

FRANCE – SLOVENIA

Scientific impact of the PHC PROTEUS (2005-2023)

MESR-DAEI / MEAE

2024

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

GENERAL PRESENTATION OF THE PROGRAM

Creation : 1994

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

Total budget (France + Slovenia) : 70 000 € / year

>> including budget from the French part : around 30 300 € / year

>> including budget from the Slovenian part : around 39 700 € / year

Average budget per project (France + Slovenia) : around 3 400 € / year

Number of new funded projects per year : around 13

From 2005-2023 :
645 applications submitted
239 projects funded

Campus France (2005-2023)

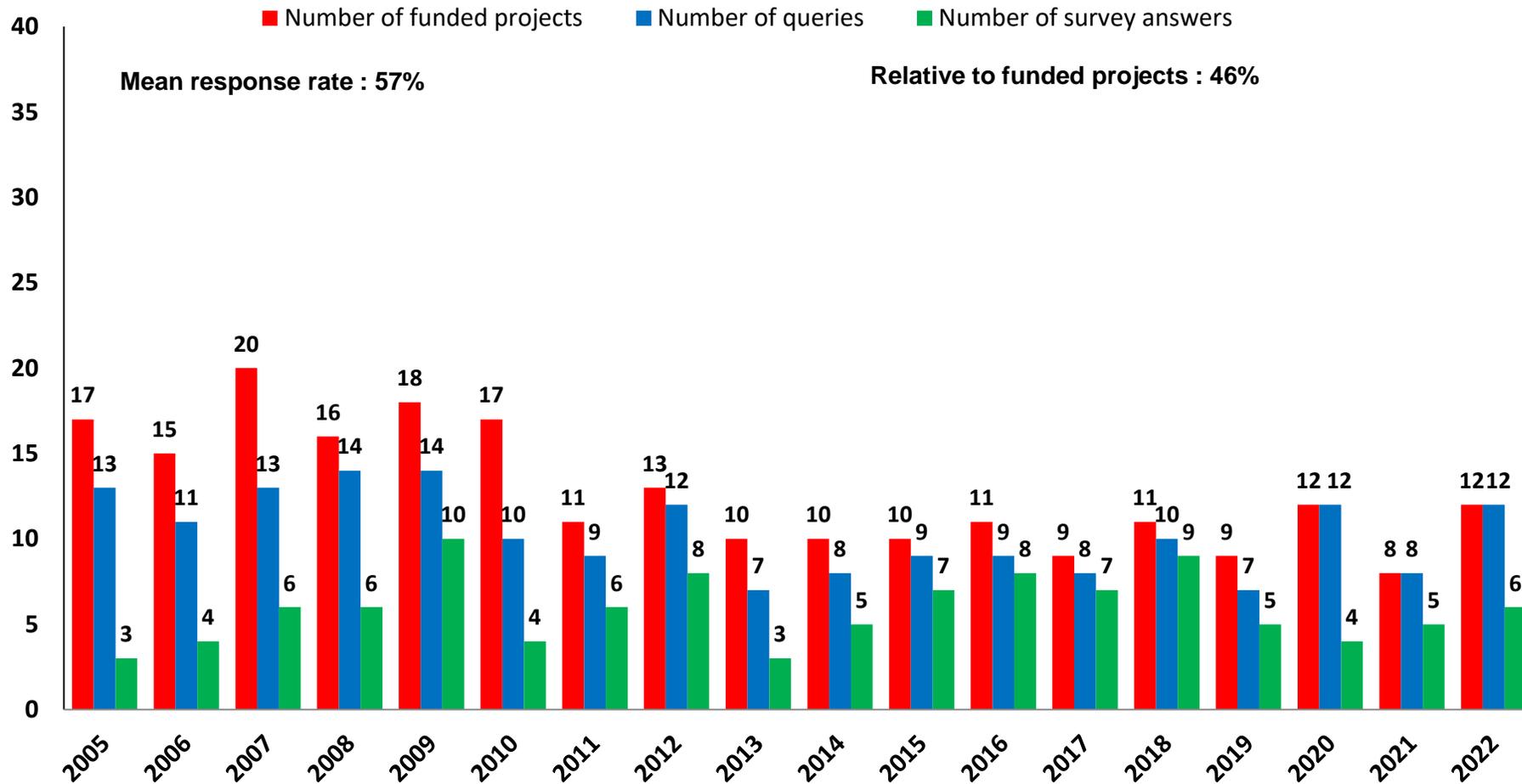
- Information about the PHC Proteus applications
- List of mobilities (from France to Slovenia and from Slovenia to France)
- Survey 1 : 2005-2020 ; Survey 2 : 2005-2023

Survey (2005-2022)

- Target : French Principal Investigators of selected projects between 2005 and 2022
- Survey 1 (2005-2018) duration : from March to May 2020
- Survey 2 (2019-2022) duration : from April to June 2024
- **57%** response ratio (107 respondents for 186 queries)

ANSWERS TO THE SURVEYS

Average response rate to the surveys : 57 % (107 answers)





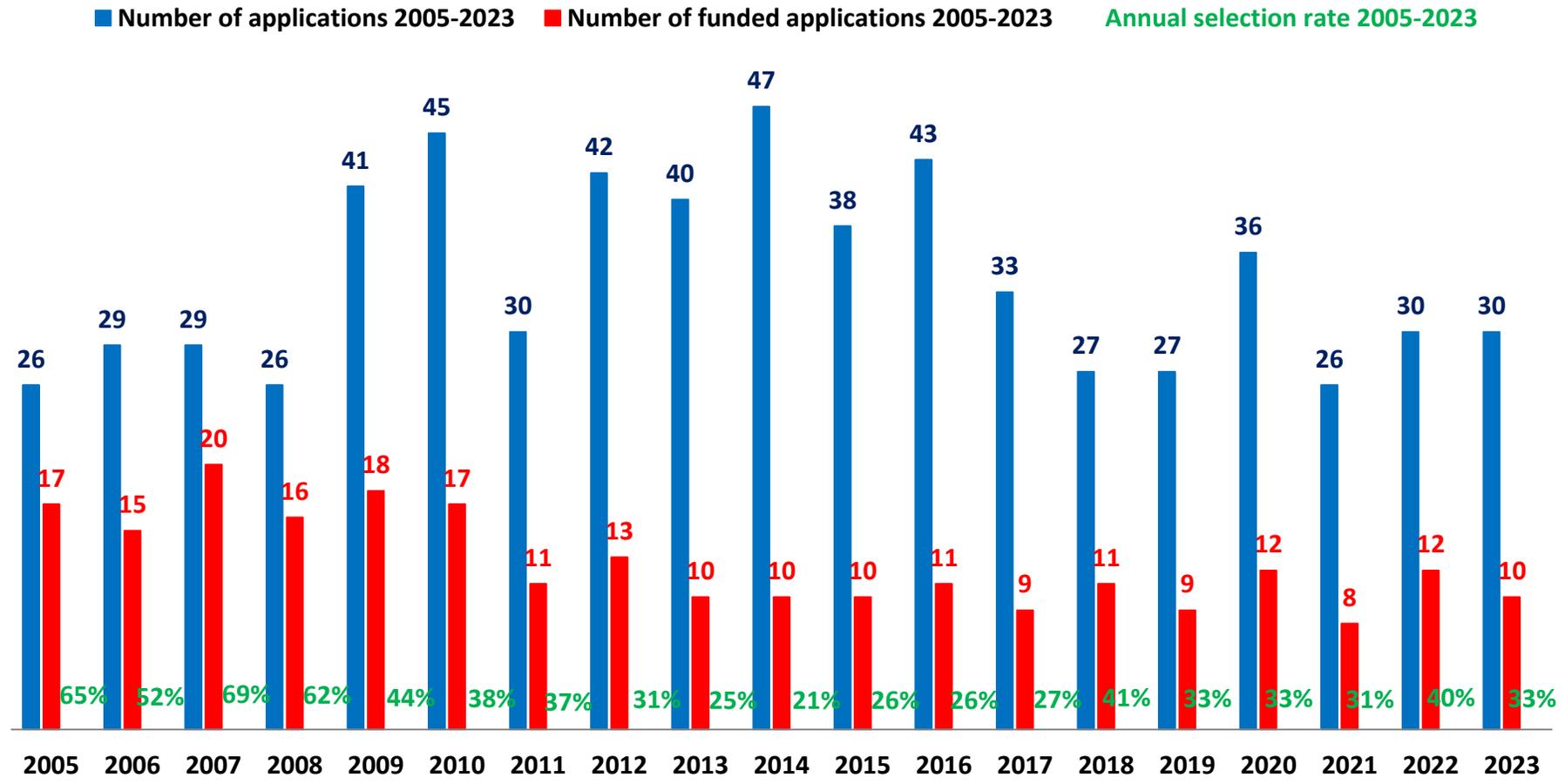
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2005-2023 KEY POINTS

NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2005-2023: **37%**



NUMBER OF APPLICATIONS VS SELECTION RATE (2005-2023)



Survey 2020 : 43 programs

Survey 2024 : 53 programs

BEFORE THE PROTEUS PROJECT

**69% of the laureates have already previously cooperated with Slovenia
(data from 107 responses)
(mean of all programs : 56%)**

**This previous cooperation was with the same partner for 62% of the laureates
(data from 74 responses)
(mean of all programs : 46%)**

**This previous cooperation was financed by the PHC Proteus for 44% of the laureates
(data from 74 responses)
(mean of all programs : 21%)**

BEFORE THE PROTEUS PROJECT

With which scientific collaboration program ?	
PHC Proteus	55%
European projects	13%
CNRS International fundings	10%
National Research Agency (ANR)	2%
BGF (French government grants)	1%
Others	19%

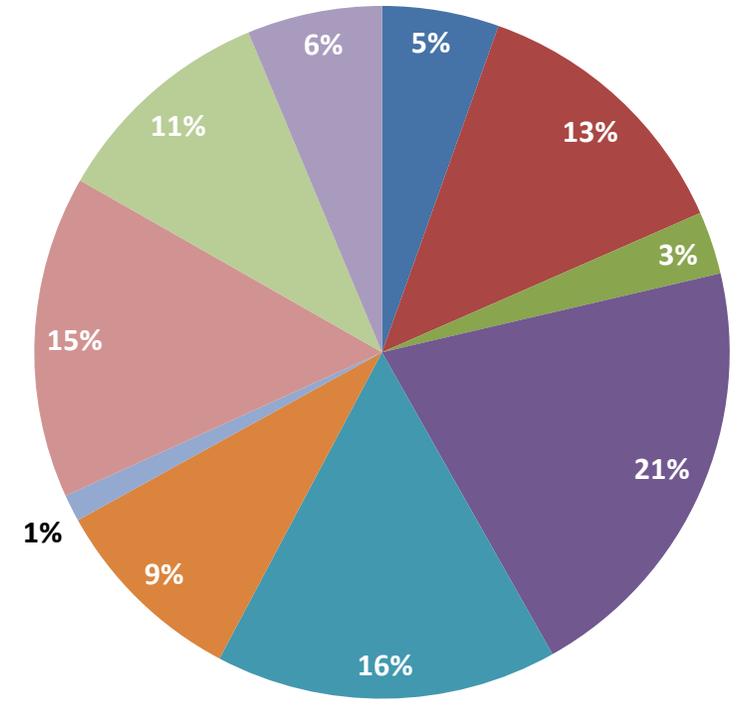
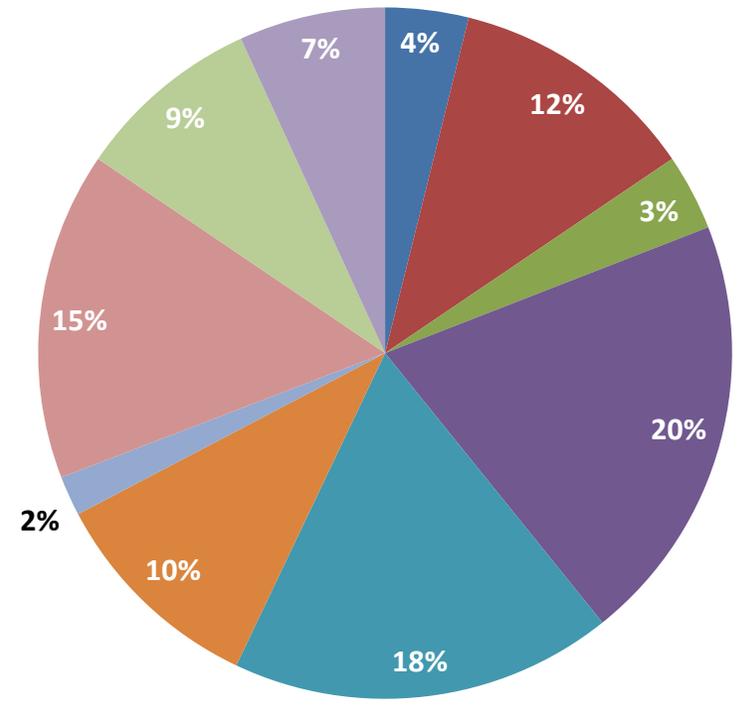
Data from 59 responses

Plus 71 previous cooperations based on other exchanges (co-publication, meetings, joint PhD...)

SCIENTIFIC DOMAINS OF PROJECTS (2005-2023)

Number of applications : **645**

Number of funded projects : **239**

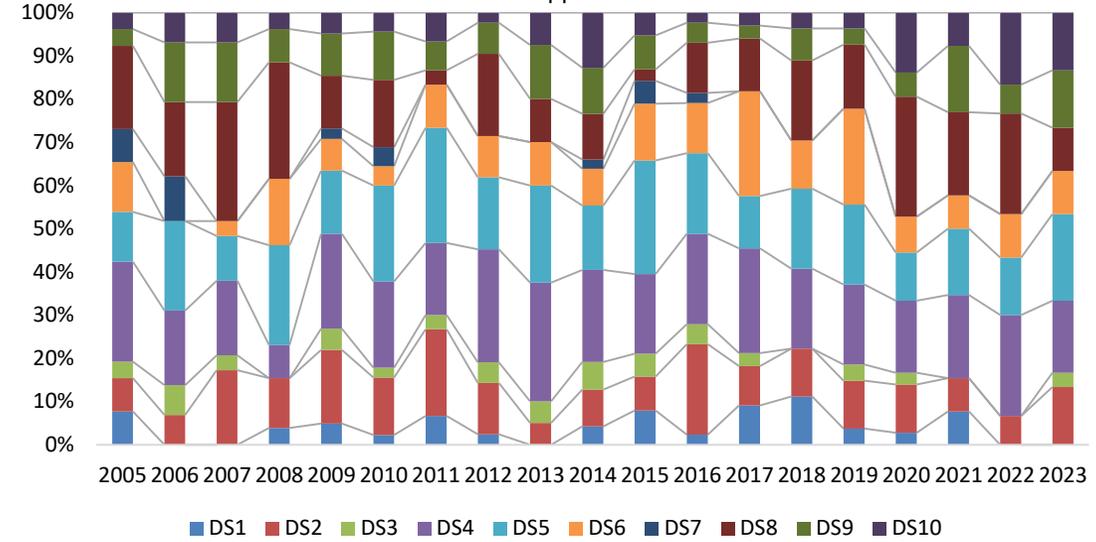


- Mathematics
- Physics
- Marine/Earth/Planet Sciences
- Chemistry
- Biology and Health
- Humanities
- Social Sciences
- Engineering Sciences
- Information Technology
- Agronomy/Ecology

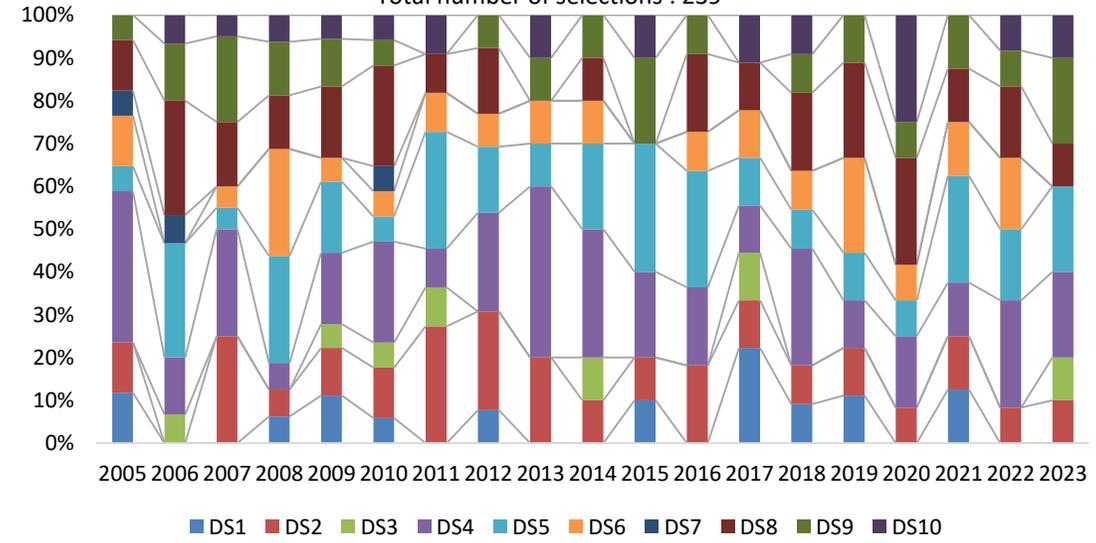
SCIENTIFIC DOMAINS : EVOLUTION 2005-2023

- 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 : 645



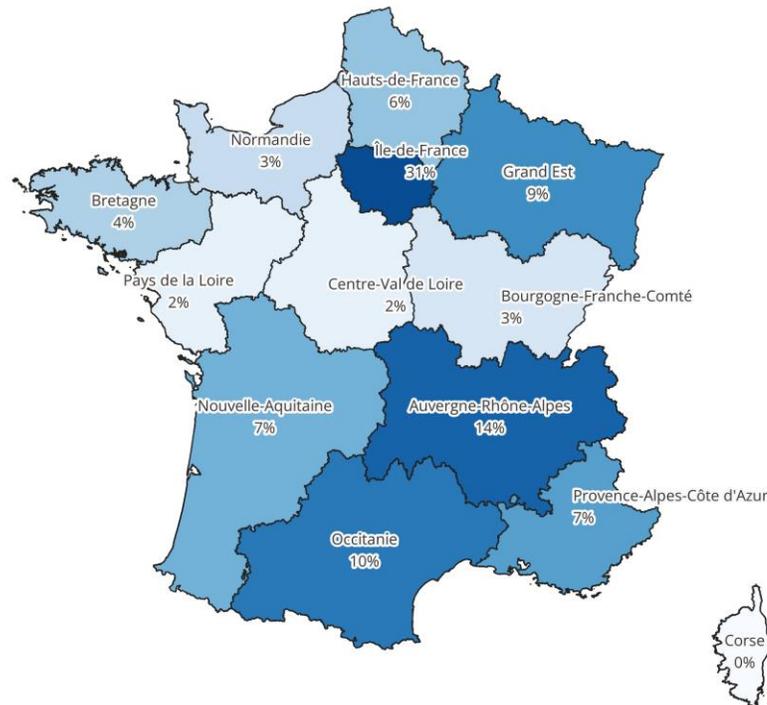
Percentage of selections filed by scientific domain each year compared to all selections filed in each scientific domain
 Total number of selections : 239



REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2005-2023)

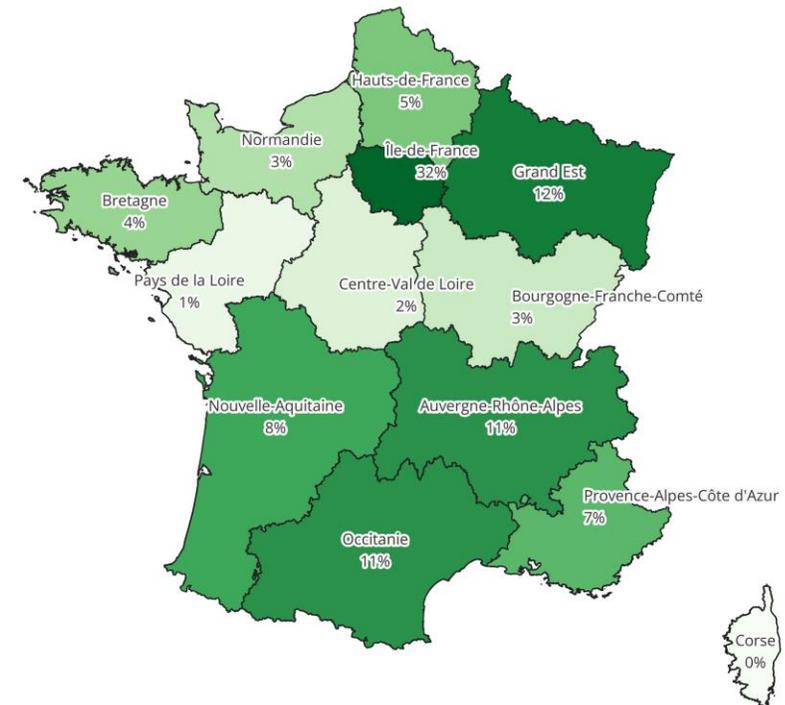
PHC PROTEUS

Regional percentages of applications and selections 2005-2023



**Total number of applications
(all domains)**
645

Source: Analyse d'impact PHC Proteus, KSTOITSEVA

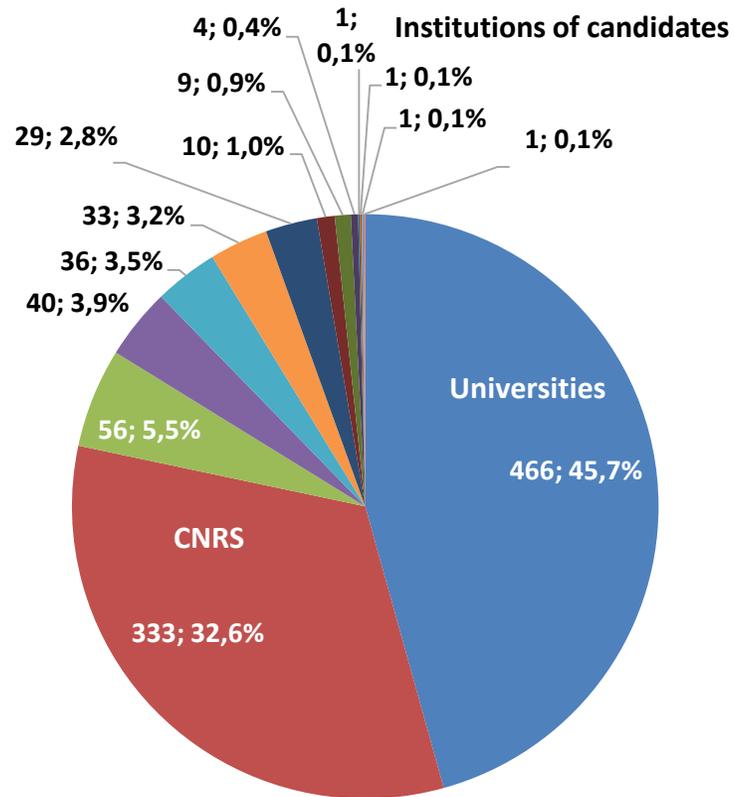


**Total number of selections
(all domains)**
239

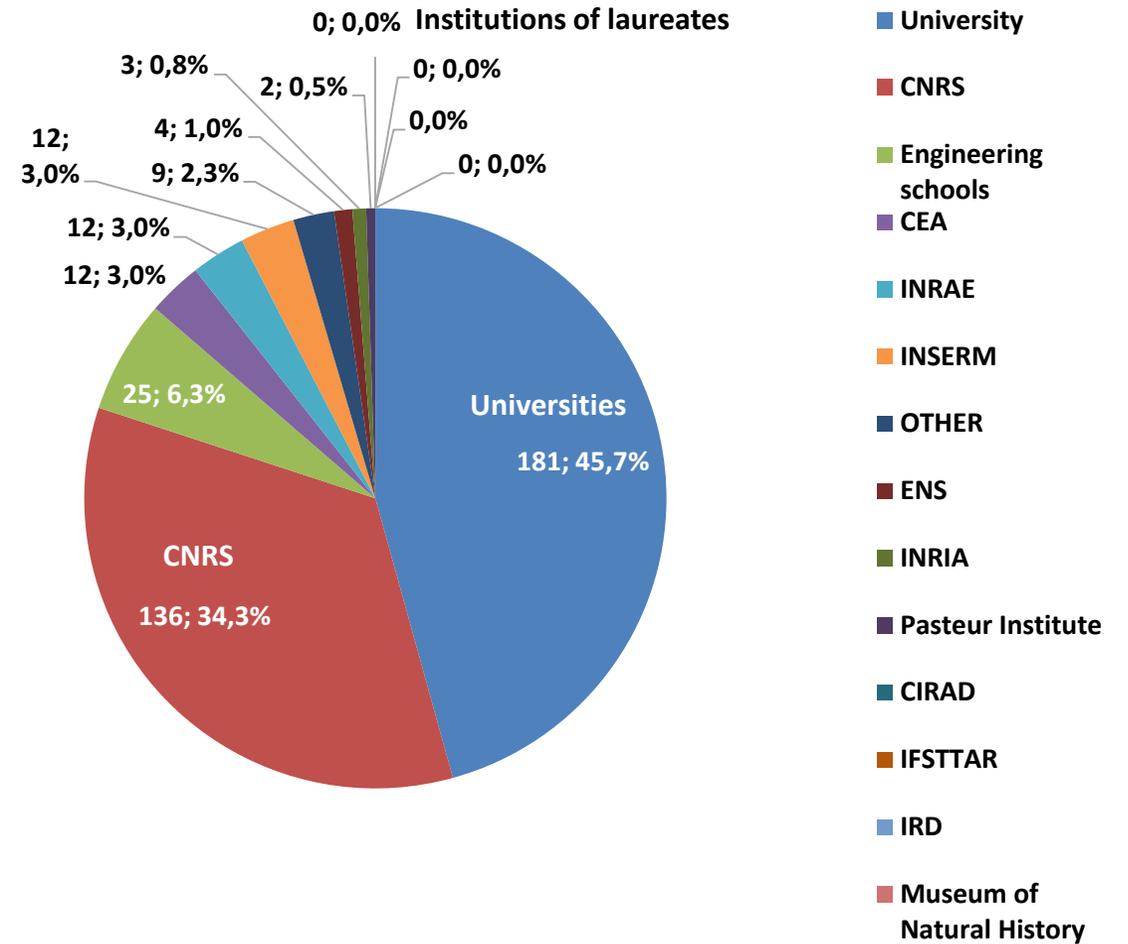
Source: Analyse d'impact PHC Proteus, KSTOITSEVA

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

FRENCH PARTICIPATING INSTITUTIONS (2005-2023)



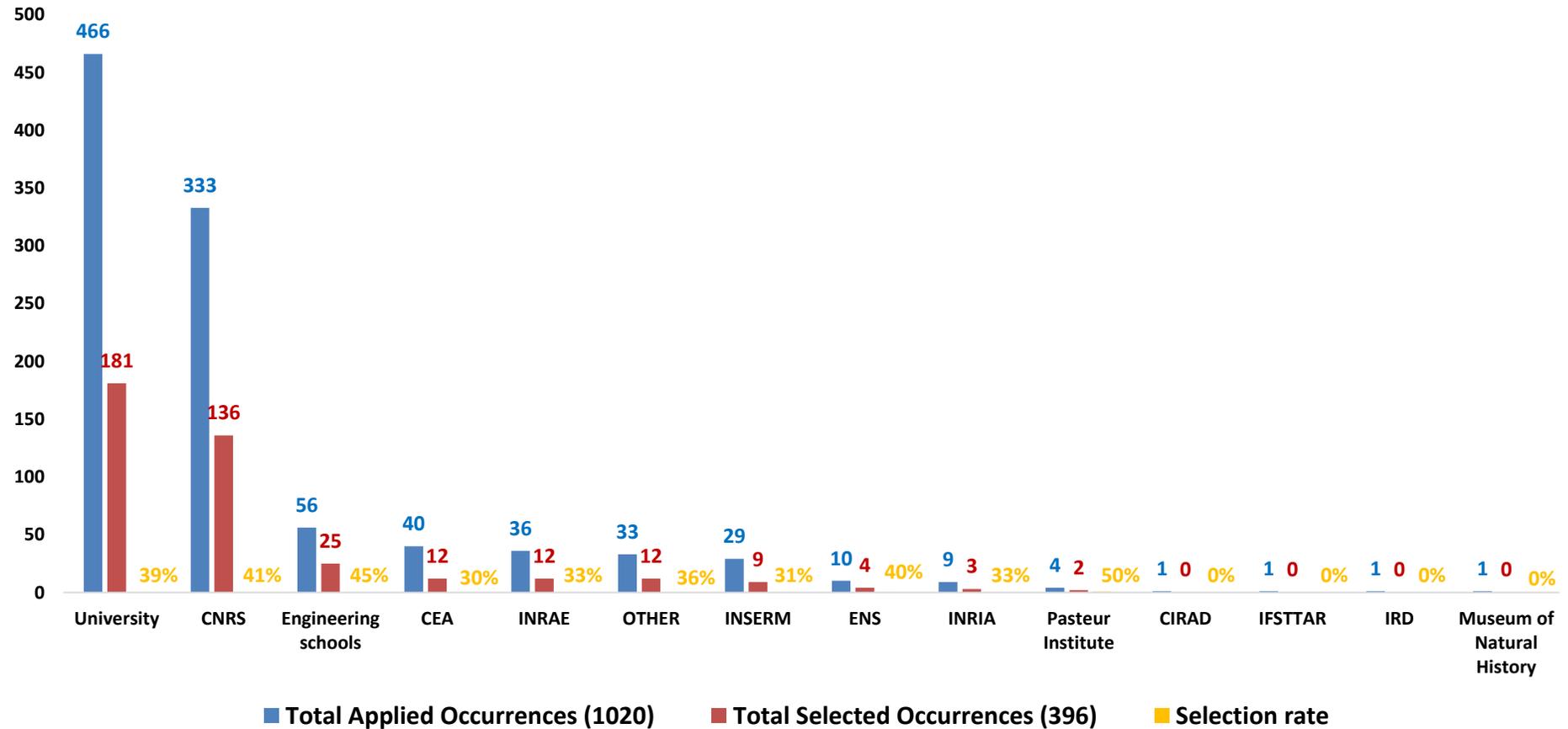
- University
- CNRS
- Engineering schools
- CEA
- INRAE
- OTHER
- INSERM
- ENS
- INRIA
- Pasteur Institute
- CIRAD
- IFSTTAR
- IRD
- Museum of Natural History



- University
- CNRS
- Engineering schools
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- INRAE
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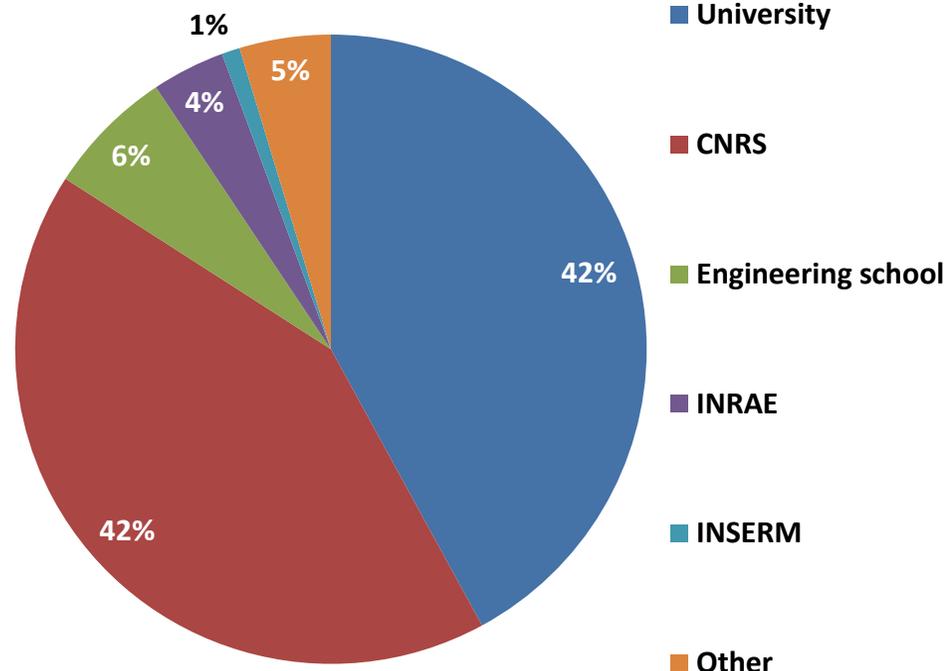
FRENCH PARTICIPATING INSTITUTIONS (2005-2023)

Number of occurrences for each institution

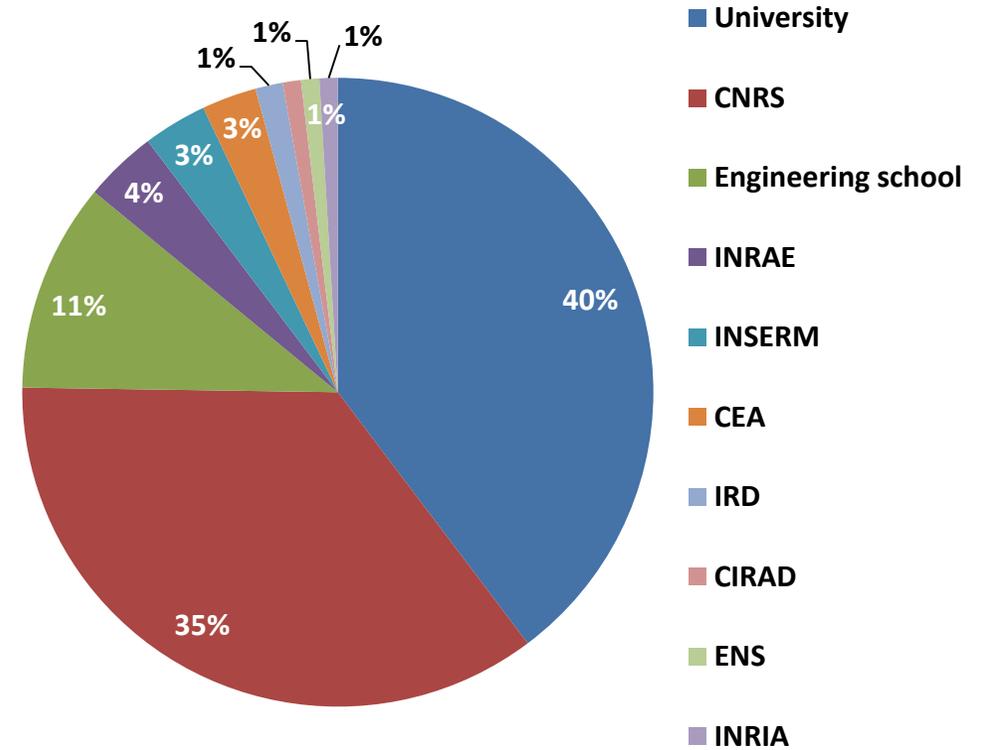


FRENCH PARTICIPATING INSTITUTIONS (2005-2022)

PI's employers

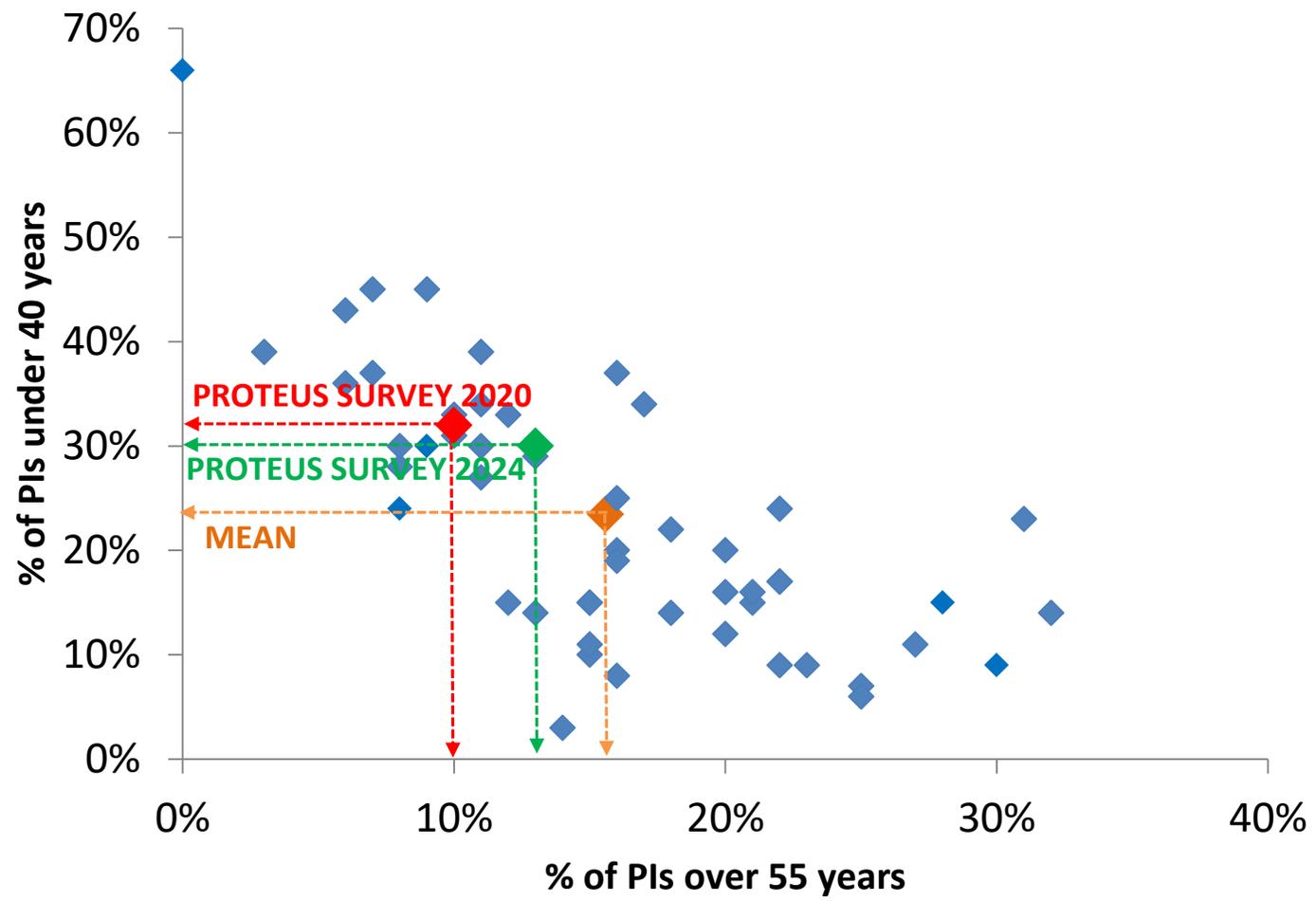


Laboratories authorities



Data from 107 responses

AGE OF FRENCH PRINCIPAL INVESTIGATORS (2005-2022)

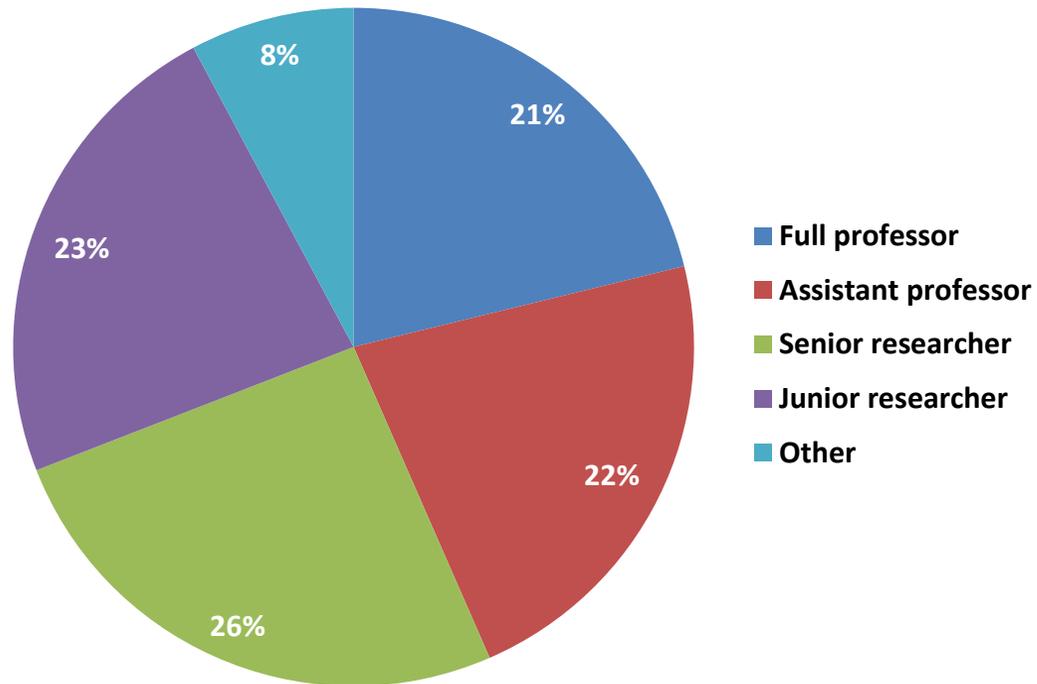


Survey 2020 : 43 programs
Survey 2024 : 53 programs

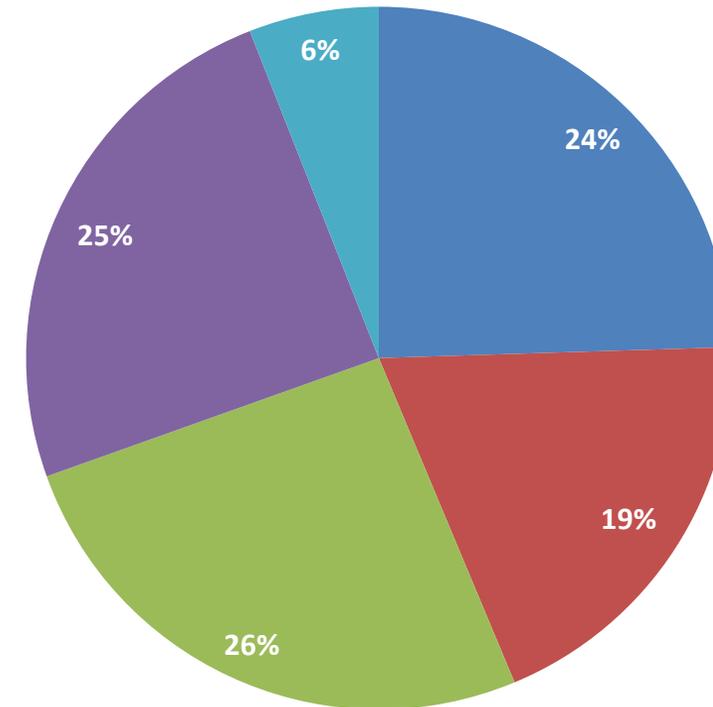
FRENCH PRINCIPAL INVESTIGATORS : STATUS (2005-2023)

(DATA FROM CAMPUS FRANCE)

Applicants professional status



Laureates professional status

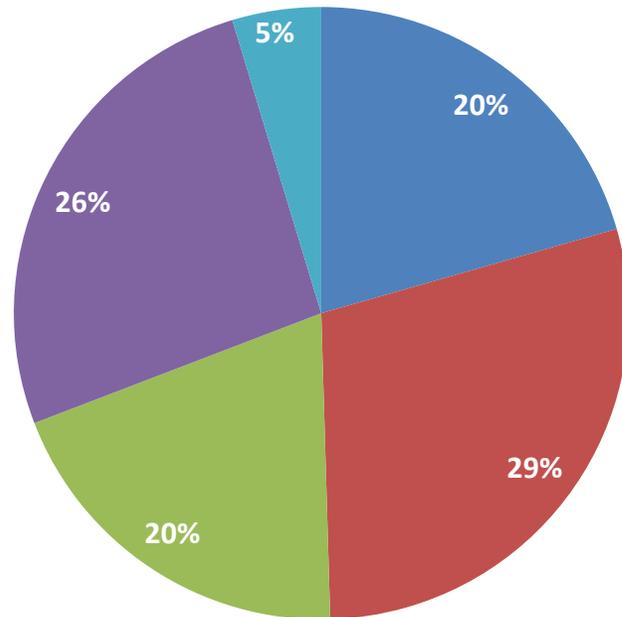


Data from 359 french applicants and 151 french laureates

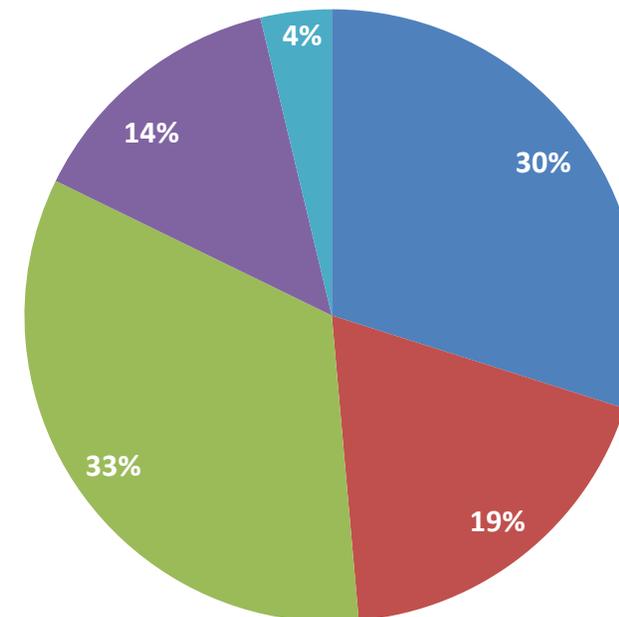
FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS (2005-2022)

(DATA FROM THE SURVEYS)

Previous professional status (at the beginning of the project)

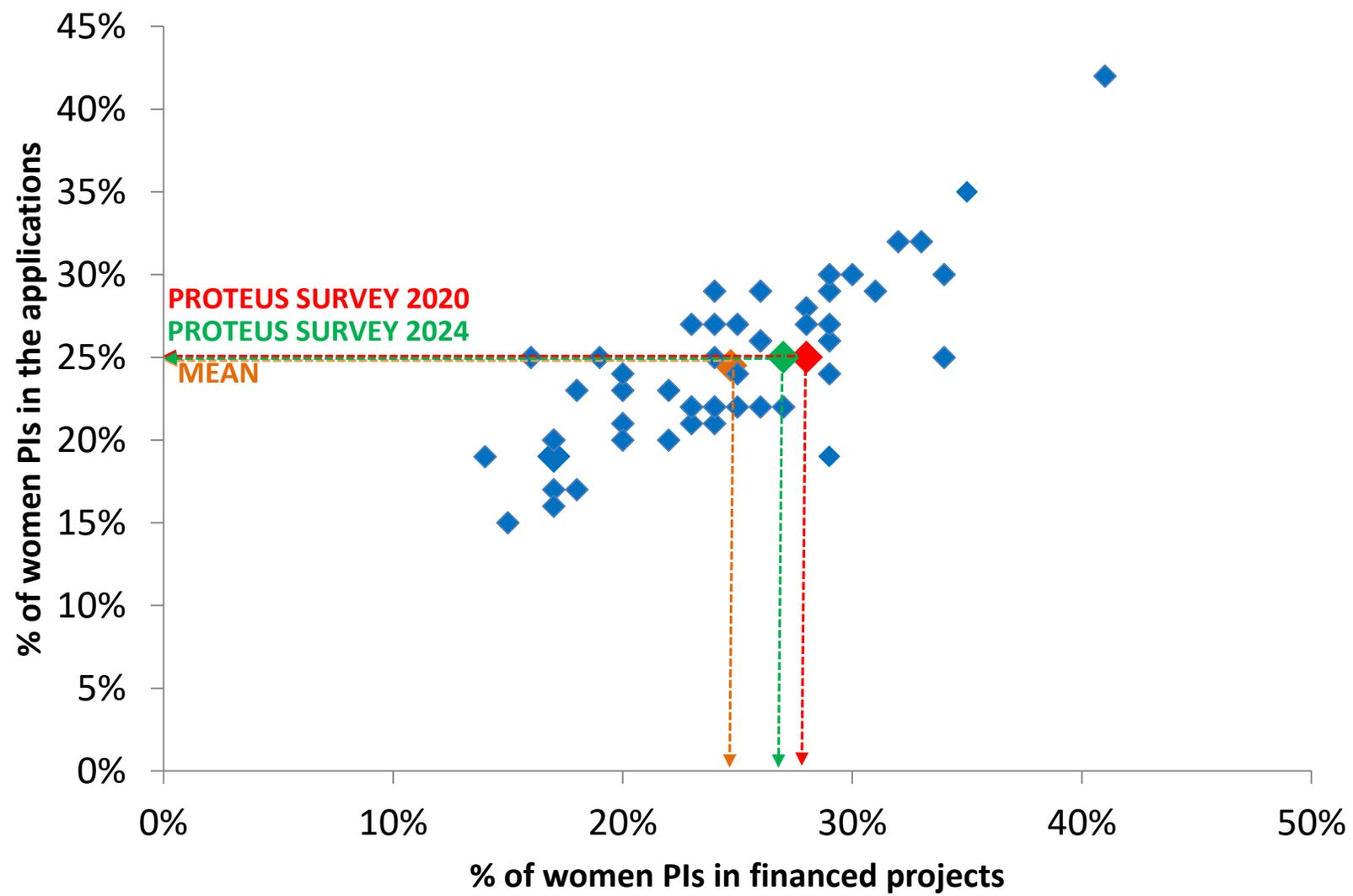


Current professional status



Data from 107 responses

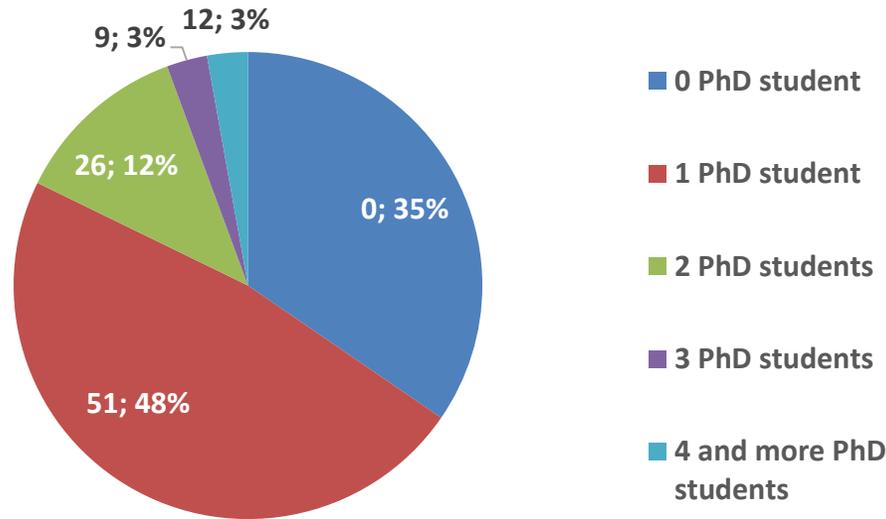
IMPLICATION OF WOMEN (FRANCE) (2005-2023)



Survey 2020 : 43 programs
Survey 2024 : 53 programs

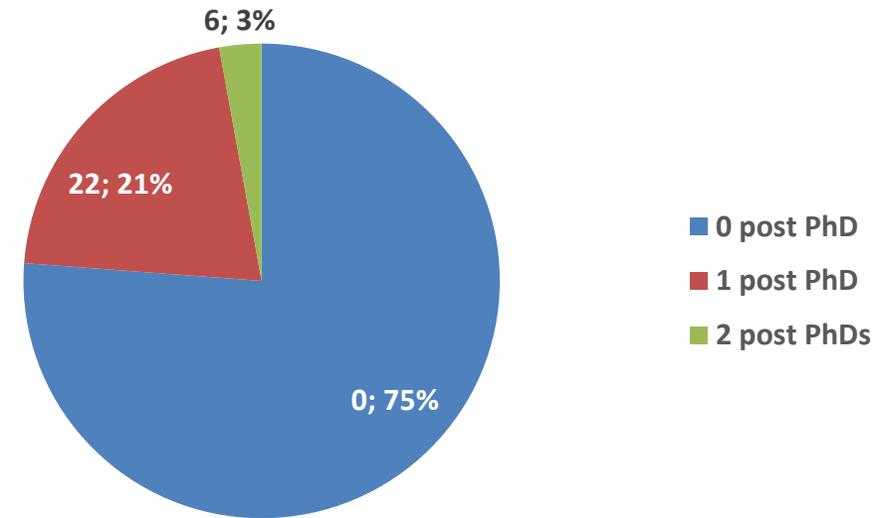
PARTICIPATION OF FRENCH YOUNG RESEARCHERS (2005-2022)

Number of French PhD students



65% of projects involve at least one French PhD student

Number of French post-doctoral researchers

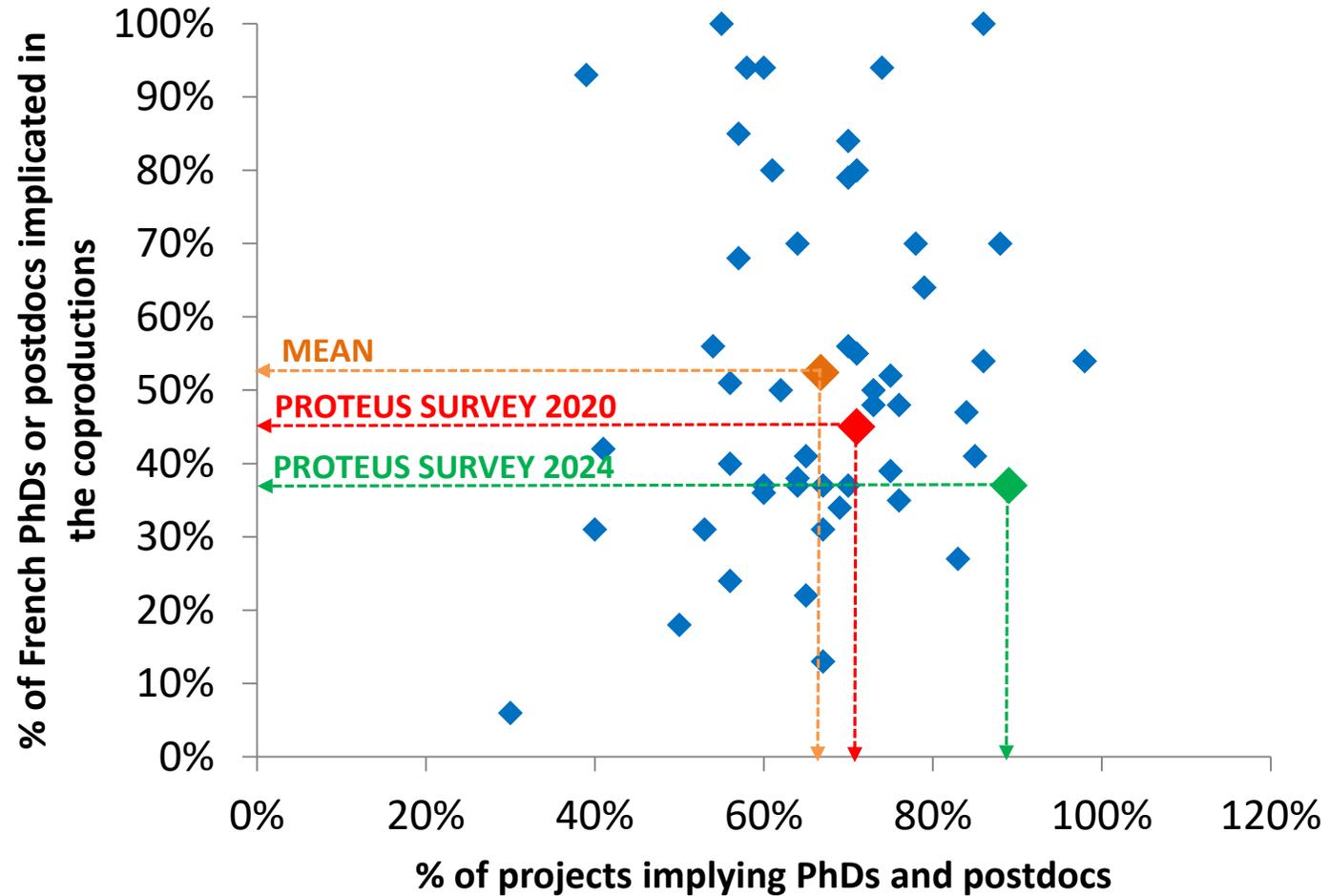


23% of projects involve at least one French post-doctoral researcher

Overall, **89%** of projects involve at least one French young researcher

Data from 107 responses

IMPLICATION OF FRENCH YOUNG RESEARCHERS IN THE PUBLICATIONS (2005-2022)



Survey 2020 : 43 programs

Survey 2024 : 53 programs

PARTICIPATION OF SLOVENIAN YOUNG RESEARCHERS (2019-2022)

**Between 2019 and 2022, 4 Slovenian PhDs have been involved in
the projects**

20% of projects involve at least one Slovenian PhD student

**Between 2019 and 2022, 9 Slovenian postdocs have been involved in
the projects**

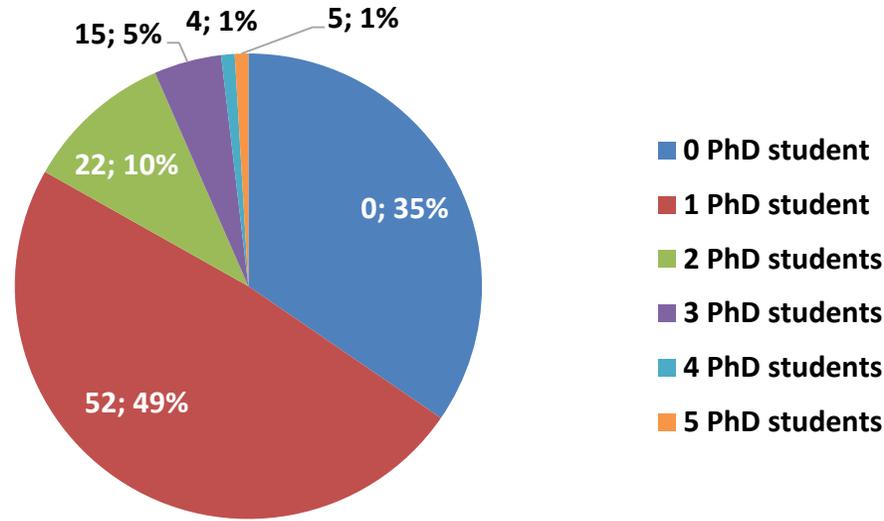
40% of projects involve at least one Slovenian post-doctoral
researcher

Overall, 60% of projects involve at least one Slovenian young researcher

Data from the survey 2024 (20 responses)

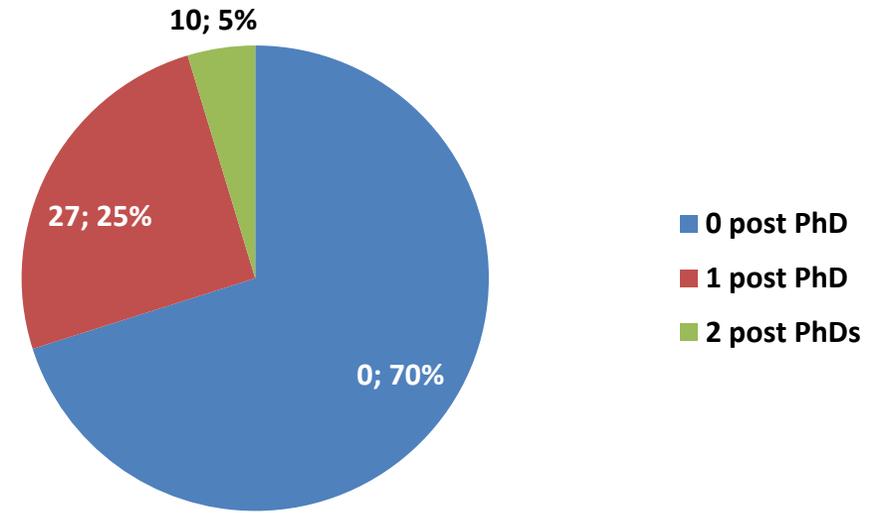
PARTICIPATION OF BOTH FRENCH AND SLOVENIAN YOUNG RESEARCHERS

Number of PhD students



65% of projects involve at least one PhD student

Number of post-doctoral researchers



30% of projects involve at least one post-doctoral researcher

Overall, 75% of projects involve at least one French or Slovenian young researcher

Data from 87 responses (Survey 2020) and 20 responses (Survey 2024)



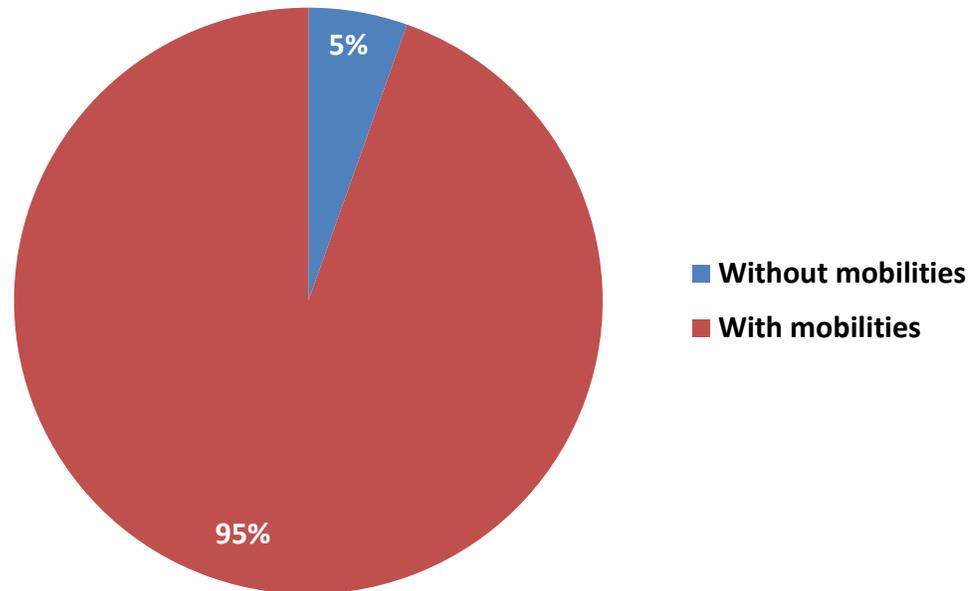
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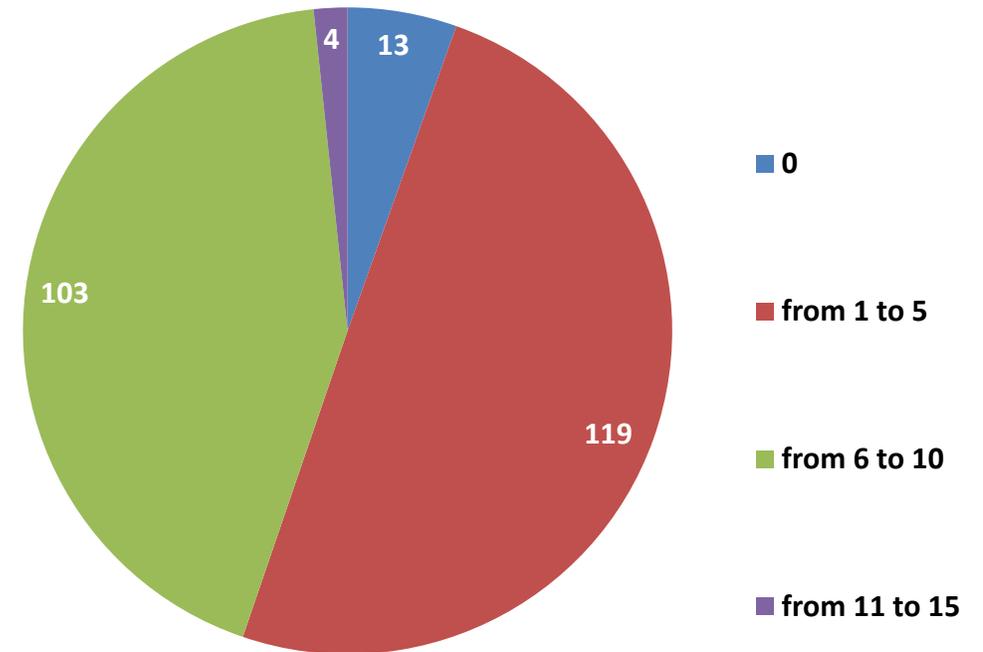
MOBILITY

MOBILITIES (2005-2023)

Projects with/without mobilities



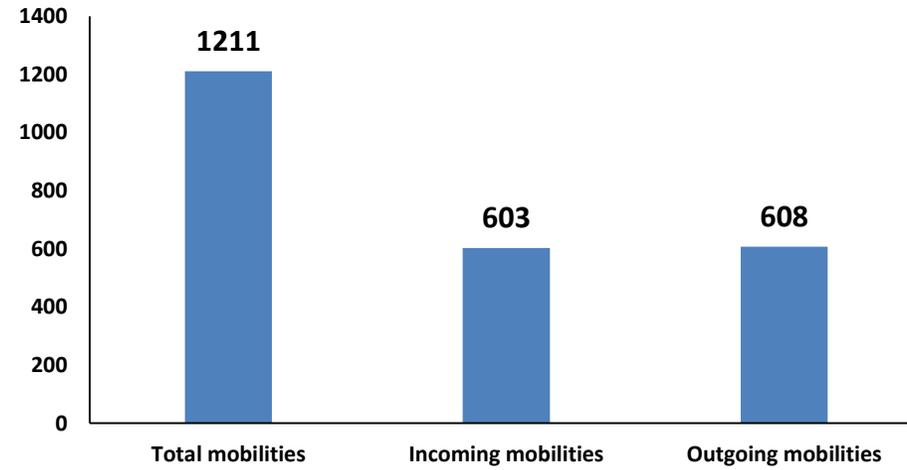
Number of mobilities per project



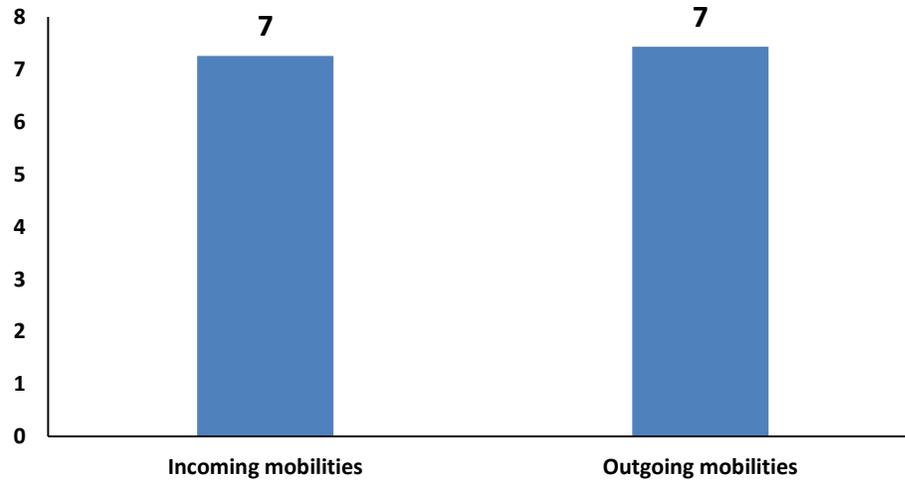
Data from 239 funded projects

MOBILITIES (2005-2023)

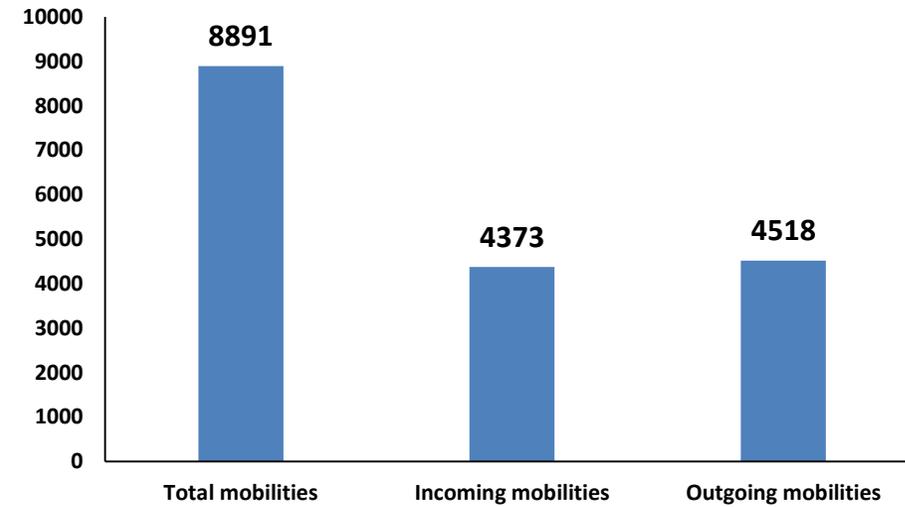
Number of mobilities



Average mobility duration in days

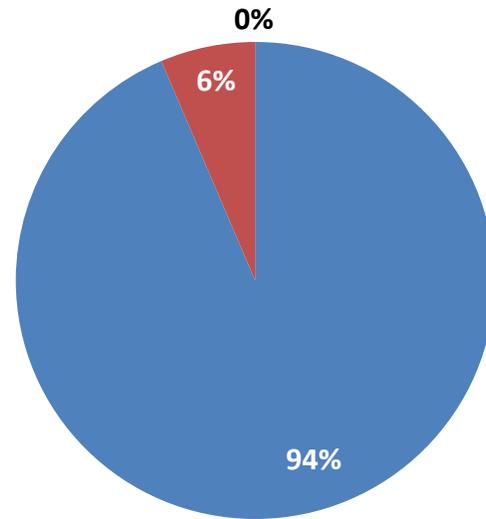


Total duration of mobilities in days

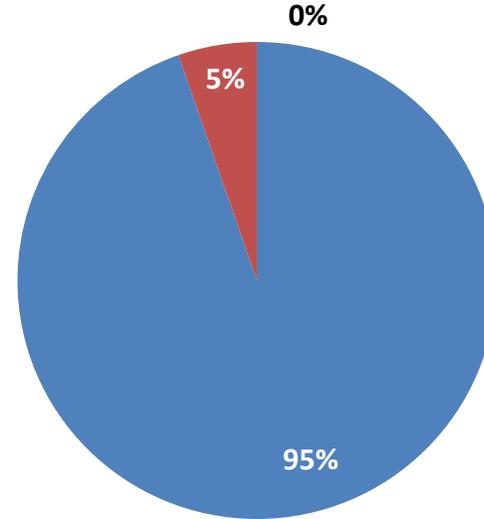


MOBILITY : DURATION (2005-2023)

France → Slovenia



Slovenia → France

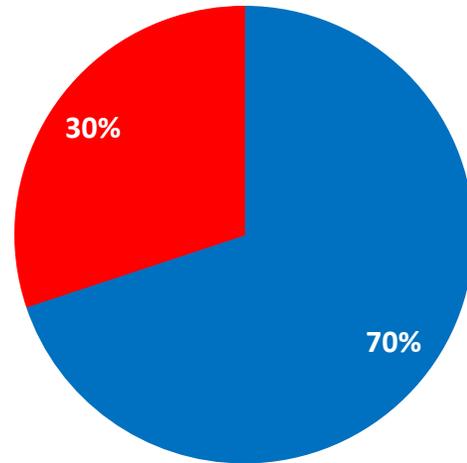


- < 15 days
- between 15 days and 3 months
- > 3 months

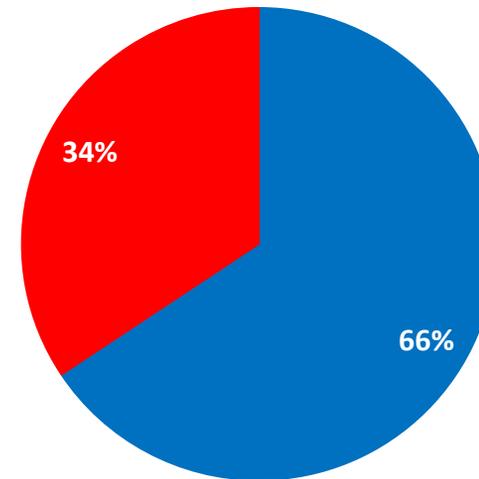
Data from 608 outgoing mobilities and 603 incoming mobilities

MOBILITY : GENDER DISTRIBUTION (2005-2023)

France → Slovenia



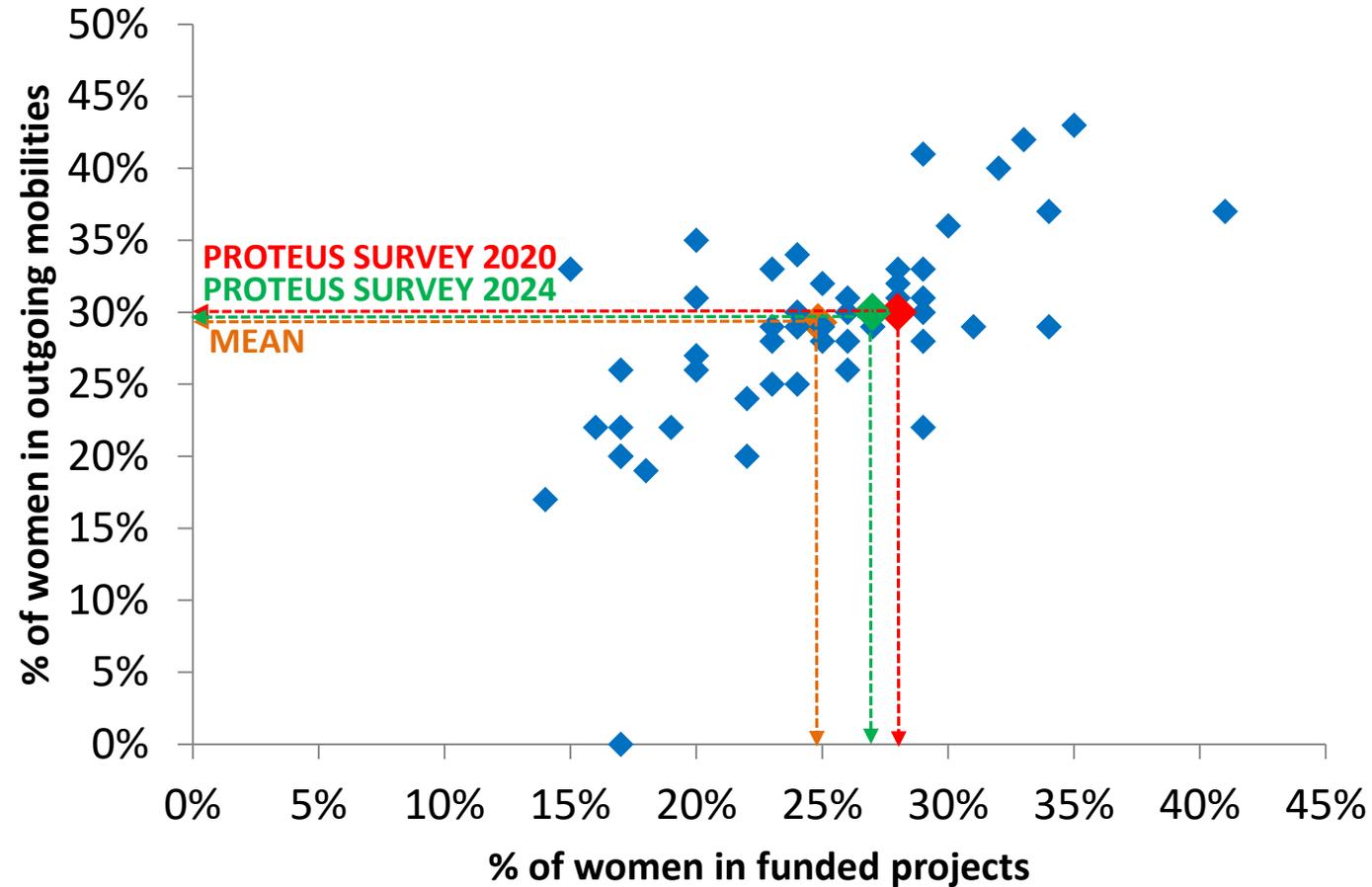
Slovenia → France



■ Men ■ Women

Data from 608 outgoing mobilities and 603 incoming mobilities

WOMEN MOBILITY FRANCE – SLOVENIA (2005-2023)



Data from 239 funded projects and 608 mobilities

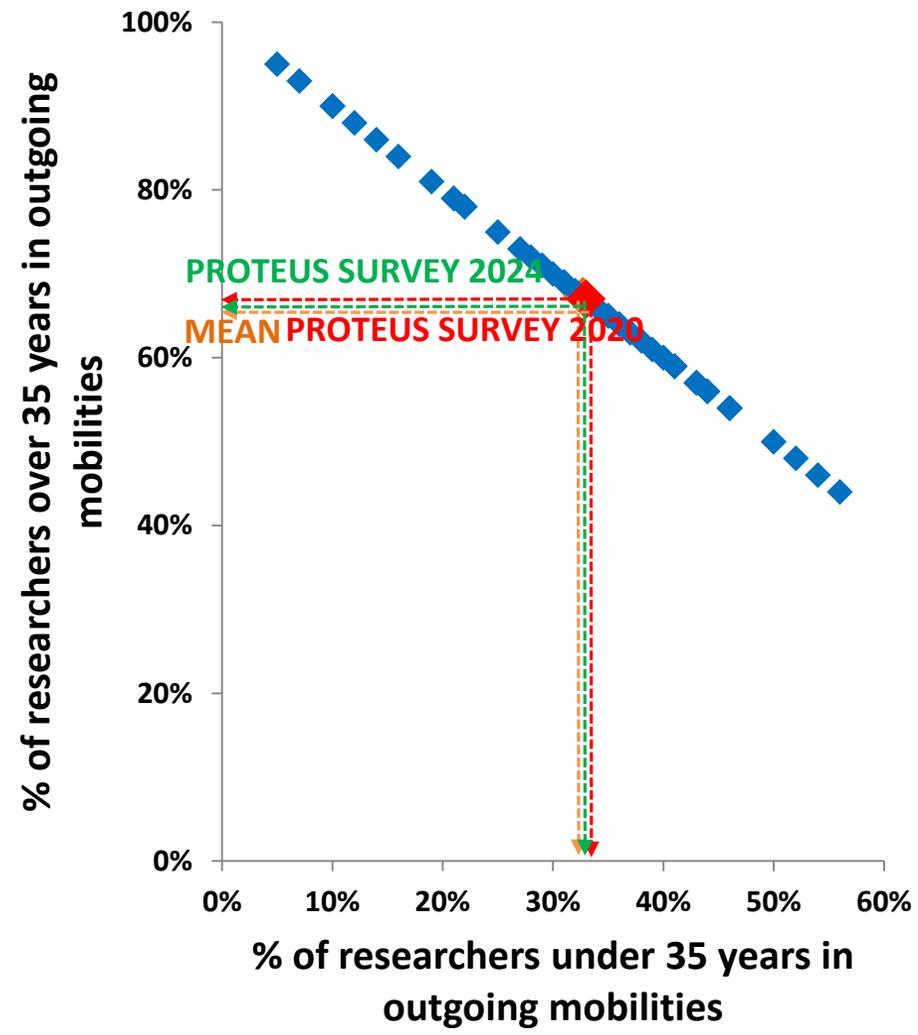
Survey 2020 : 43 programs

Survey 2024 : 53 programs

YOUNG RESEARCHERS MOBILITY FRANCE – SLOVENIA (2005-2023)

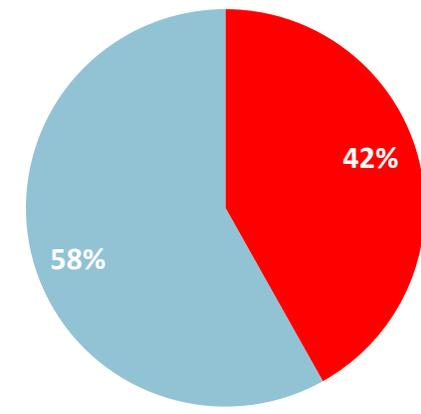
France → Slovenia

Slovenia → France



SURVEY 2020

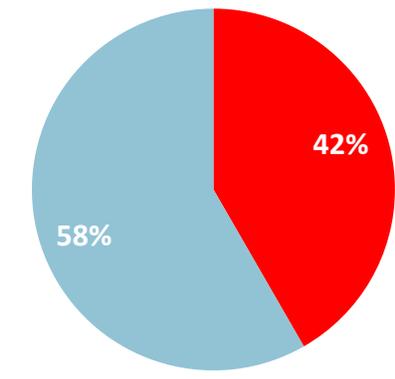
Data from 585 mobilities



■ Junior researchers
■ Senior researchers

SURVEY 2024

Data from 597 mobilities



■ Junior researchers
■ Senior researchers

Survey 2020 : 43 programs
 Survey 2024 : 53 programs



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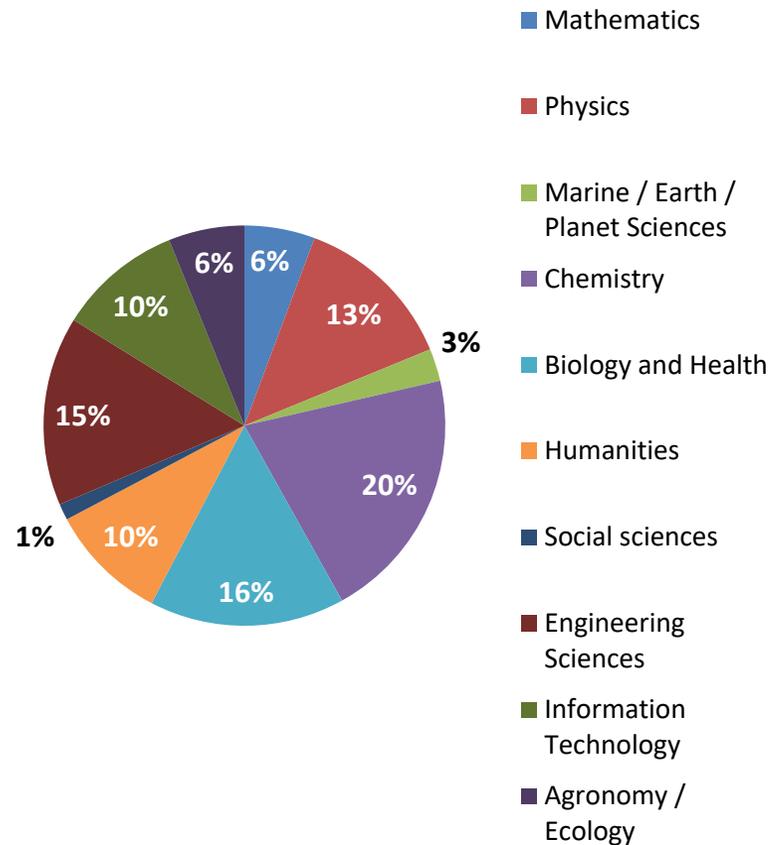
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**SCIENTIFIC
PRODUCTION
(2005-2022)**

SCIENTIFIC PRODUCTION 2005-2022

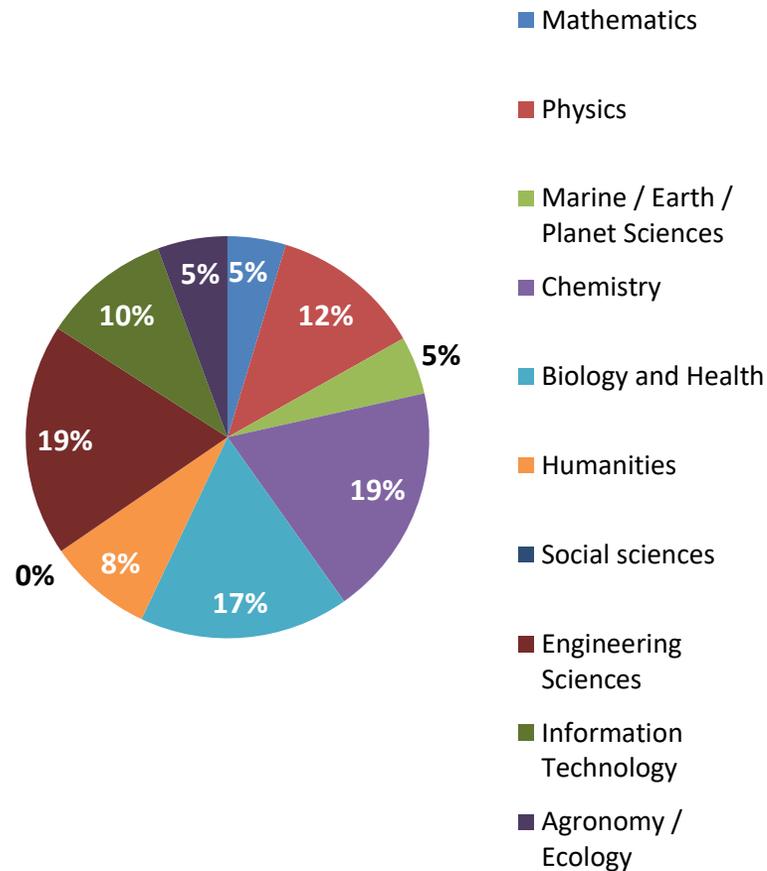
(DATA FROM CAMPUS FRANCE AND THE SURVEYS)

Funded projects 2005-2022



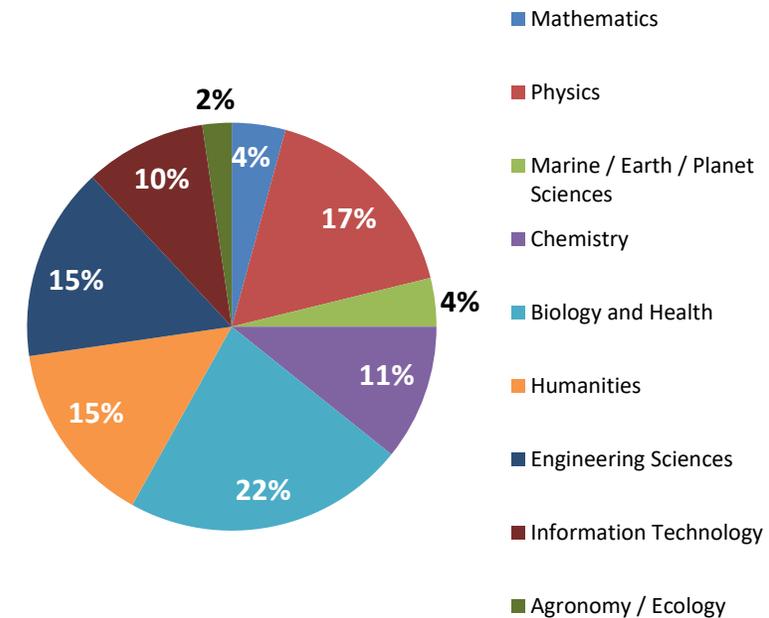
229 funded projects

Responses to the survey 2005-2022



107 responses
No responses for DS7

Coproductions 2005-2022



Analysis of 260 coproductions
No responses for DS7

SCIENTIFIC PRODUCTION (2005-2022)

ENQUETES 2020+2024

	Number of funded projects 2020 survey	Number of funded projects 2020+2024 surveys	Average annual number of scientific coproductions per project 2020 survey	Average annual number of scientific coproductions per project 2020+2024 surveys
Mathematics	4	5	0,8	1,1
Physics	10	13	2,0	1,7
Marine/Earth/Planet Sciences	5	5	1,0	1,0
Chemistry	18	20	0,7	0,7
Biology and Health	14	18	1,9	1,6
Humanities	6	9	1,8	2,1
Social Sciences	No response	No response		
Engineering Sciences	16	20	1,0	1,0
Information Technology	9	11	0,9	1,1
Agronomy / Ecology	5	6	0,6	0,5
TOTAL/MOYENNE	87	107	1,2	1,2

Overall average annual number of scientific coproductions per project 2018 : 1,20 vs 0,96 mean
Overall average annual number of scientific coproductions per project 2020+2024 : 1,20

Enquêtes 2020+2024

68% of funded projects led to at least 1 scientific coproduction (vs 67% survey 2020)

30% of scientific coproductions involve at least 1 young researcher (vs 30% survey 2020)

The average annual rate of publication of young researchers implicated in the projects is **0,29** (not available survey 2020)

The average annual rate of young researchers implicated in the scientific coproductions is **0,79** (not available survey 2020)

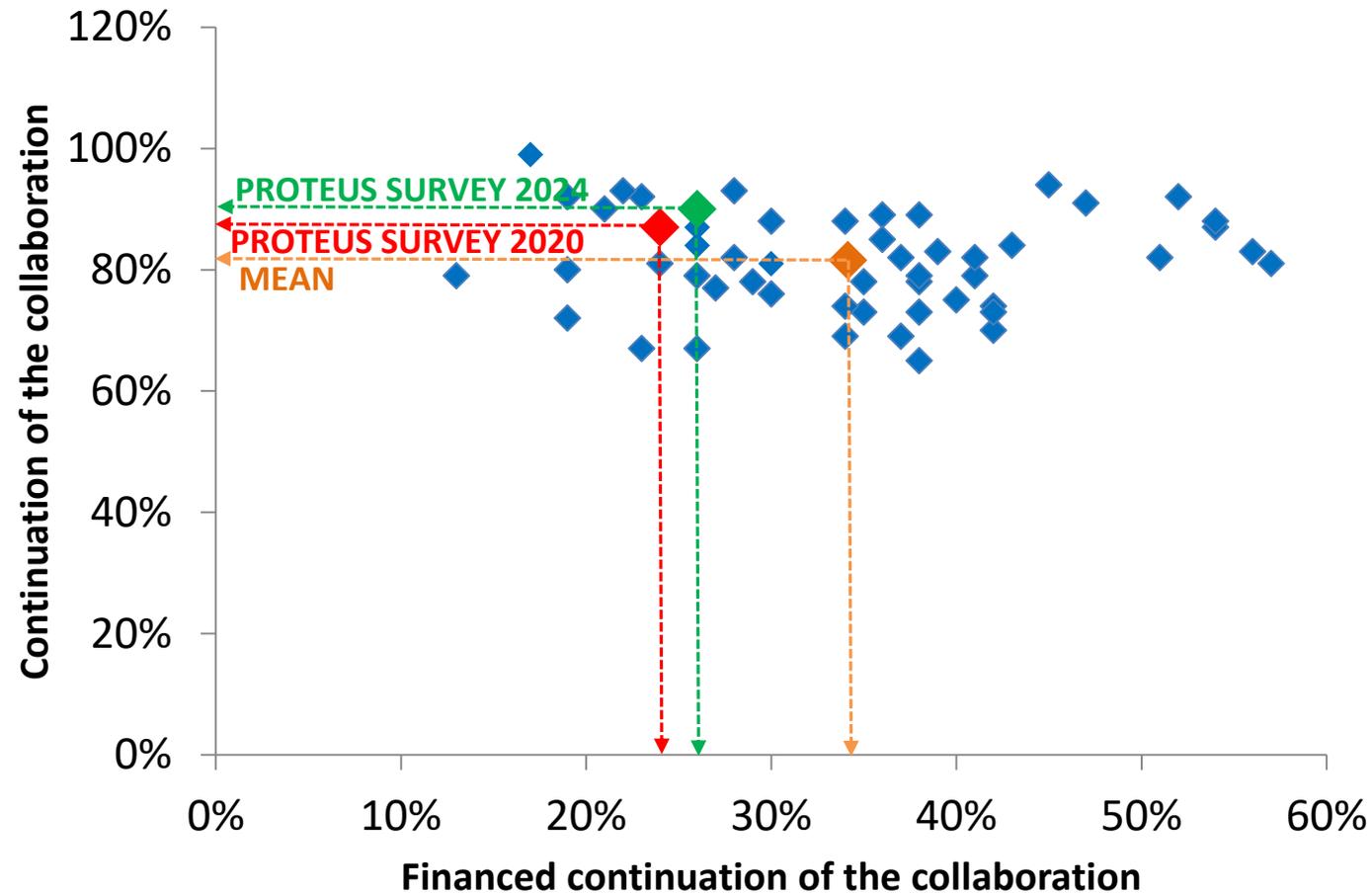


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WHAT HAPPENS AFTER A PROTEUS PROJECT ?

CONTINUATION OF THE COOPERATION



Data from 105 responses (continuation) and 92 responses (financing)

Survey 2020 : 43 programs

Survey 2024 : 53 programs

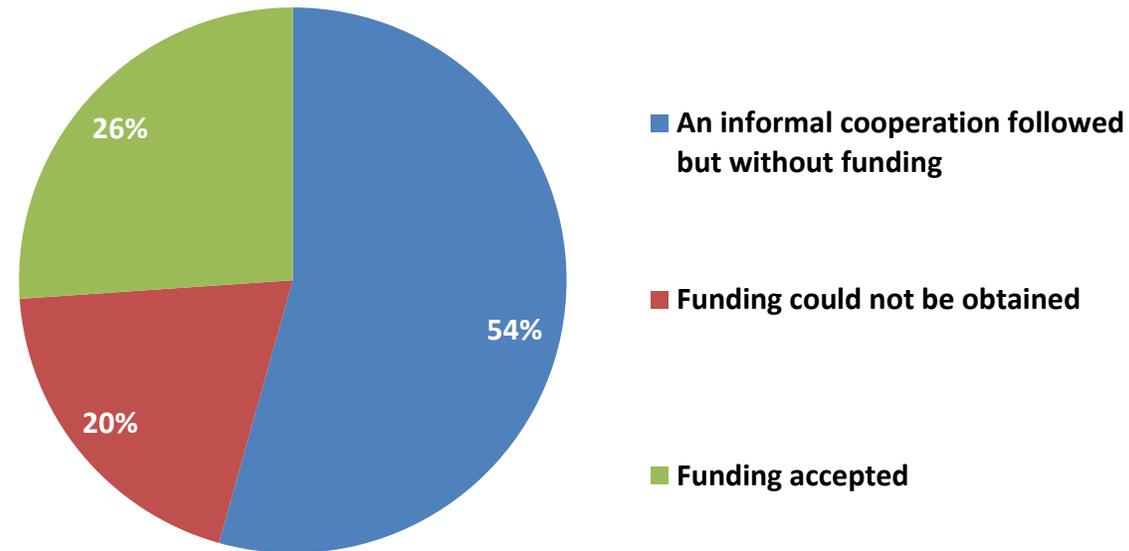
CONTINUATION OF THE COOPERATION

90% of the cooperations continued after the PROTEUS project

Which activities?	
Cooperative research	69%
Scientific co-productions	60%
Researchers mobilities	52%
Joint participation to conferences	48%
PhD mobilities	24%
Co-organisation of scientific events	15%
Joint participation to PhD thesis	8%
Joint diplomas (Master, PhD...)	1%
Other	14%

CONTINUATION OF THE COOPERATION

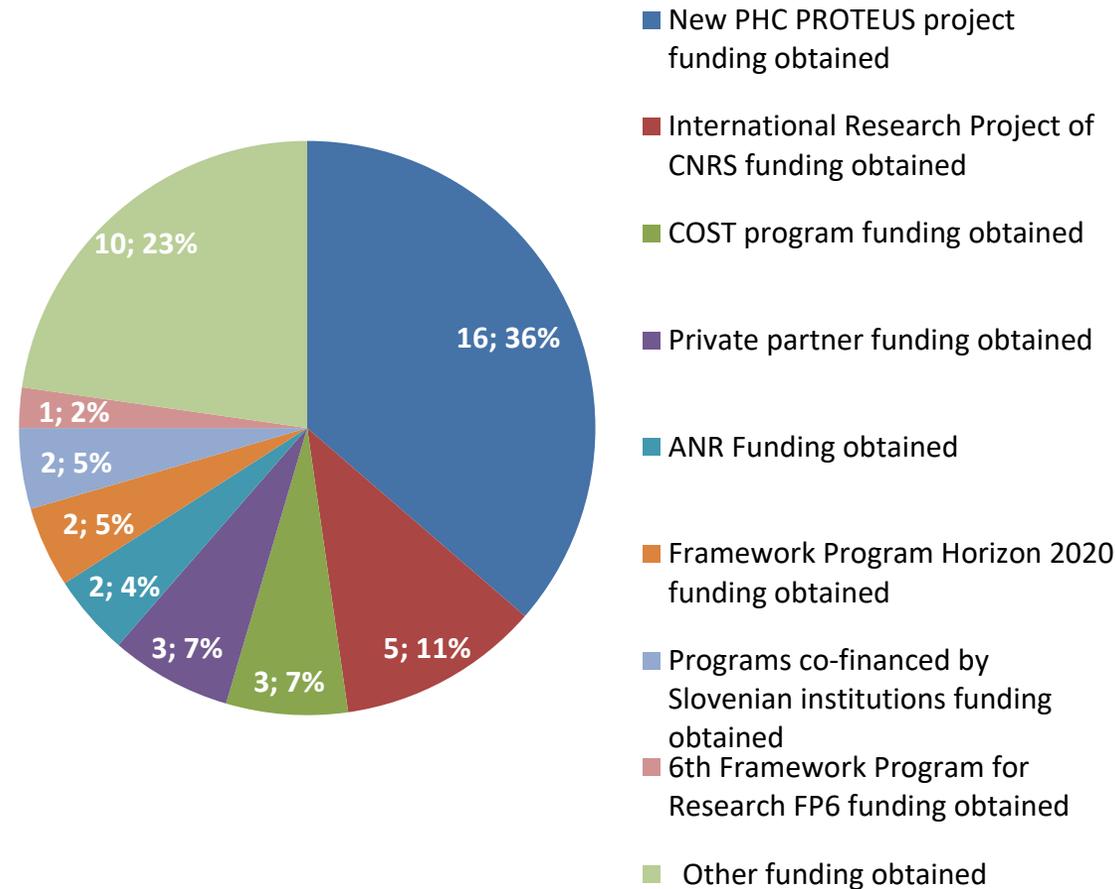
26% of cooperations have been funded following the project



Data from 92 responses

CONTINUATION OF THE COOPERATION

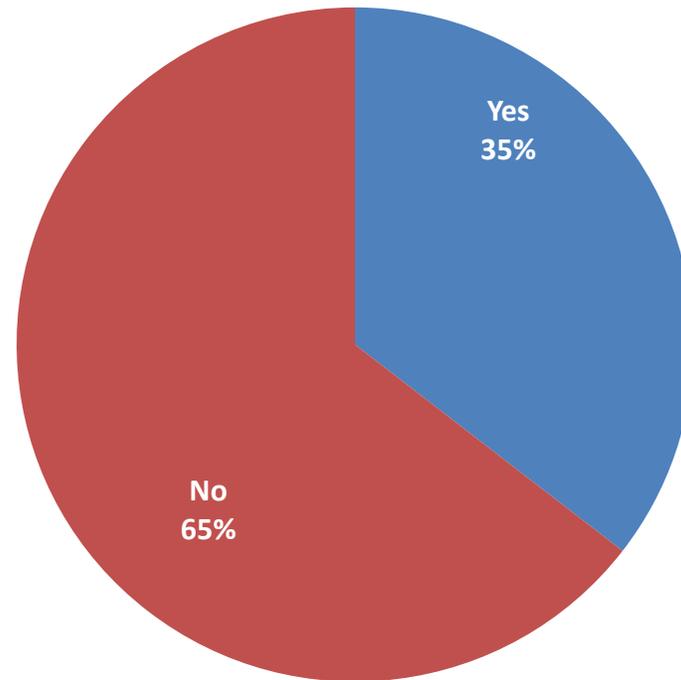
What kind of funded collaborations after the PHC PROTEUS project ?



Data from 53 responses

CONTINUATION OF THE COOPERATION

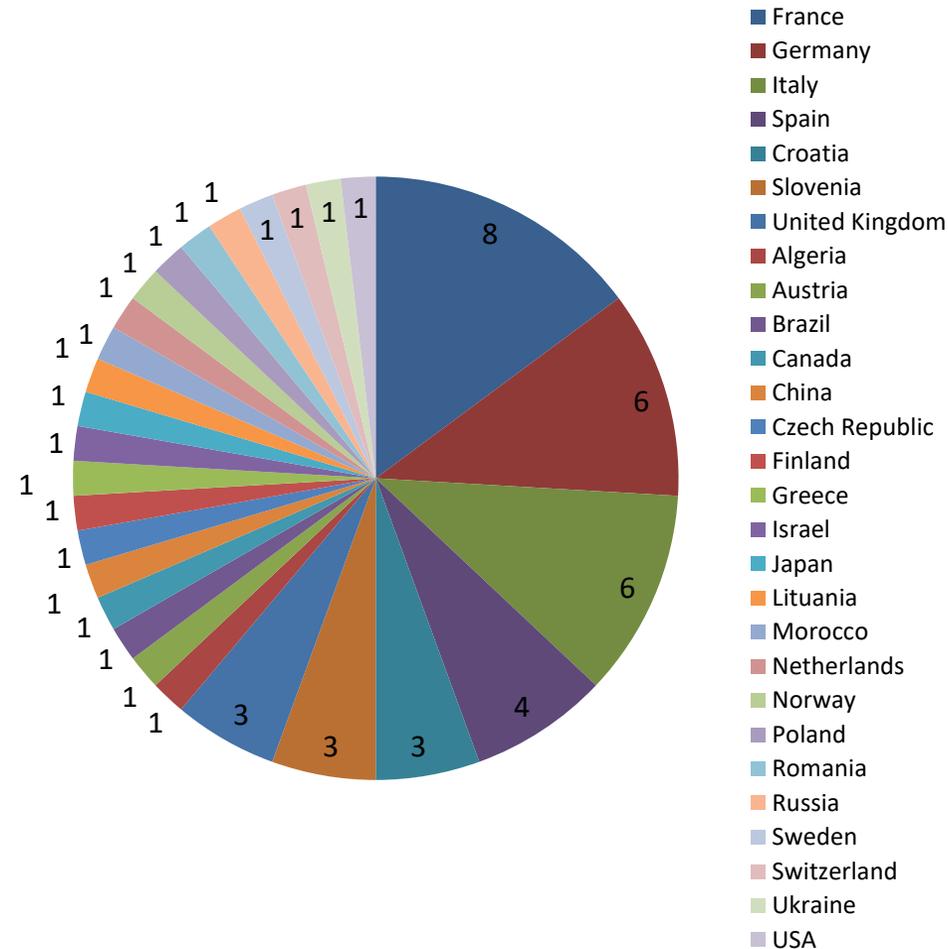
Has the French-Slovenian cooperation involved new partners?



Data from 93 responses

CONTINUATION OF THE COOPERATION

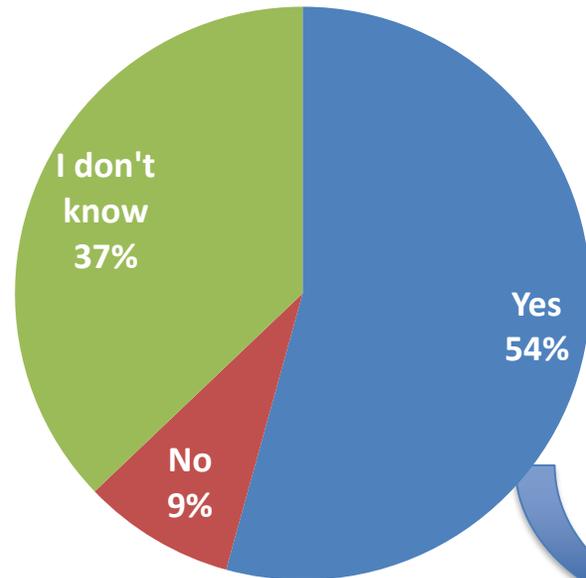
If the French-Slovenian cooperation involves new partners, list with which countries



Data from 33 responses

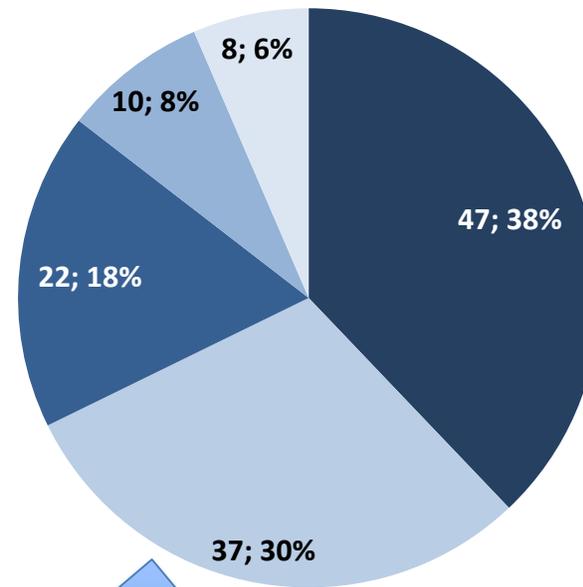
IMPACT ON YOUNG RESEARCHERS' CAREER

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



Data from 105 responses

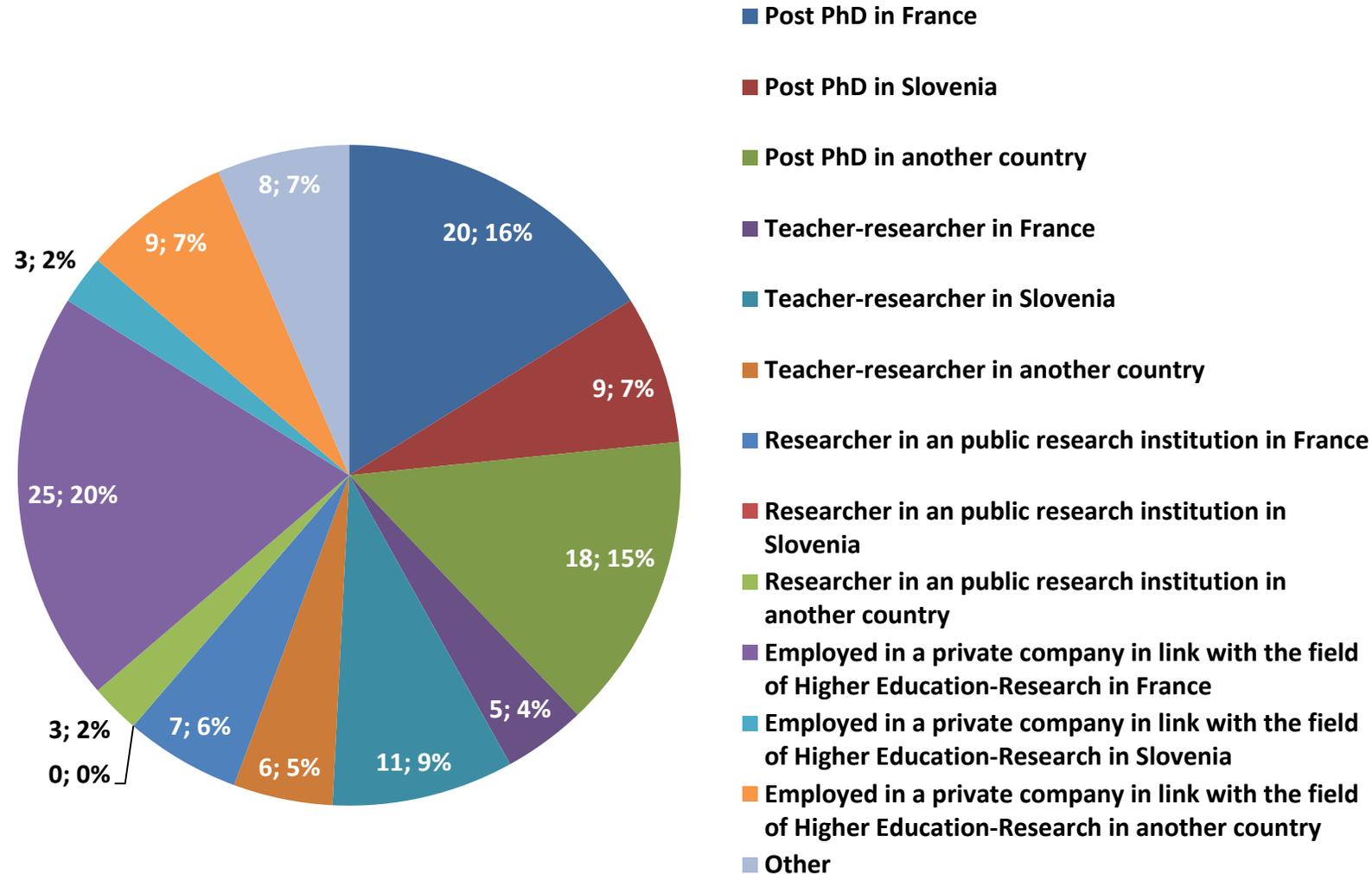
Type of impacts



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

Data from 64 positive responses for a total of 124 young researchers

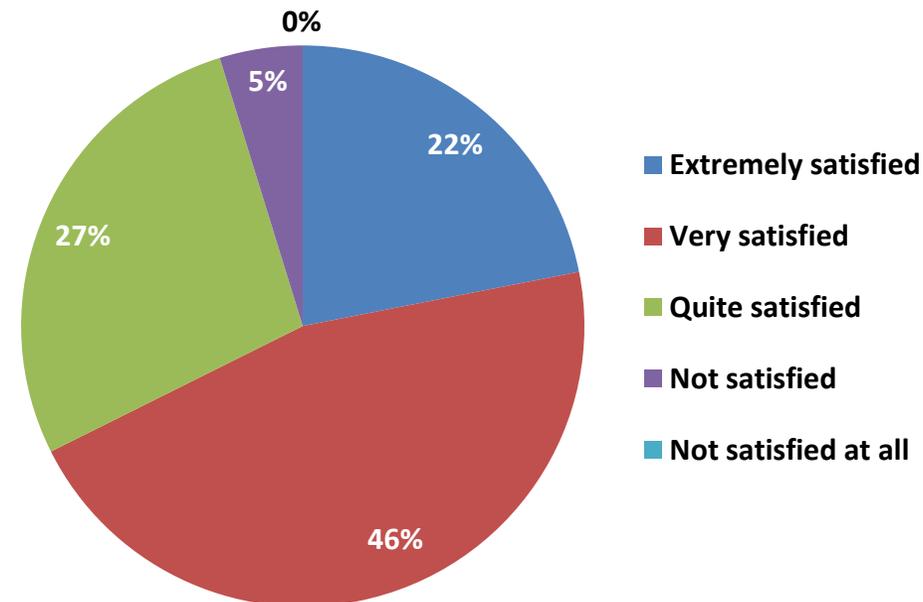
IMPACT ON YOUNG RESEARCHERS' CAREER



Data from 64 positive responses for a total of 124 young researchers

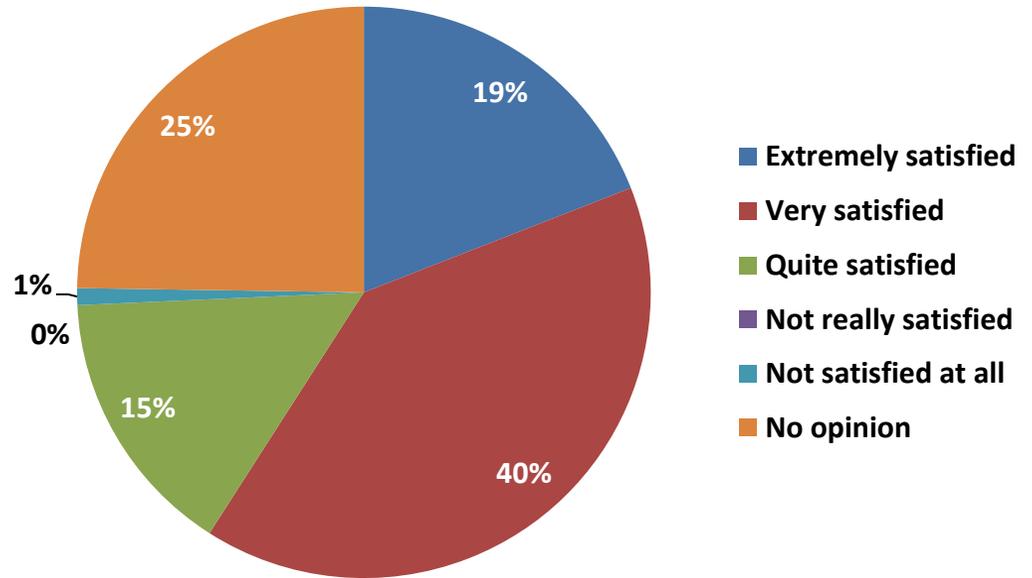
GENERAL OPINION OF FRENCH PRINCIPAL INVESTIGATORS ON THE PROGRAM

95% of French principal investigators are satisfied



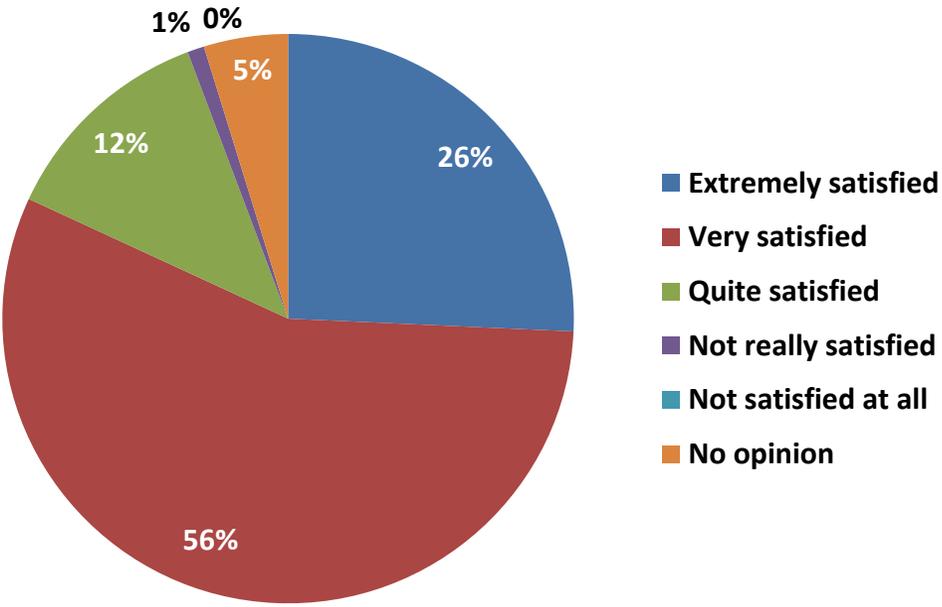
Data from 105 responses

OPINION OF FRENCH PRINCIPAL INVESTIGATORS ABOUT FRENCH EMBASSY HELP



Data from 105 responses

OPINION OF FRENCH PRINCIPAL INVESTIGATORS ABOUT ADMINISTRATIVE MANAGEMENT



Data from 105 responses

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

POSITIVE COMMENTS



Strengths of this program	Number of occurrences (out of 578)	% of funded projects
Fostering researchers' mobility	88	82%
Fostering an international research cooperation	77	72%
Simplicity of the project application process	66	62%
Fostering exchanges enabling scientific production	62	58%
Fostering the training of young researchers	57	53%
Easy implementation (administrative flexibility)	48	45%
Financial autonomy towards your institution (survey 2 only)	8	40%
Helping to know the partner country	37	35%
Good scientific-added value on financial investment	34	32%
Sufficient financial means for the mobility costs	24	22%
Timetable for implementation (survey 2 only)	4	20%
Helpful to initiate other fundraising	21	20%
Sufficiently long duration of the projects	20	19%
Sufficient amount of mobility time given to collaborate	19	18%
Transparency of the selection process	10	9%
Flexibility of the programme for actions co-financed with the Slovenian partner (survey 2 only)	0	0%
Other (survey 1 only)	3	3%
<i>Total number of occurrences</i>	578	

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

NEGATIVE COMMENTS



Weaknesses of this program	Number of occurrences (out of 297)	% of funded projects
Insufficient financial means to cover a project	53	50%
Length of support too short	41	38%
Financial means insufficient for the expenditure of mobility (transport)	36	34%
Financial means insufficient for the expenditure of mobility (per diem)	28	26%
Difficult to continue the cooperation	28	26%
Lack of transparency in the selection process	26	24%
Too short duration of mobilities	26	24%
Insufficient communication on the evaluation's results	18	17%
Heaviness of the process of applications	14	13%
Too low number of mobilities	10	9%
Flexibility of the programme for actions co-financed with the partner (survey 2 only)	1	5%
Financial autonomy towards your institution (survey 2 only)	1	5%
Timetable for implementation (survey 2 only)	1	5%
Administrative heaviness of the missions management	5	5%
Too long duration of mobilities	3	3%
Other (survey 1 only)	6	7%
<i>Total number of occurrences</i>	297	

PRELIMINARY CONCLUSIONS

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

Implication of young researchers laureates (30%) better than the general mean (23%)

Implication of women laureates (27%) better than the general mean (24%)

75% of funded projects with the participation of at least one french or slovenian young researcher

Average annual scientific coproductions per project better than the average of the other programs (1,2 vs 0,96)

Rather good rate of average annual publications for young researchers involved in the scientific coproductions (0,79)

Continuation of the cooperation (90%) better than the general mean (82%) (but only 26% with new fundings versus 34% for the general mean)

Only 31% of new cooperations (mean of all programs : 44%)

62% of the cooperations with the same previous slovenian partner (mean of all programs : 46%)

This ongoing cooperation is financed by a new PROTEUS funding for 44% of the Pis (mean of all programs : 21%)

32% of the projects with no scientific coproduction

Only 37% of french and slovenian 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 (0,29)



COMPARISON SURVEY 2020 (2005-2018) – SURVEY 2024 (2019-2022)

- **Response rate : 2020 : 59% (86 responses), 2024 : 51% (20 responses)**
- **Stability in the average annual number of applications (survey 1 : 35, survey 2 : 34)**
- **Stability in the number of selected projects carried by young researchers (32% vs 30%)**
- **Stability in the number of women applicants (25% vs 25%) and laureates (28% vs 27%)**
- **Better participation of young french researchers to the projects (+18%) but apparent decrease for their involvement in the scientific coproductions (-8%)**
- **Stability in the outgoing mobilities of french young researchers (33%) and the incoming mobilities of slovenian young researchers (42%)**
- **Stability in the outgoing mobilities for women researchers (30%)**
- **Stability in the average annual number of scientific coproductions per project (1,2)**
- **Small increase of the continuation of cooperations (+3%)**
- **Small increase in the continuation of cooperations with financing (+2%)**

PRELIMINARY RECOMMANDATIONS

- **Encourage new cooperations (only 31% of cooperations with a new partner)**
- **Enhance scientific coproductions (from the surveys : 32% of projects with no scientific coproduction)**
- **Increase the participation of young researchers to the scientific coproductions (only 30% of the scientific coproductions involve at least one young researcher)**
- **Promote both outgoing (33%) and incoming (42%) 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**

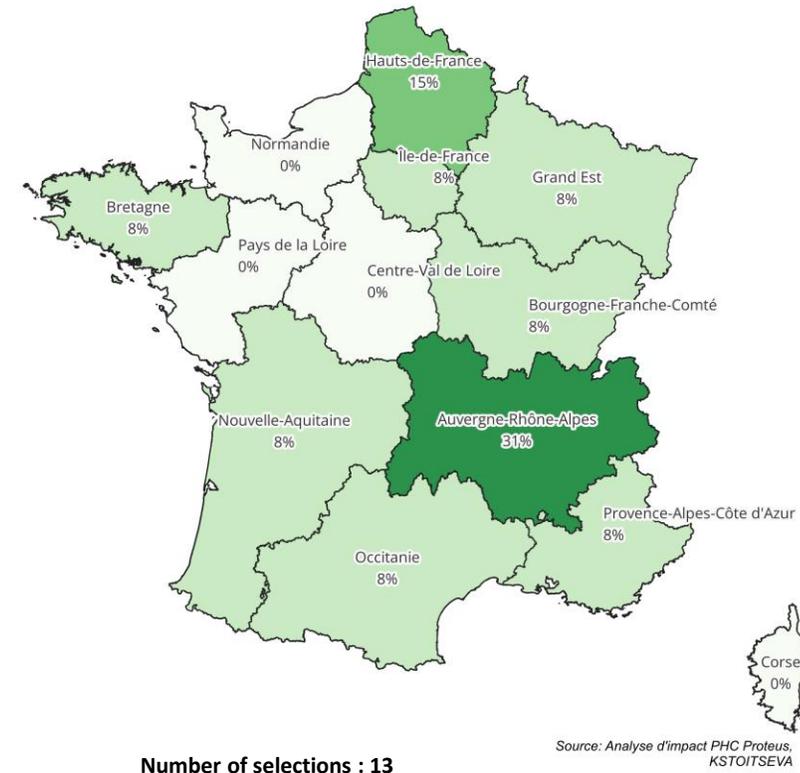
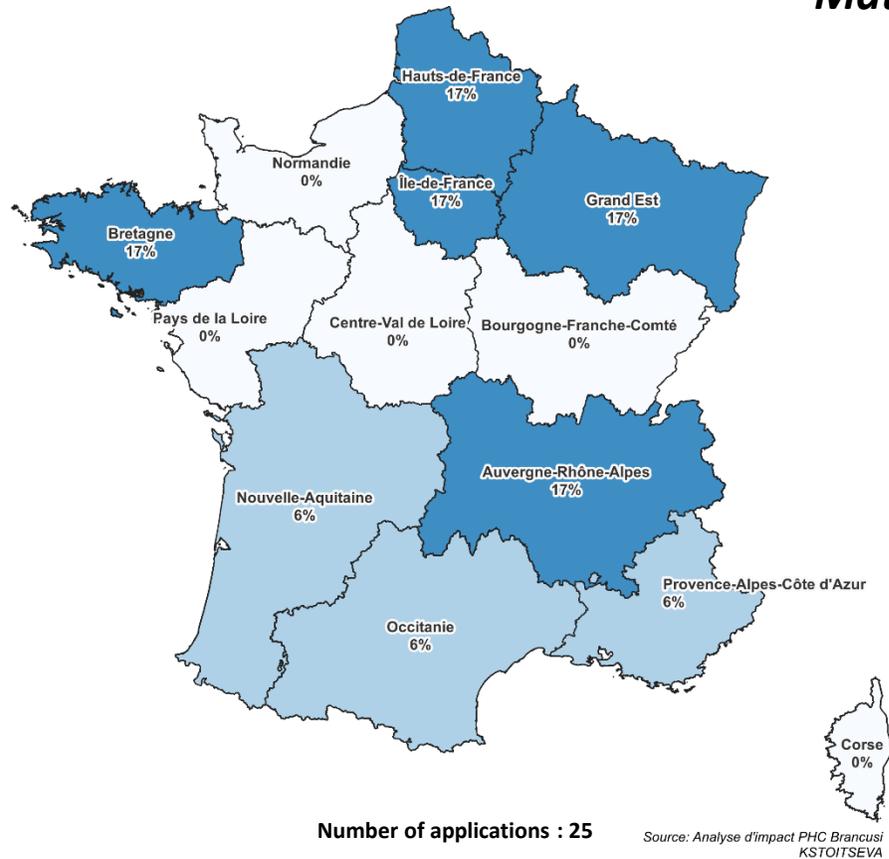
*Liberté
Égalité
Fraternité*

ANNEX REGIONALISATION AND SCIENTIFIC DOMAINS (CARTOGRAPHIES)

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2005-2023)

PHC PROTEUS

Regional percentages of applications and selections *Mathematics 2005-2023*



Nine regions are concerned both for applications and selections. Auvergne-Rhône-Alpes is ahead.

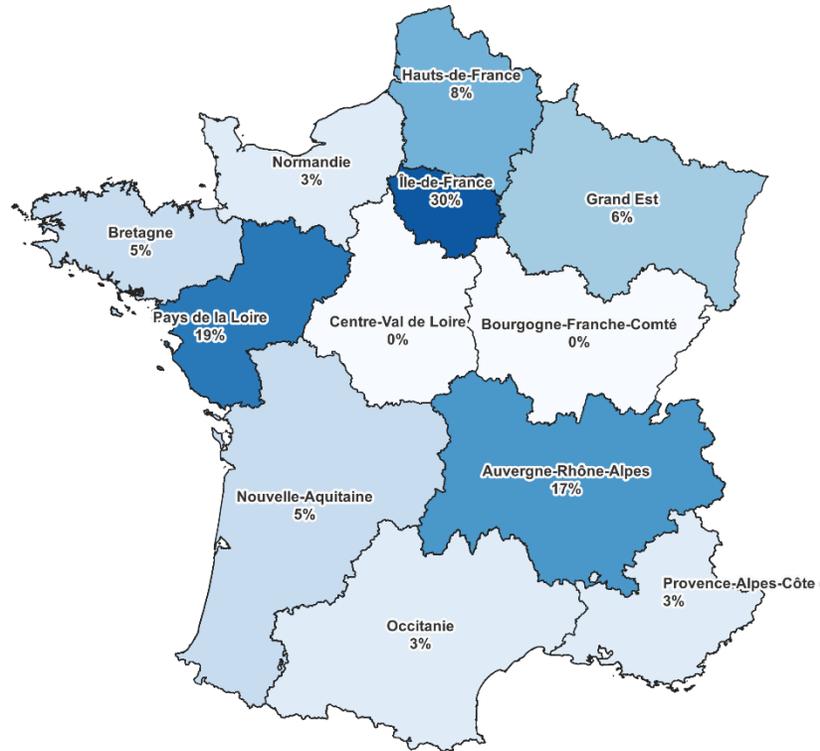
% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN

REGIONAL DISTRIBUTION OF SELECTED PROJECTS (2005-2023)

PHC PROTEUS

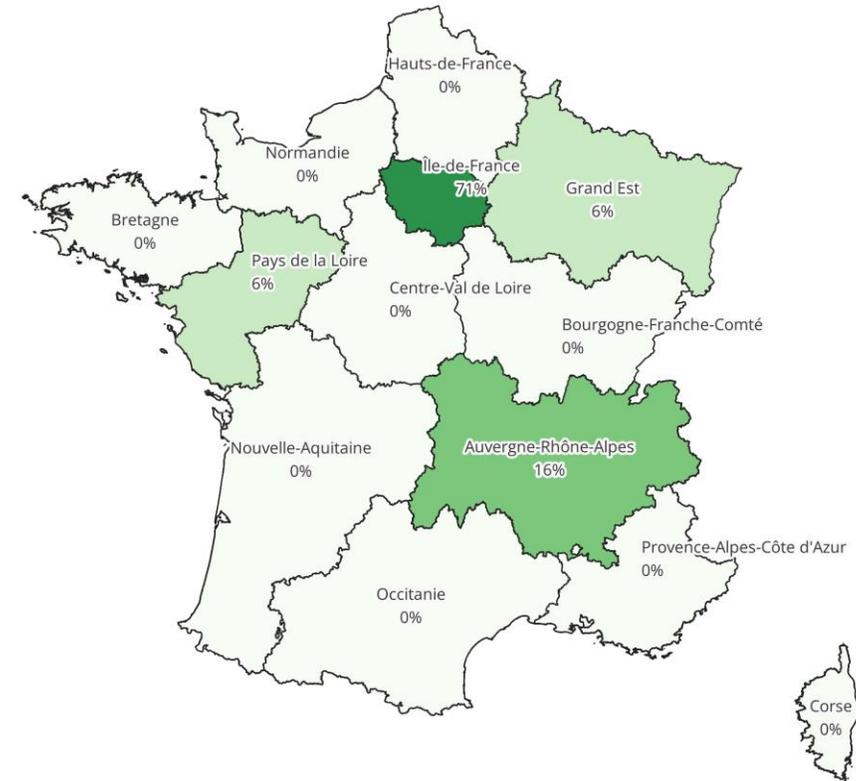
Regional percentages of applications and selections

Physics 2005-2023



Number of applications : 75

Source: Analyse d'impact PHC KS1



Number of selections : 31

Source: Analyse d'impact PHC Proteus, KSTOITSEVA

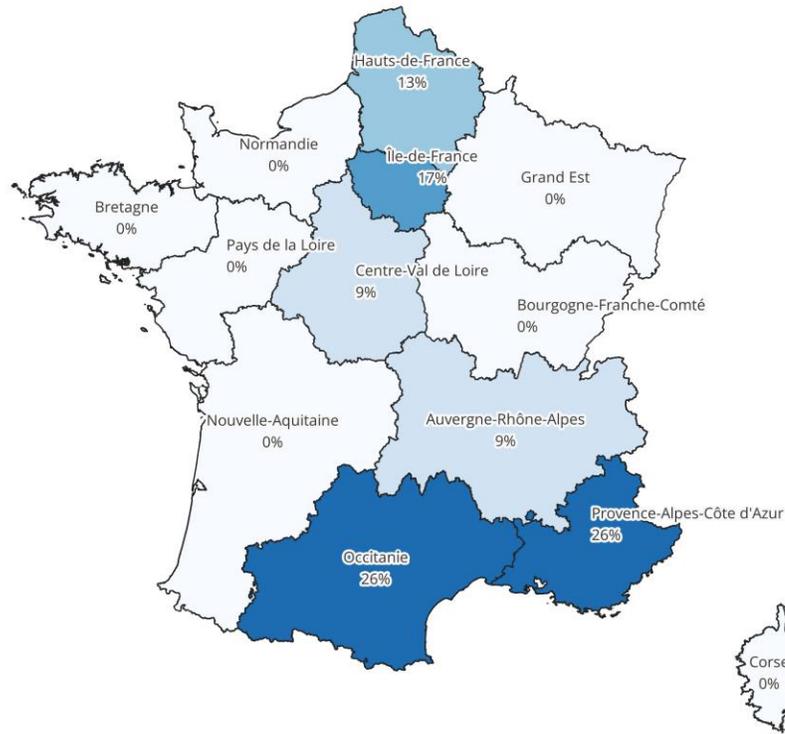
Six regions are concerned for applications with Ile-de-France ahead but only four benefit selections (with Ile-de-France still ahead)

% 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 (2005-2023)

PHC PROTEUS

Regional percentages of applications and selections *Marine, Earth, Planet Sciences 2005-2023*



Number of applications : 23

Source: Analyse d'impact PHC Proteus, KSTOITSEVA



Number of selections : 7

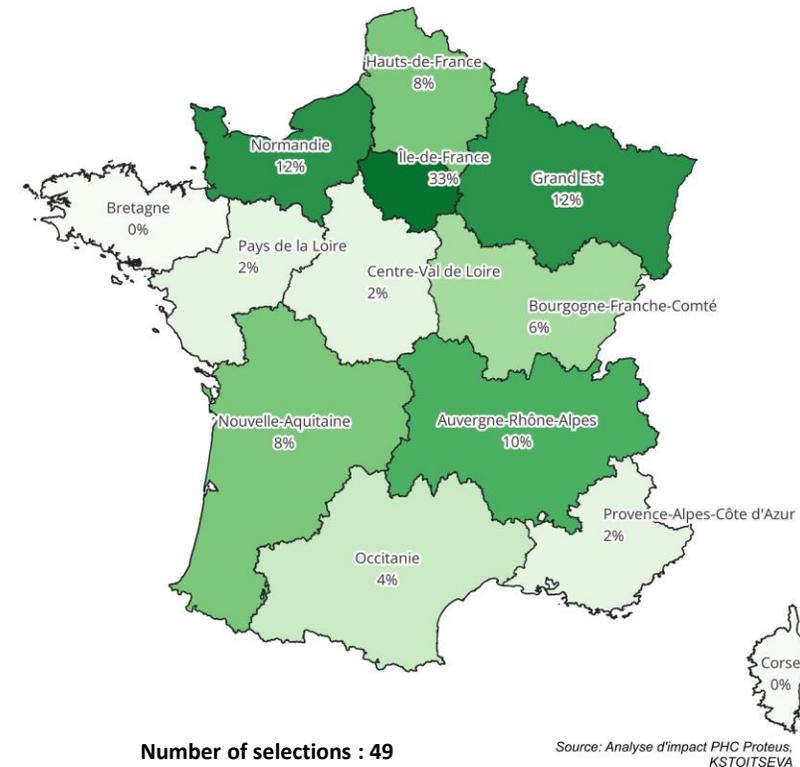
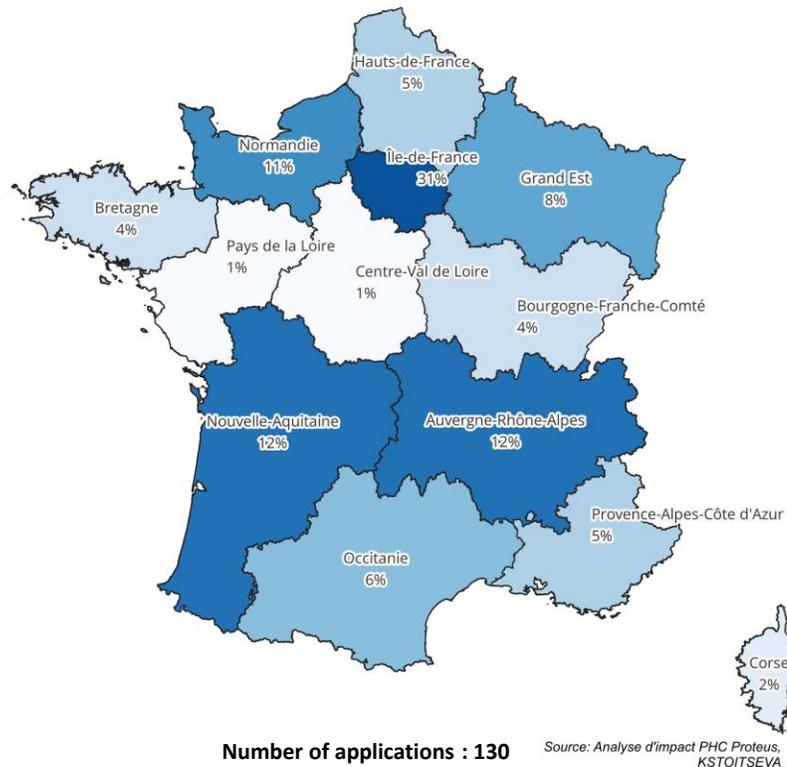
Source: Analyse d'impact PHC Proteus, KSTOITSEVA

Six regions are concerned for applications but only three benefit selections (with Occitanie 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 (2005-2023)

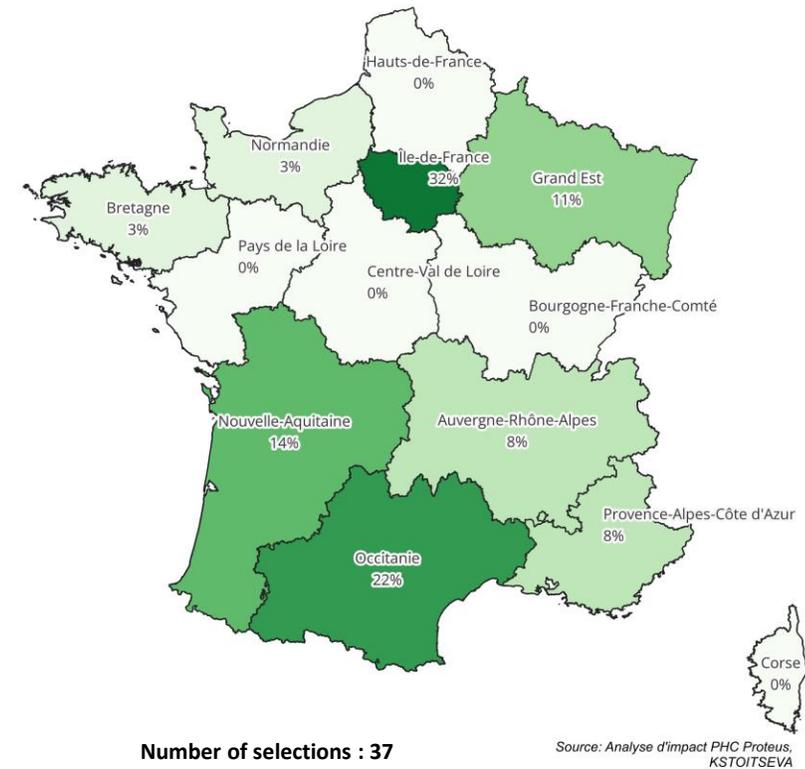
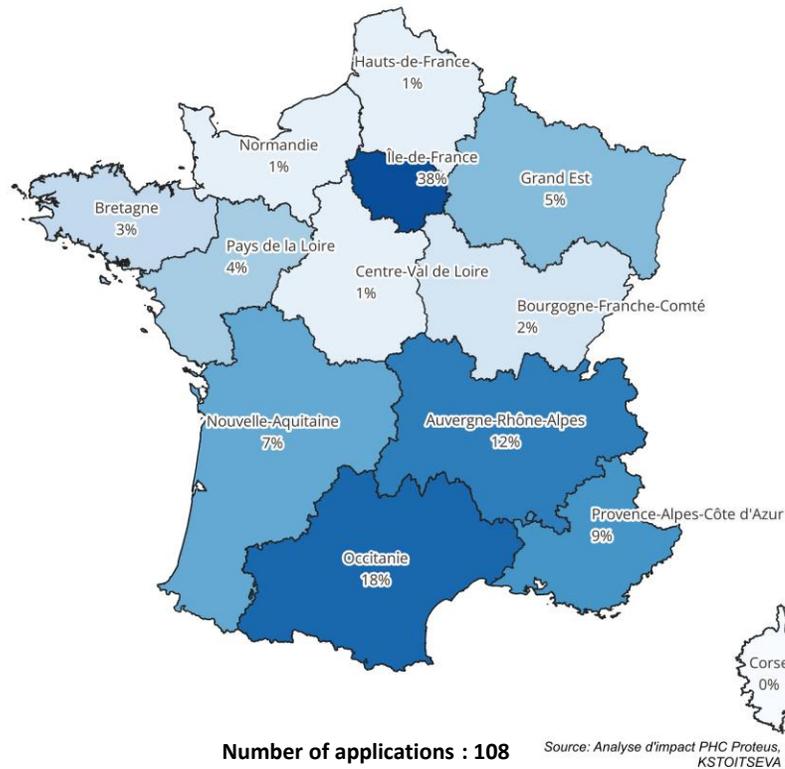
PHC PROTEUS Regional percentages of applications and selections *Chemistry 2005-2023*



Thirteen regions are concerned for applications with Ile-de-France ahead both for applications and 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 (2005-2023)

PHC PROTEUS Regional percentages of applications and selections *Biology and Health 2005-2023*

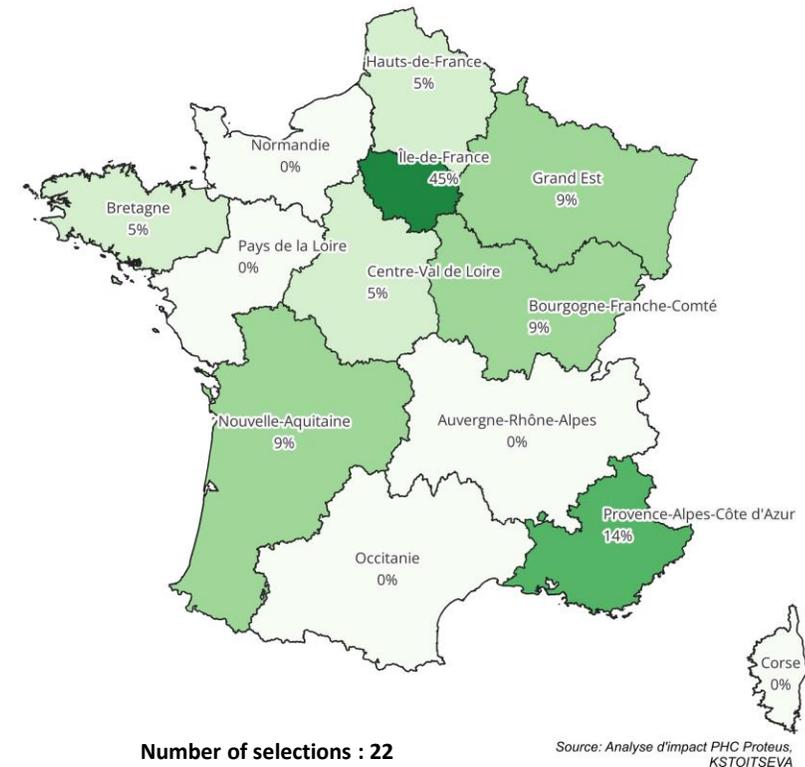
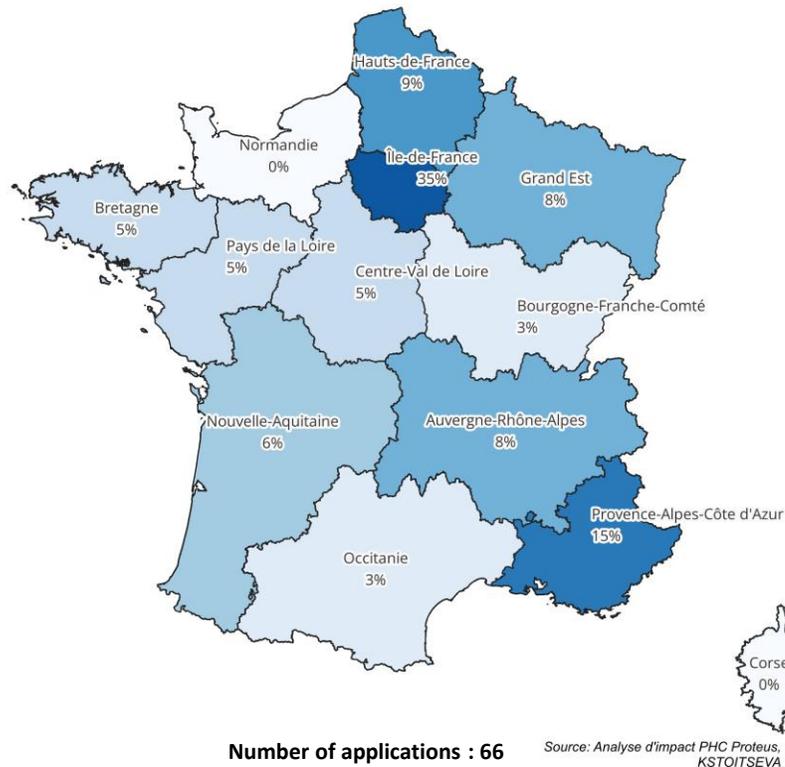


Twelve regions are concerned for applications with Ile-de-France ahead but only eight benefit selections (with Ile-de-France still ahead)

% 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 (2005-2023)

PHC PROTEUS Regional percentages of applications and selections *Humanities 2005-2023*

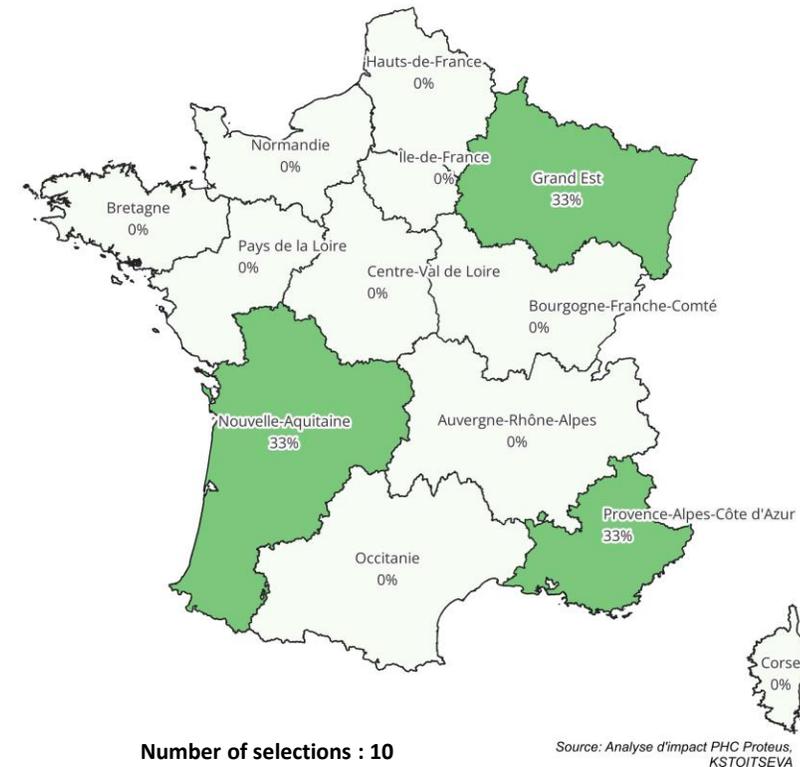
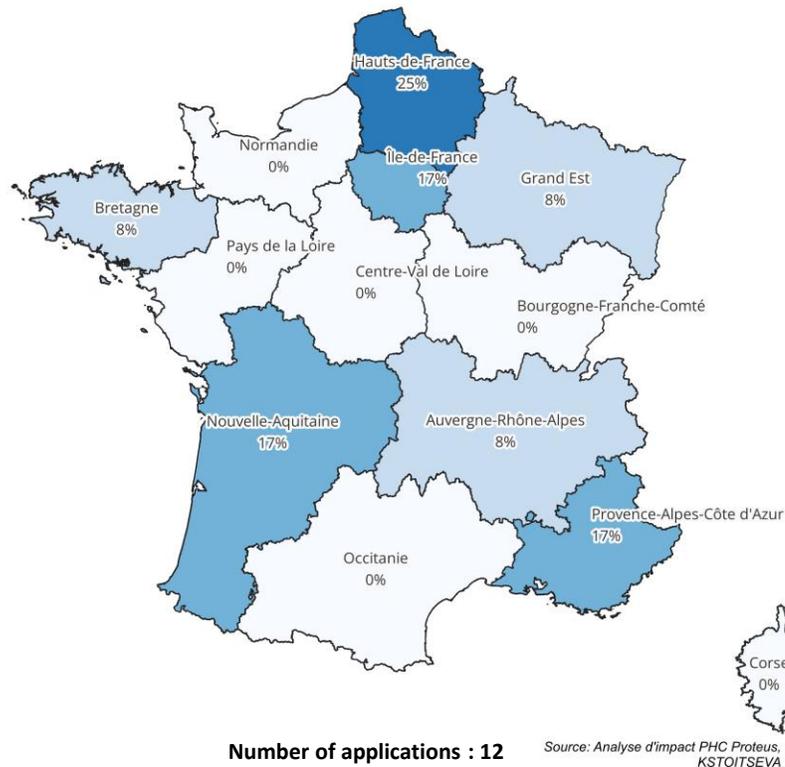


Eleven regions are concerned for applications with Ile-de-France ahead but only eight benefit selections (with Ile-de-France still ahead)

% 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 (2005-2023)

PHC PROTEUS Regional percentages of applications and selections *Social Sciences 2005-2023*

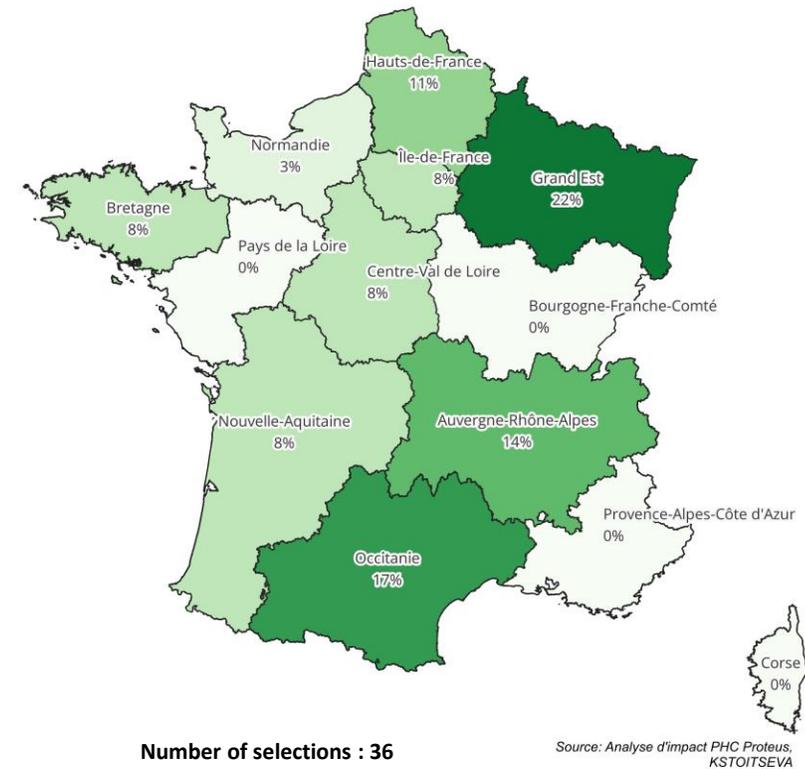
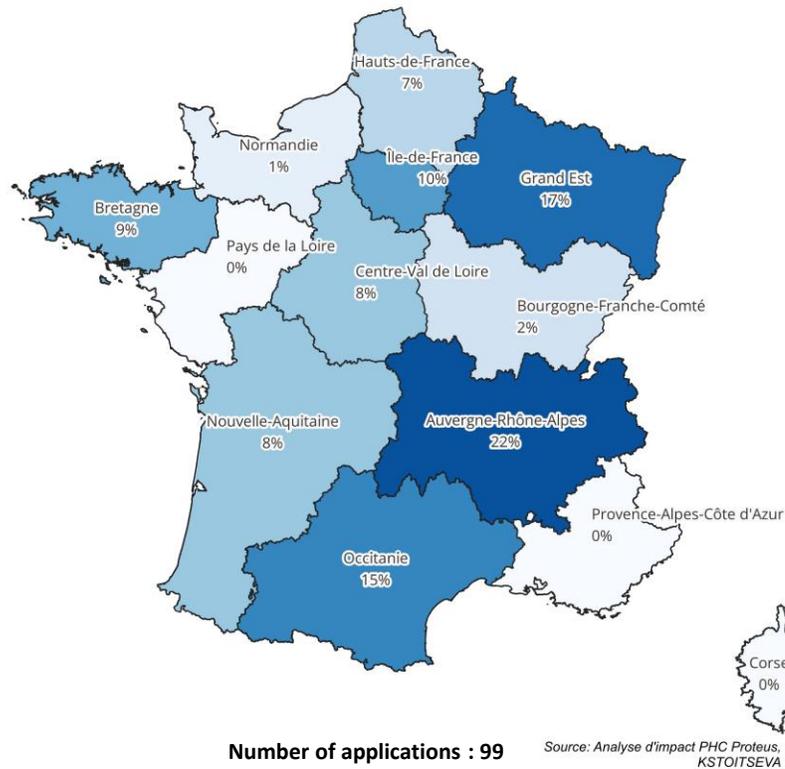


**Seven regions are concerned for applications with Hauts-de-France ahead but only three benefit selections
(Grand Est, Nouvelle Aquitaine, Provence-Alpes-Côte d'Azur)**

**% 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 (2005-2023)

PHC PROTEUS Regional percentages of applications and selections *Engineering Sciences 2005-2023*

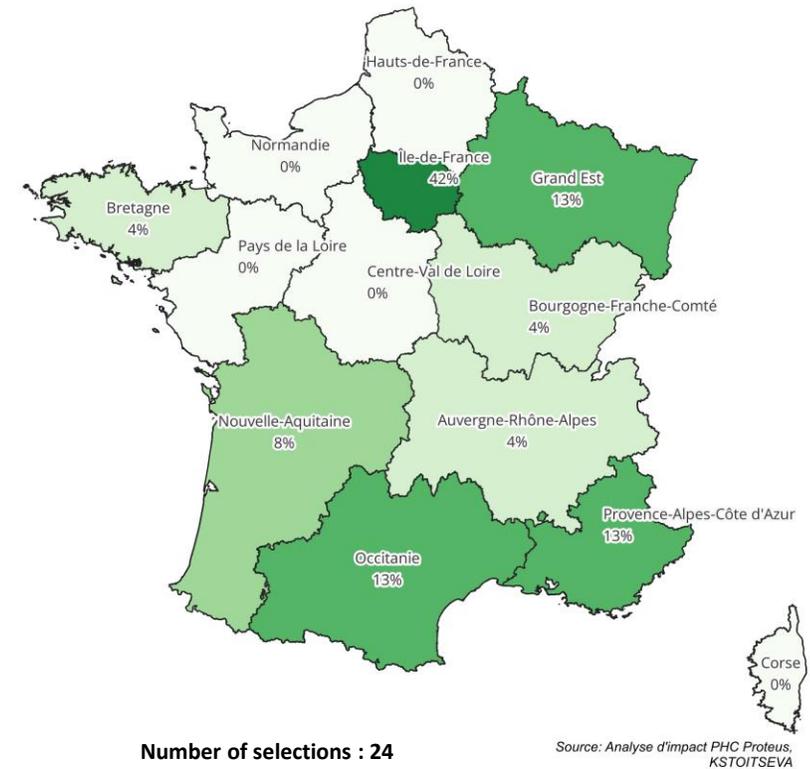
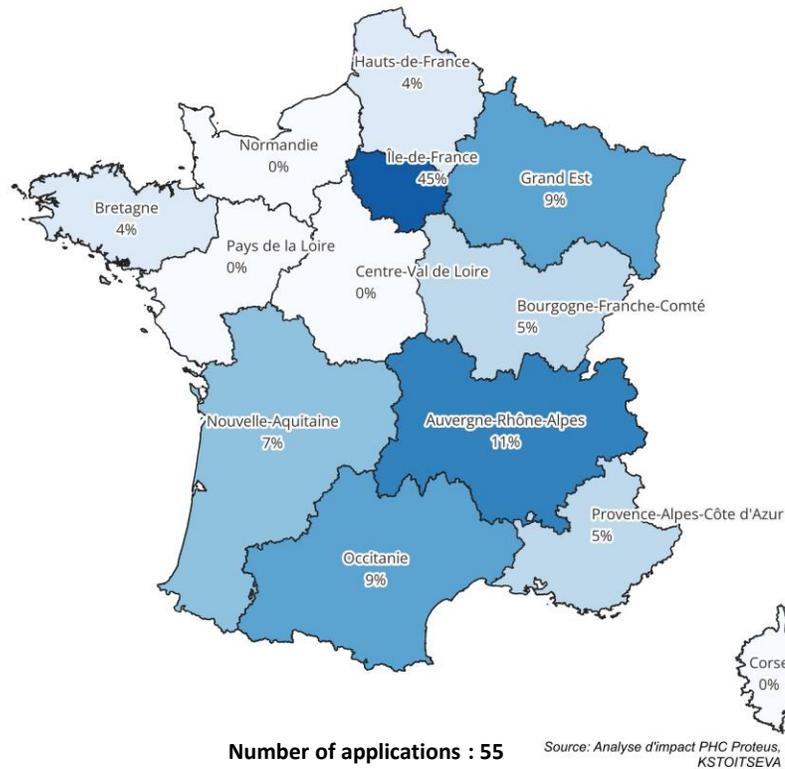


Ten regions are concerned for applications with Auvergne-Rhône-Alpes ahead. Nine regions benefit selections (with Grand Est ahead)

% 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 (2005-2023)

PHC PROTEUS Regional percentages of applications and selections *Information technology 2005-2023*

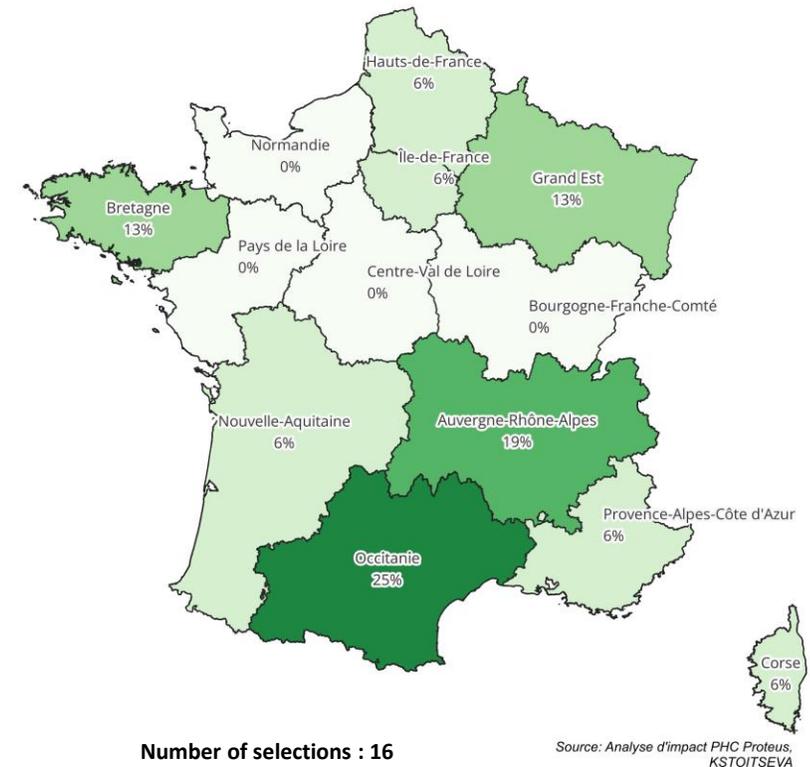
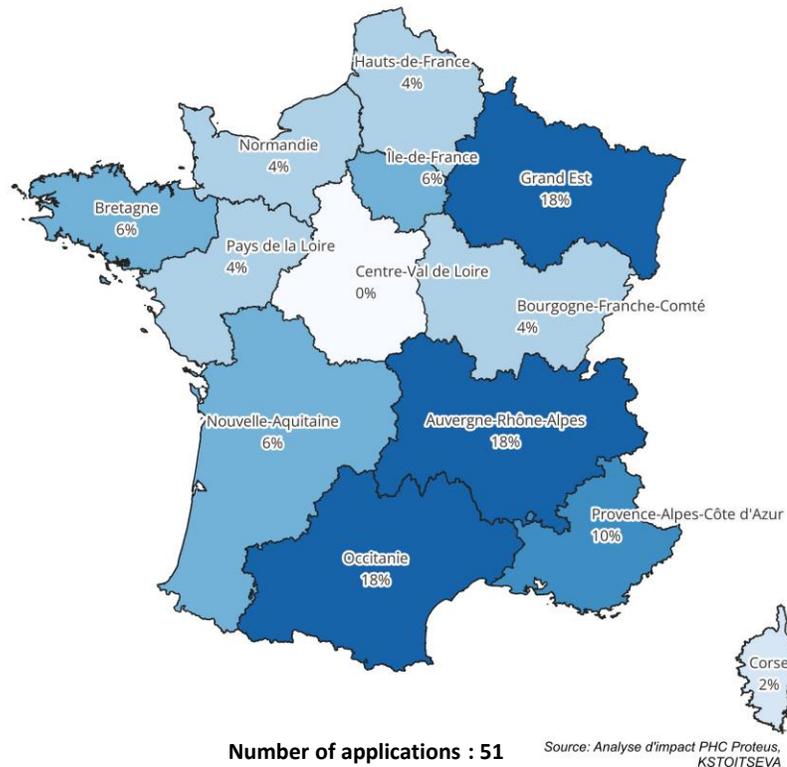


Nine regions are concerned for applications with Ile-de-France ahead. Eight benefit selections (with Ile-de-France still ahead)

% 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 (2005-2023)

PHC PROTEUS Regional percentages of applications and selections *Agronomy/Ecology 2005-2023*



Thirteen regions are concerned for selections. Only nine 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