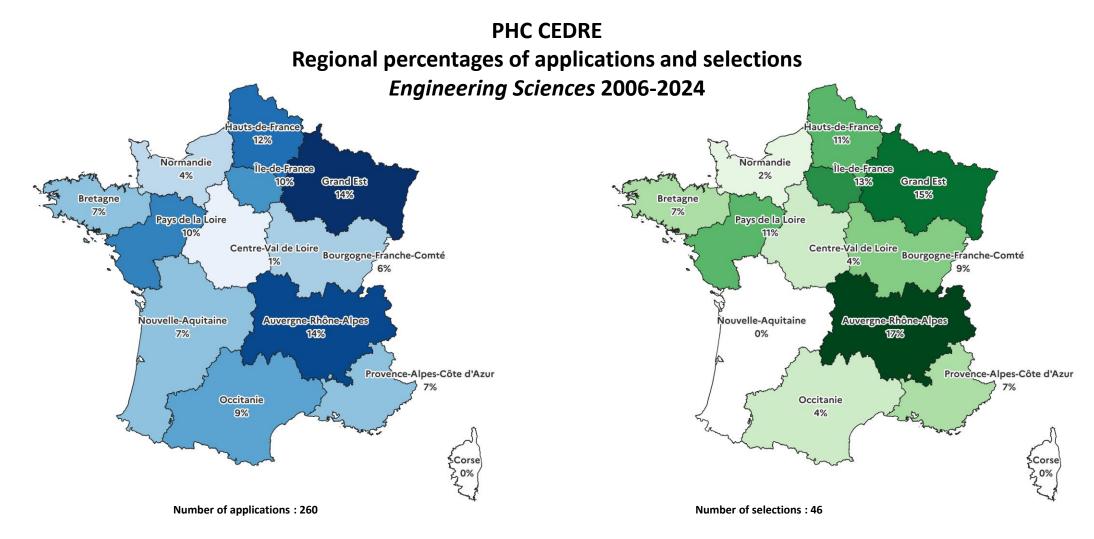


### PHC CEDRE Regional percentages of applications and selections



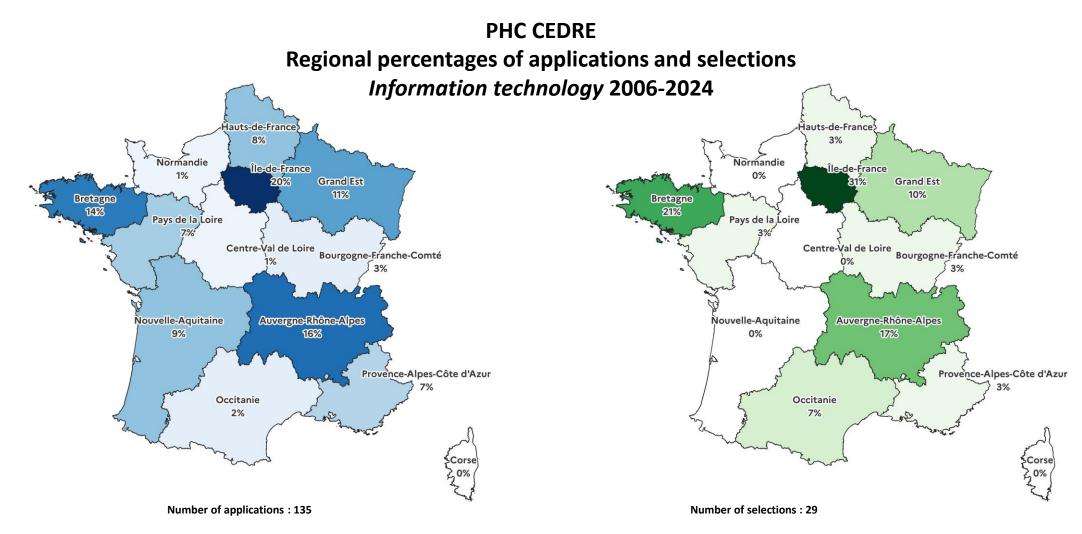
Twelve regions are concerned for applications with Ile-de-France ahead. Nine regions benefit selections with Ile-de-France still ahead





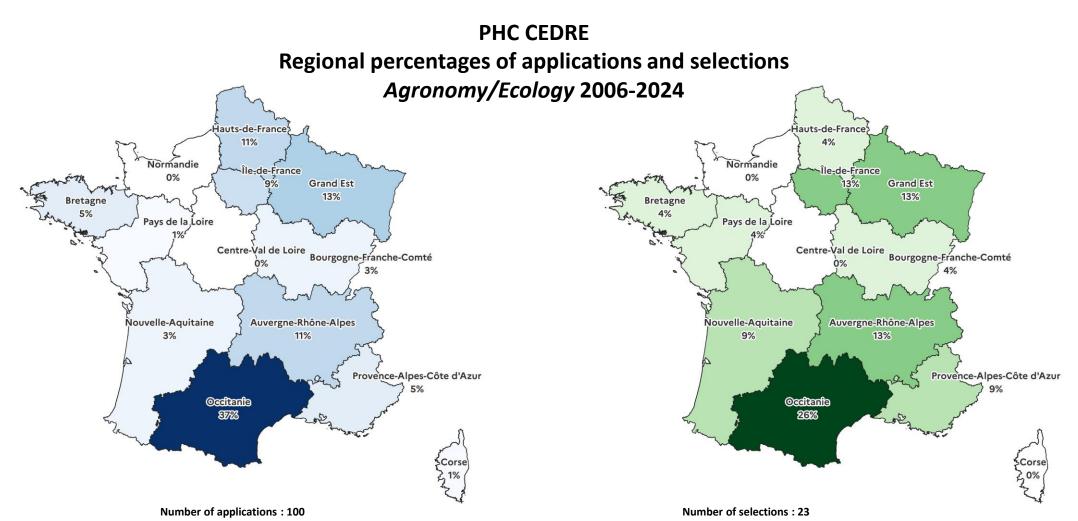
Twelve regions are concerned for applications with Grand Est and Auvergne-Rhône-Alpes ahead. Eleven regions benefit selections with Auvergne-Rhône-Alpes ahead





Twelve regions are concerned for applications with Ile-de-France ahead. Nine regions benefit selections with Ile-de-France still ahead





Eleven regions are concerned for applications with Occitanie ahead. Ten regions benefit selections with Occitanie still ahead