

FRANCE – SOUTH AFRICA

Scientific impact of the PROTEA program (2006-2022)

MESRI-DAEI / MEAE

2024

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

GENERAL PRESENTATION OF THE PROGRAM

Creation : 1997

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

Total budget 2011 2022 (France + South Africa) : around 240 000 €/year

>> including budget from the French part : around 120 000 € / year

>> including budget from the South African part : around 120 000 € / year

Maximum budget per project (France + South Africa) : 15 000 € / year

Number of new projects submitted per year : around 64

Number of new projects funded per year : around 14

From 2011-2022 :
446 applications submitted
98 projects funded

Campus France (2011-2022)

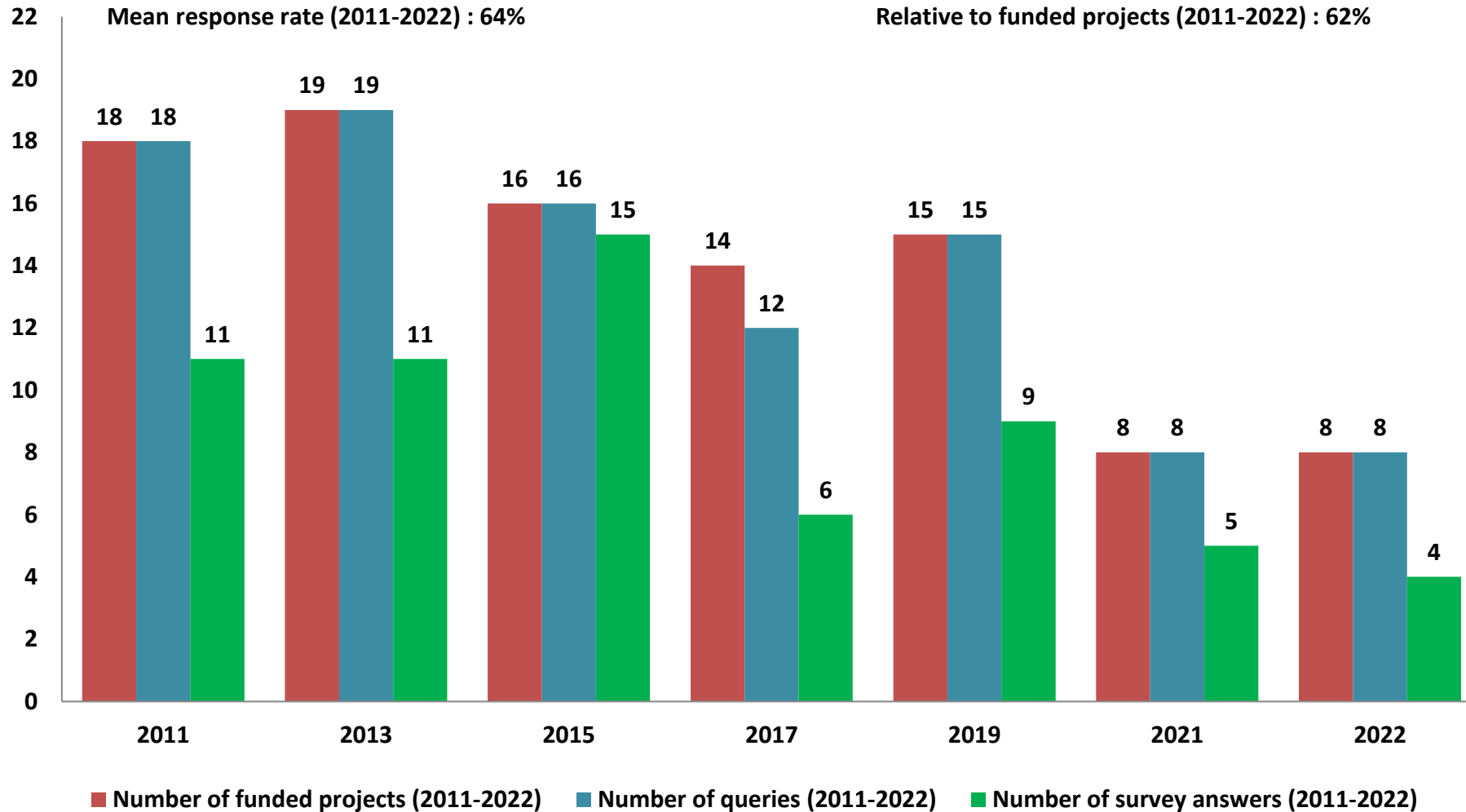
- Information about the PHC Protea applications
- List of outgoing and incoming mobilities
- Survey 1 : 2011-2015 ; Survey 2 : 2011-2022
- Call for offer every 2 years until 2021

Survey (2006-2022)

- Target : French Principal Investigators of selected projects between 2006 and 2022
- Survey 1 (2006-2016) duration : from July to September 2017
41% response ratio (37 respondents for 90 funded projects)
- Survey 2 (2017-2022) duration : from November 2023 to January 2024
54% response ratio (29 respondents for 54 funded projects)

ANSWERS TO THE SURVEYS (2011-2022)

Average response rate to the surveys : 64 % (62 answers)



Complete statistics data before 2011 not available



KEY POINTS

DATA CAMPUS FRANCE : 2011-2022

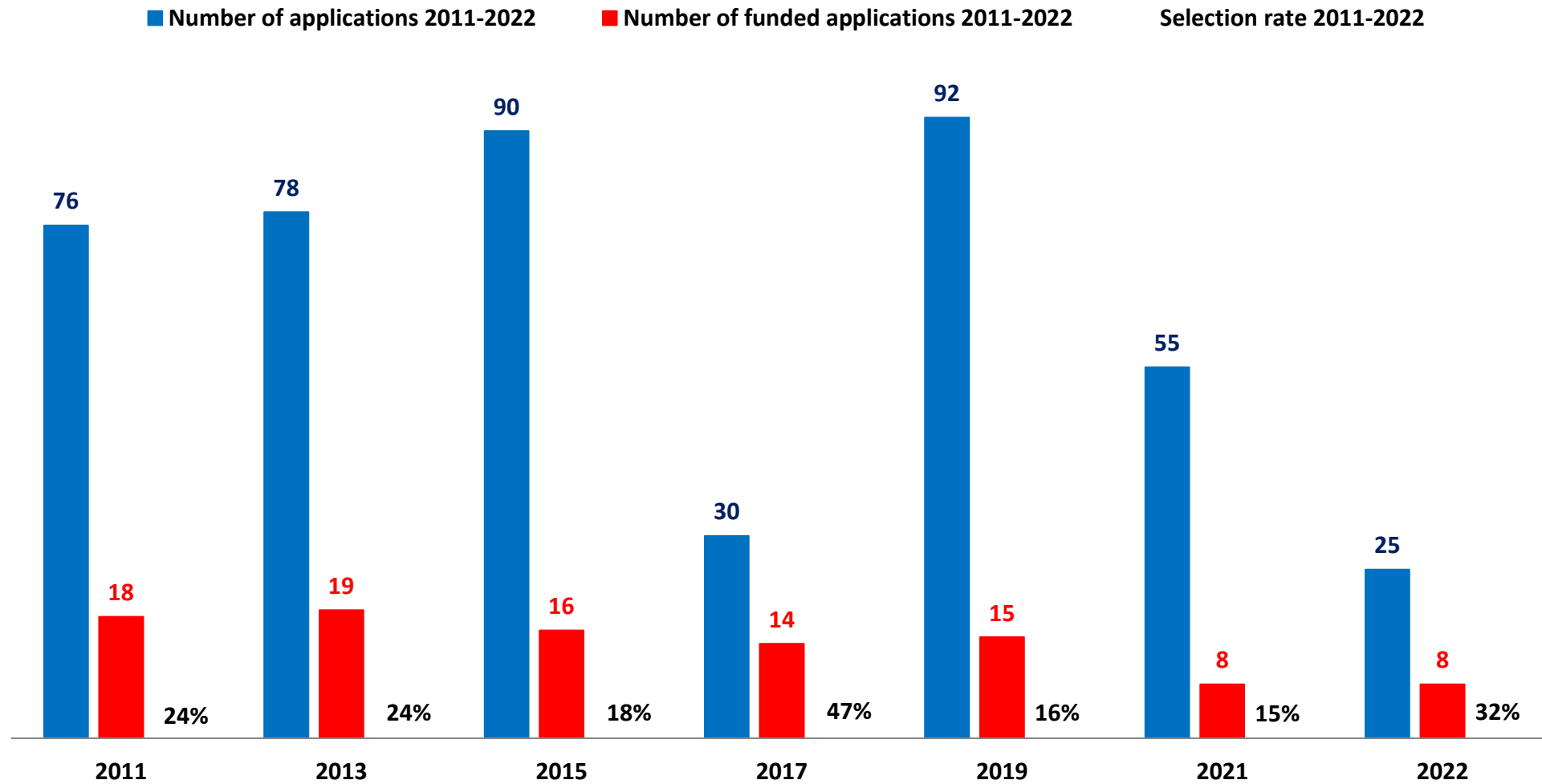
DATA SURVEY 1 : 2006-2016

DATA SURVEY 2 : 2017-2022

DATA SURVEYS 1+2 : 2006-2022

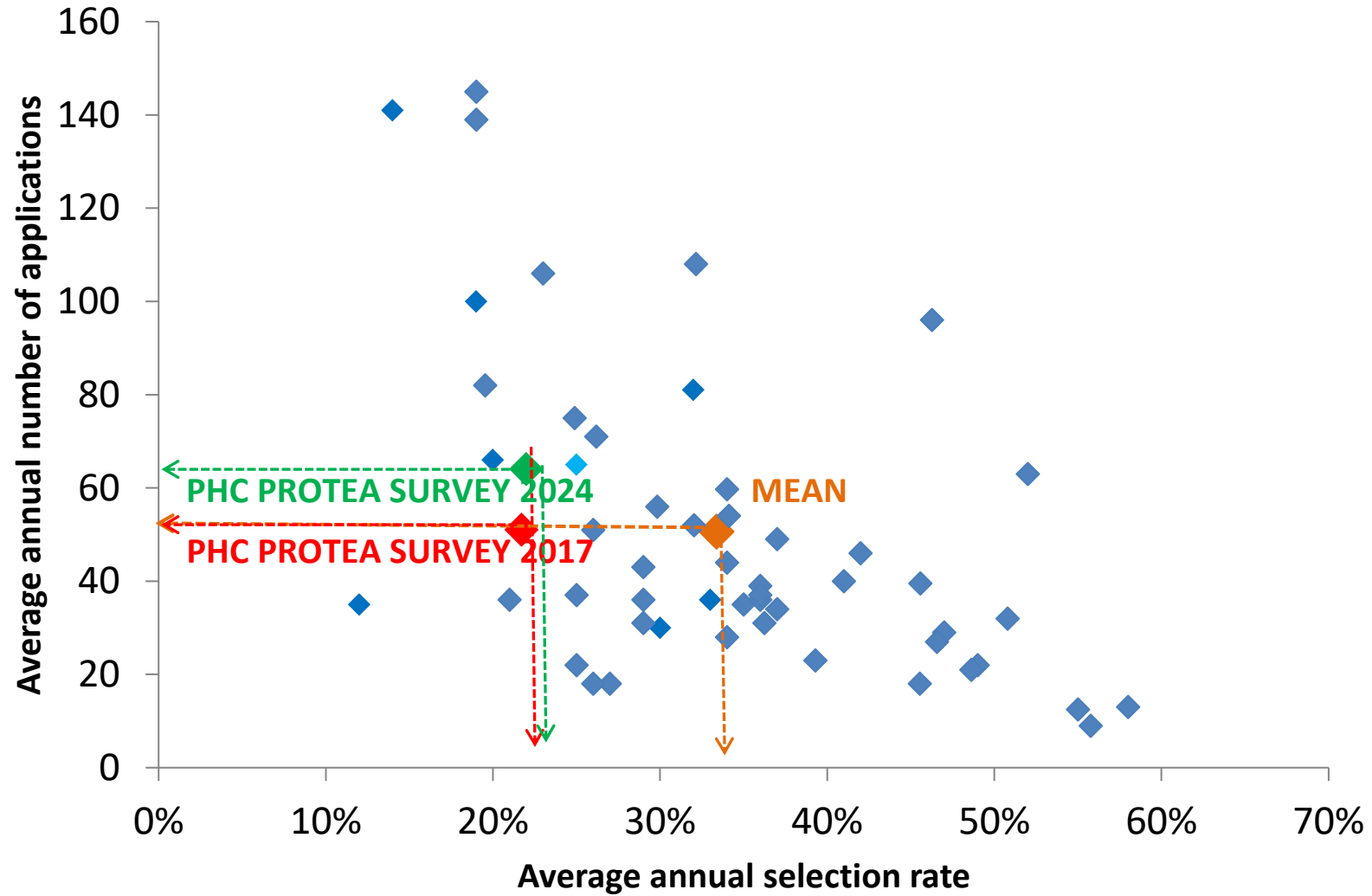
NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2011-2022: **22%**



Complete statistics data before 2011 not available

NUMBER OF APPLICATIONS VS SELECTION RATE (2011-2022)



Survey 2017 : 26 programs

Survey 2024 : 53 programs

BEFORE THE PROTEA PROJECT

**66% of the laureates have already previously cooperated with South Africa
(data from 62 responses)
(mean of all programs : 56%)**

**This previous cooperation was with the same partner for 92% of the laureates
(data from 40 responses)
(mean of all programs : 46%)**

**This previous cooperation was financed by the PHC PROTEA for 21% of the laureates
(data from 29 responses)
(mean of all programs : 21%)**

BEFORE THE PROTEA PROJECT

With which scientific collaboration program ?	% of occurrences
PHC Protea	21%
CNRS International funding	21%
South African institutions cofunding	15%
European Framework program	3%
European funding	3%
INRIA International funding	3%
Others (National Research Fondation, Program Desmond Tutu...)	35%

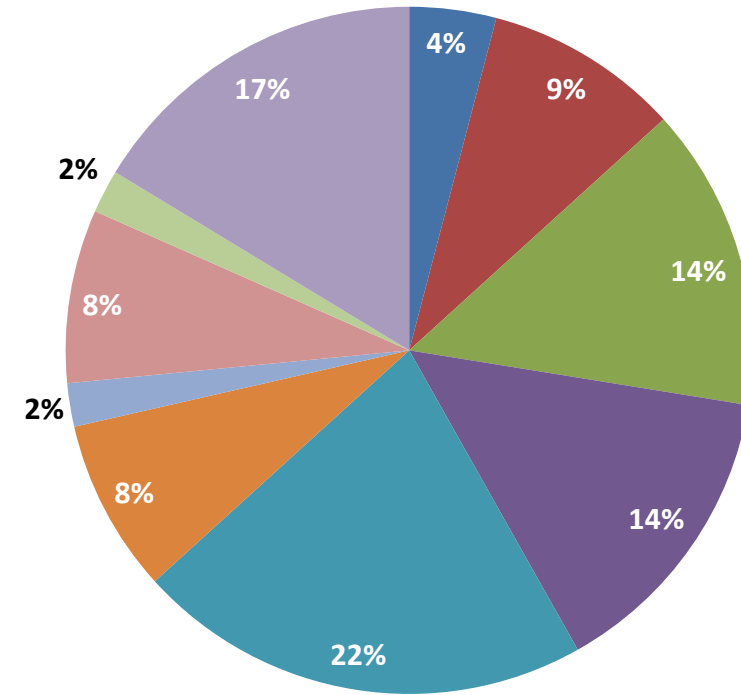
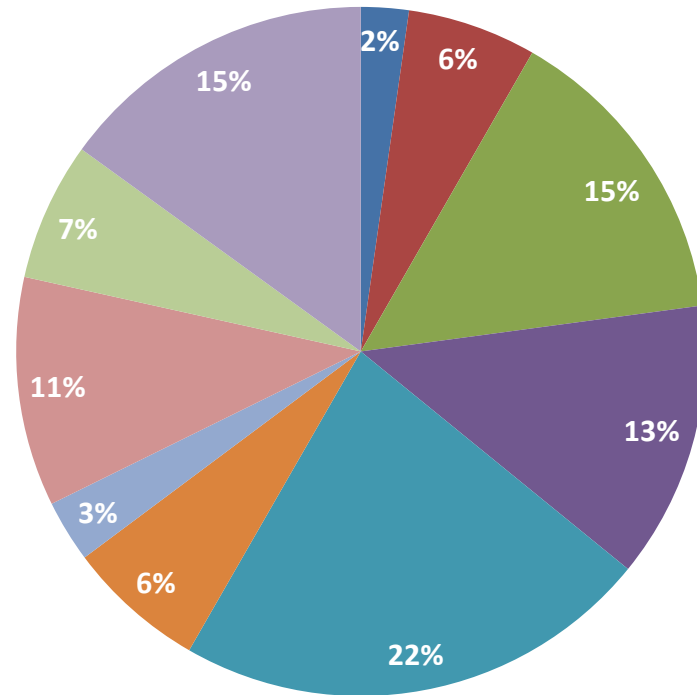
Data from 29 responses

Plus 21 previous cooperations based on other exchanges (scientific coproduction, meetings, students supervision...)

SCIENTIFIC DOMAINS OF PROJECTS (2011-2022)

Number of applications : **446**

Number of funded projects : **98**

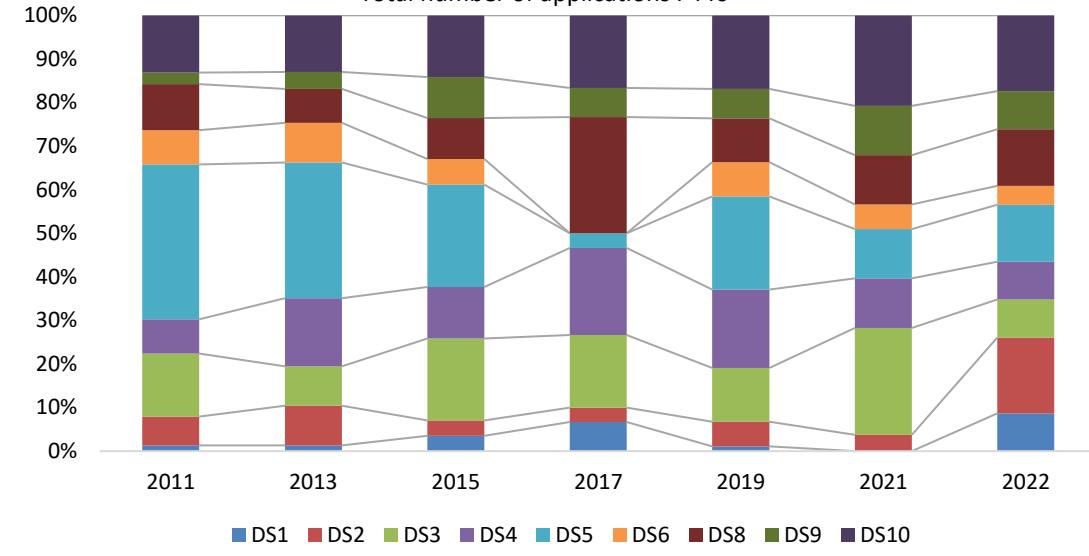


- Mathematics
- Marine/Earth/Planet Sciences
- Biology and Health
- Social Sciences
- Information Technology
- Physics
- Chemistry
- Humanities
- Engineering Sciences
- Agronomy/Ecology

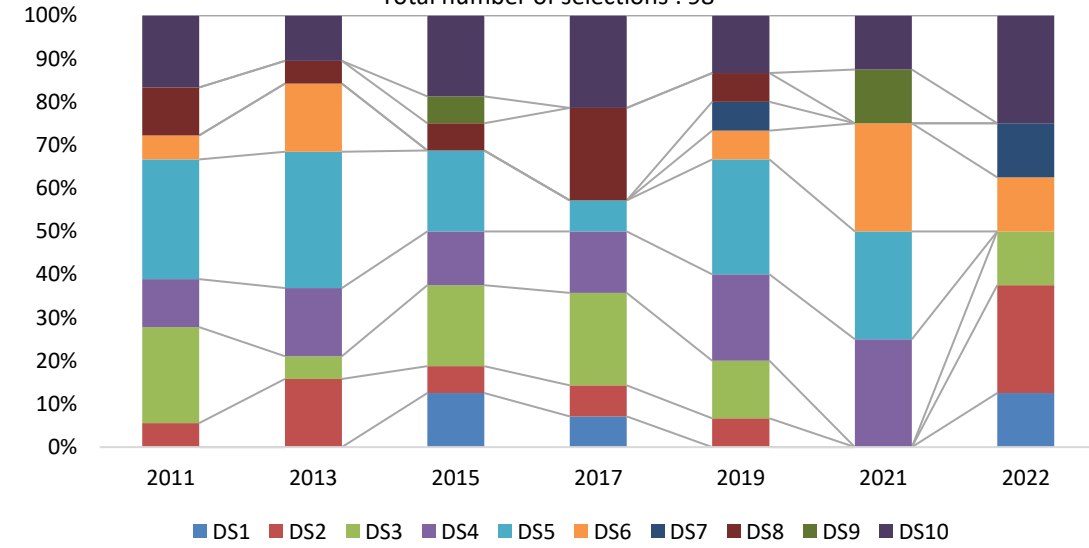
SCIENTIFIC DOMAINS : EVOLUTION 2011-2022

- DS1 : Mathematics
- DS2 : Physics
- DS3 : Marine, Earth, Planet sciences
- DS4 : Chemistry
- DS5 : Biology and Health
- DS6 : Humanities
- DS7 : Social sciences
- DS8 : Engineering sciences
- DS9 : Information technology
- DS10 : Agronomy/Ecology

Percentage of applications filed by scientific domain each year compared to all applications filed in each scientific domain
 Total number of applications : 446

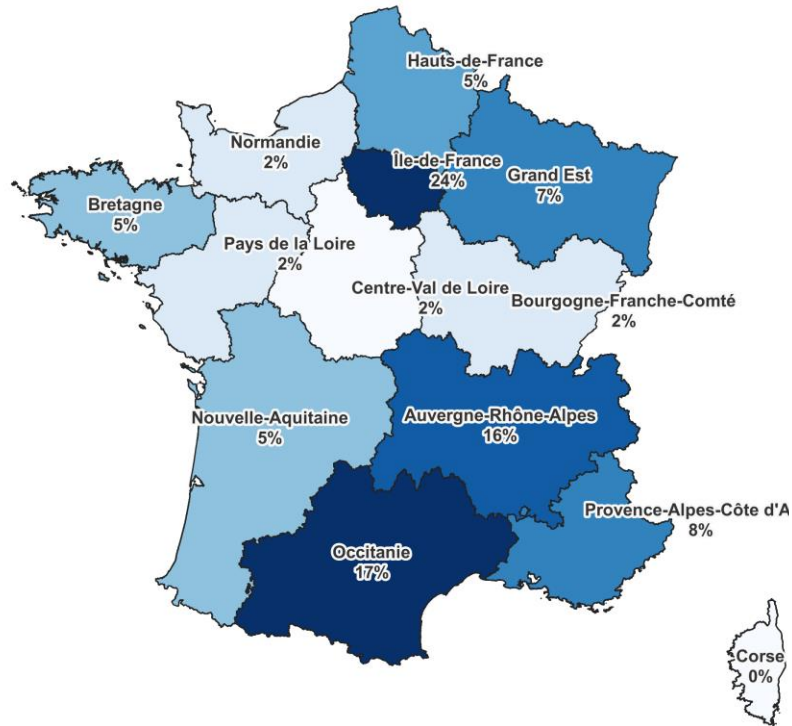


Percentage of selections filed by scientific domain each year compared to all selections filed in each scientific domain
 Total number of selections : 98



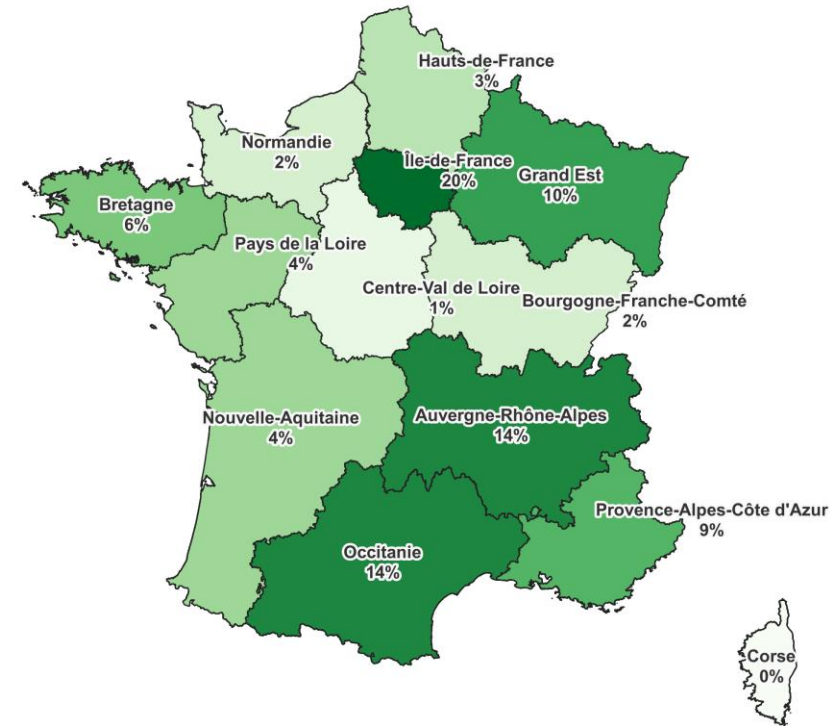
REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections 2011-2022



**Total number of applications
(all domains)**
446

Source: Analyse d'impact PHC PROTEA, KSTOITSEVA

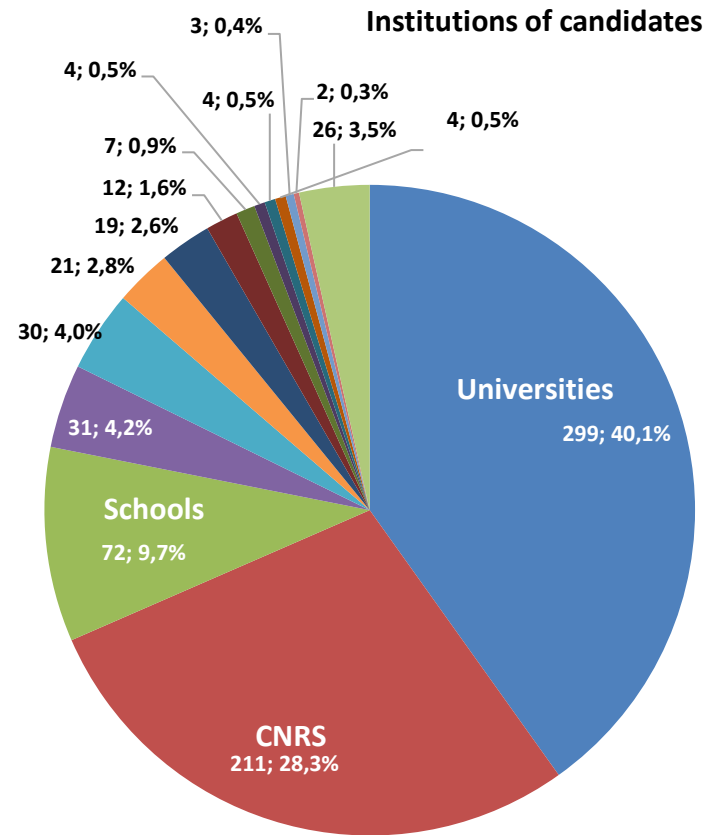


**Total number of selections
(all domains)**
98

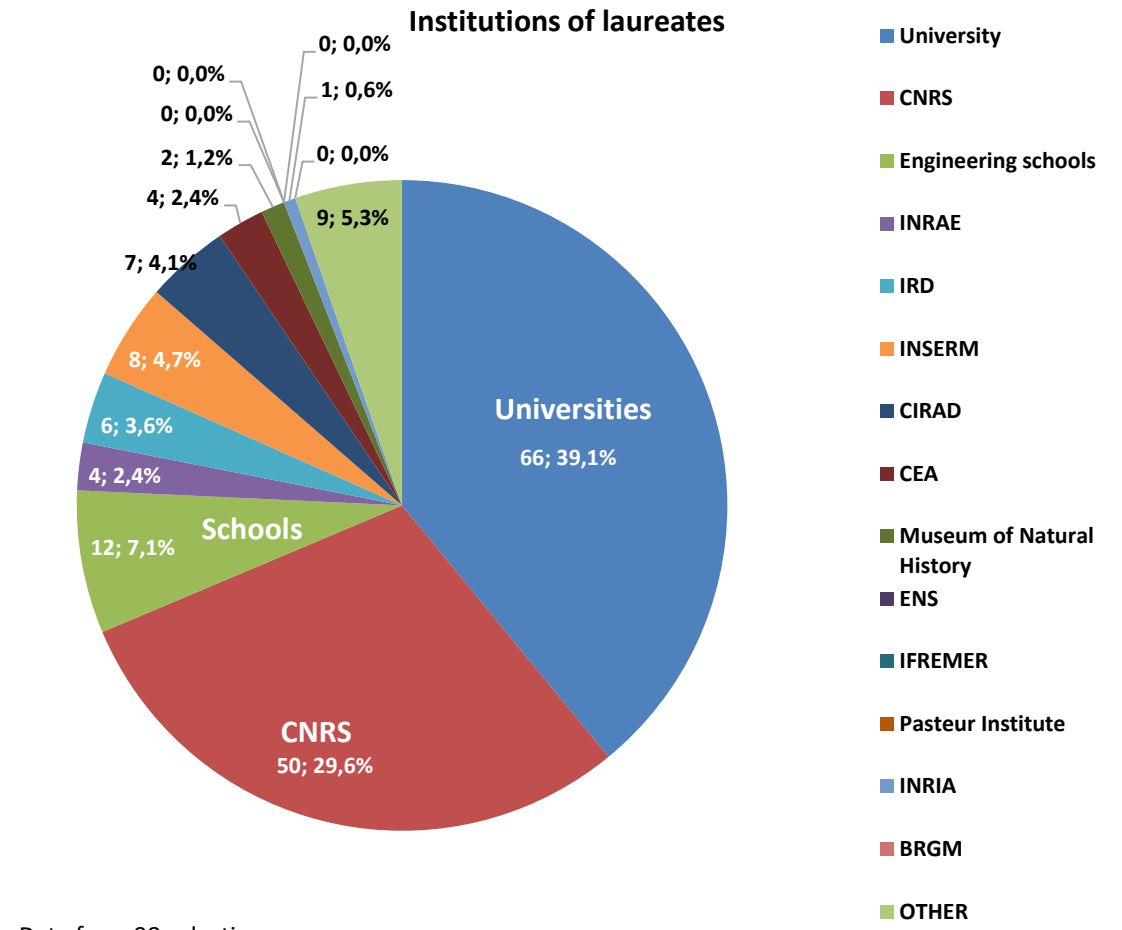
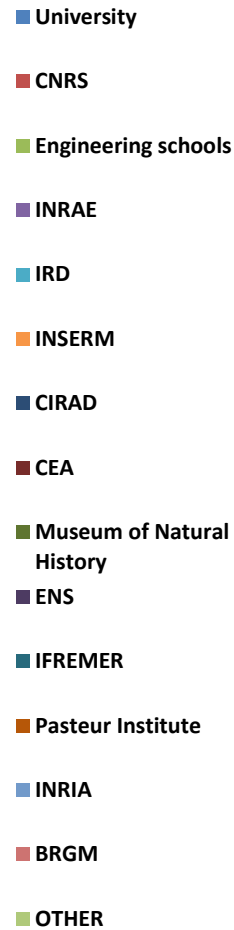
Source: Analyse d'impact PHC PROTEA, KSTOITSEVA

The region Ile de France is the main contributor both for applications and selections followed by Occitanie for applications and Occitanie and Auvergne-Rhône-Alpes for selections.
La Réunion, Guyane and Polynésie française represent 4,9% of applications. La Réunion represents 9% of selections

FRENCH PARTICIPATING INSTITUTIONS (2011-2022)



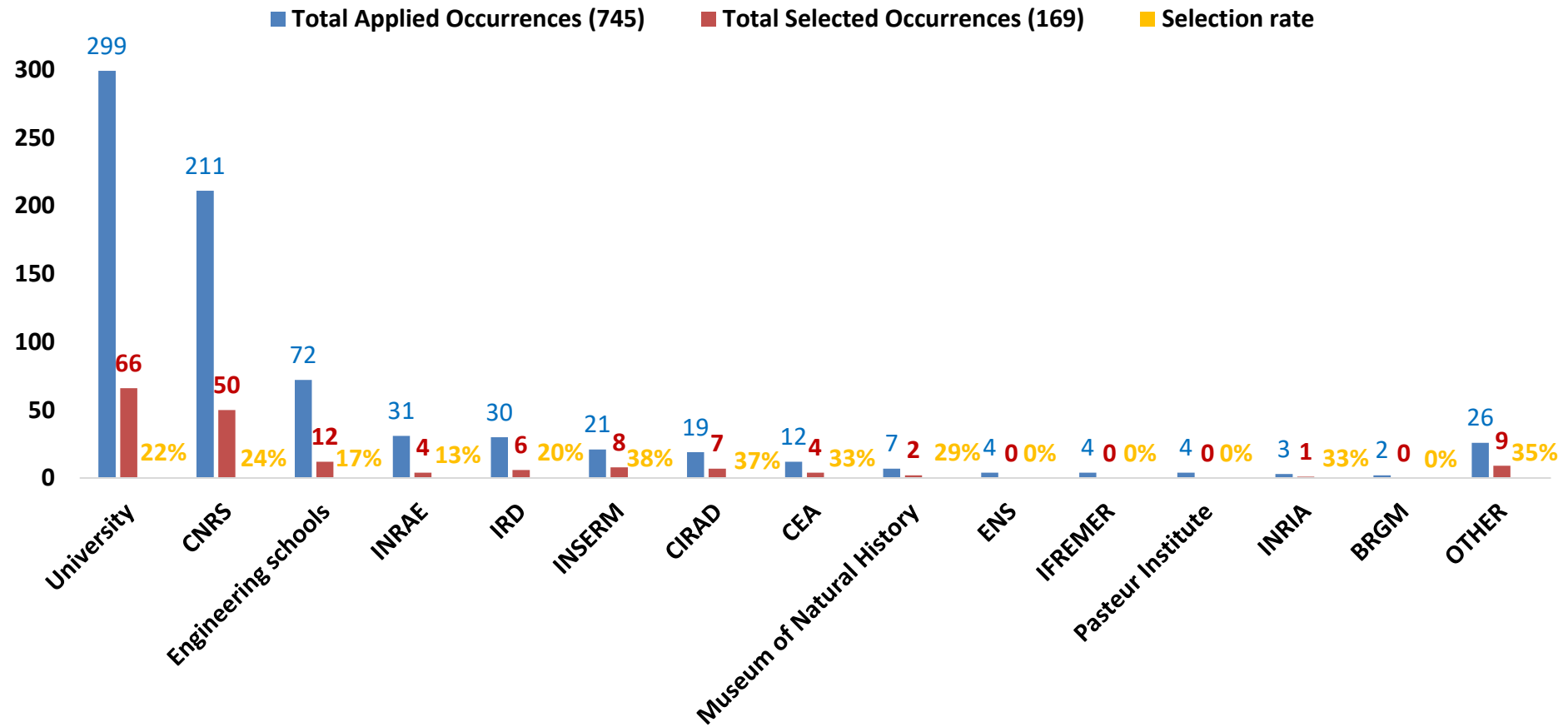
Data from 446 applications



Data from 98 selections

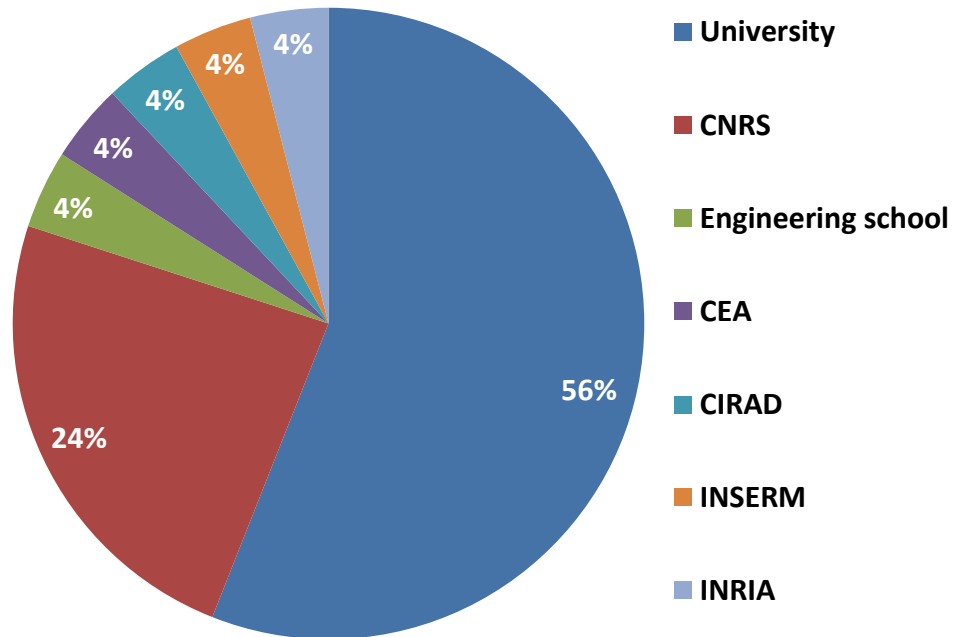
FRENCH PARTICIPATING INSTITUTIONS (2011-2022)

Number of occurrences for each institution



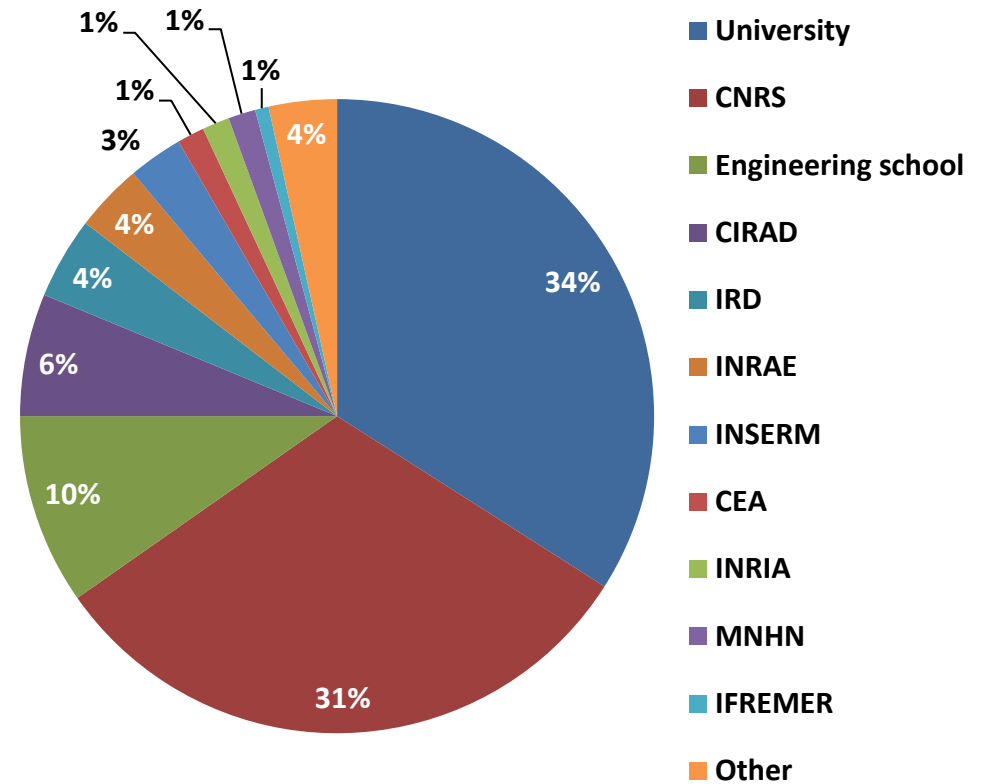
FRENCH PARTICIPATING INSTITUTIONS (2006-2022)

PI's employers (2017-2022)



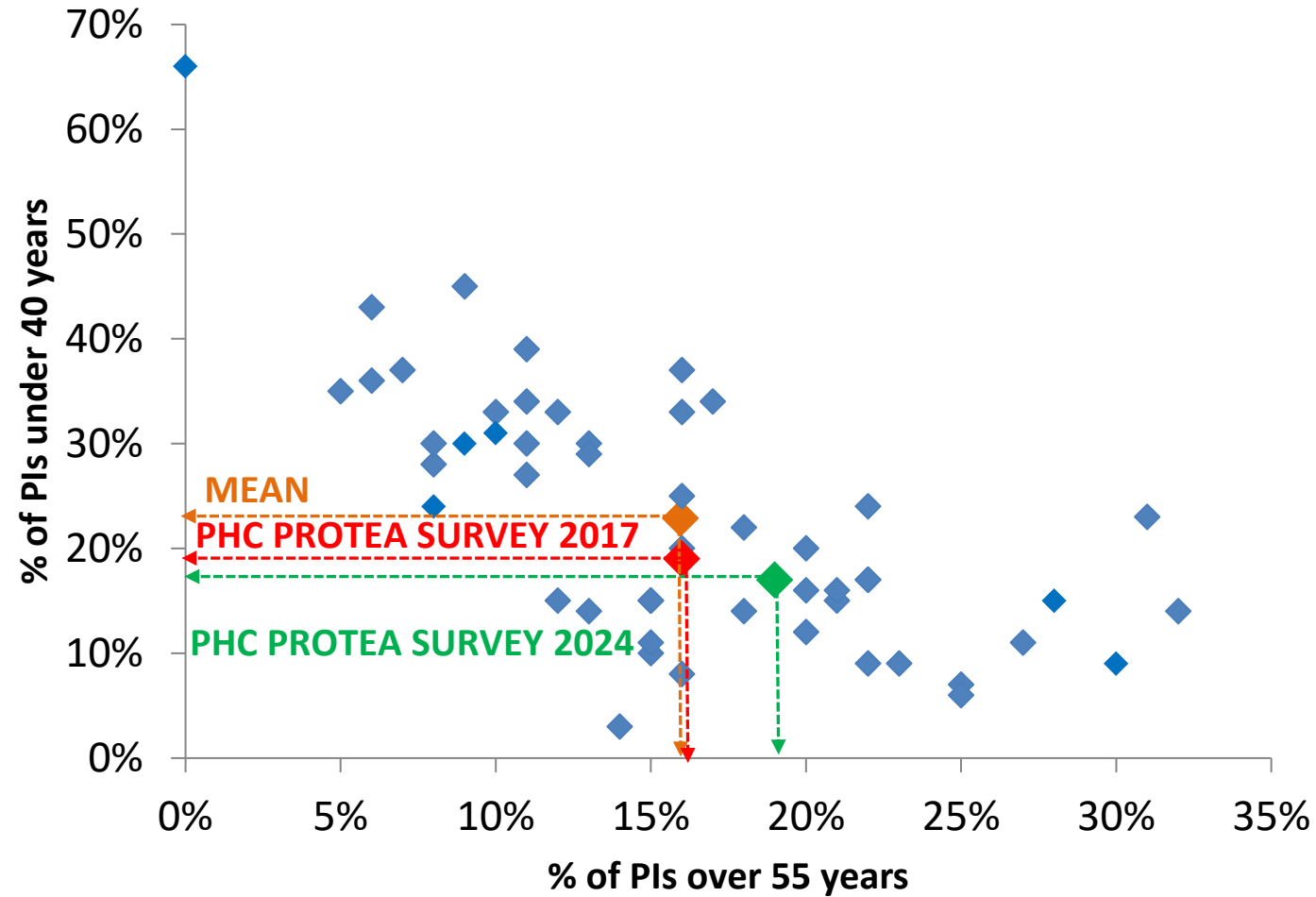
Data from 25 responses

Laboratories authorities (2006-2022)



Data from 62 responses

AGE OF FRENCH PRINCIPAL INVESTIGATORS (2006-2022)

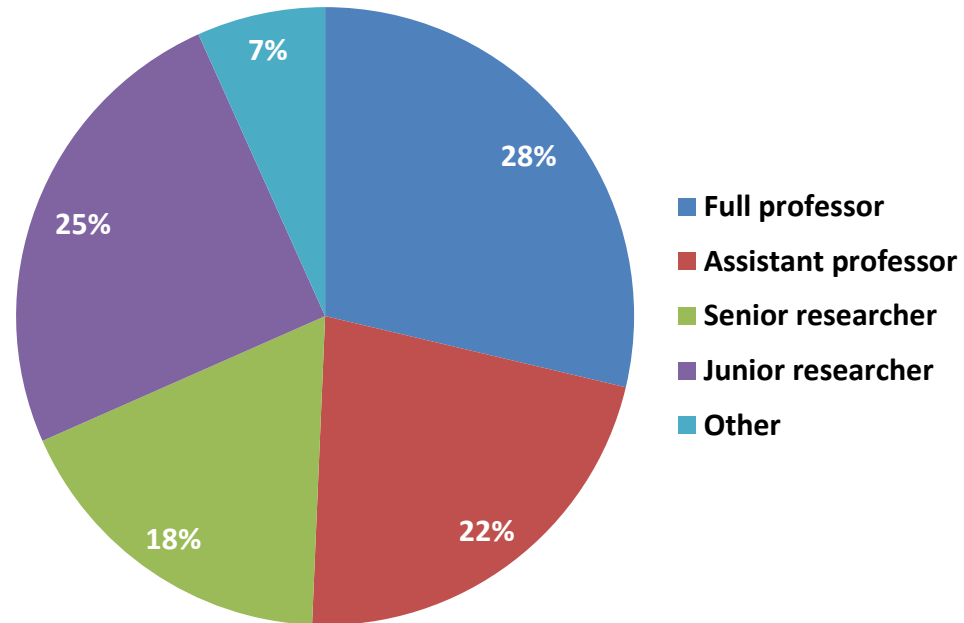


Survey 2017 : 26 programs
Survey 2024 : 53 programs

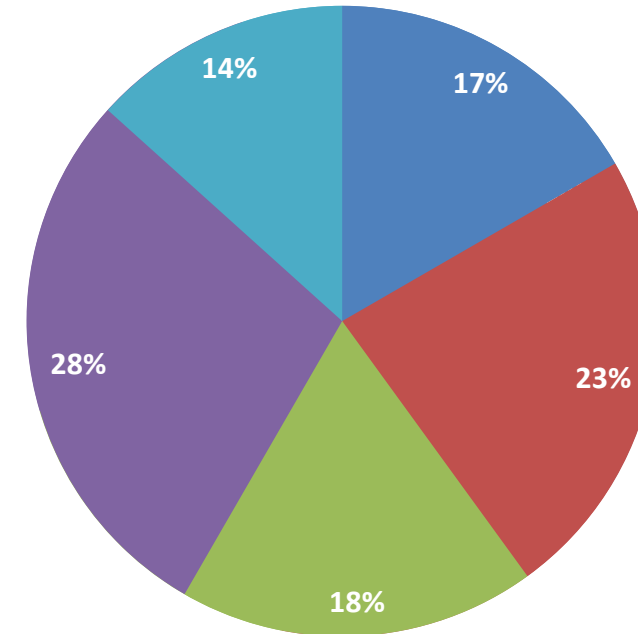
FRENCH PRINCIPAL INVESTIGATORS : STATUS (2011-2022)

(DATA FROM CAMPUS FRANCE)

Applicants professional status



Laureates professional status

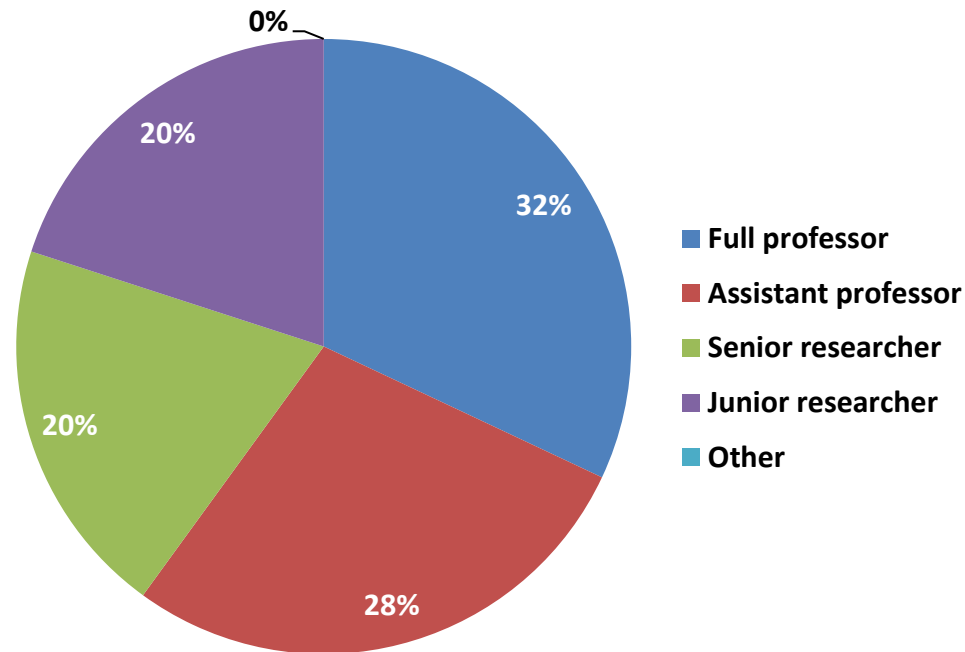


Data from 446 french applicants and 98 french laureates

FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS (2006-2020)

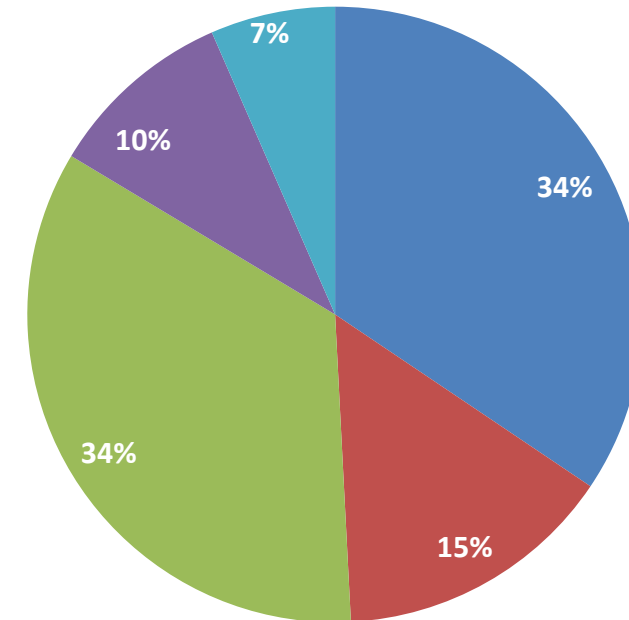
(DATA FROM THE SURVEYS)

**Previous professional status
2017-2022
(at the beginning of the project)**



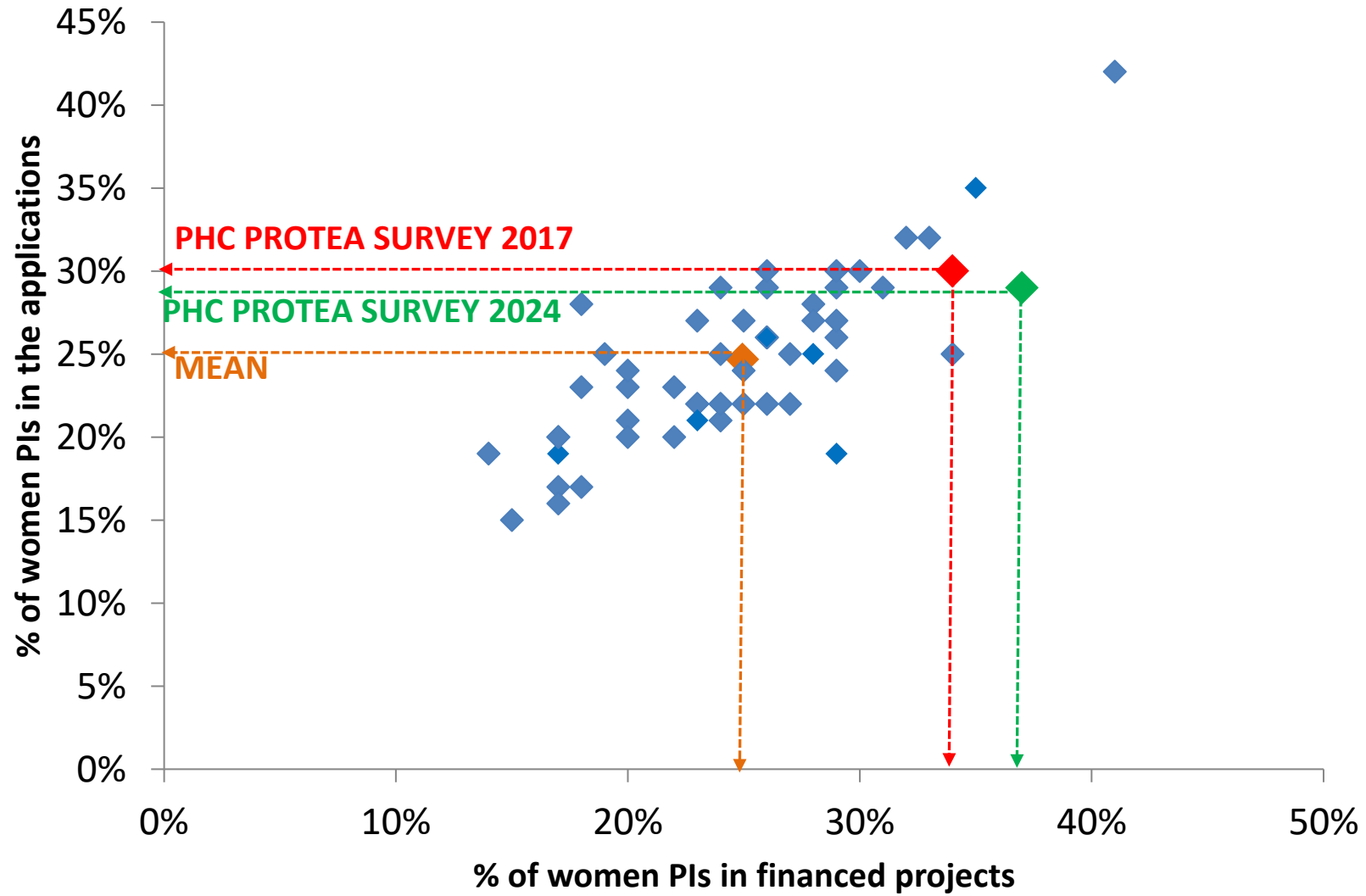
Data from 25 responses

**Current professional status
2006-2022**



Data from 62 responses

IMPLICATION OF WOMEN (FRANCE) (2006-2022)

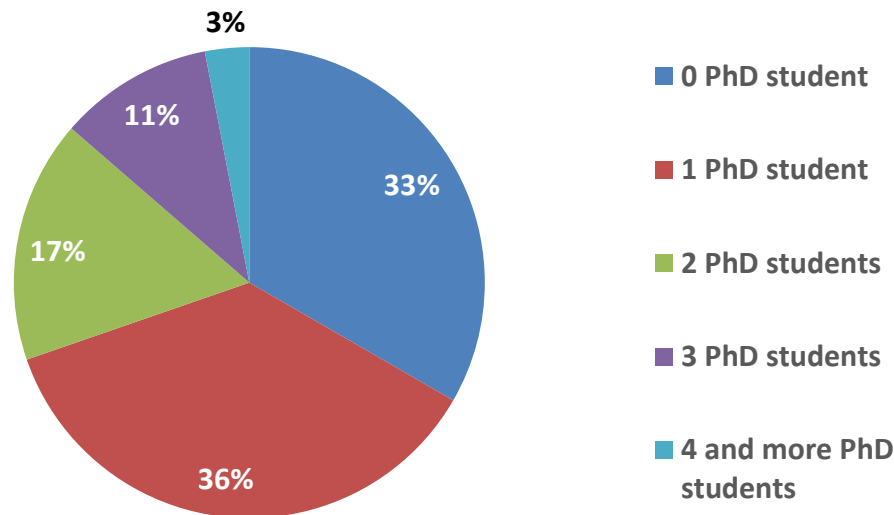


Survey 2017 : 26 programs

Survey 2024 : 53 programs

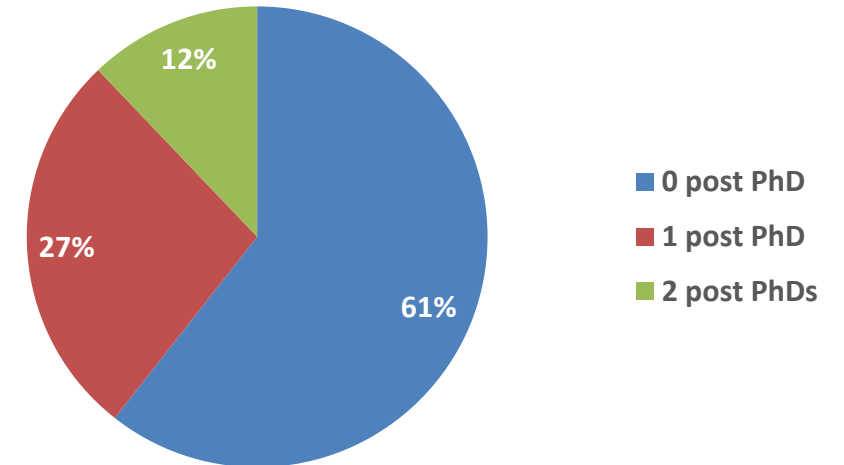
PARTICIPATION OF FRENCH YOUNG RESEARCHERS (2006-2022)

Number of French PhD students



67% of projects involve at least one French PhD student

Number of French post-doctoral researchers

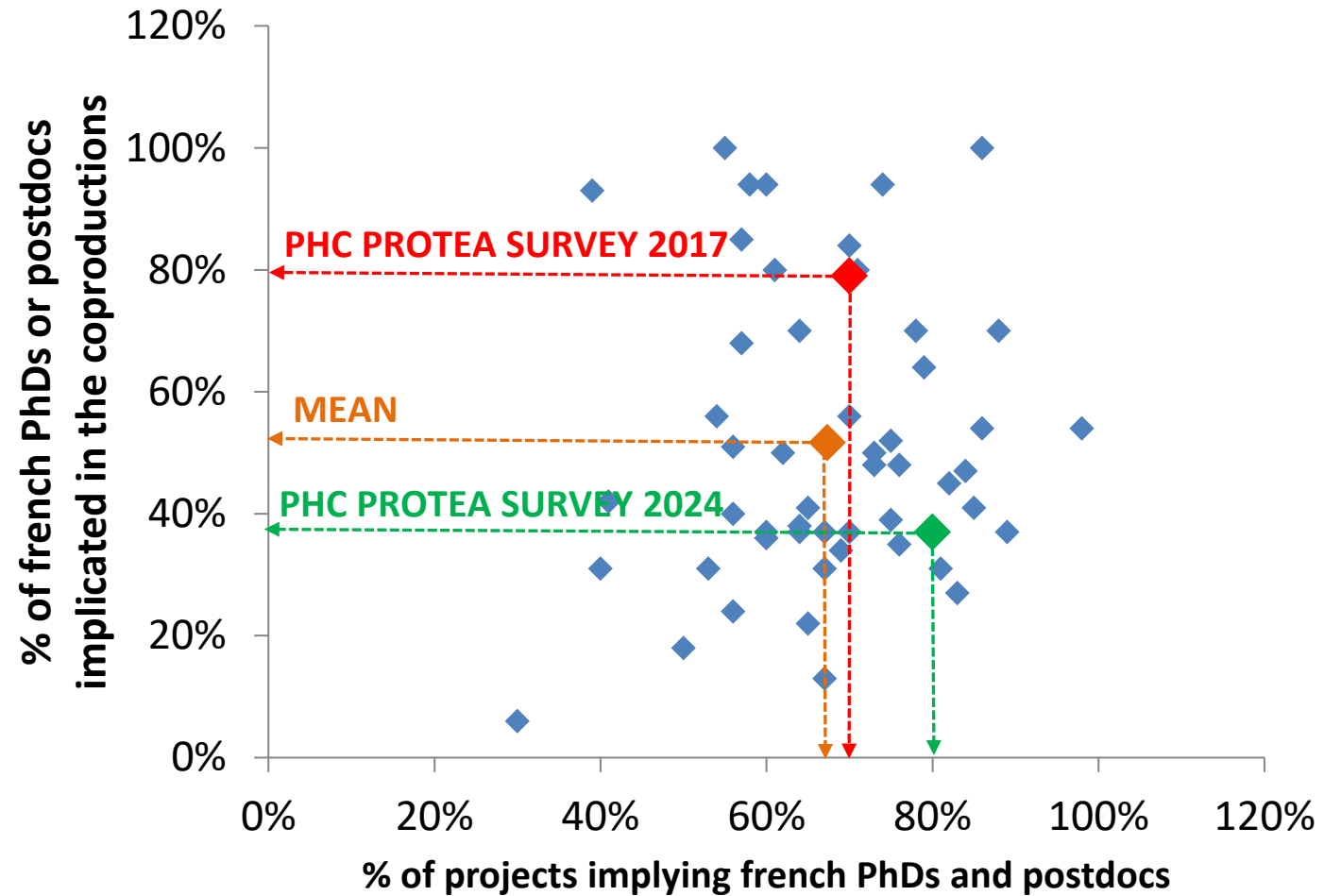


39% of projects involve at least one French post-doctoral researcher

Overall, 80% of projects involve at least one French young researcher

Data from 66 responses

IMPLICATION OF FRENCH YOUNG RESEARCHERS IN THE PUBLICATIONS (2006-2022)



Survey 2017 : 26 programs

Survey 2024 : 53 programs

PARTICIPATION OF SOUTH AFRICAN YOUNG RESEARCHERS (2017-2022)

Between 2017 and 2022, 21 South African PhDs have been involved in the projects

52% of projects involve at least one South African PhD student

Between 2017 and 2022, 11 South African postdocs have been involved in the projects

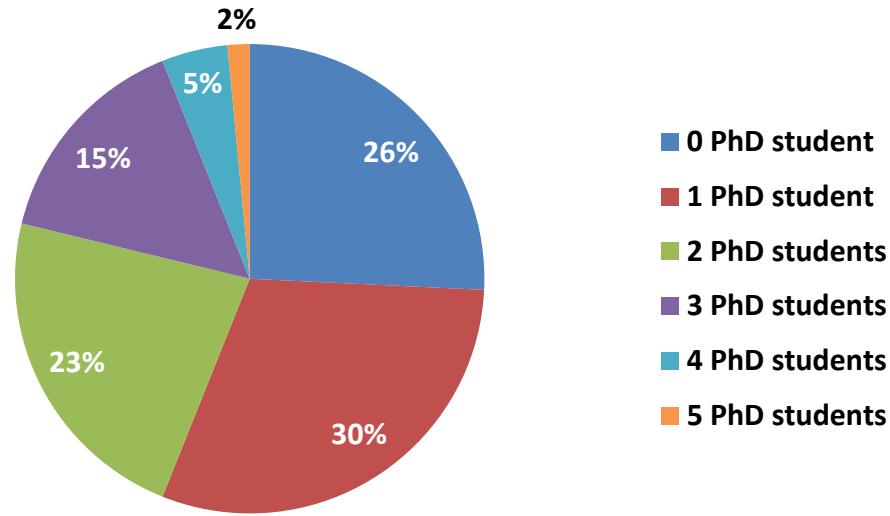
34% of projects involve at least one South African post-doctoral researcher

Overall, 76% of projects involve at least one South African young researcher

Data from the survey 2024 (29 responses)

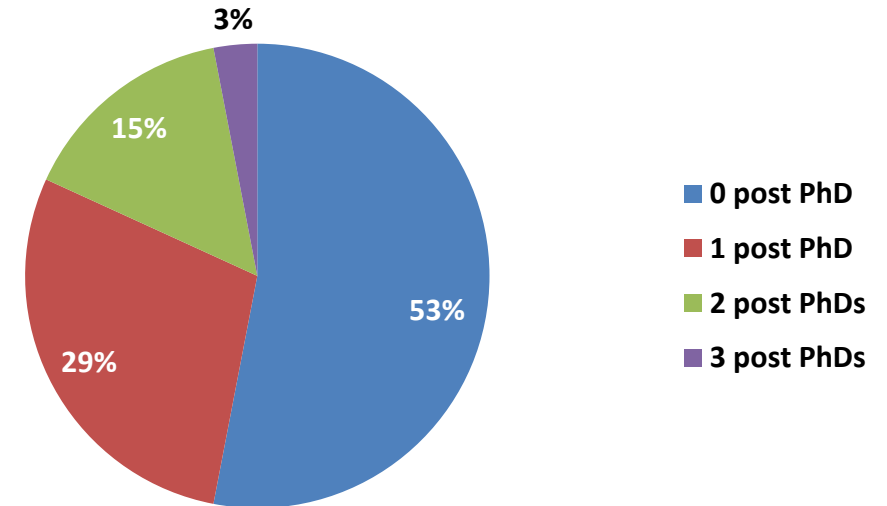
PARTICIPATION OF BOTH FRENCH AND SOUTH AFRICAN YOUNG RESEARCHERS

Number of PhD students



74% of projects involve at least one PhD student

Number of post-doctoral researchers



47% of projects involve at least one post-doctoral researcher

Overall, 88% of projects involve at least one French or South African young researcher

Data from 37 responses (Survey 2017) and 29 responses (Survey 2024)



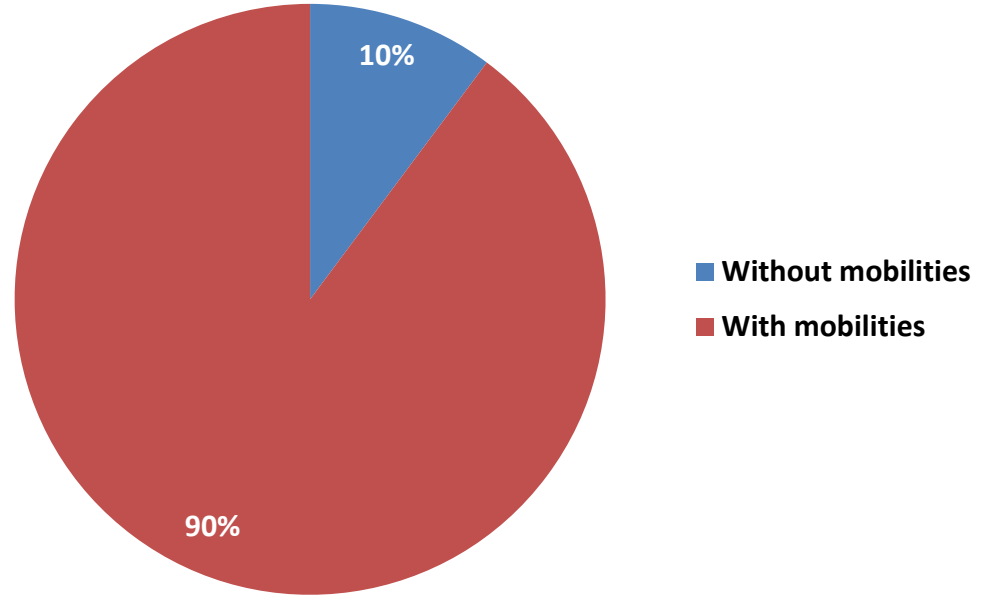
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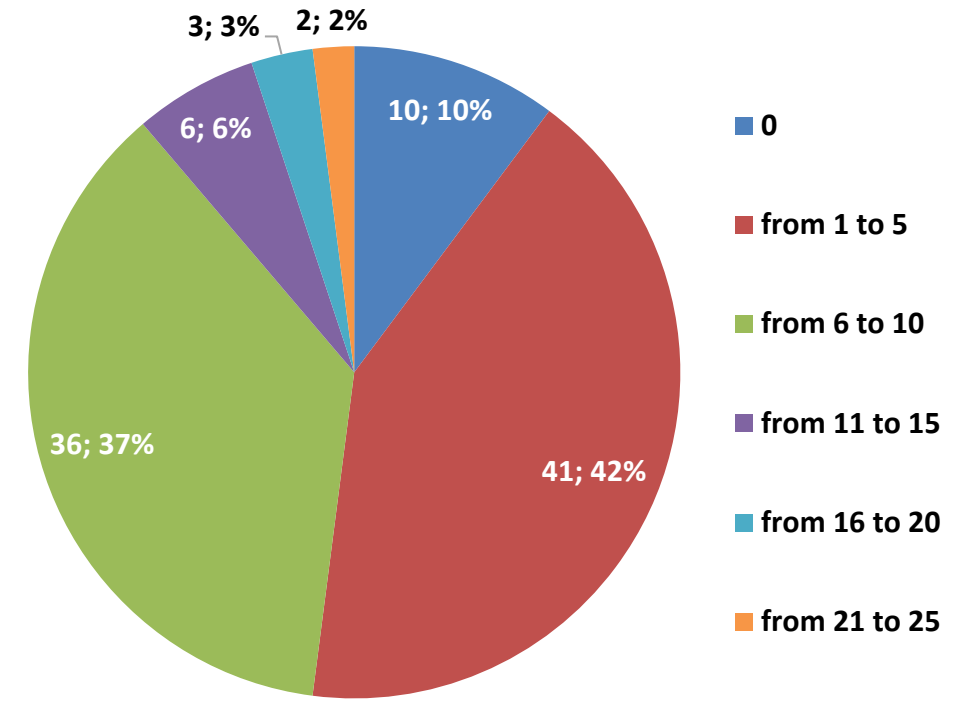
MOBILITY (2011-2022)

MOBILITIES (2011-2022)

Projects with/without mobilities



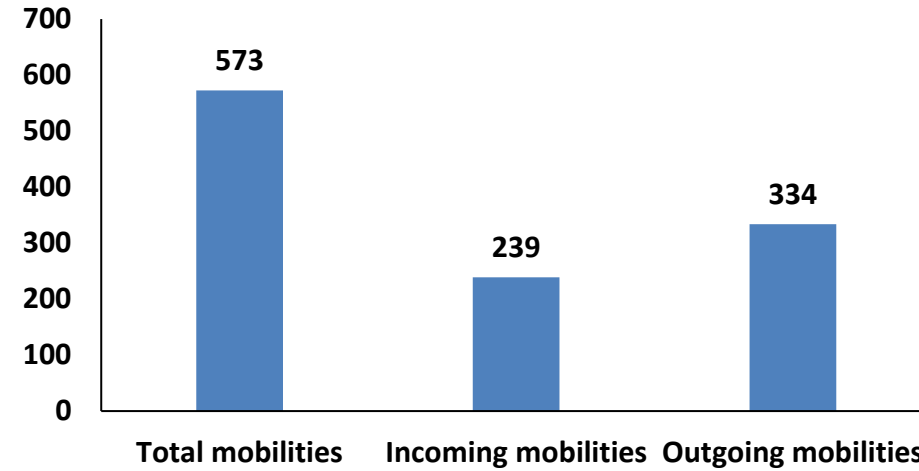
Number of mobilities per project



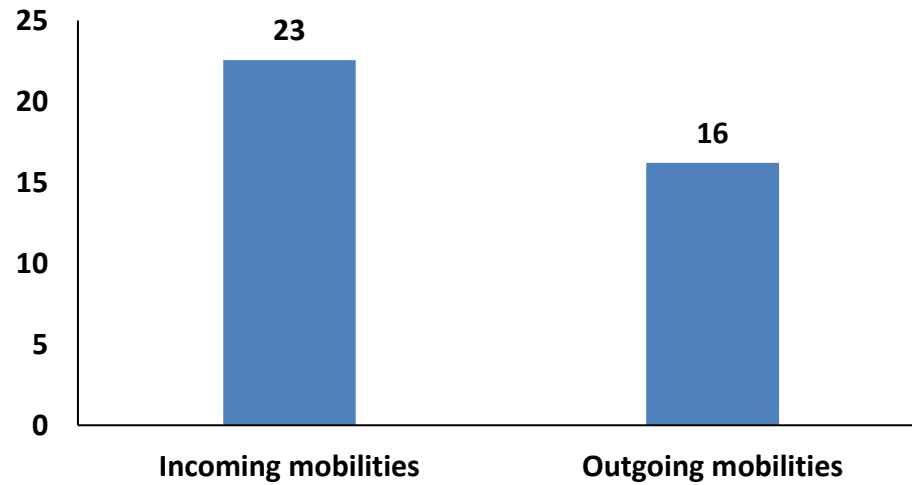
Data from 98 funded projects

MOBILITIES (2011-2022)

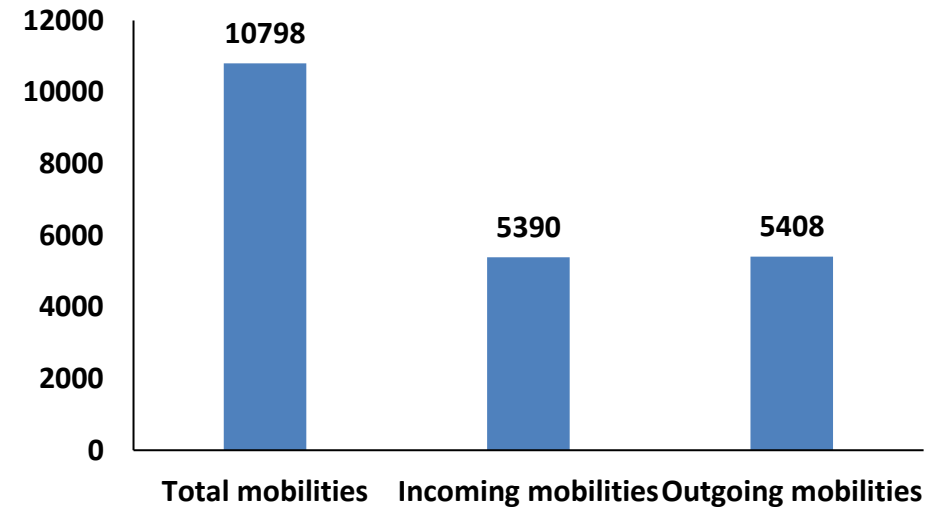
Number of mobilities



Average mobility duration in days

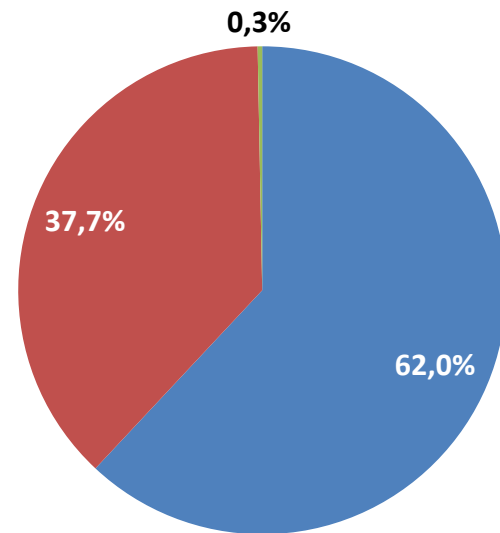


Total duration of mobilities in days

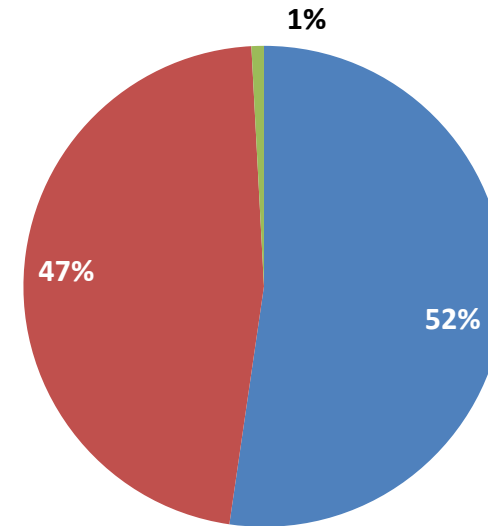


MOBILITY : DURATION (2011-2022)

France → South Africa



South Africa → France

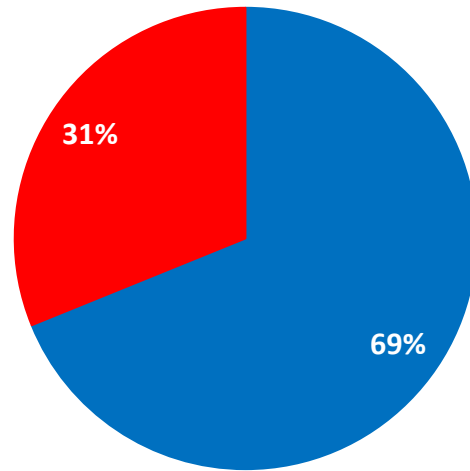


- < 15 days
- between 15 days and 3 months
- > 3 months

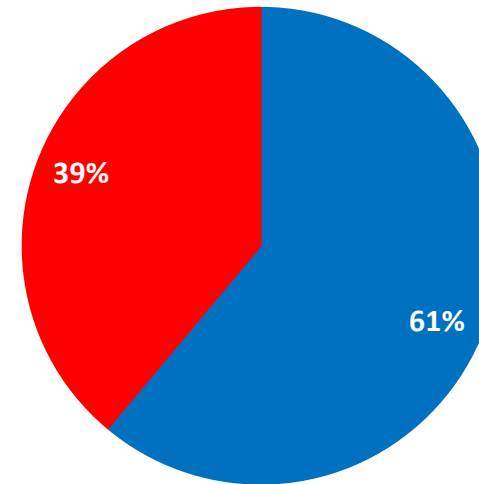
Data from 334 outgoing mobilities and 239 incoming mobilities

MOBILITY : GENDER DISTRIBUTION (2011-2022)

France → South Africa



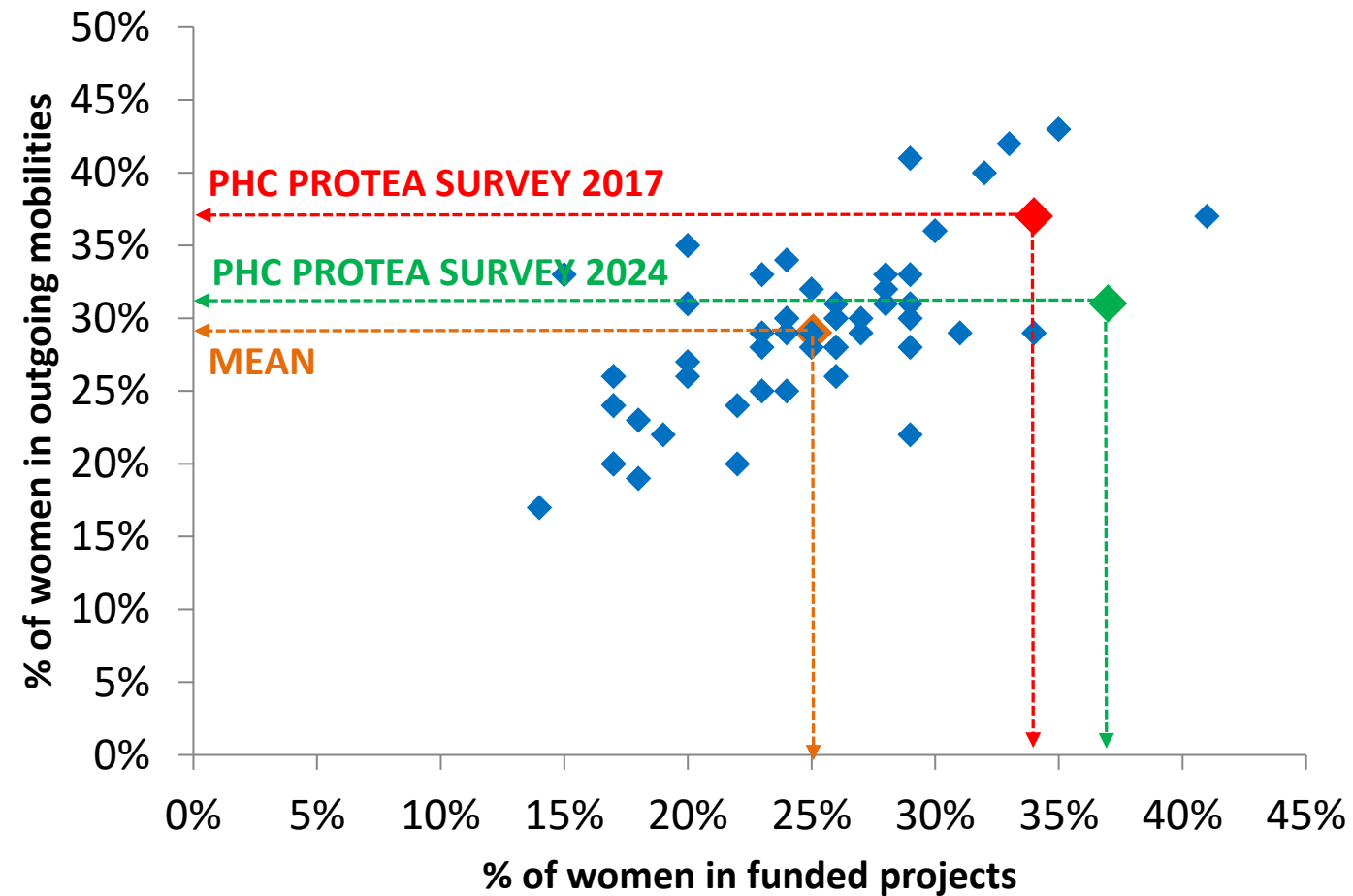
South Africa → France



■ Men ■ Women

Data from 334 outgoing mobilities and 239 incoming mobilities

WOMEN MOBILITY FRANCE – SOUTH AFRICA (2011-2022)



Data from 98 funded projects and 239 mobilities

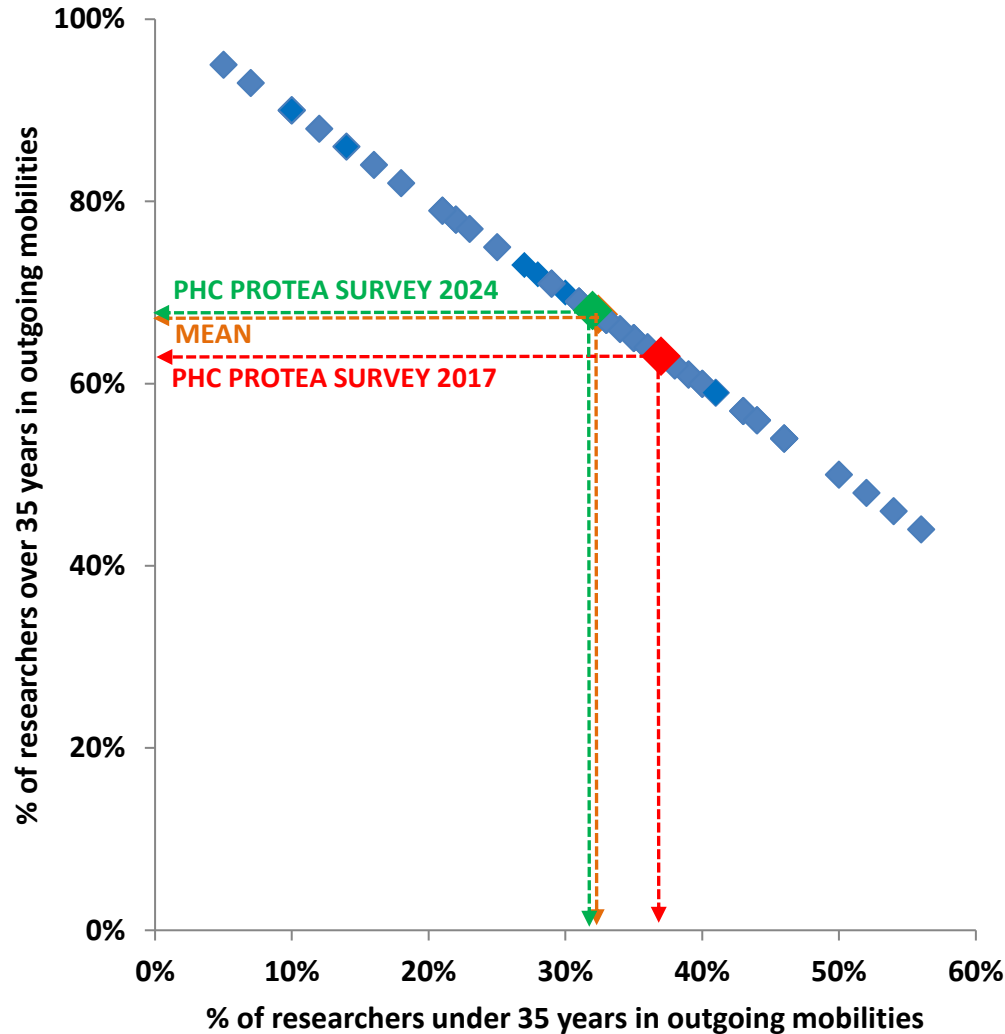
Survey 2017 : 26 programs

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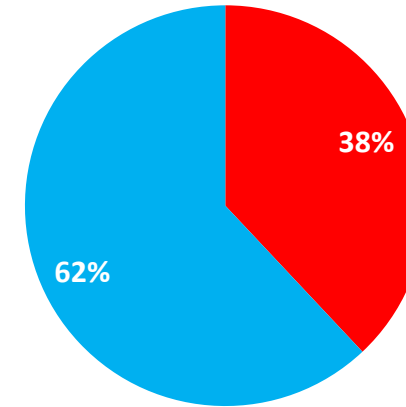
YOUNG RESEARCHERS MOBILITY (2011-2022)

France → South Africa

South Africa → France



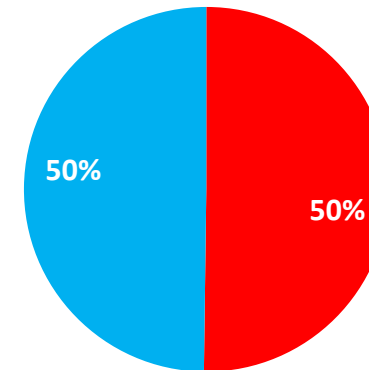
SURVEY 2017



Data from 157 mobilities

- % of researchers under 35 years in incoming mobilities
- % of researchers over 35 years in incoming mobilities

SURVEY 2024



Data from 239 mobilities

- % of researchers under 35 years in incoming mobilities
- % of researchers over 35 years in incoming mobilities

Survey 2017 : 26 programs

Survey 2024 : 53 programs



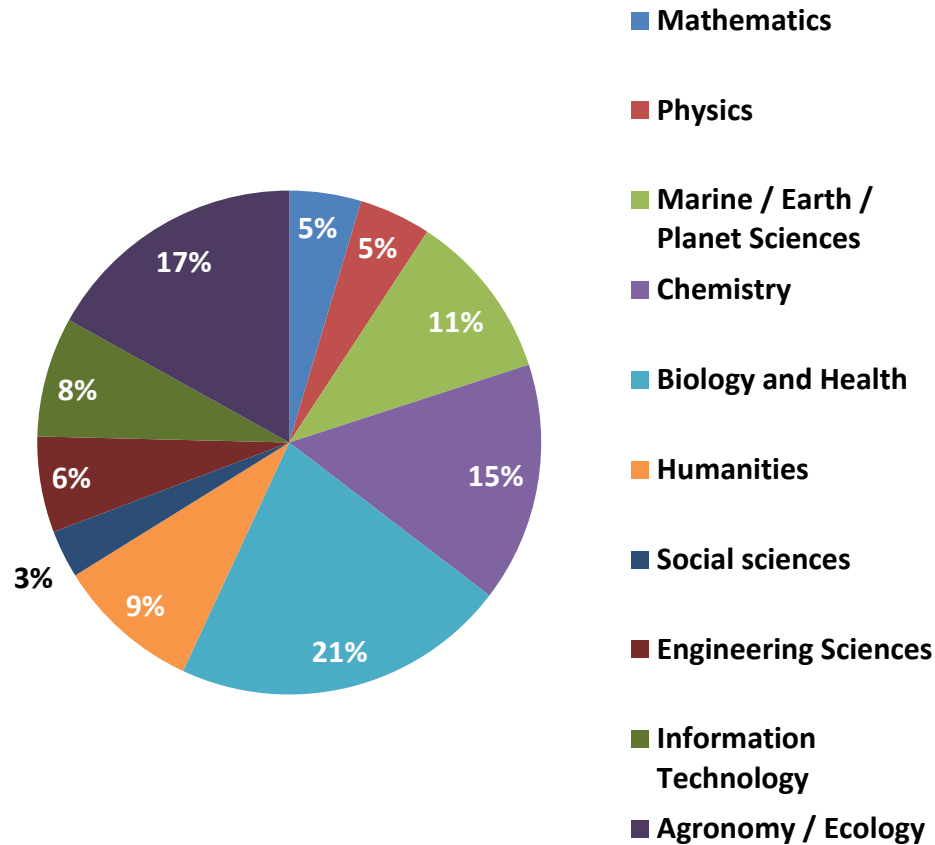
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**SCIENTIFIC
PRODUCTION
(2006-2022)**

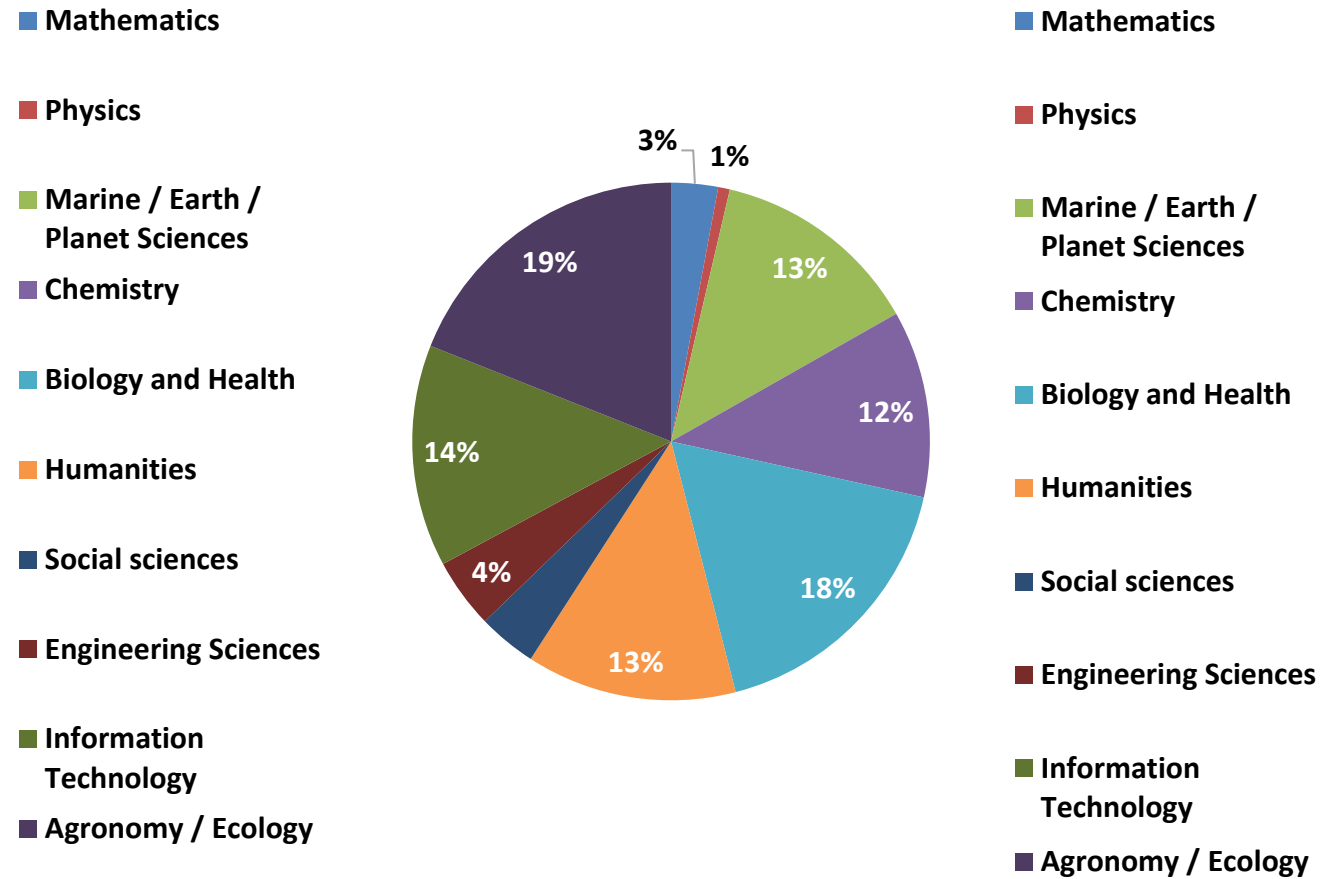
SCIENTIFIC COPRODUCTION 2006-2022

Responses to the survey 2006-2022



65 responses

Coproductions 2006-2022



Analysis of 137 coproductions

SCIENTIFIC PRODUCTION (2006-2022)

ENQUETES 2017+2024

	Number of funded projects 2017 survey	Number of funded projects 2017+2024 surveys	Average annual number of scientific coproductions per project 2017 survey	Average annual number of scientific coproductions per project 2017+2024 surveys
Mathematics	1	3	0,0	0,7
Physics	2	3	0,0	0,2
Marine/Earth/Planet Sciences	5	7	0,9	1,3
Chemistry	4	10	1,2	0,8
Biology and Health	8	14	1,7	0,9
Humanities	3	6	1,2	1,5
Social Sciences	0	2	0,0	1,3
Engineering Sciences	3	4	1,5	0,8
Information Technology	2	5	0,0	1,9
Agronomy / Ecology	9	11	0,5	1,2
TOTAL/MOYENNE	37	65	1,0	1,1

Overall average annual number of scientific coproductions per project 2017 : 1,0 vs 0,96 mean
Overall average annual number of scientific coproductions per project 2017+2024 : 1,1

Enquêtes 2017+2024

66% of funded projects led to at least 1 scientific coproduction (vs 70% survey 2017)

78% of scientific coproductions involve at least 1 young researcher (vs 58% survey 2017)

The average annual rate of publication of young researchers implicated in the projects is **0,38** (not available survey 2017)

The average annual rate of young researchers implicated in the scientific coproductions is **0,91** (not available survey 2017)

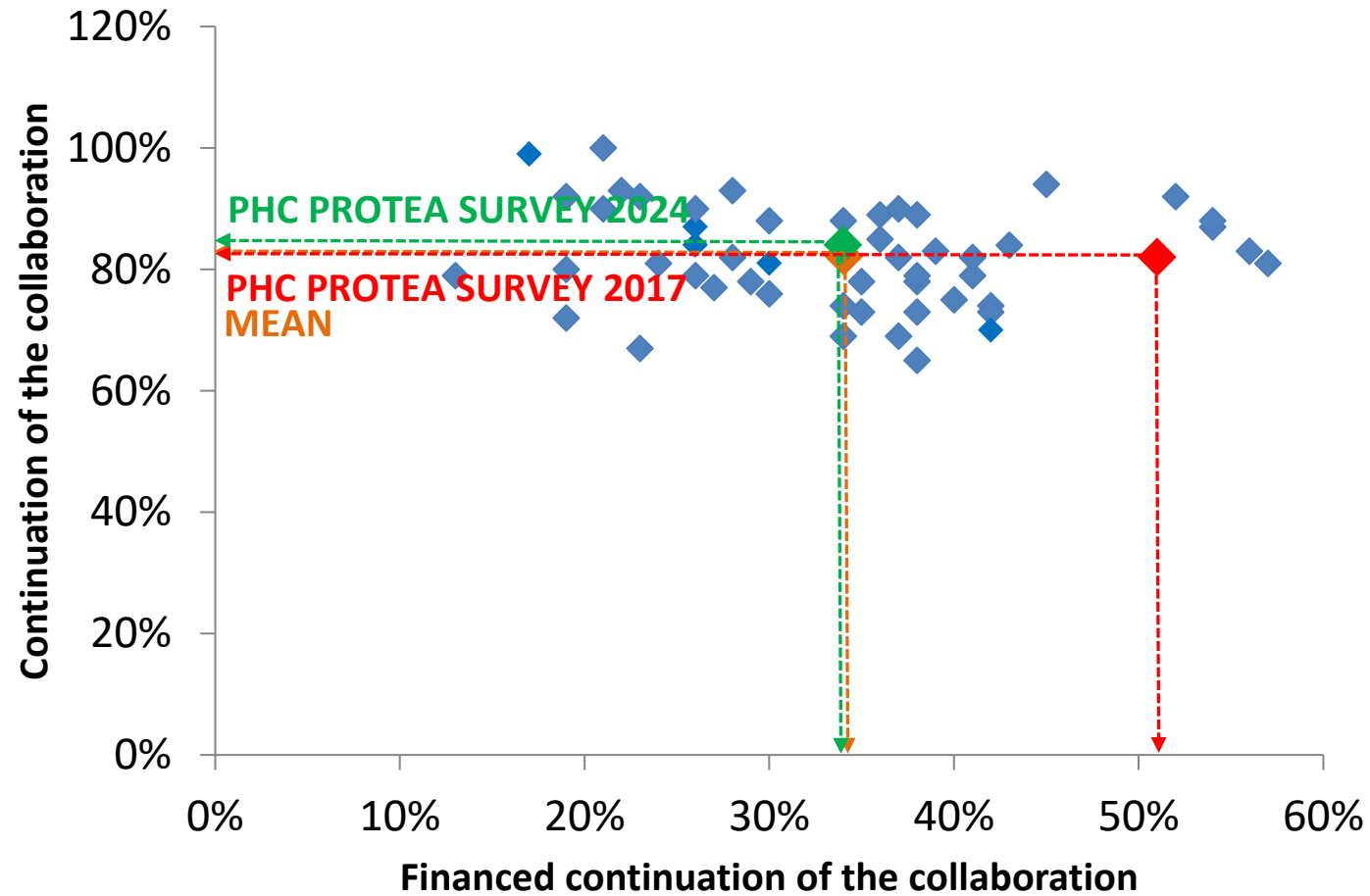


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WHAT HAPPENS AFTER A PROTEA PROJECT ?

CONTINUATION OF THE COOPERATION (2006-2022)



Data from 58 responses (continuation) and 53 responses (financing)

Survey 2017 : 26 programs

Survey 2024 : 53 programs

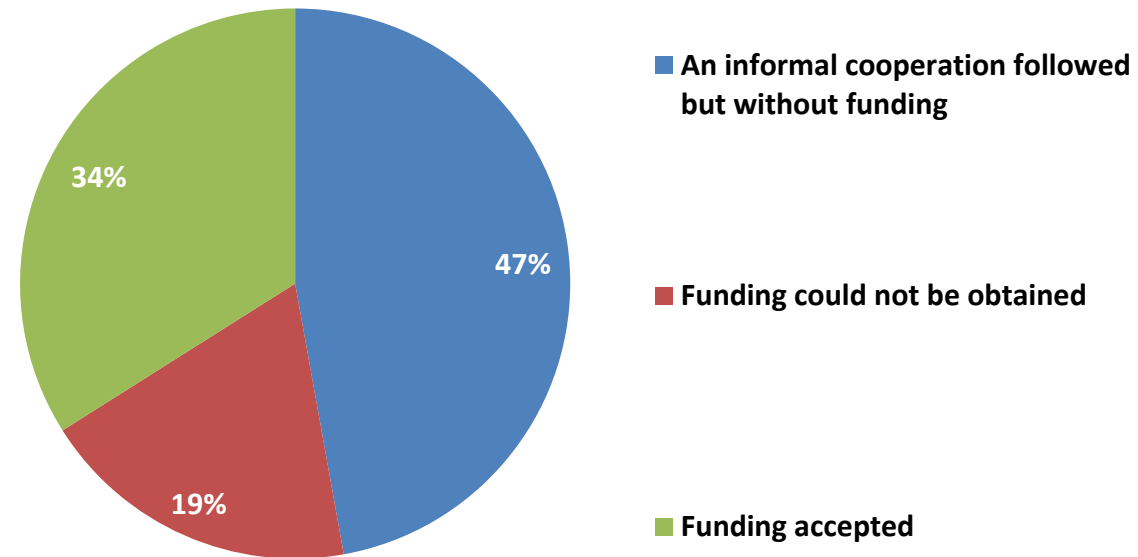
CONTINUATION OF THE COOPERATION

84% of the cooperations continued after the PROTEA project

Which activities?	
Cooperative research	76%
Scientific co-productions	68%
Researchers mobilities	58%
PhD mobilities	44%
Joint participation to conferences	36%
Co-organisation of scientific events	34%
Joint participation to PhD thesis	20%
Other	16%

CONTINUATION OF THE COOPERATION

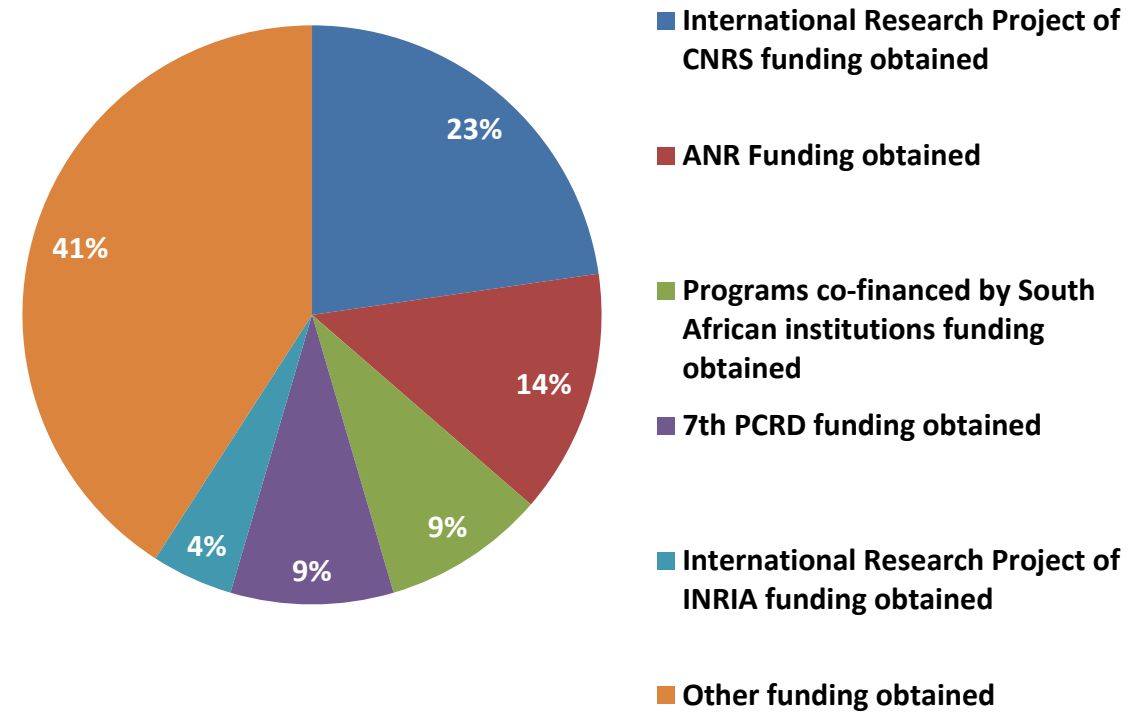
34% of cooperations have been funded following the project



Data from 54 responses

CONTINUATION OF THE COOPERATION

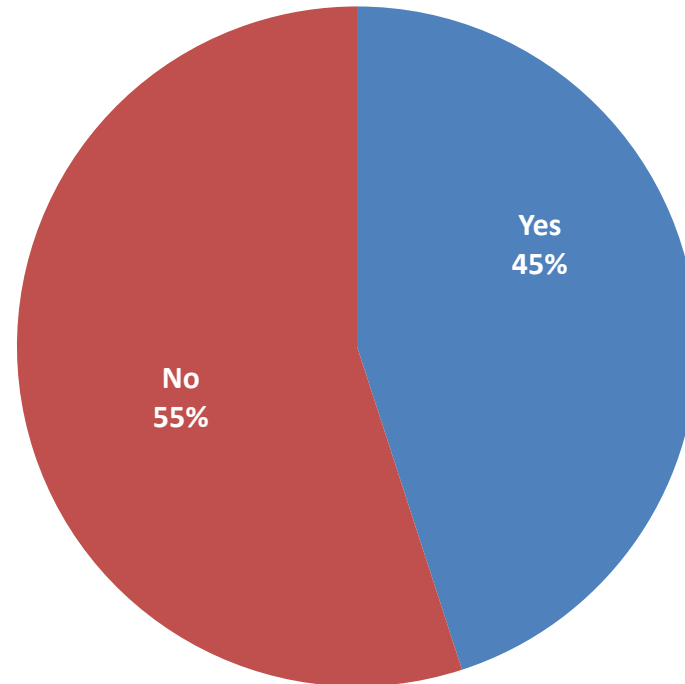
What kind of funded collaborations after the PHC PROTEA project ?



Data from 28 responses

CONTINUATION OF THE COOPERATION

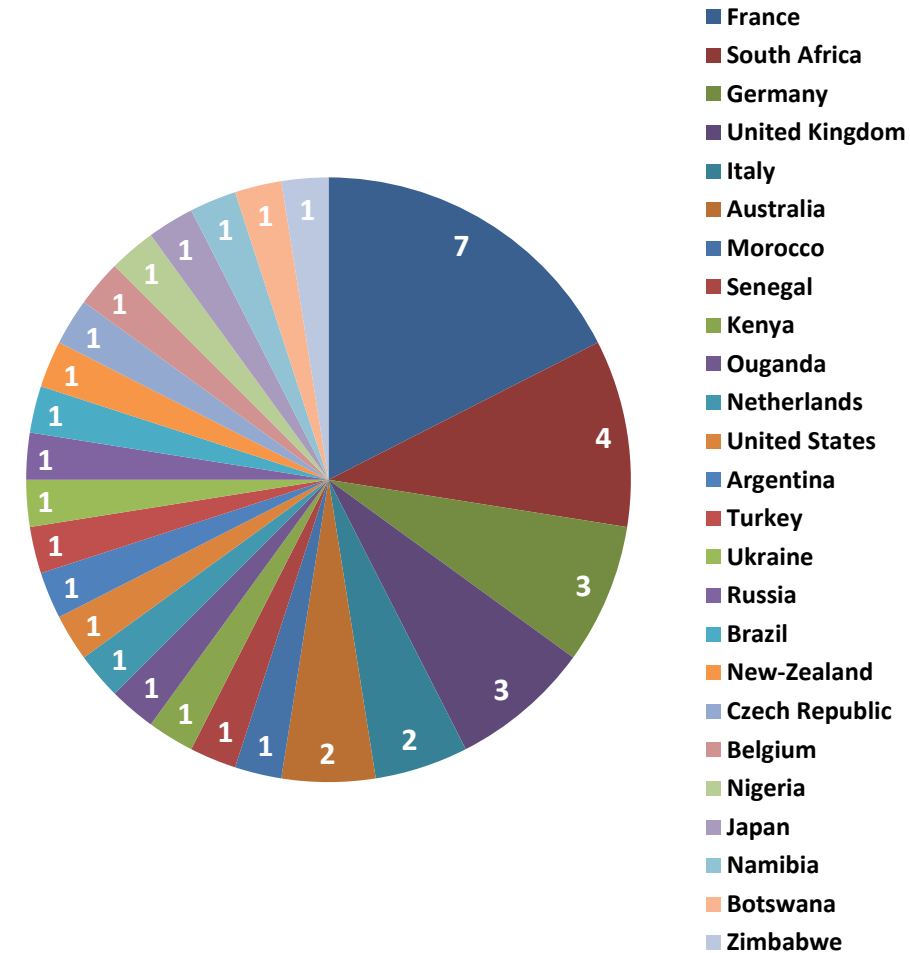
Has the French-South-African cooperation involved new partners?



Data from 40 responses

CONTINUATION OF THE COOPERATION

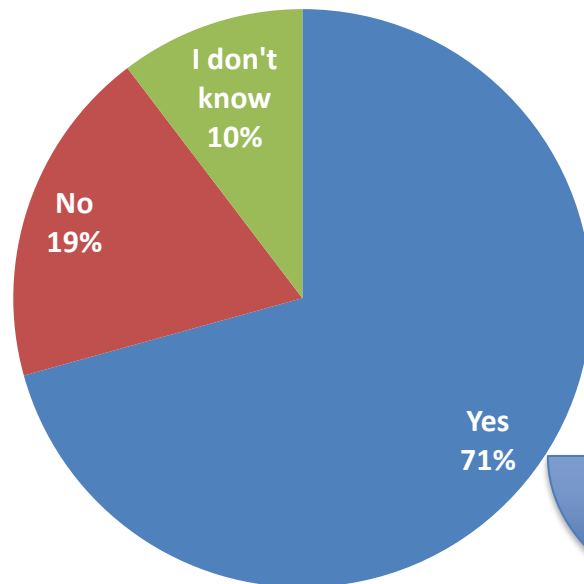
**If the French-South-African cooperation involves new partners,
list with which countries**



Data from 17 responses

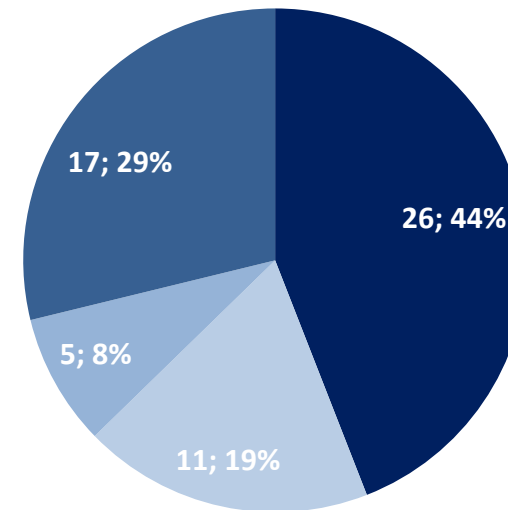
IMPACT ON YOUNG RESEARCHERS' CAREER

Was young researchers' career impacted by the PHC PROTEA program ?



Data from 58 responses

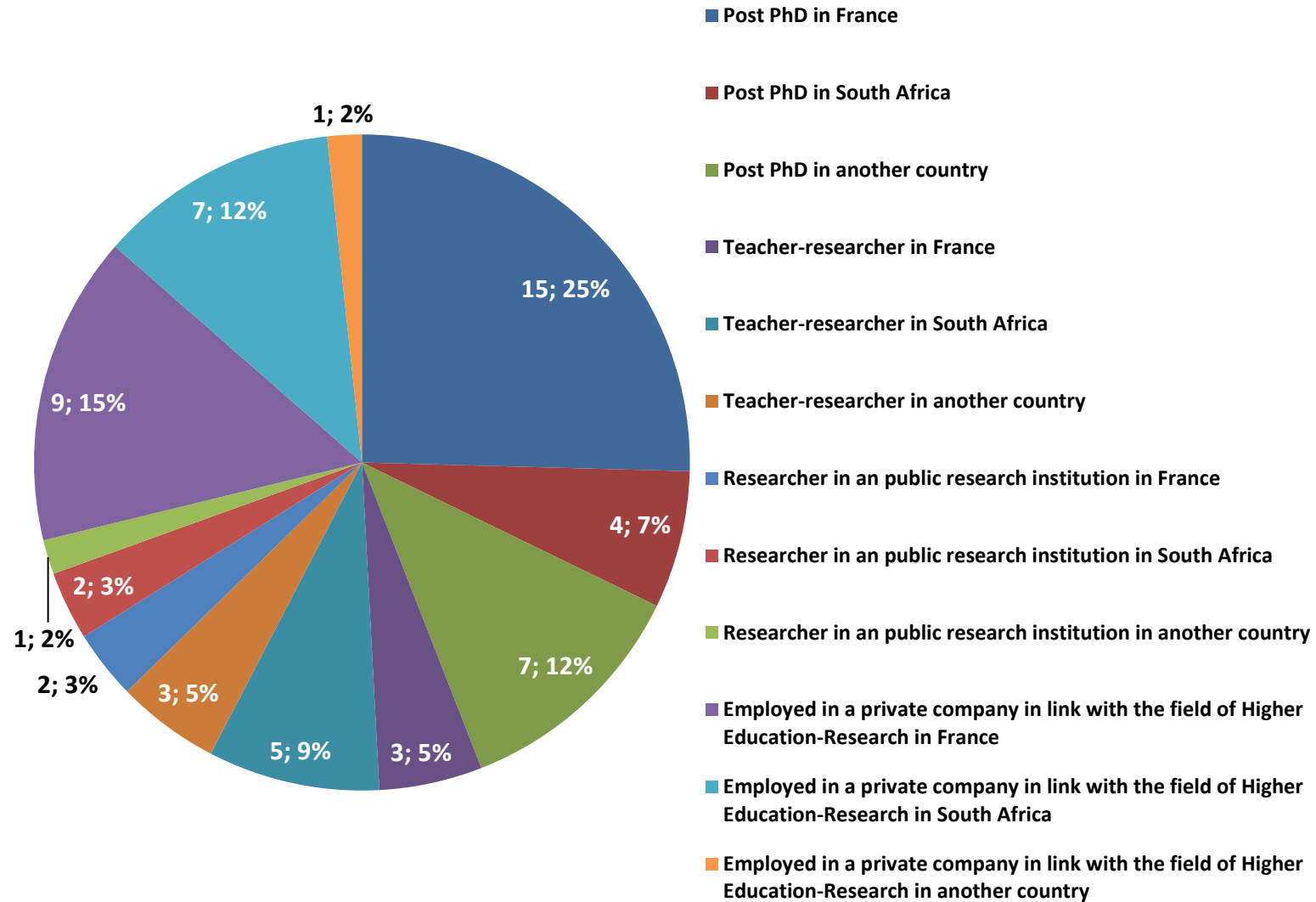
Type of impacts



- Postdoc/Teacher/Researcher (temporary position)
- Teacher/Researcher (permanent position)
- Researcher in a public research institution (permanent position)
- Employed in a private company in link with the field of Higher Education - Research

Data from 34 positive responses for a total of 59 young researchers

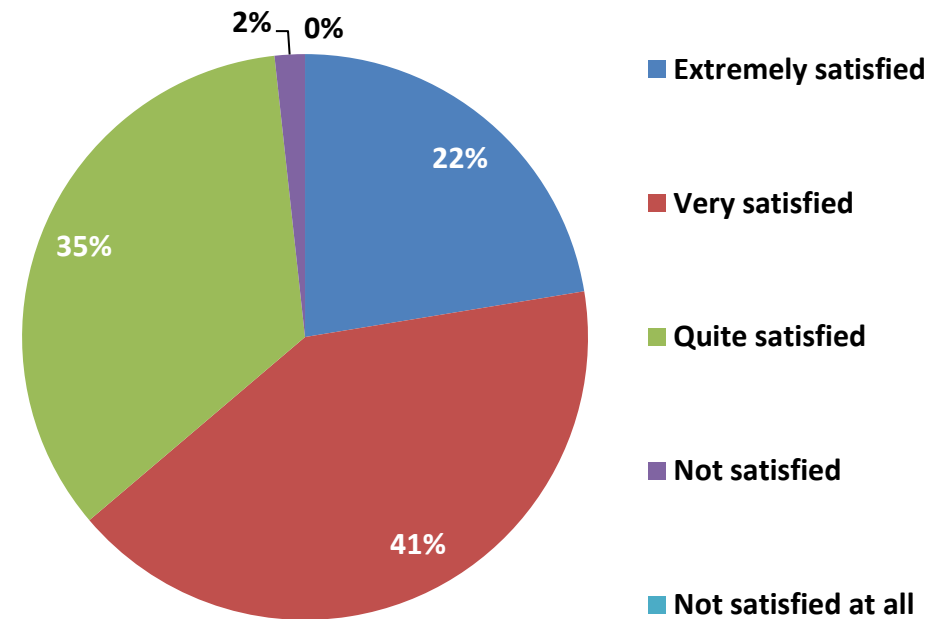
IMPACT ON YOUNG RESEARCHERS' CAREER



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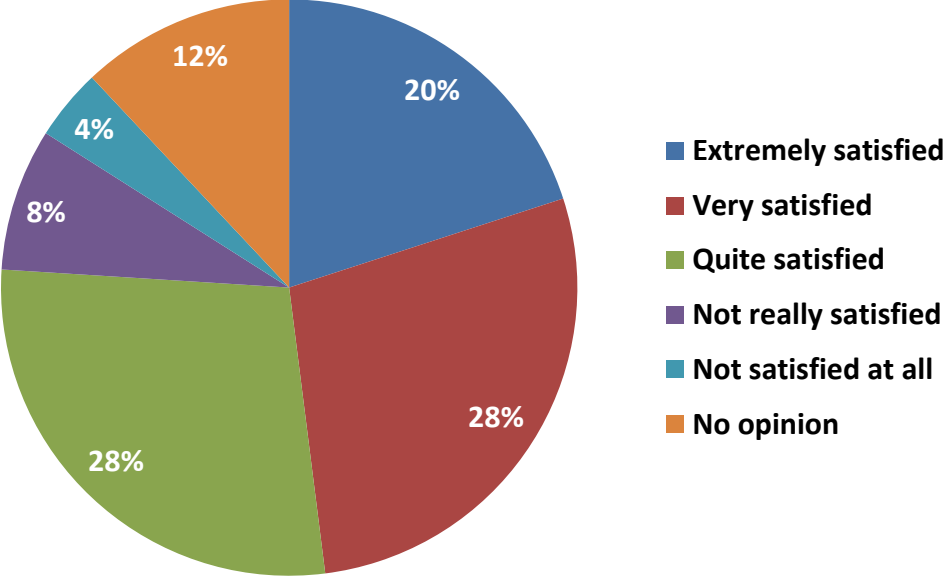
GENERAL OPINION OF FRENCH PRINCIPAL INVESTIGATORS ON THE PROGRAM

98% of French principal investigators are satisfied



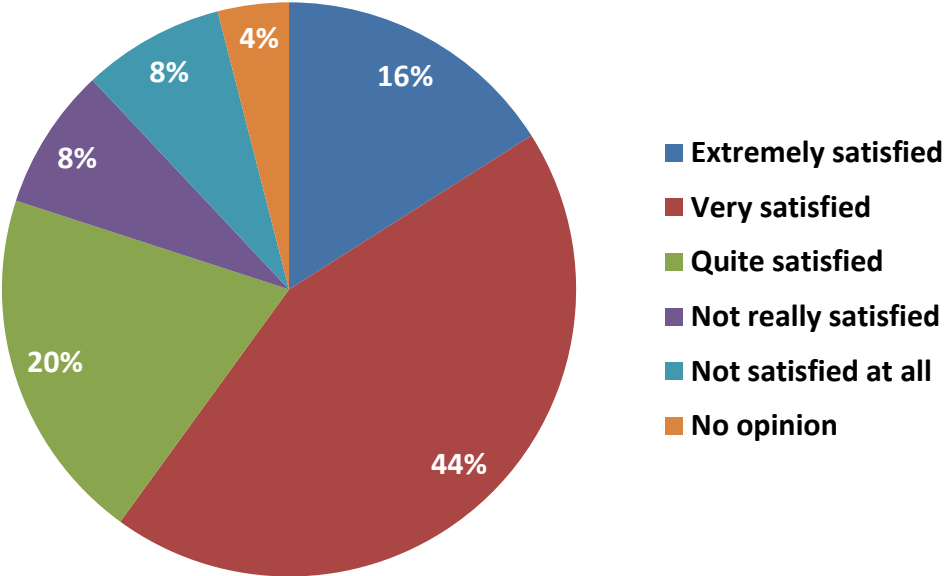
Data from 58 responses

OPINION OF FRENCH PRINCIPAL INVESTIGATORS ABOUT FRENCH EMBASSY HELP



Data from 25 responses

OPINION OF FRENCH PRINCIPAL INVESTIGATORS ABOUT ADMINISTRATIVE MANAGEMENT



Data from 25 responses

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

POSITIVE COMMENTS



Strengths of this program	Number of occurrences (out of 204)	% of funded projects
Fostering an international research cooperation	31	50%
Fostering researchers' mobility	30	48%
Fostering the training of young researchers	29	47%
Simplicity of the project application process	22	35%
Easy implementation (administrative flexibility)	16	26%
Fostering exchanges enabling scientific production	15	24%
Sufficient financial means for the mobility costs	14	23%
Helping to know the partner country	11	18%
Financial autonomy towards your institution	8	13%
Sufficient amount of mobility time given to collaborate	7	11%
Helpful to initiate other fundraising	6	10%
Sufficiently long duration of the projects	5	8%
Good scientific-added value on financial investment	4	6%
Timetable for implementation	3	5%
Flexibility of the program for actions co-financed with the South African partner	2	3%
Transparency of the selection process	1	2%
<i>Total number of occurrences</i>	204	

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

NEGATIVE COMMENTS



Weaknesses of this program	Number of occurrences (out of 123)	% of funded projects
Insufficient financial means to cover a project	30	48%
Financial means insufficient for the expenditure of mobility (per diem)	14	23%
Financial means insufficient for the expenditure of mobility (transport)	13	21%
Length of support too short	13	21%
Administrative heaviness of the missions management	13	21%
Difficult to continue the cooperation	8	13%
Heaviness of the process of applications	7	11%
Lack of transparency in the selection process	7	11%
Insufficient communication on the evaluation's results	6	10%
Too short duration of mobilities	5	8%
Timetable for implementation	4	6%
Too low number of mobilities	1	2%
Flexibility of the programme for actions co-financed with the partner	1	2%
Financial autonomy towards your institution	1	2%
Too long duration of mobilities	0	0%
<i>Total number of occurrences</i>	123	

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 (29%) better than the general mean (25%)

88% of funded projects with the participation of at least one french or south african young researcher

Average annual scientific coproductions per project better than the average of the other programs (1,1 vs 0,96)

78% of scientific coproductions involve at least 1 young researcher

Rather good rate of average annual publications for young researchers involved in the scientific coproductions (0,91)

Continuation of the cooperation (84%) close to the general mean (82%) (and 34% with new fundings identical to the general mean)

The ongoing cooperation is financed by a new PROTEA funding for 21% of the Pis (identical to the mean of all programs : 21%)



Only 34% of new cooperations (mean of all programs : 44%)

92% of the cooperations with the same previous south african partner (mean of all programs : 46%)

34% of the projects with no scientific coproduction

Implication of young researchers laureates (17%) lower than the general mean (23%)

42% of french and south african young researchers involved in the scientific coproductions (mean of all programs : 52%)

Rather low implication of young researchers in the mobilities

Rather low rate of average annual publications for young researchers involved in the projects (0,38)



COMPARISON SURVEY 2017 (2006-2016) – SURVEY 2024 (2006-2022)

- **Response rate : 2006-2016 : 41% (37 responses), 2017-2022 : 54% (25 responses)**
- **Small increase in the average annual number of applications (survey 1 : 51, survey 2 : 57)**
- **Stability in the number of selected projects carried by young researchers (19% vs 17%)**
- **Stability in the number of women applicants (30% vs 29%) and laureates (34% vs 37%)**
- **Better participation of young french researchers to the projects (+10%) but decrease for their involvement in the scientific coproductions (-42%)**
- **Small decrease in the outgoing mobilities of french young researchers (-6%) but increase in the incoming mobilities of south african young researchers (+12%)**
- **Stability in the outgoing mobilities for women researchers (30%)**
- **Stability in the average annual number of scientific coproductions per project (1,1 vs 1,0)**
- **Small increase of the continuation of cooperations (+2%)**
- **Decrease in the continuation of cooperations with financing (-17%)**

PRELIMINARY RECOMMANDATIONS

- **Encourage new cooperations (only 34% of new cooperations of which 92% with the same partner)**
- **Enhance scientific coproductions (from the surveys : 34% of projects with no scientific coproduction)**
- **Promote young researchers applications and selections**
- **Increase the participation of young researchers to the scientific coproductions (only 42% of young researchers are implicated in the scientific coproductions)**
- **Promote mobilities of 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.

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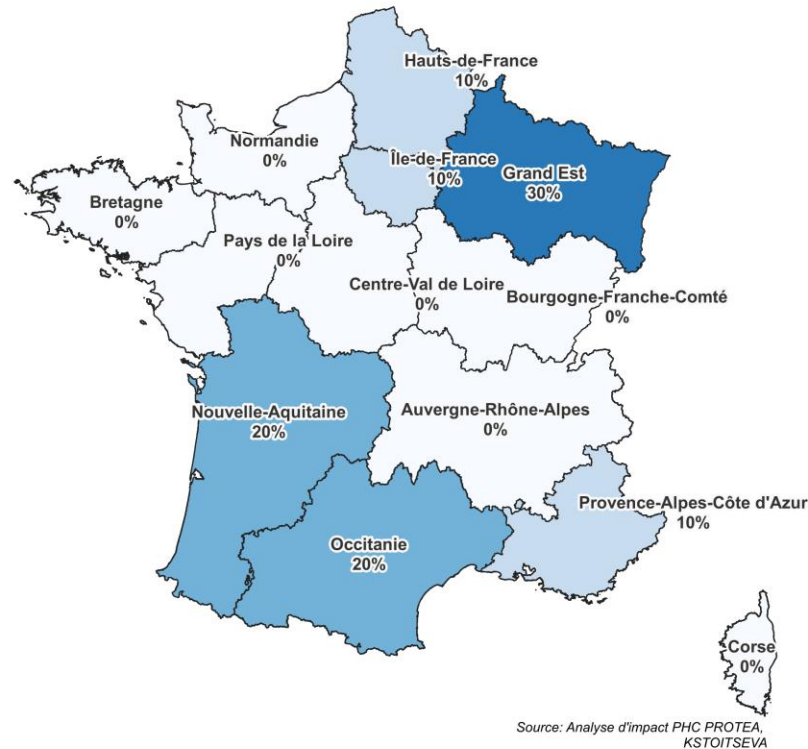
**MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE**

*Liberté
Égalité
Fraternité*

ANNEX REGIONALISATION AND SCIENTIFIC DOMAINS (CARTOGRAPHIES)

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Mathematics 2011-2022*



Number of applications : 10



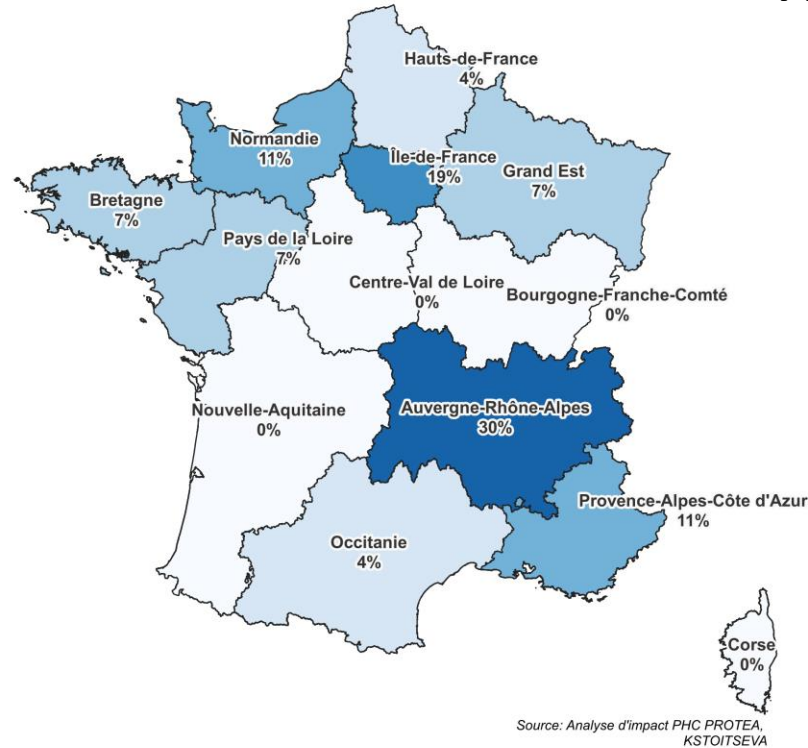
Number of selections : 4

Six regions are concerned for applications with Grand Est ahead. Only 4 regions benefit selections.

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Physics 2011-2022*



Number of applications : 27



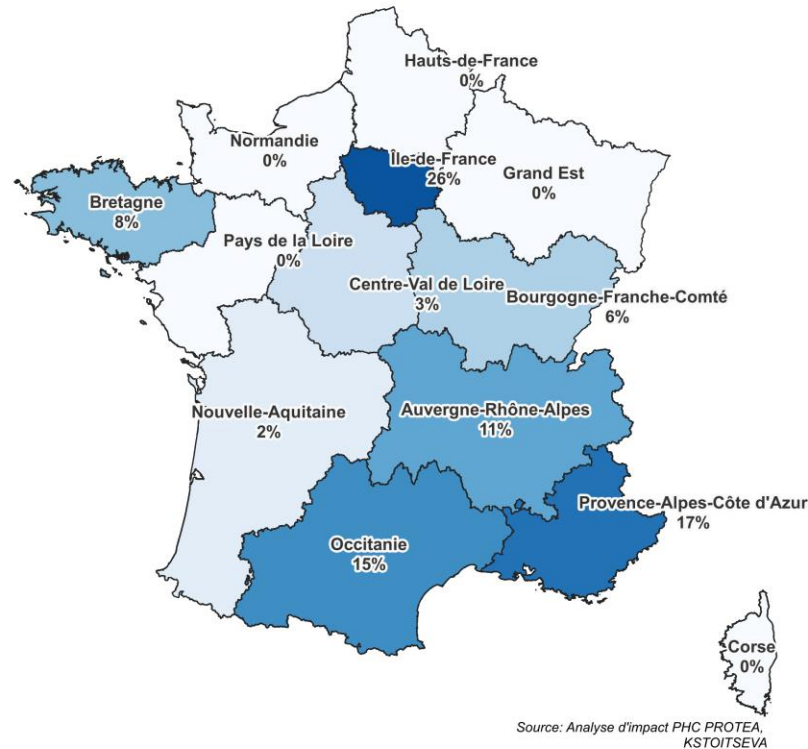
Number of selections : 9

Nine regions are concerned for applications with Auvergne-Rhône-Alpes ahead but only six benefit selections (with Auvergne-Rhône-Alpes still ahead)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO
THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Marine, Earth, Planet Sciences 2011-2022*



Number of applications : 65



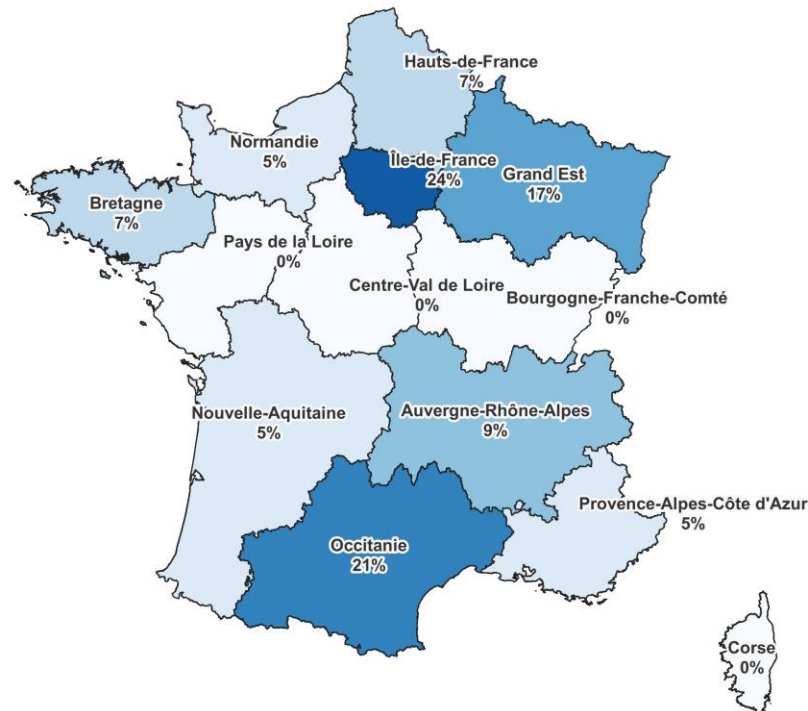
Number of selections : 14

Ten regions are concerned for applications but only five benefit selections (with Ile-de-France and Provence-Alpes-Côte d'Azur ahead)

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

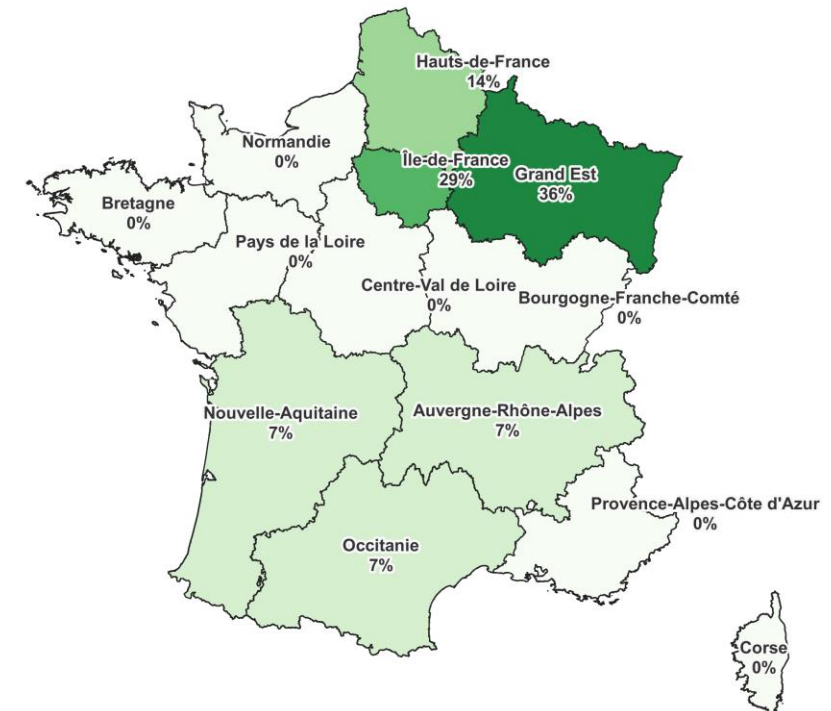
REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Chemistry 2011-2022*



Number of applications : 58

Source: Analyse d'impact PHC PROTEA, KSTOITSEVA



Number of selections : 14

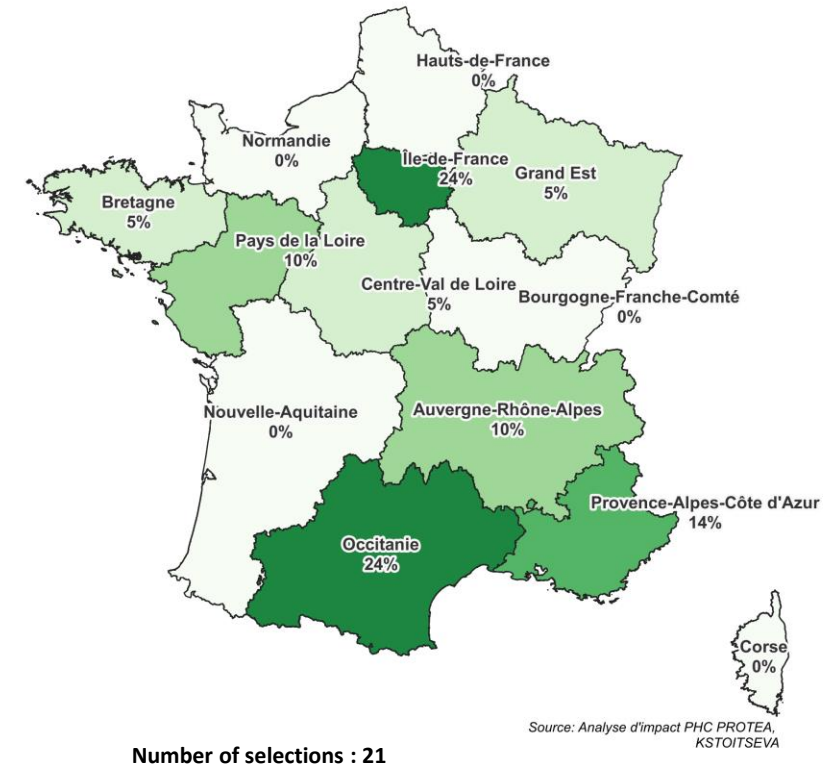
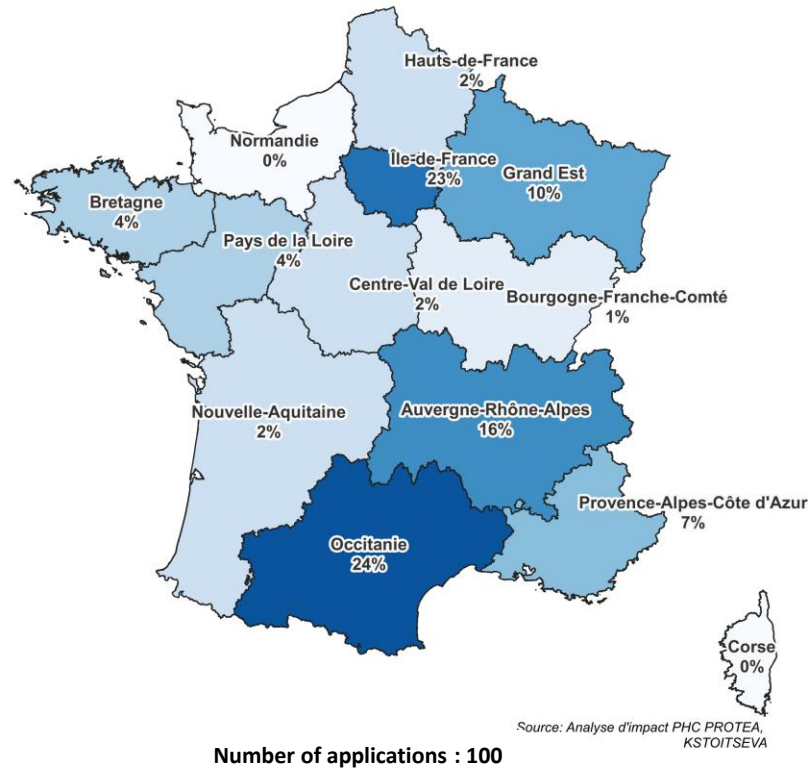
Source: Analyse d'impact PHC PROTEA, KSTOITSEVA

Nine regions are concerned for applications. Six regions benefit selections with Grand Est ahead

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Biology and Health 2011-2022*

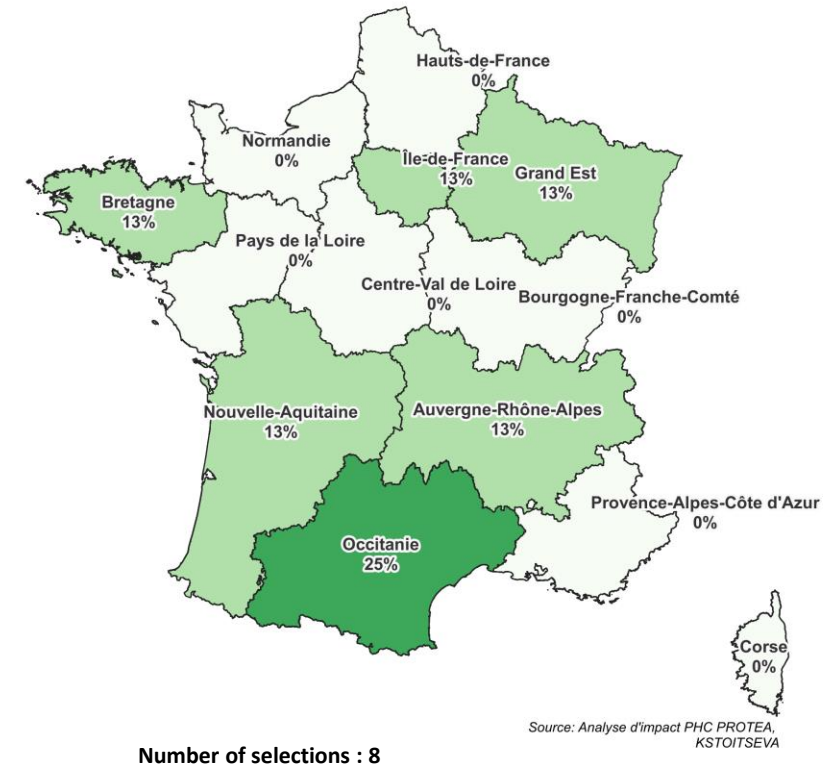
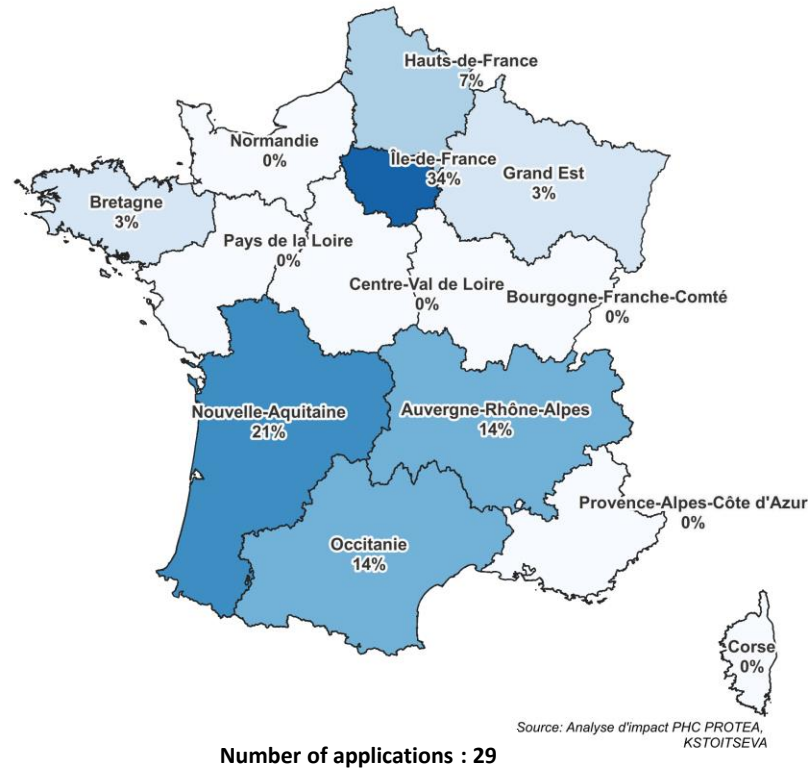


Twelve regions are concerned for applications but only nine benefit selections (with Occitanie and Ile-de-France ahead for both)

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Humanities 2011-2022*



Eight regions are concerned for applications with Ile-de-France ahead and seven benefit selections (with Occitanie ahead)

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Social Sciences 2011-2022*



Number of applications : 13



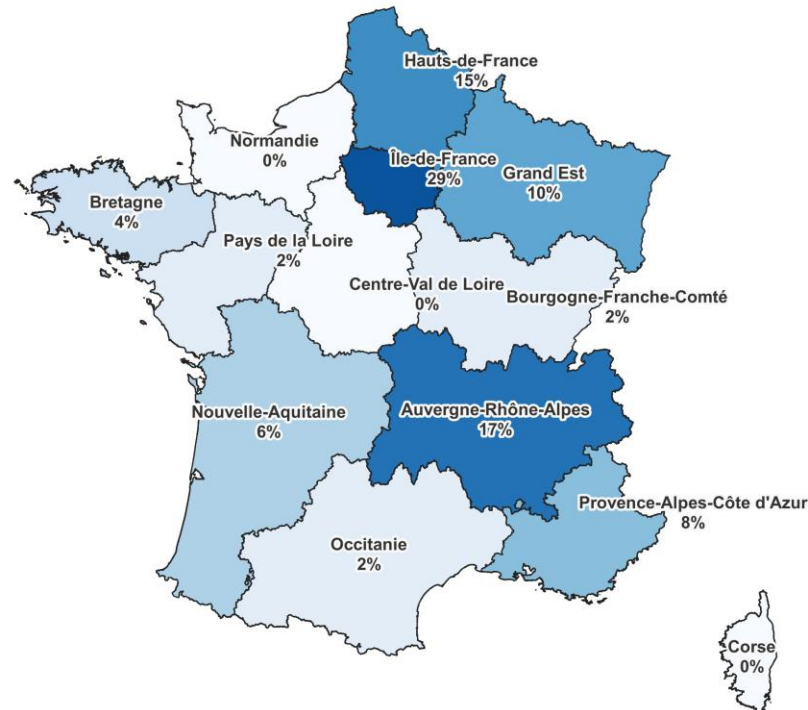
Number of selections : 2

Four regions are concerned for applications but only one benefits selections (Île-de-France)

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

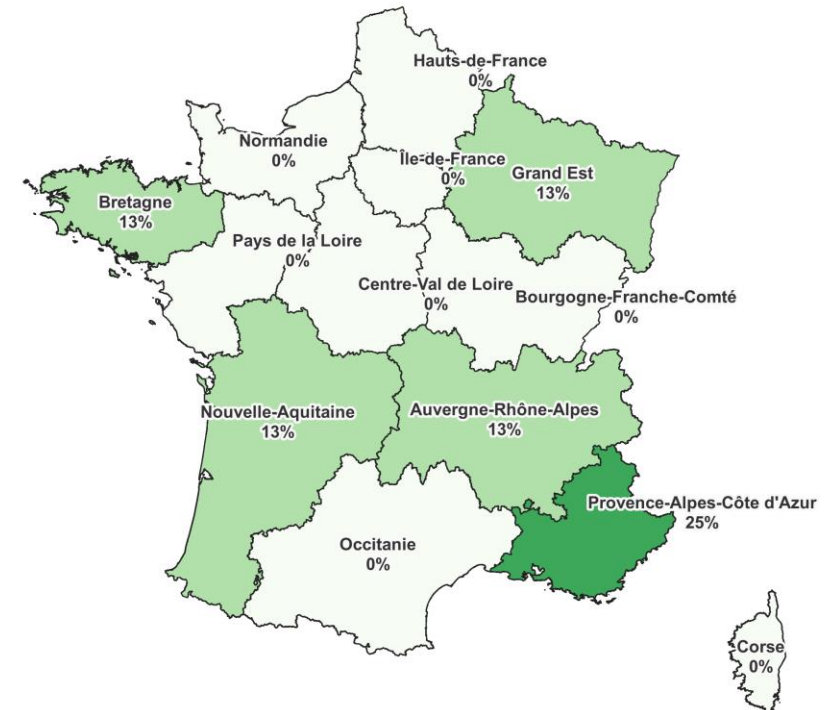
REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections Engineering Sciences 2011-2022



Number of applications : 48

Source: Analyse d'impact PHC PROTEA, KSTOITSEVA



Number of selections : 8

Source: Analyse d'impact PHC PROTEA, KSTOITSEVA

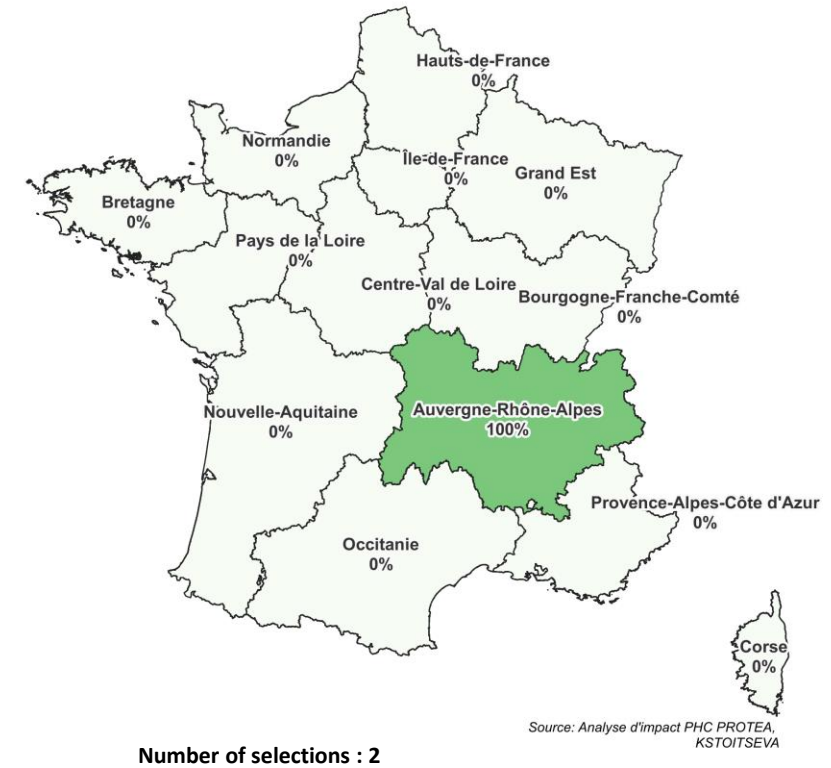
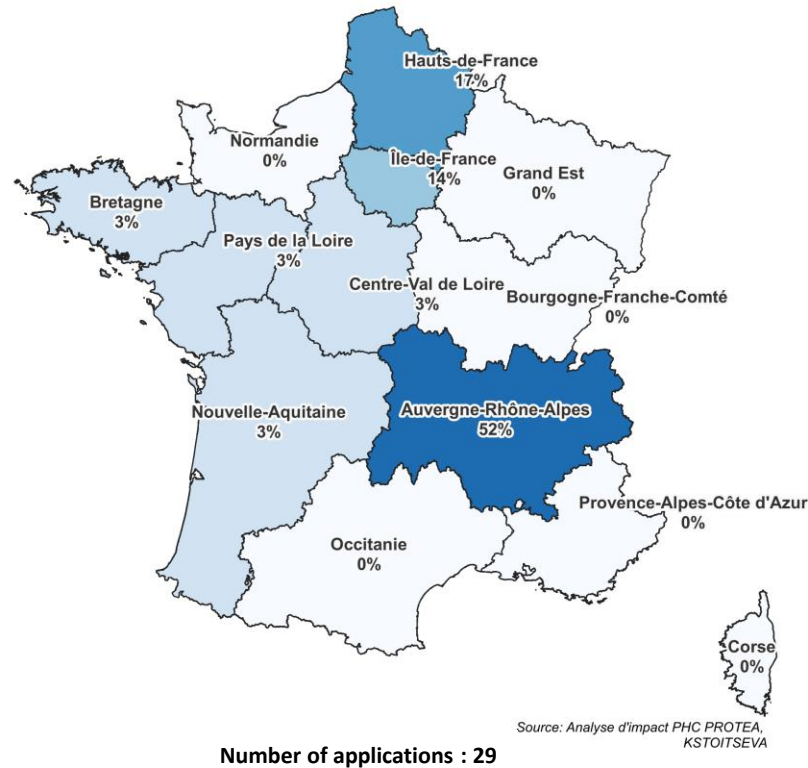
Eleven regions (with La Réunion) are concerned for applications with Ile-de-France ahead.

Six regions benefit selections (with La Réunion and Provence-Alpes-Côte d'Azur ahead)

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections *Information technology 2011-2022*

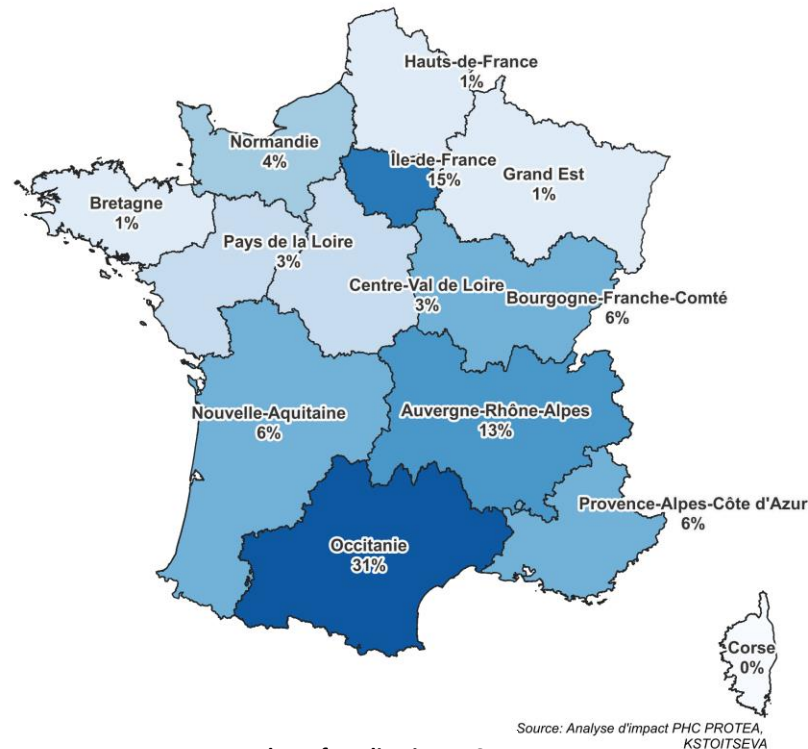


Eight regions are concerned for applications with Auvergne-Rhône-Alpes ahead. Only one benefits selections (Auvergne-Rhône-Alpes)

% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2011-2022)

PHC PROTEA Regional percentages of applications and selections Agronomy/Ecology 2011-2022



Number of applications : 67



Number of selections : 16

**Fourteen regions are concerned for selections (including la Guyane et la Réunion) with Occitanie ahead.
 Only eight benefit selections (with Occitanie still ahead and including la Réunion)**

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO
 THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**