



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

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FRANCE – QUEBEC

Scientific impact of the program Samuel de Champlain (Research) (2017-2023)

MESR-DAEI / MEAE

2024

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

GENERAL PRESENTATION OF THE PROGRAM

Creation : 2017

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

Total budget Research and Formation (France + Quebec) : around 380 000 € / year

>> including budget from the French part : around 190 000 €/year

>> including budget from the Quebec part : around 190 000 €/year

Average budget per project Research Program (France) : around 16 000 €/year

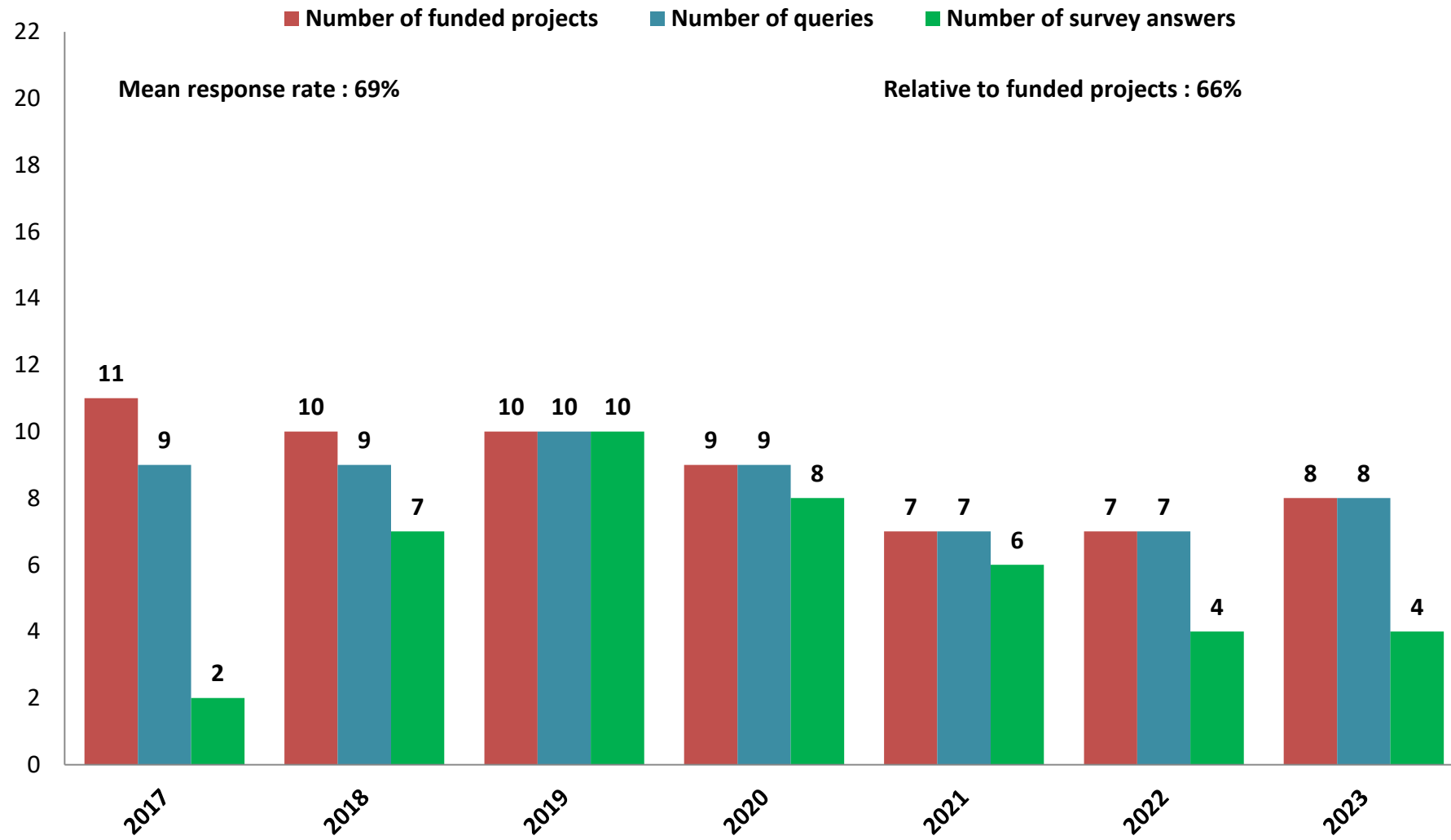
Average budget per project Research Program (France + Quebec) : around 32 000 €/year

Number of new funded projects per year : around 9

From 2017-2023 :
208 applications submitted
62 projects funded

ANSWERS TO THE SURVEY

Average response rate to the survey : **69 % (41 answers)**



62 funded projects between 2017 and 2023, 59 valid email addresses



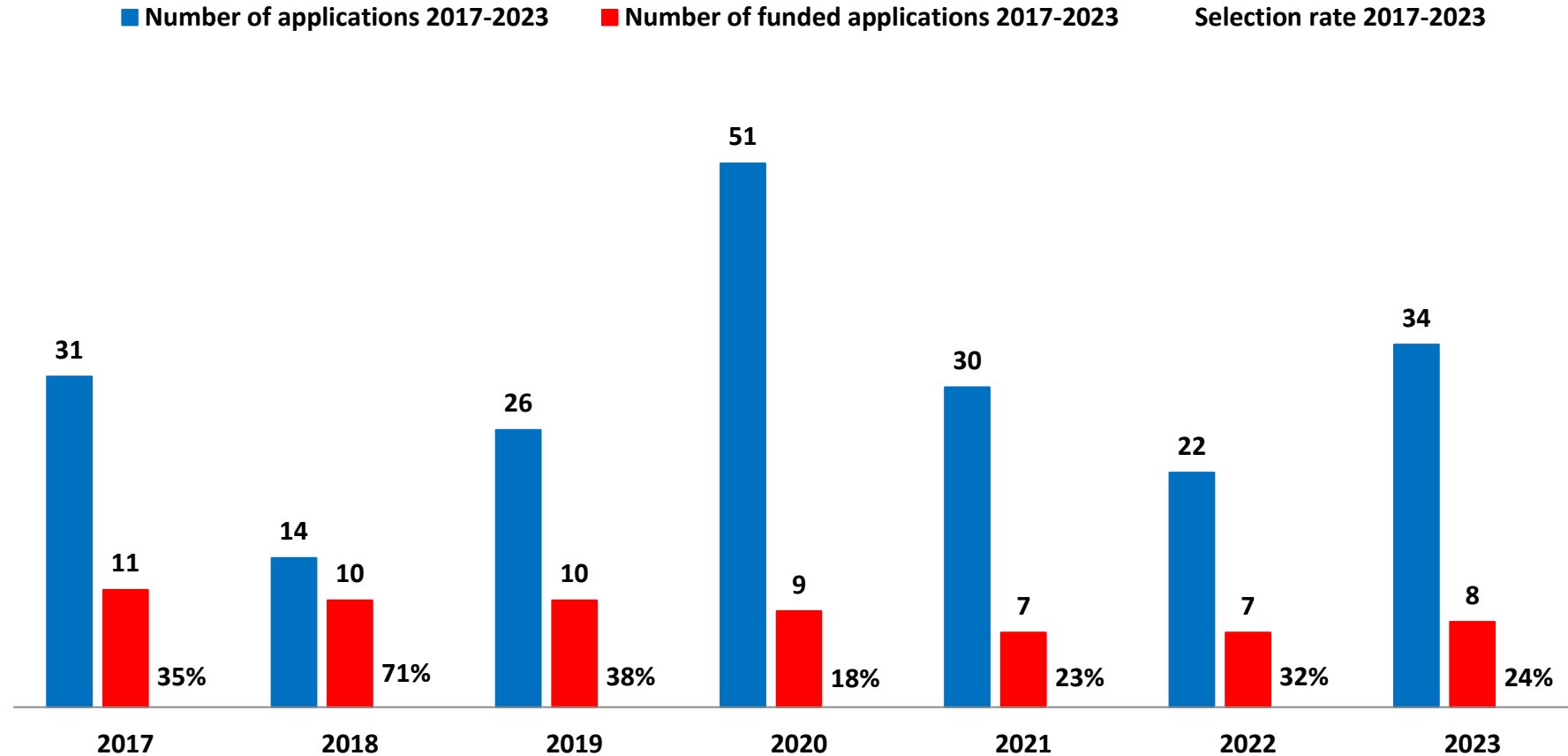
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2017-2023 Key Points

NUMBER OF APPLICATIONS AND SELECTION RATE

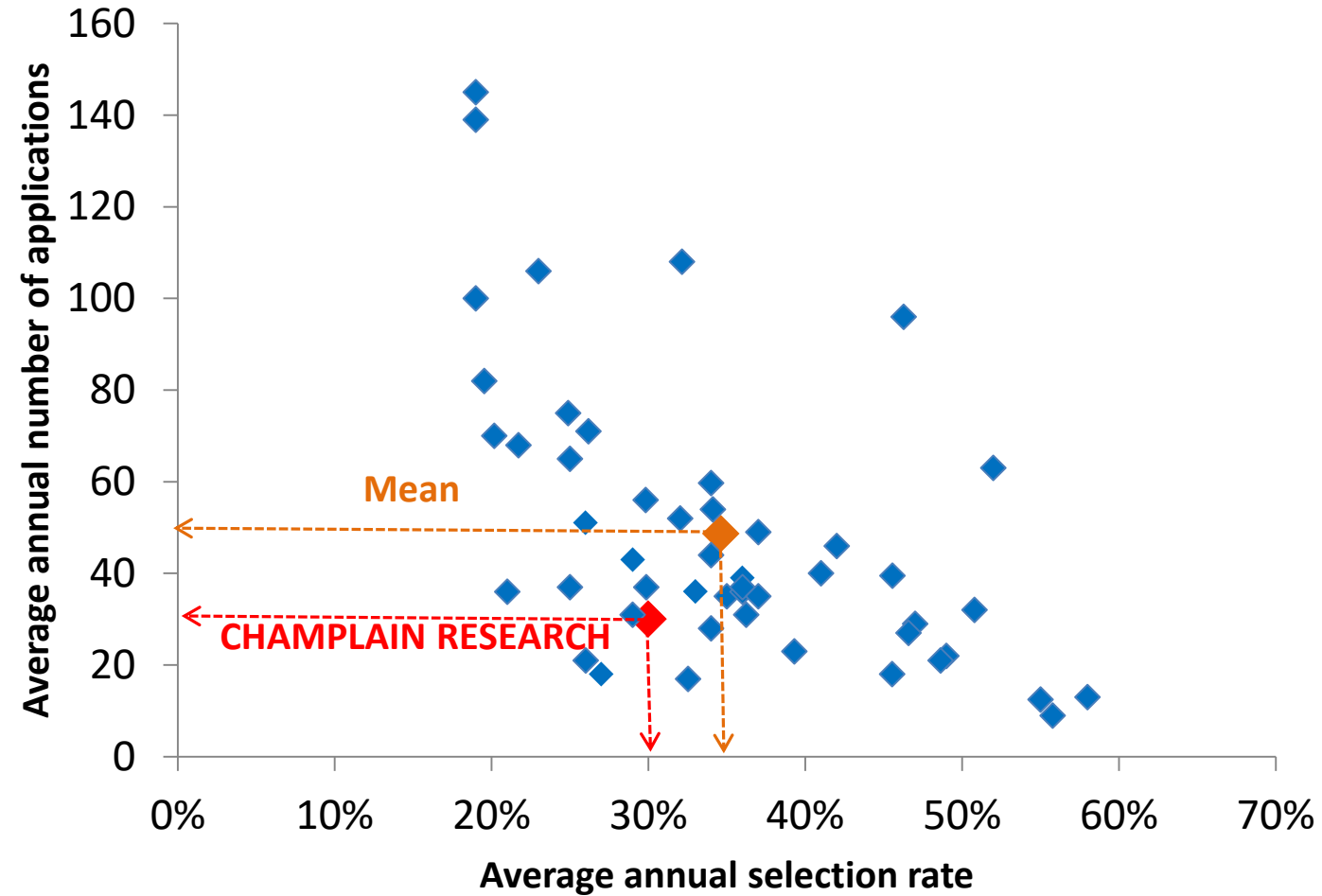
Average selection rate from 2017-2023: **30%**



Relatively stable number of applications

NUMBER OF APPLICATIONS VS SELECTION RATE

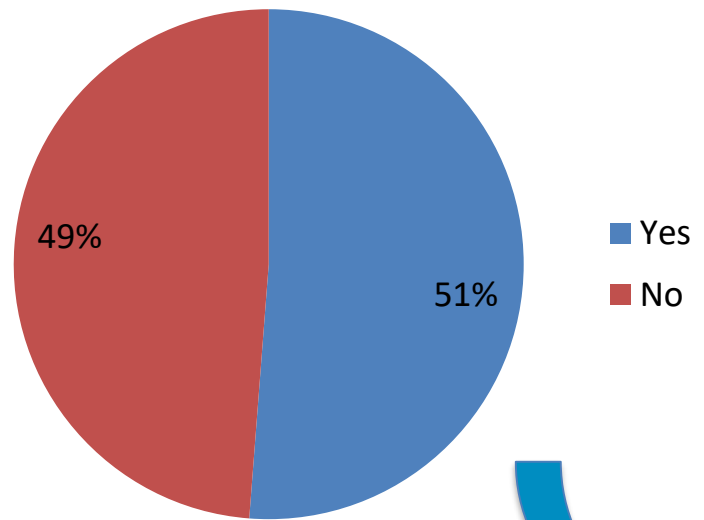
(COMPARISON BETWEEN 50 DIFFERENT BILATERAL PROGRAMS)



Average annual selection rate for 2017-2023 : 30% vs 35% mean
Average annual number of applications 2017-2023 : 30 vs 49 mean

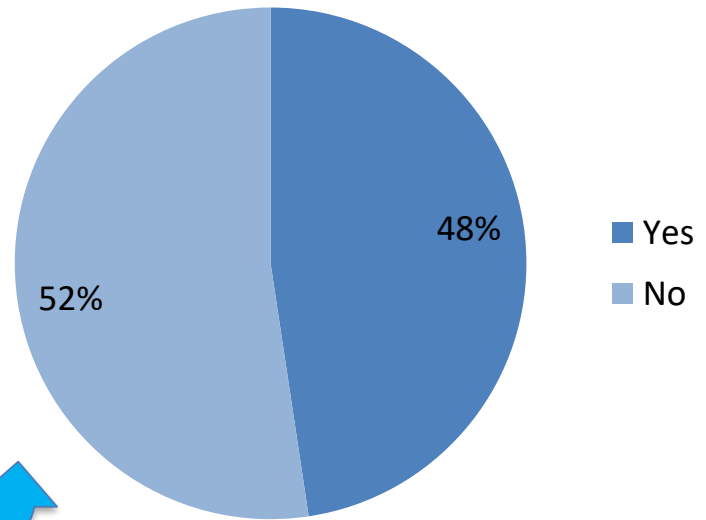
BEFORE THE CHAMPLAIN RESEARCH PROJECT (1/2)

Did you already cooperate with Quebec in the past ?



Data from 41 responses

If yes, was it with the same partner?



Data from 21 responses



BEFORE THE CHAMPLAIN RESEARCH PROJECT (2/2)

With which scientific collaboration program ?	
Samuel de Champlain Program Research	6%
French Government Grant	6%
International Emerging Action du CNRS (IEA ex-PICS)	6%
Other	83%

Other programs such as FP7-PEOPLE, Funding Canada Environment, Program IDEX Grenoble...

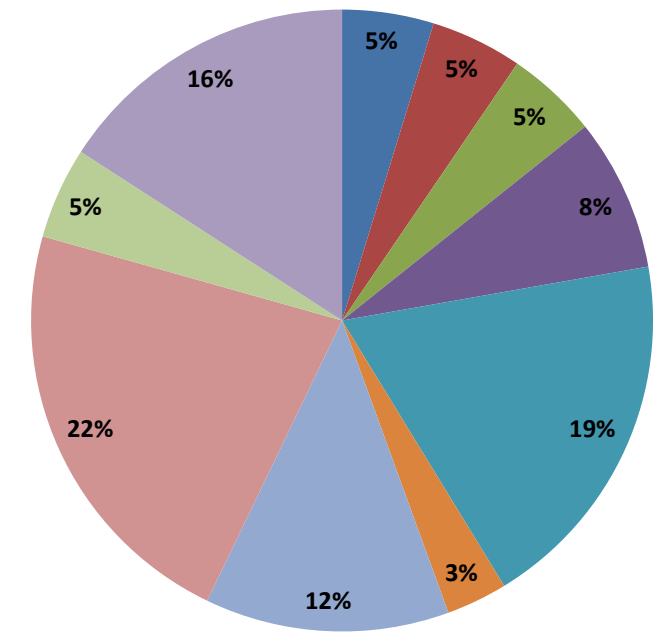
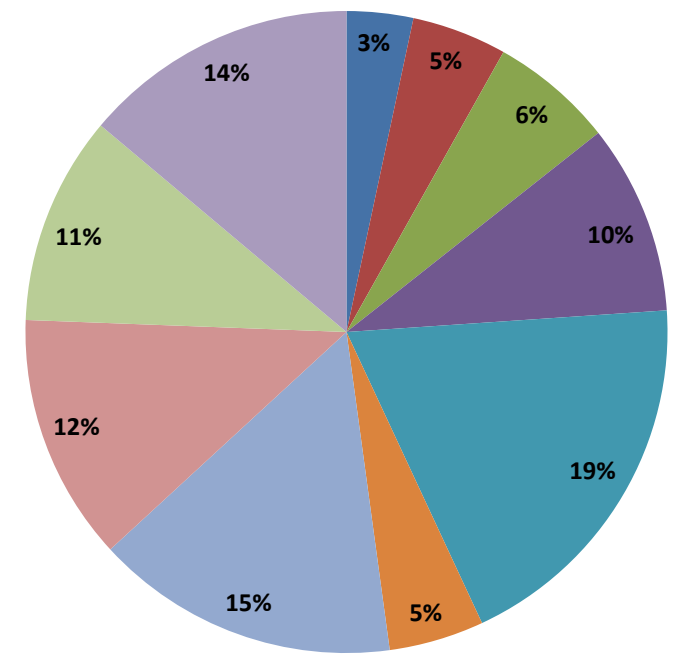
Plus 23 previous cooperations based on other exchanges (scientific coproduction, meetings, joint PhD...)

Data from 17 responses

SCIENTIFIC DOMAINS OF PROJECTS (2017-2023)

Number of applications : 209

Number of funded projects : 63

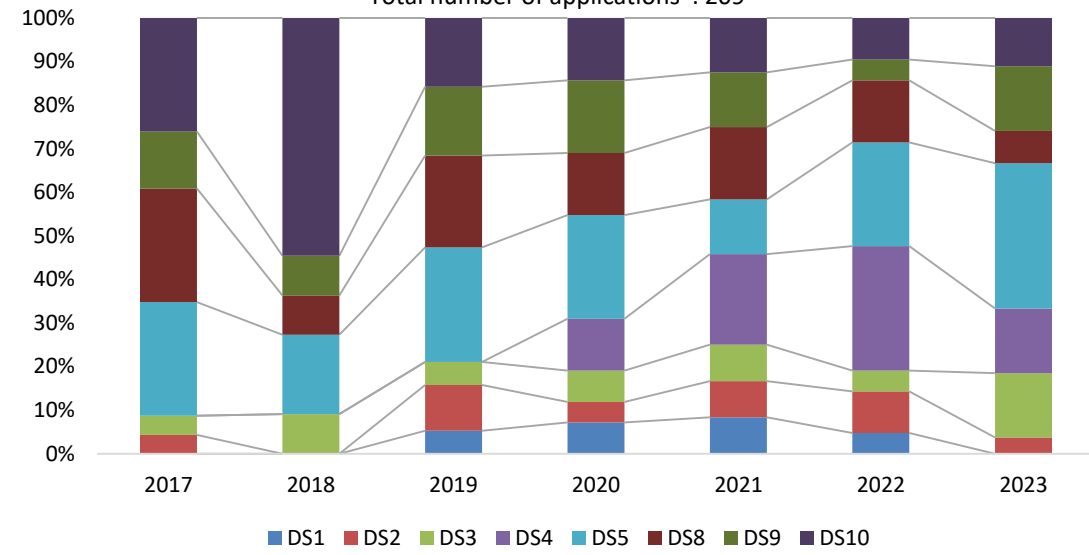


- Mathematics
- Marine/Earth/Planet Sciences
- Biology and Health
- Social Sciences
- Information Technology
- Physics
- Chemistry
- Humanities
- Engineering Sciences
- Agronomy/Ecology

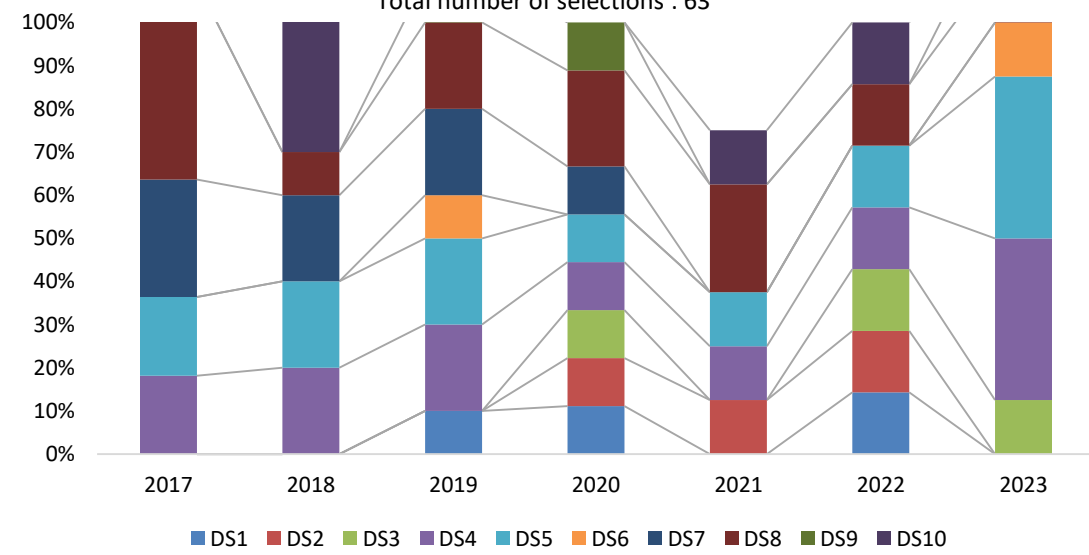
SCIENTIFIC DOMAINS : EVOLUTION 2017-2023

- 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 : 209

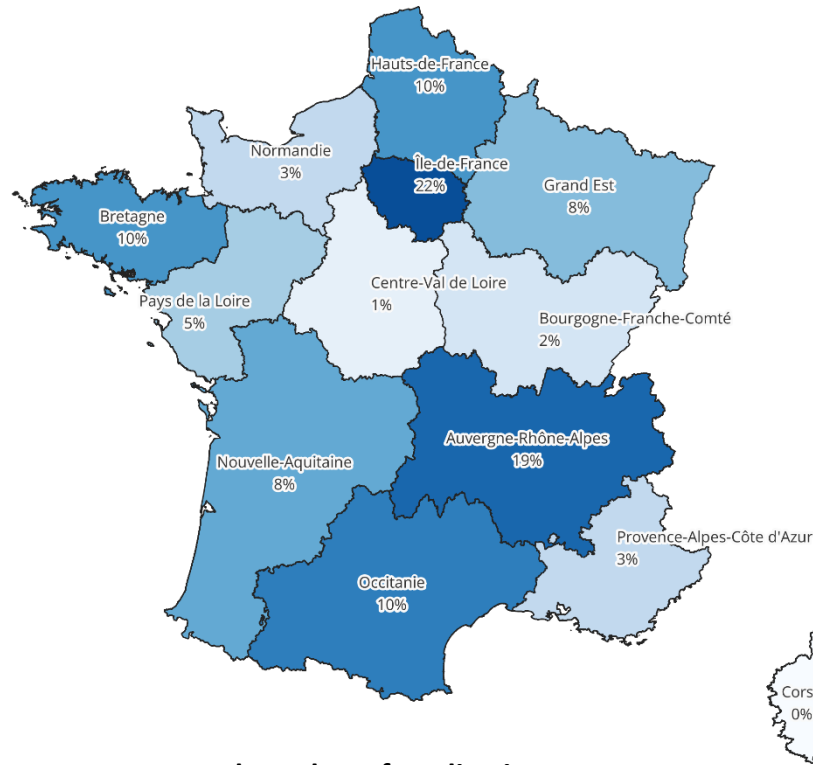


Percentage of selections filed by scientific domain each year compared to all selections filed in each scientific domain
 Total number of selections : 63



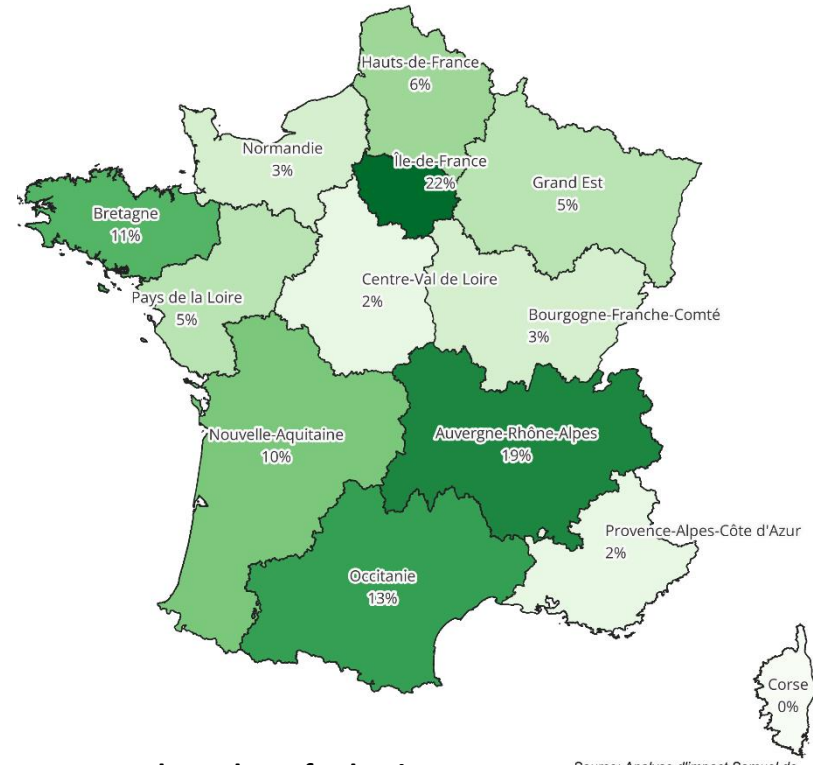
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections 2017-2023



**Total number of applications
(all domains)
209**

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



**Total number of selections
(all domains)
63**

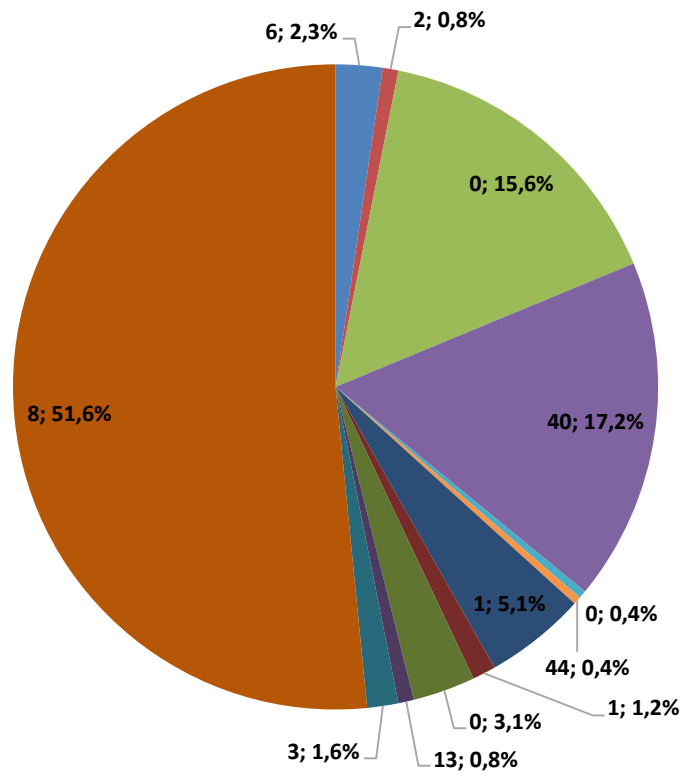
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

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

FRENCH PARTICIPATING INSTITUTIONS

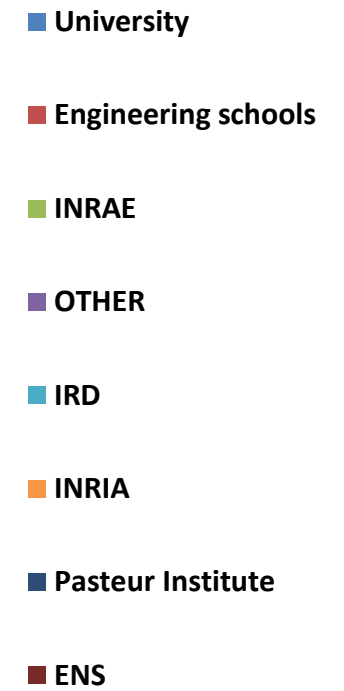
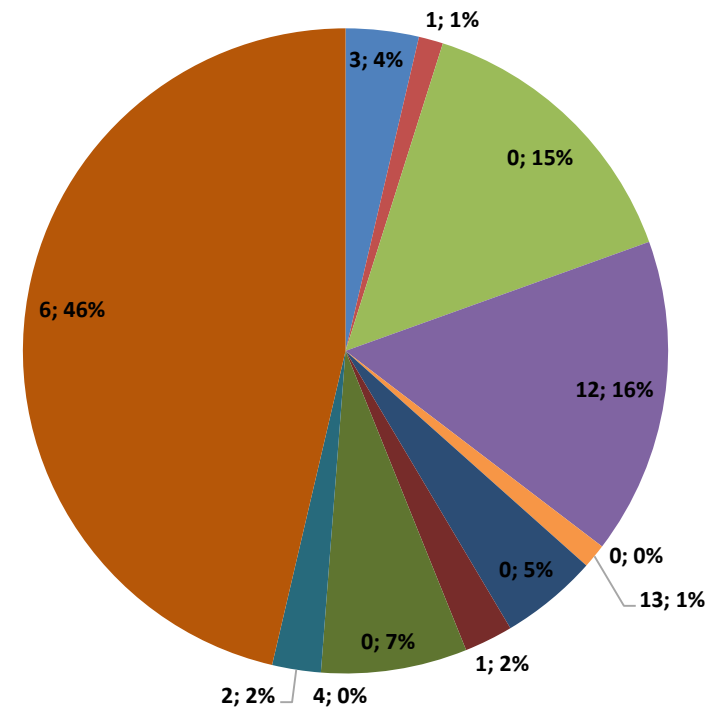
(DATA FROM THE COMMITTEE)

Institutions of candidates



N=209

Institutions of laureates

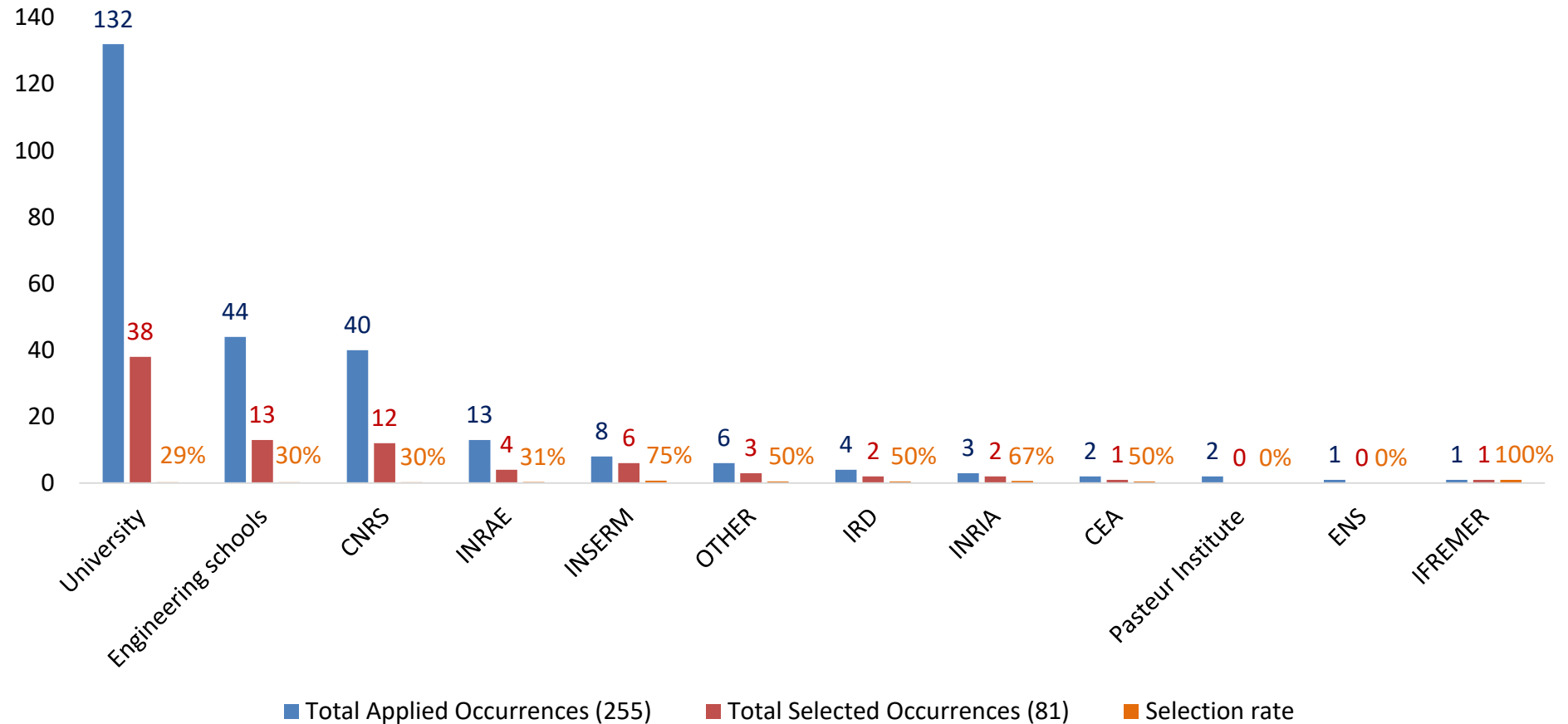


N=63

FRENCH PARTICIPATING INSTITUTIONS

(DATA FROM THE COMMITTEE)

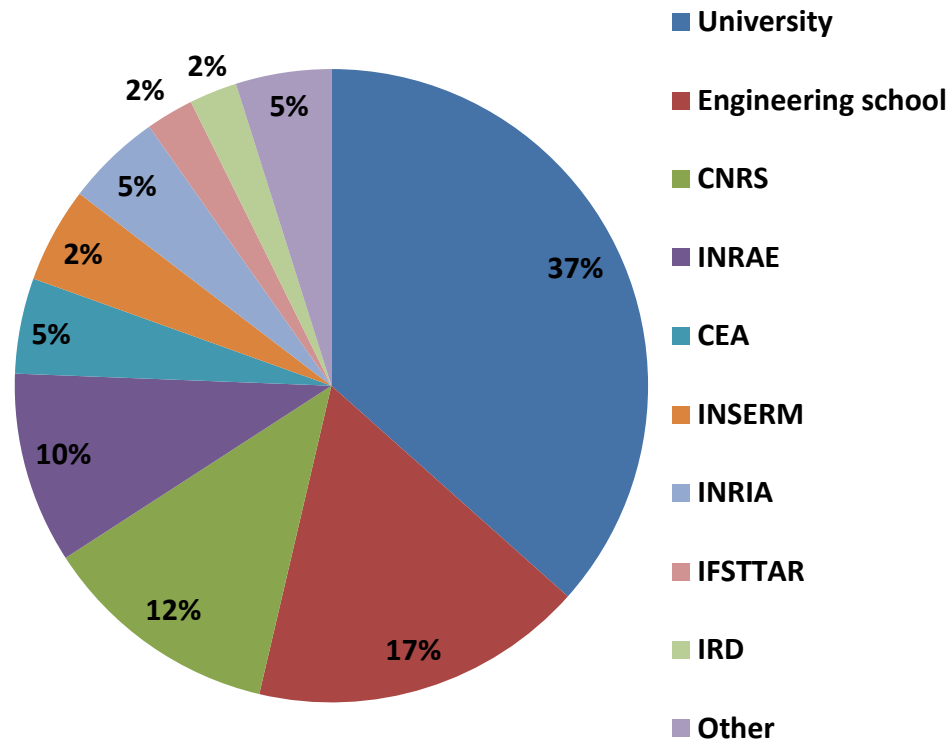
Number of occurrences for each institution



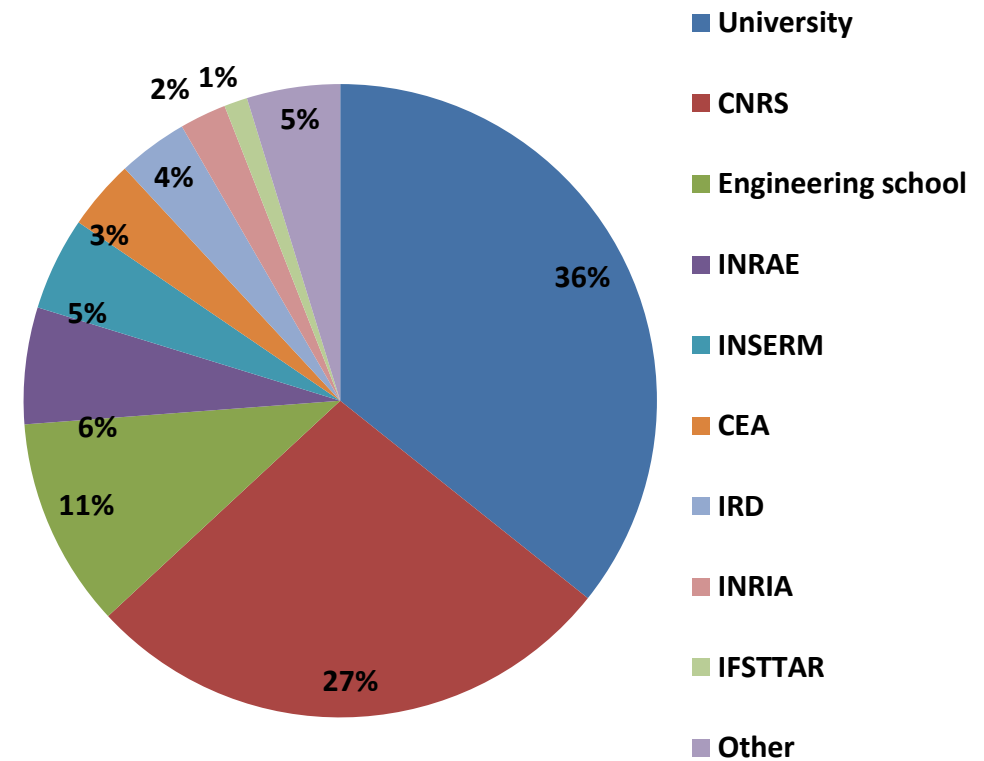
FRENCH PARTICIPATING INSTITUTIONS

(DATA FROM THE SURVEY)

PI's employers



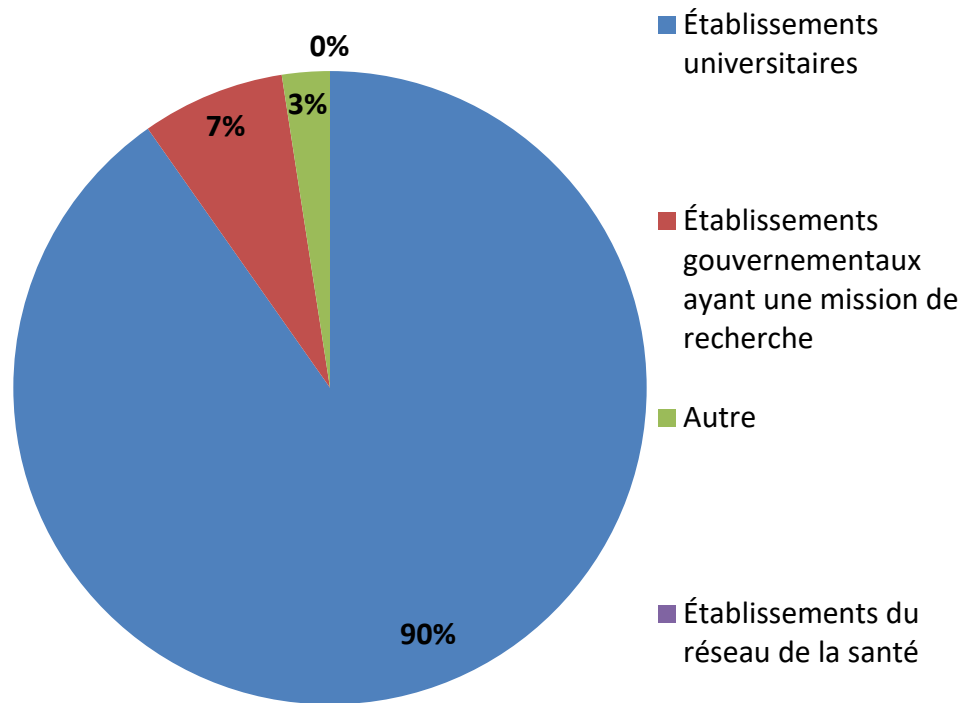
Laboratories authorities



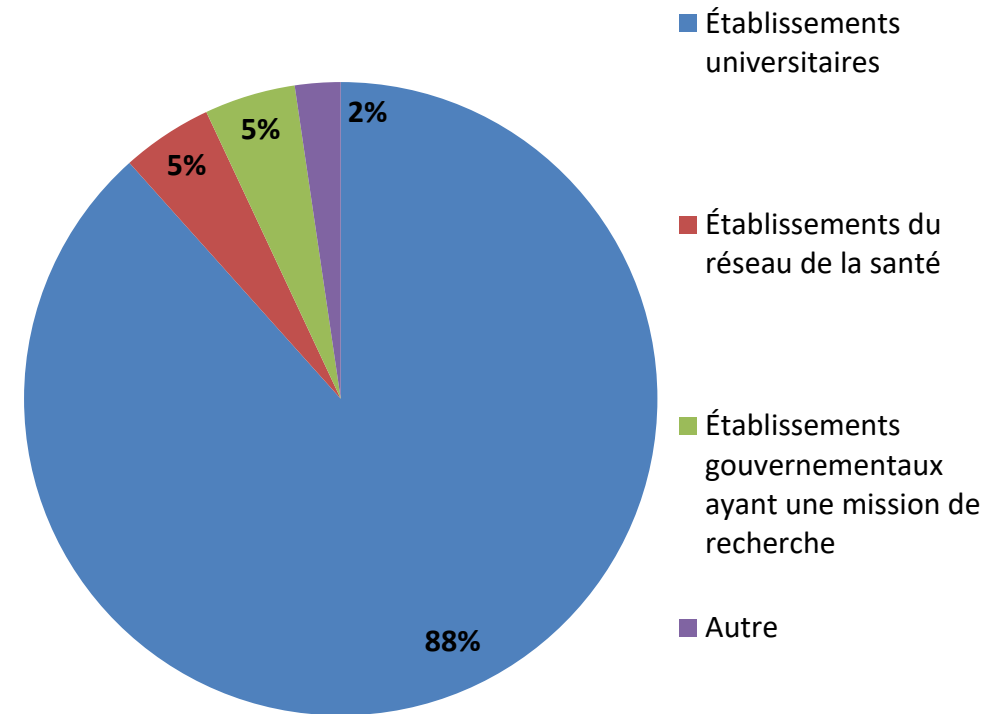
Data from 41 answers

QUEBEC PARTICIPATING INSTITUTIONS (DATA FROM THE SURVEY)

PI's employers



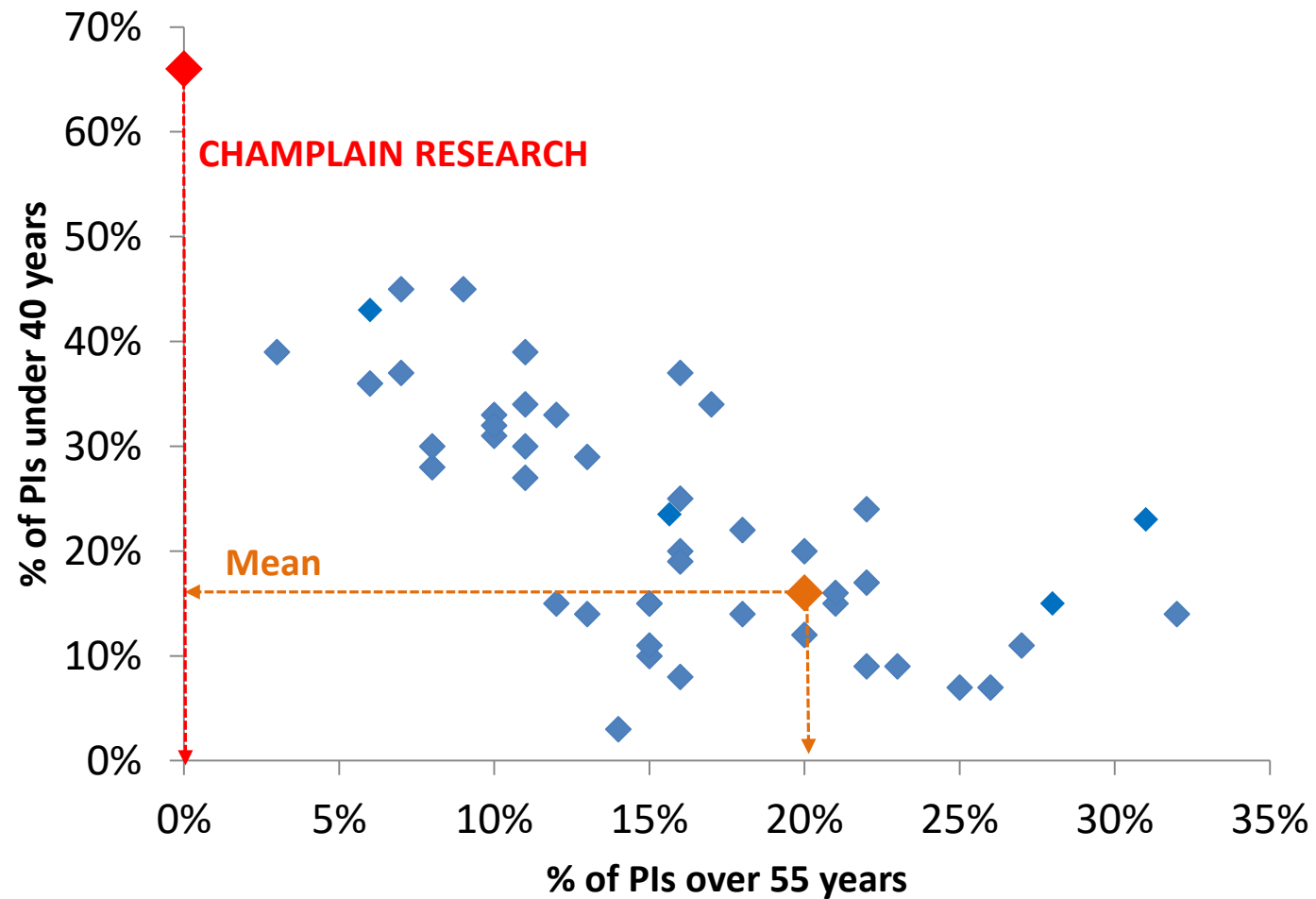
Laboratories authorities



Data from 41 answers

AGE OF FRENCH PRINCIPAL INVESTIGATORS (PI) 2017-2023

(COMPARISON BETWEEN 50 DIFFERENT BILATERAL PROGRAMS)



Laureates under 40 years : **66% vs 23% mean**

Laureates over 55 years : **0% vs 16% mean**

Laureates between 40 et 55 years : **34%**

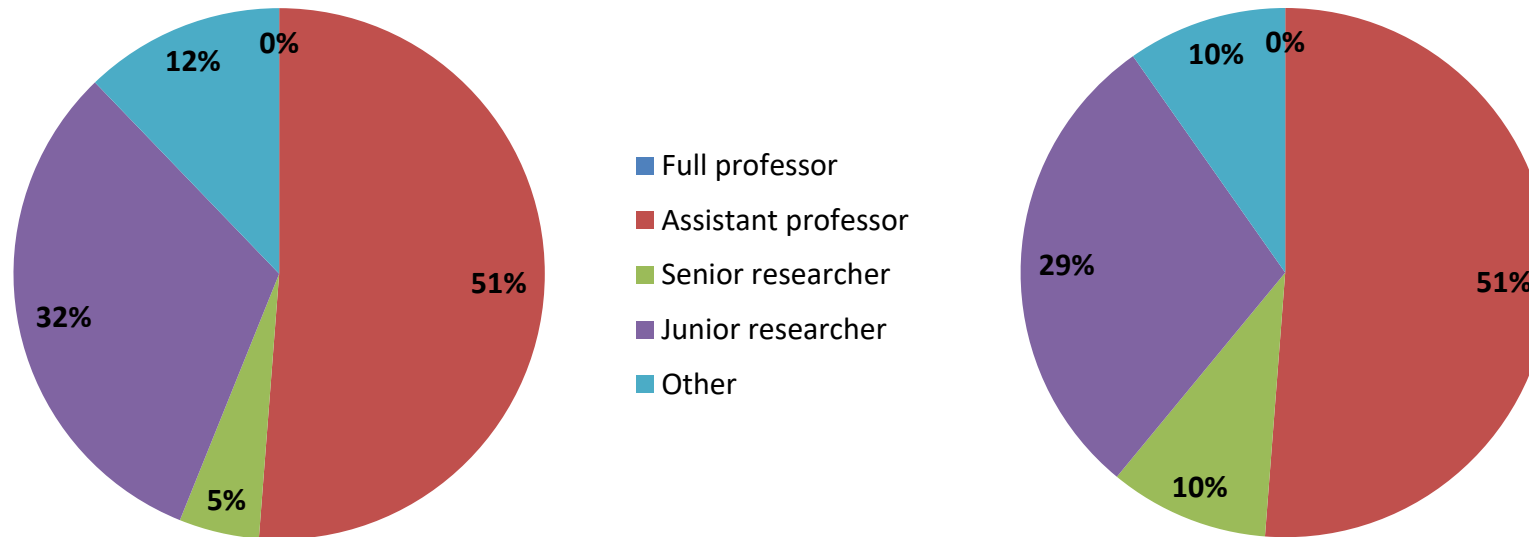
FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

2017-2023

(DATA FROM THE SURVEY)

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

Current professional status



Data from 41 answers

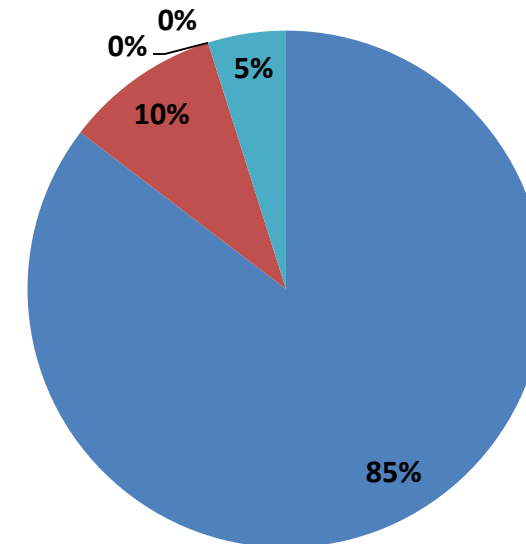
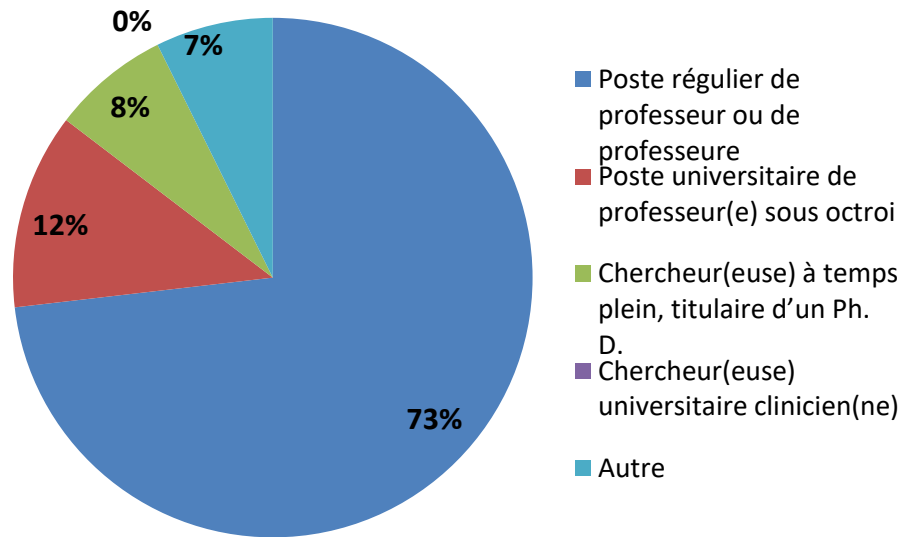
QUEBEC PIS (PRINCIPAL INVESTIGATORS) : STATUS

2017-2023

(DATA FROM THE SURVEY)

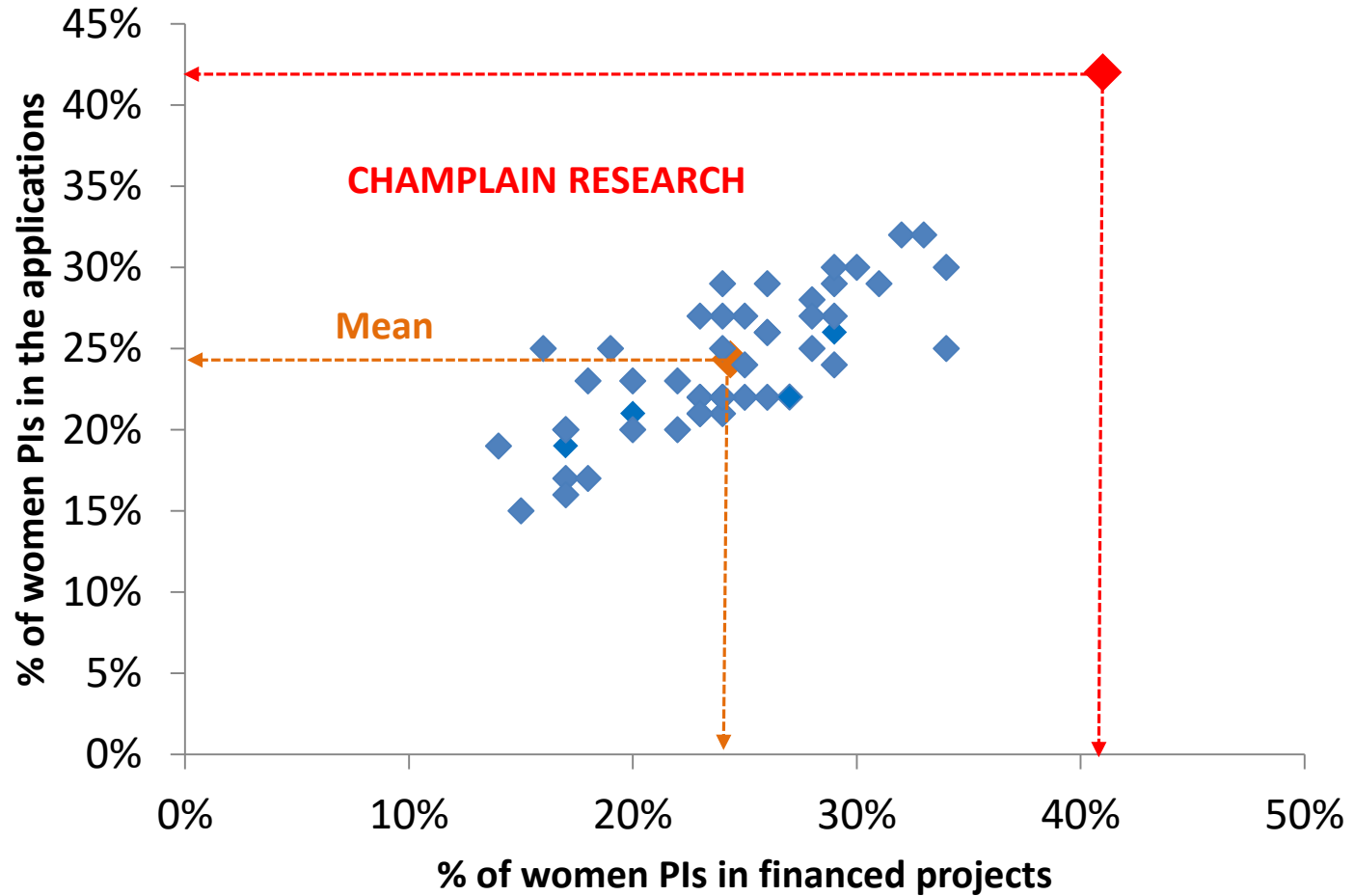
**Previous professional status
(at the beginning of the project)**

Current professional status



Data from 41 answers

IMPLICATION OF WOMEN (FRANCE) 2017-2023 (COMPARISON BETWEEN 50 DIFFERENT BILATERAL PROGRAMS)

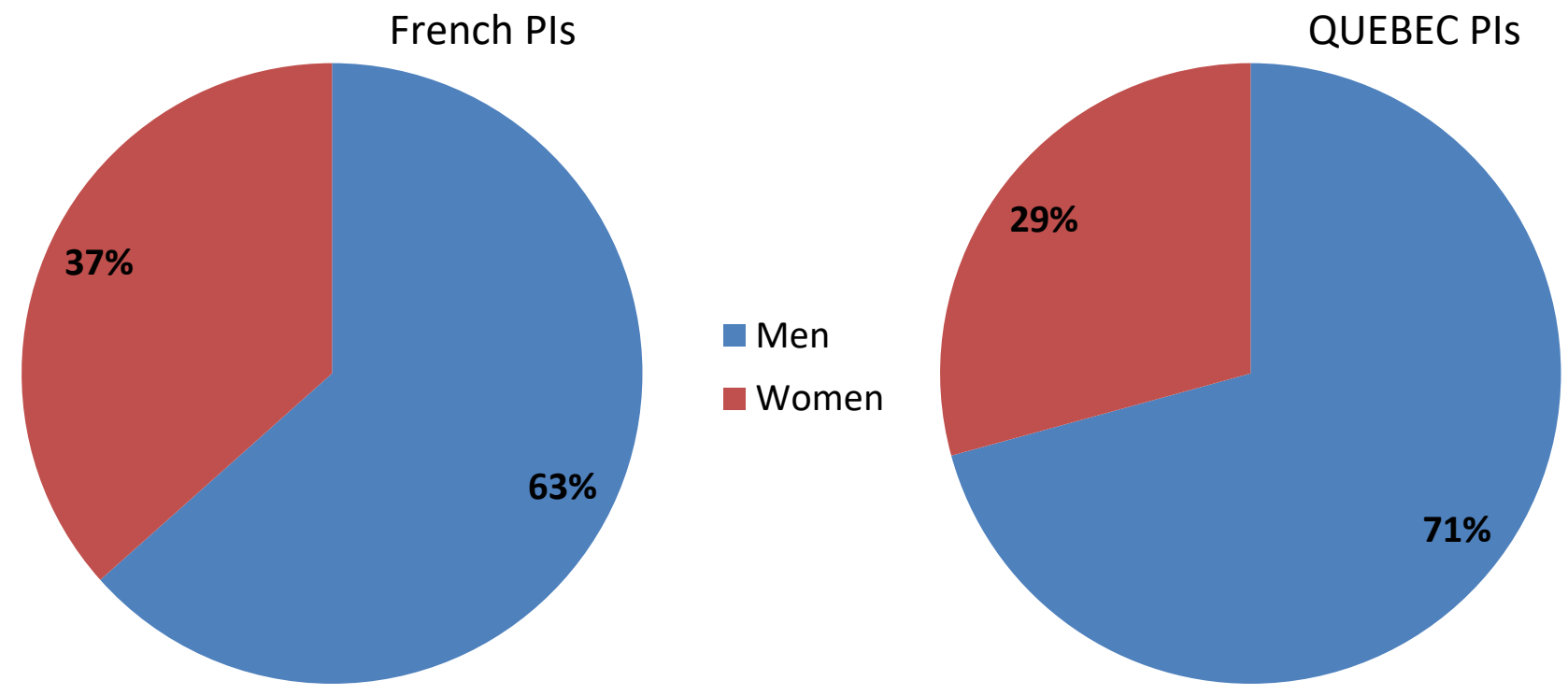


% of women PIs candidates : 42% vs 24% mean

% of women PIs laureates : 41% vs 24% mean

IMPLICATION OF WOMEN 2017-2023

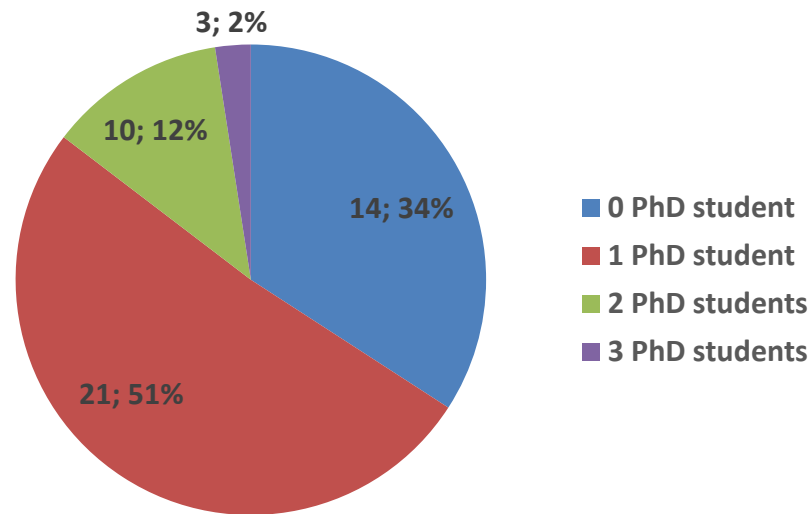
(DATA FROM THE SURVEY)



Data from 41 responses

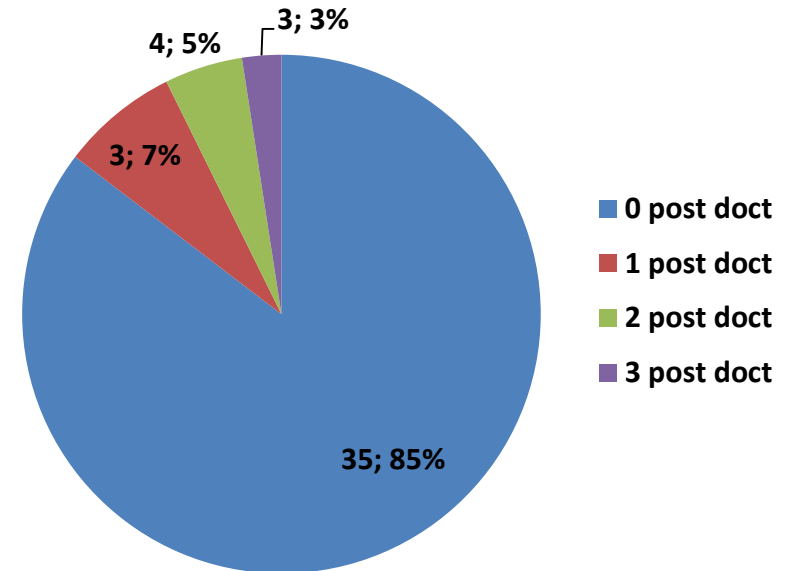
PARTICIPATION OF FRENCH YOUNG RESEARCHERS 2017-2023

Number of French PhD students



66% of projects involve at least one French PhD student

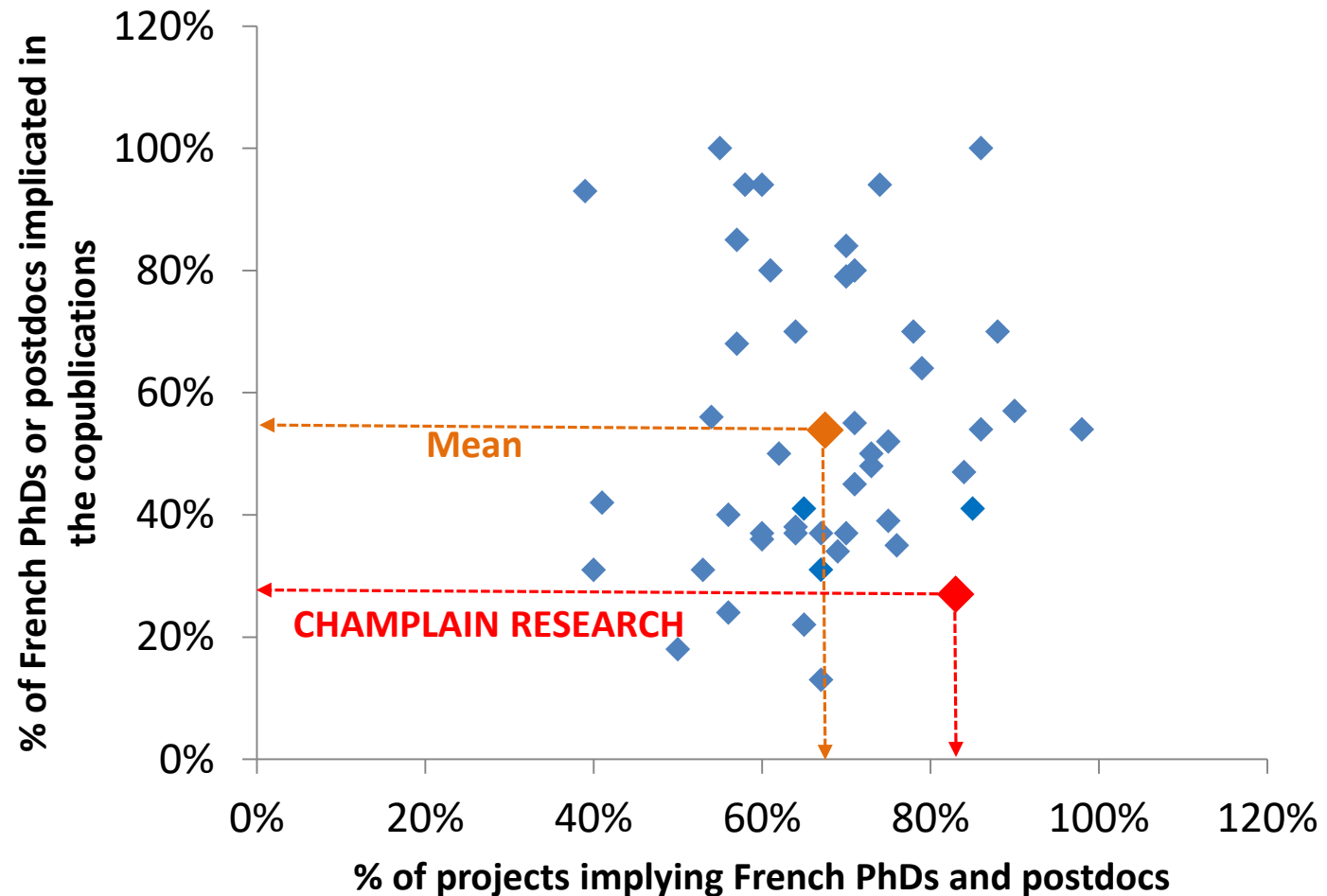
Number of French post-doctoral researchers



15% of projects involve at least one French post-doctoral researcher

Data from 41 responses

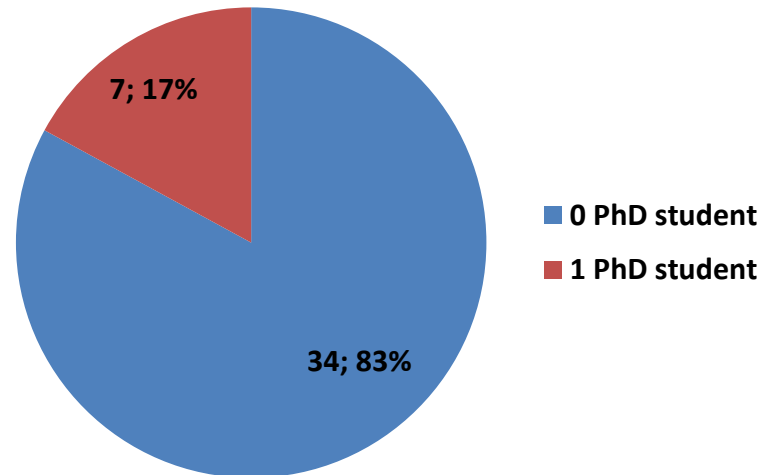
IMPLICATION OF FRENCH YOUNG RESEARCHERS IN THE PUBLICATIONS 2017-2023



% of projects involving french young researchers : 83% vs 67% mean
% of french PhDs or postdocs involved in the coproductions : 27% vs 54% mean

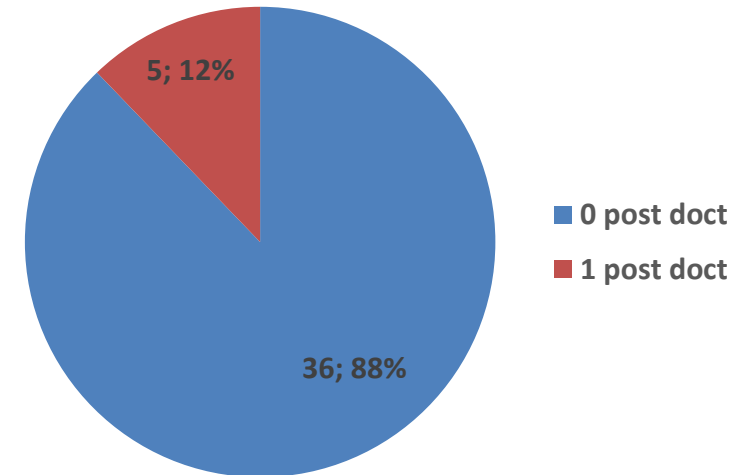
PARTICIPATION OF QUEBEC YOUNG RESEARCHERS 2017-2023

Number of Quebec PhD students



17% of projects involve at least one Quebec PhD student

Number of Quebec post-doctoral researchers

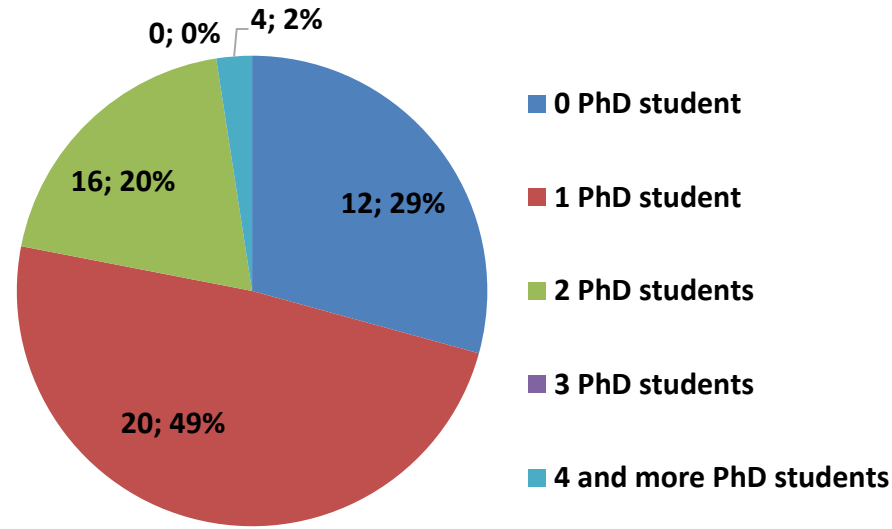


12% of projects involve at least one Quebec post-doctoral researcher

Data from 41 responses

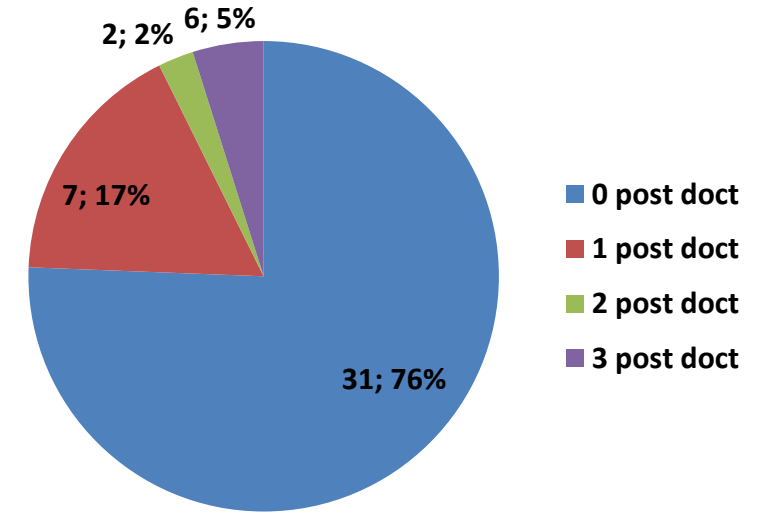
PARTICIPATION OF BOTH FRENCH AND QUEBEC YOUNG RESEARCHERS

Number of PhD students



71% of projects involve at least one PhD student

Number of post-doctoral researchers



24% of projects involve at least one post-doctoral researcher

Data from 41 responses



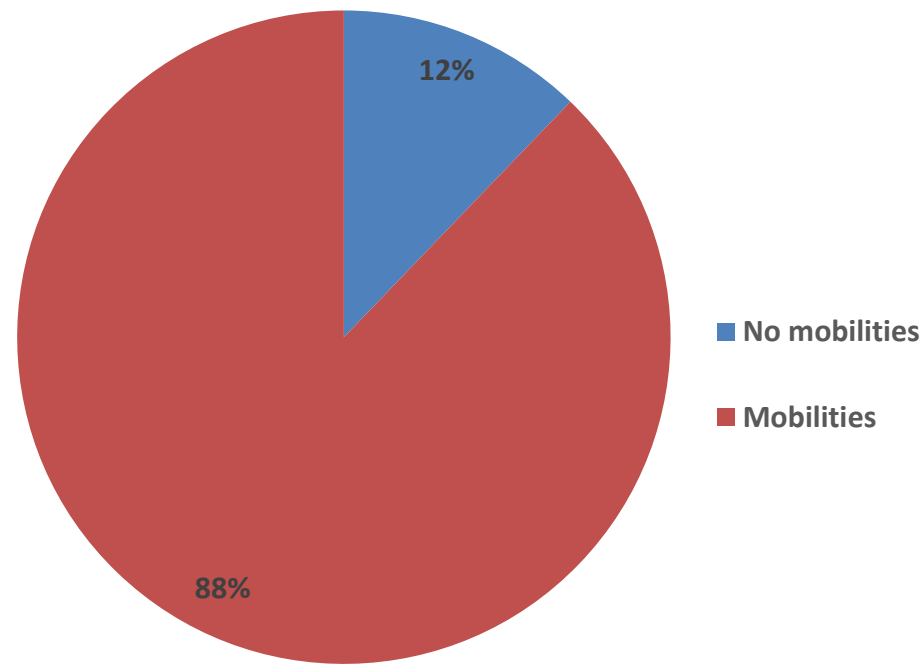
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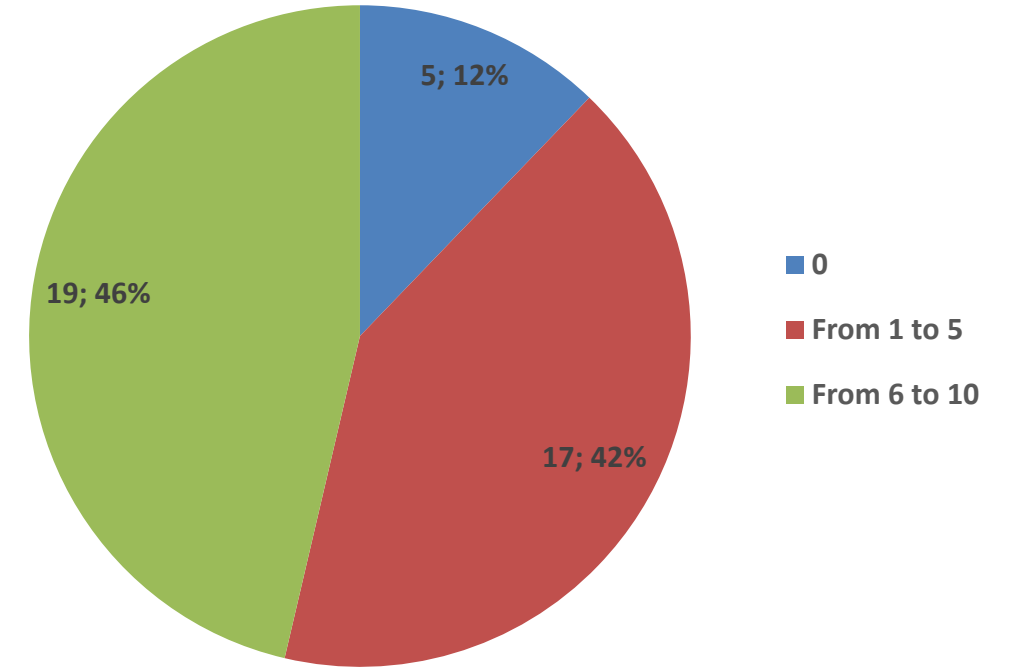
MOBILITY

MOBILITIES 2017-2023 (DATA FROM THE SURVEY)

Projects with/without mobilities



Number of outgoing mobilities per project

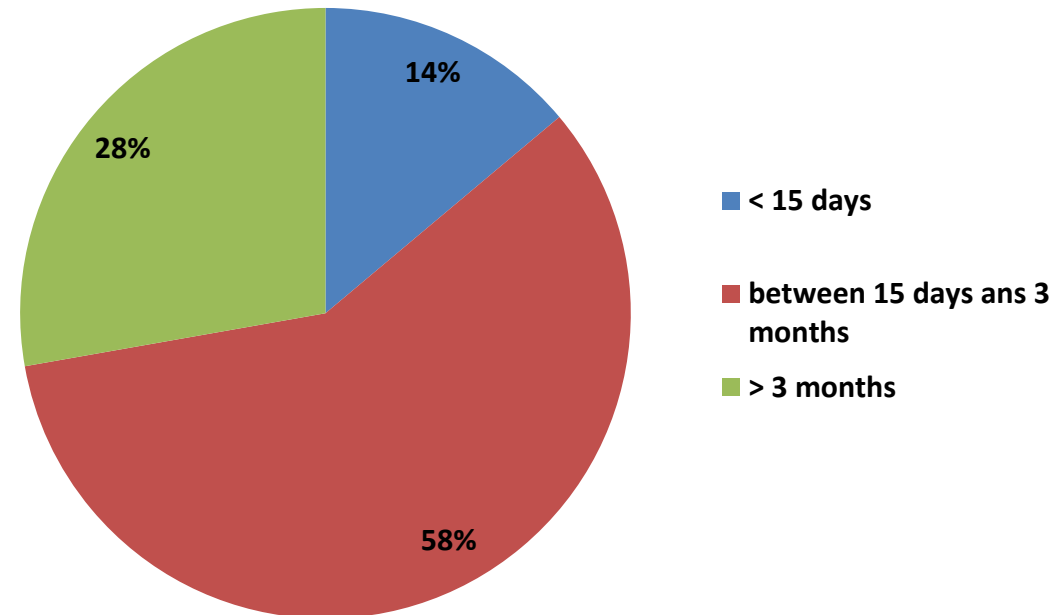


Data from 41 responses

MOBILITY : DURATION 2017-2023

(DATA FROM THE SURVEY)

France → Quebec

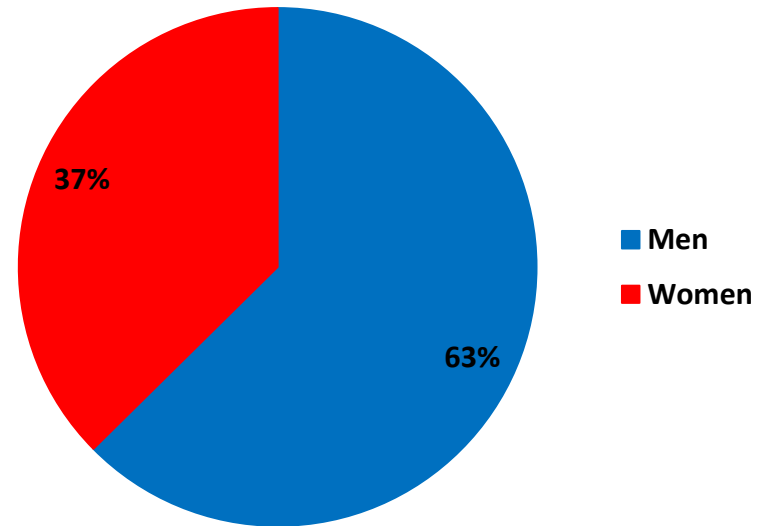


Data from 36 responses (116 outgoing mobilities)

MOBILITY : GENDER DISTRIBUTION 20017-2023

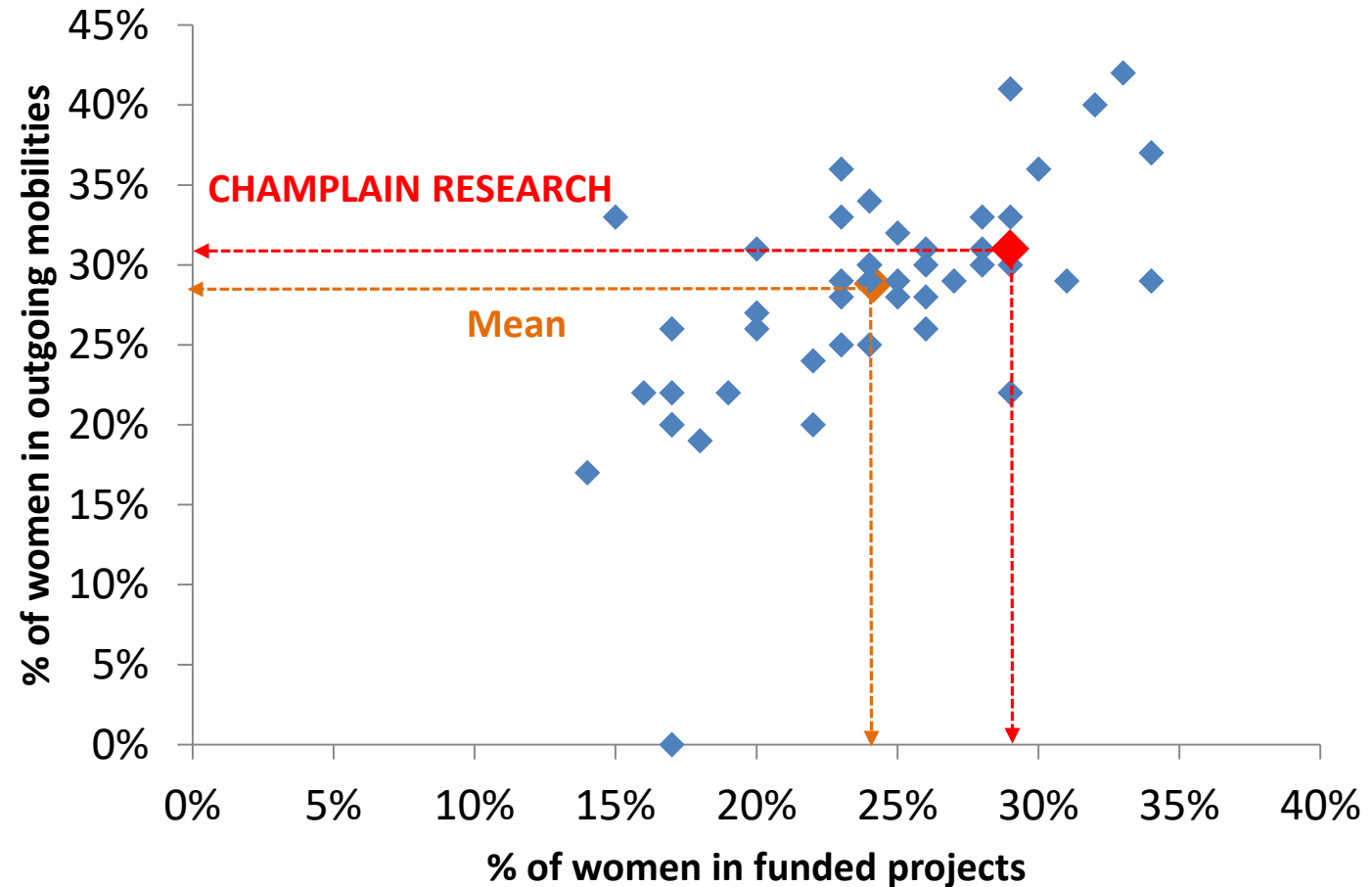
(DATA FROM THE SURVEY)

France → Quebec



Data from 40 responses

WOMEN MOBILITY FRANCE – QUEBEC (COMPARISON BETWEEN 50 DIFFERENT BILATERAL PROGRAMS)



% of women PIs in the funded projects : **41% vs 24% mean**

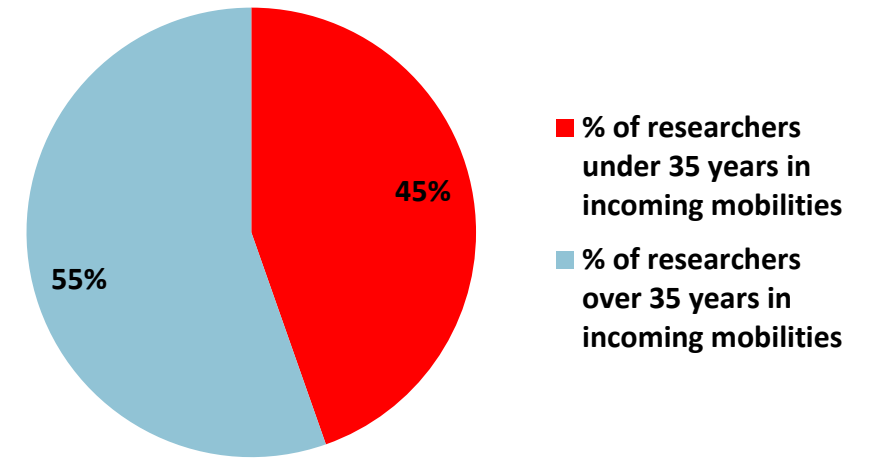
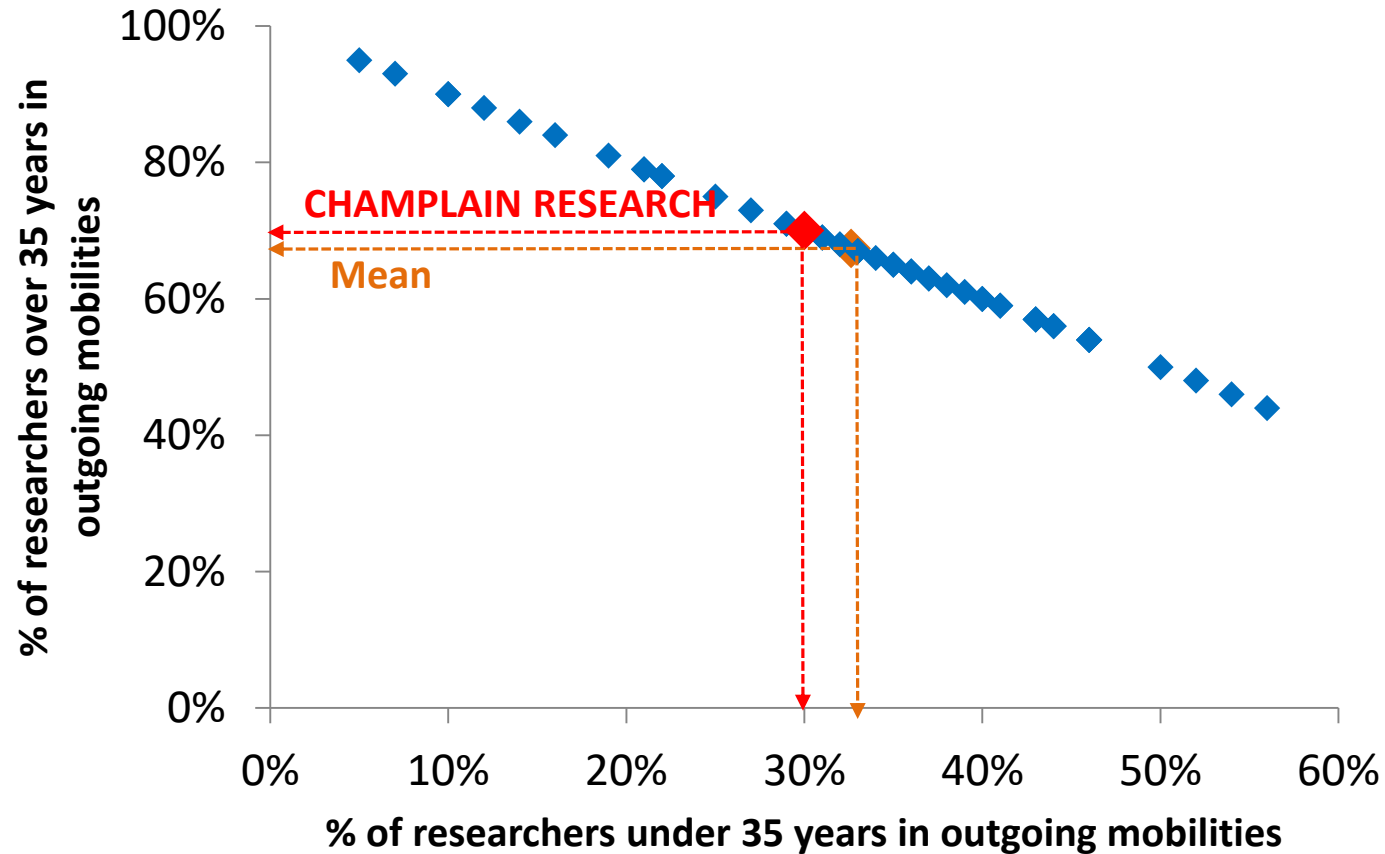
% of women PIs in outgoing mobilities : **37% vs 29% mean**

YOUNG RESEARCHERS MOBILITY

(DATA FROM THE SURVEY)

France → Quebec

Quebec → France



Data from 41 responses

% of young french researchers in outgoing mobilities : **30% vs 33% mean**
 % of young quebec researchers in incoming mobilities : **45%** (mean non available)



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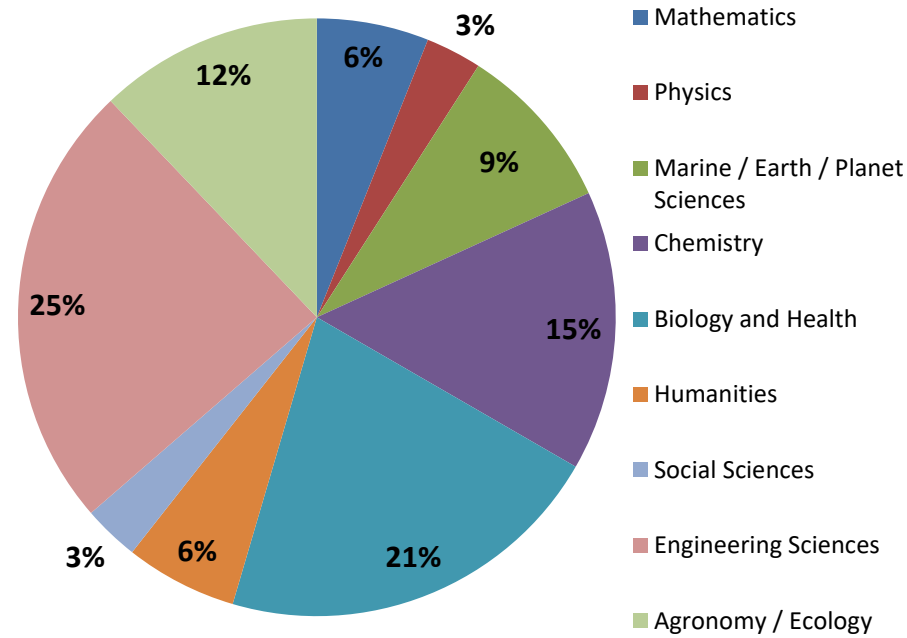
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SCIENTIFIC PRODUCTION (2017-2021)

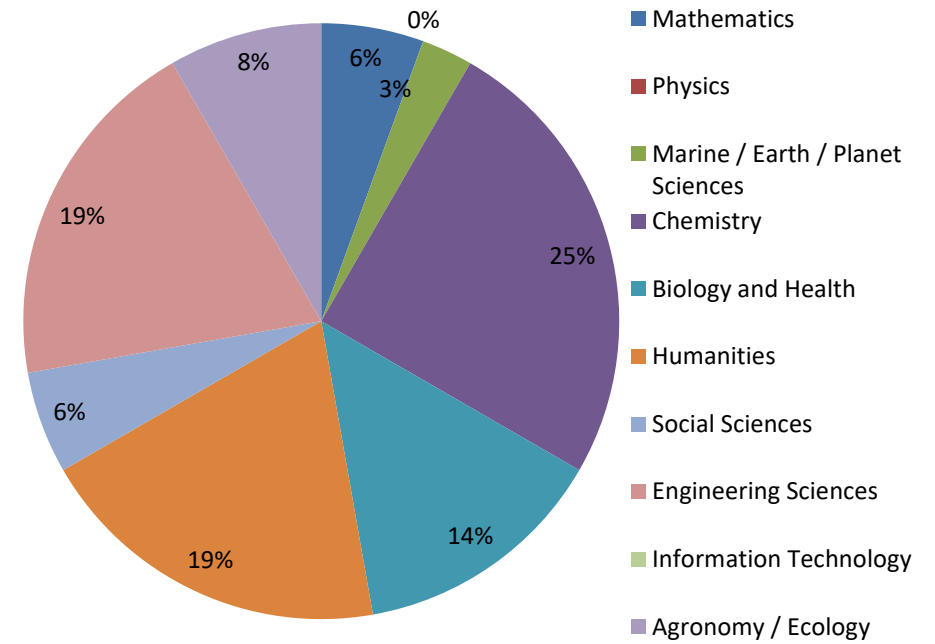
SCIENTIFIC OUTPUT 2017-2021 (1/2)

(DATA FROM THE SURVEY)

Funded projects 2017-2021



Percentage of coproductions



Data from 36 scientific coproductions

Data from 33 responses (No responses to the survey for IT)

SCIENTIFIC OUTPUT 2017-2021 (2/2)

(DATA FROM THE SURVEY)

	Number of financed projects in the survey	Average annual number of scientific co-productions per project
Mathematics	2	0,5
Physics	1	0,0
Marine/Earth/Planet Sciences	3	0,2
Chemistry	5	0,9
Biology and Health	7	0,4
Humanities	2	1,8
Social Sciences	1	1,0
Engineering Sciences	8	0,4
Information Technology	No responses	
Agronomy / Ecology	4	0,4
TOTAL	33	0,55

Overall average annual number of scientific coproductions per project : 0,55 vs 0,96 mean

37% of funded projects led to one scientific coproduction at least
47% of coproductions include at least 1 French PhD or PostDoc and 11% 1 Quebec PhD or PostDoc
The average annual rate of publication for French young researchers involved in the projects is 0,19 and 0,17 for Quebec young researchers
Each young French researcher involved in the publications has published 0,77 publication per year
Each young Quebec researcher involved in the publications has published 0,50 publication per year



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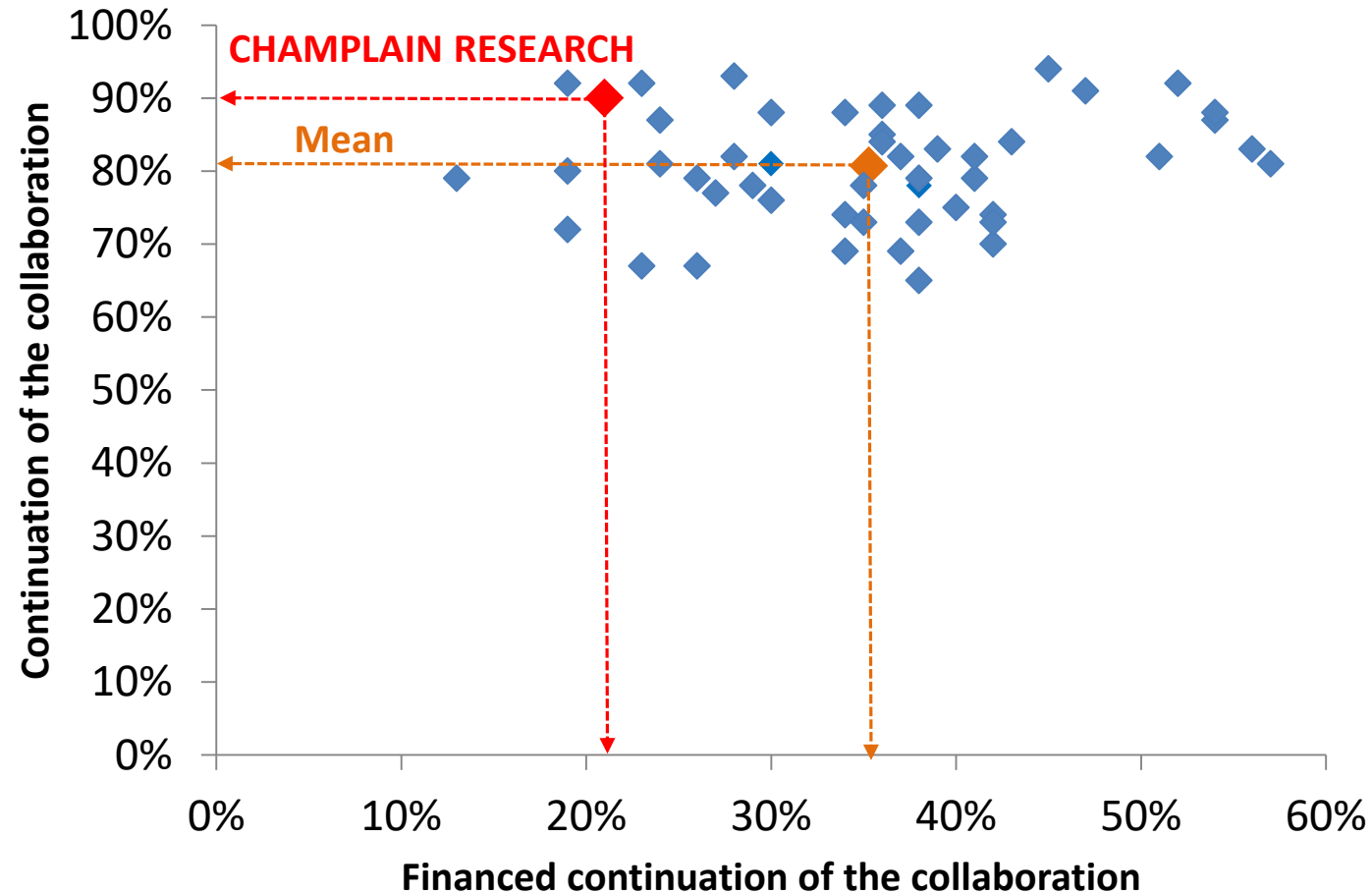
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WHAT HAPPENS AFTER A CHAMPLAIN RESEARCH PROJECT ?

CONTINUATION OF THE COOPERATION 2017-2023

(1/6)

(DATA FROM THE SURVEY)



Continuation of the cooperation : **90% vs 81% mean**
Financed continuation of the cooperation : **21% vs 35% mean**

CONTINUATION OF THE COOPERATION 2017-2023

(2/6)

(DATA FROM THE SURVEY)

90% of the cooperations continued after the CHAMPLAIN RESEARCH project

Which activities?	
Scientific co-productions	70%
Cooperative research	59%
Joint participation to conferences	30%
Researchers mobilities	27%
Joint participation to PhD thesis	24%
PhD mobilities	16%
Co-organisation of scientific events	11%
Joint diplomas (Master, PhD...)	3%
Other	8%

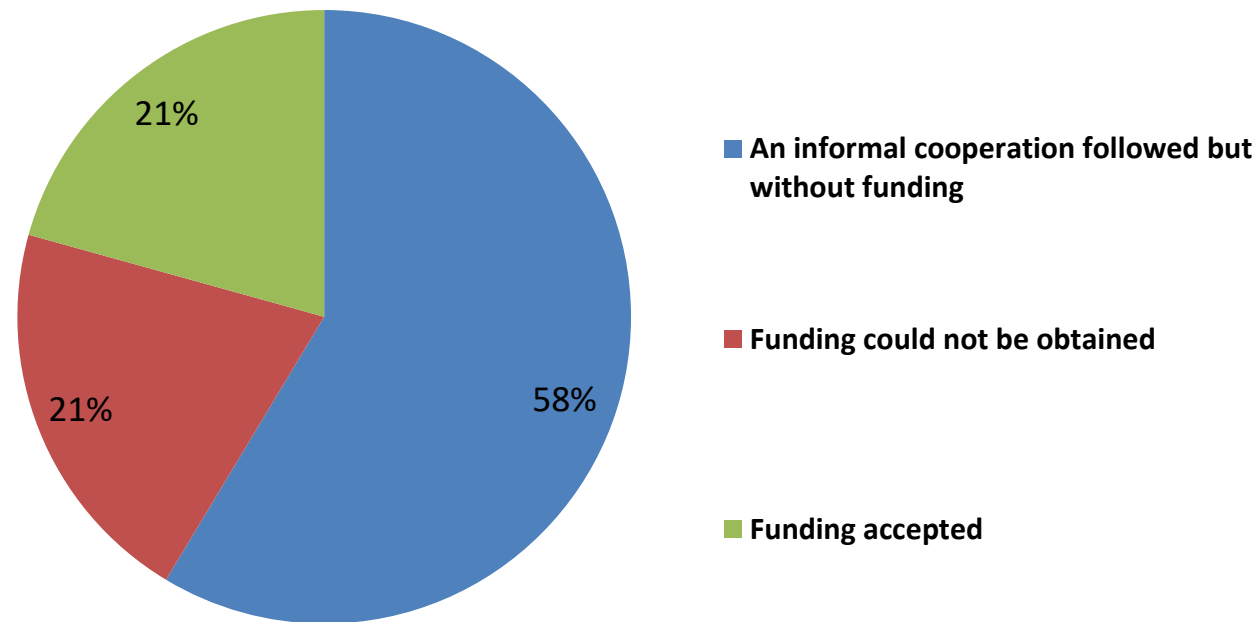
Data from 37 responses

CONTINUATION OF THE COOPERATION 2017-2023

(3/6)

(DATA FROM THE SURVEY)

21% of cooperations have been funded following the project



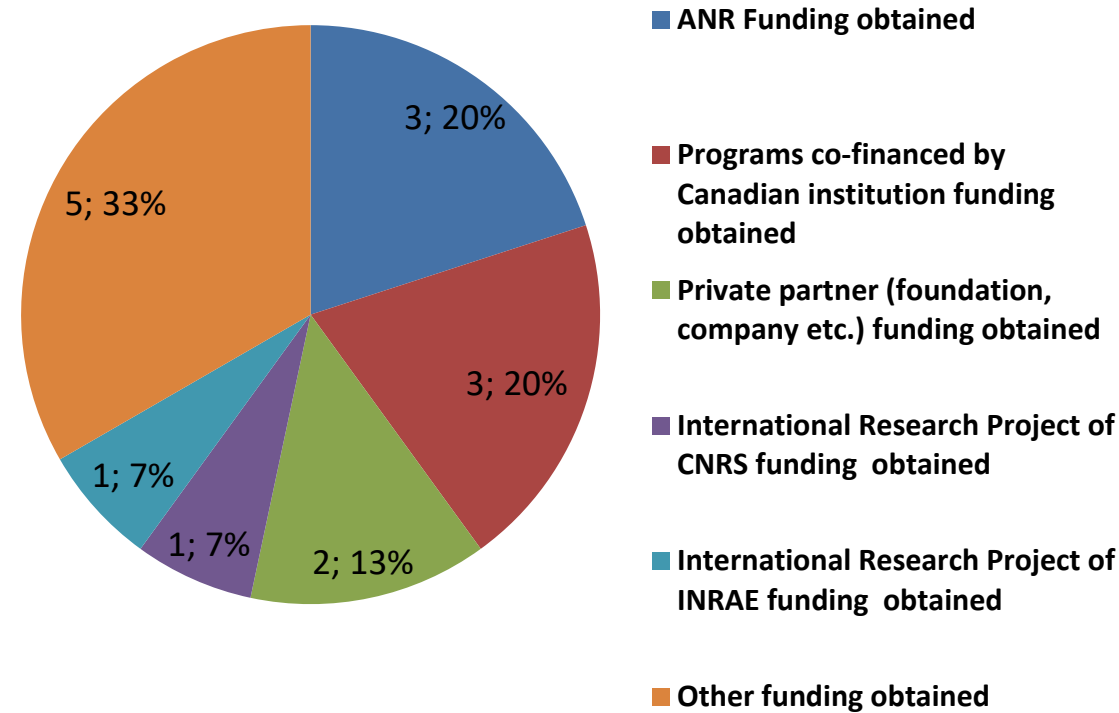
Data from 29 responses

CONTINUATION OF THE COOPERATION 2017-2023

(4/6)

(DATA FROM THE SURVEY)

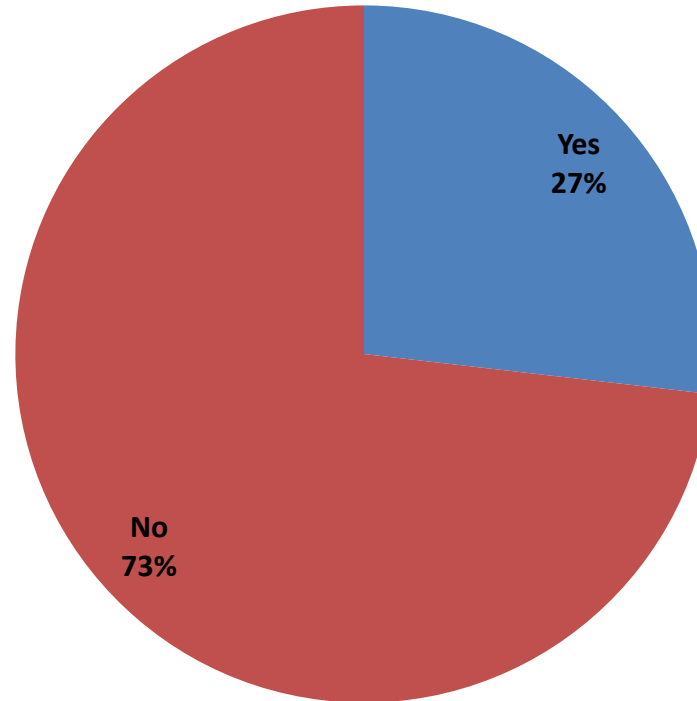
What kind of funded collaborations after the CHAMPLAIN RESEARCH project ?



Data from 12 responses

CONTINUATION OF THE COOPERATION 2017-2023 (5/6) (DATA FROM THE SURVEY)

Has the French-Quebec cooperation involved new partners?



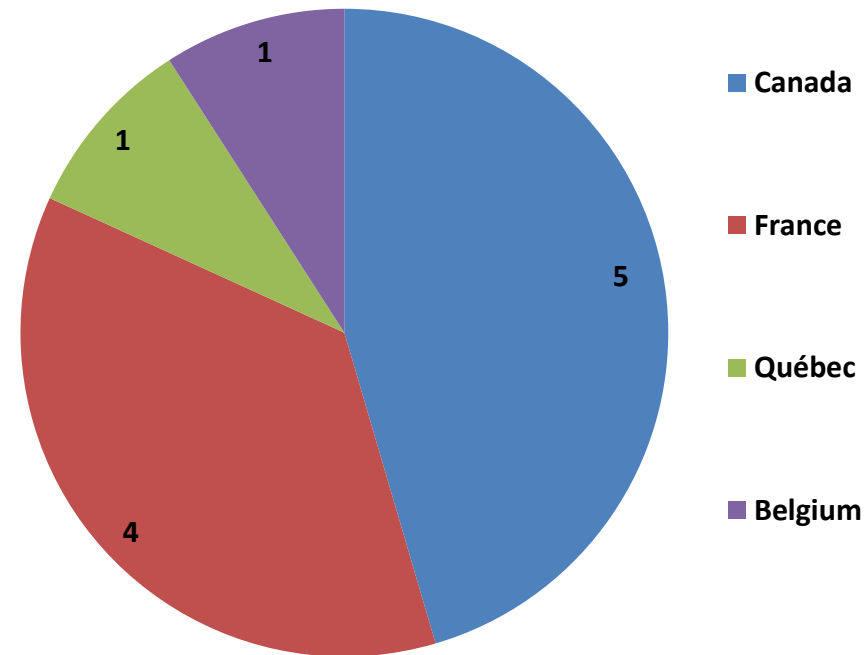
Data from 41 responses

CONTINUATION OF THE COOPERATION 2017-2023

(6/6)

(DATA FROM THE SURVEY)

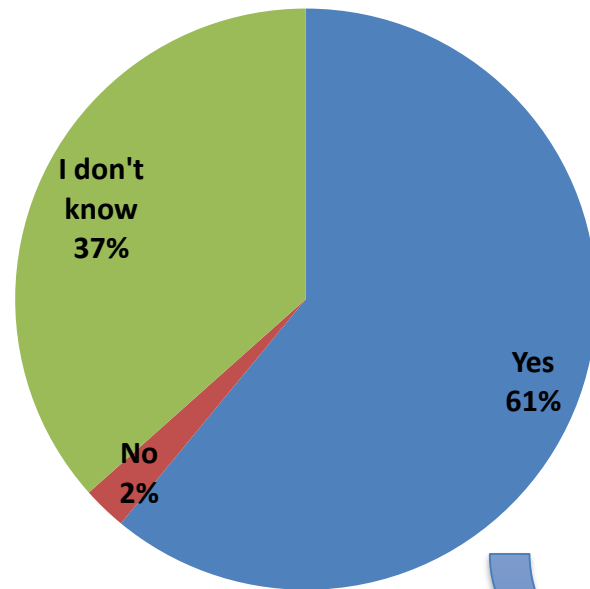
If the French-Quebec cooperation involves new partners, list with which countries



Data from 9 responses

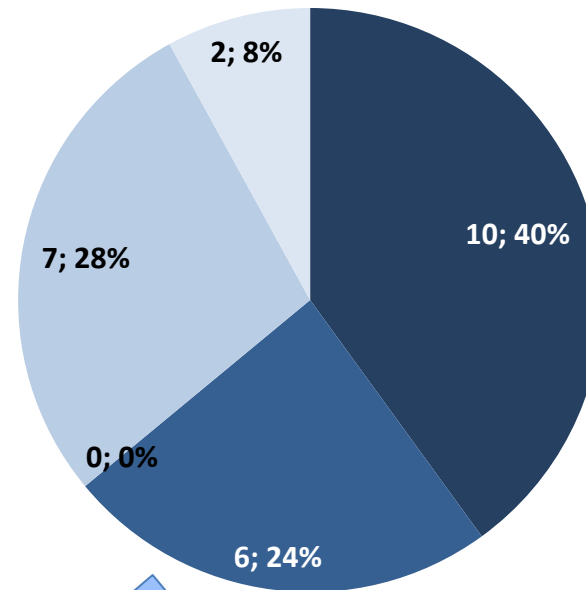
IMPACT ON YOUNG RESEARCHERS' CAREER (2017-2023) (1/2) (DATA FROM THE SURVEY)

Was young researchers' career impacted by the CHAMPLAIN RESEARCH program ?



Data from 41 responses

Type of impacts



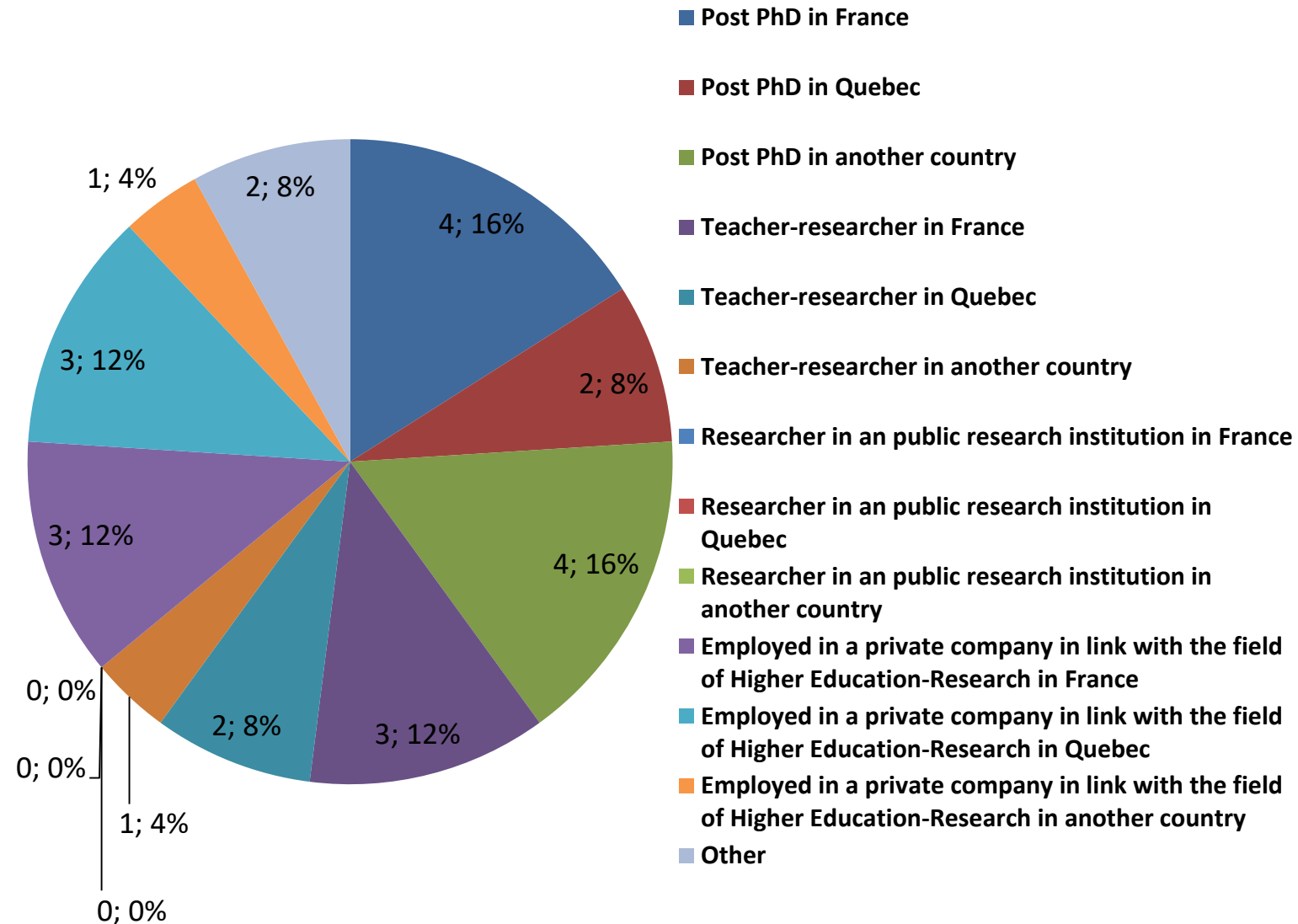
Data from 27 positive responses for a total of 25 young researchers

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

IMPACT ON YOUNG RESEARCHERS' CAREER 2017-2023

(2/2)

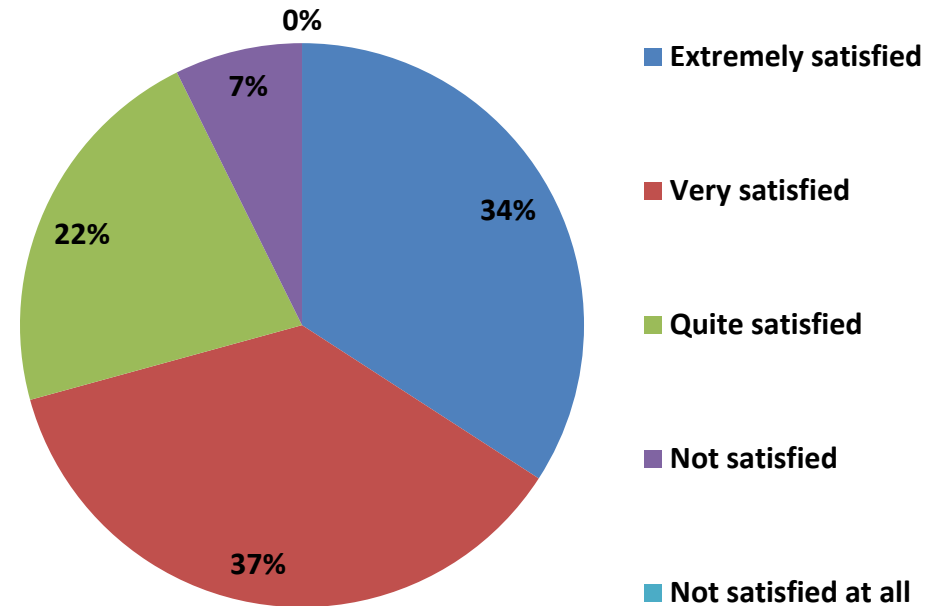
(DATA FROM THE SURVEY)



Data from 27 positive responses for a total of 25 young researchers

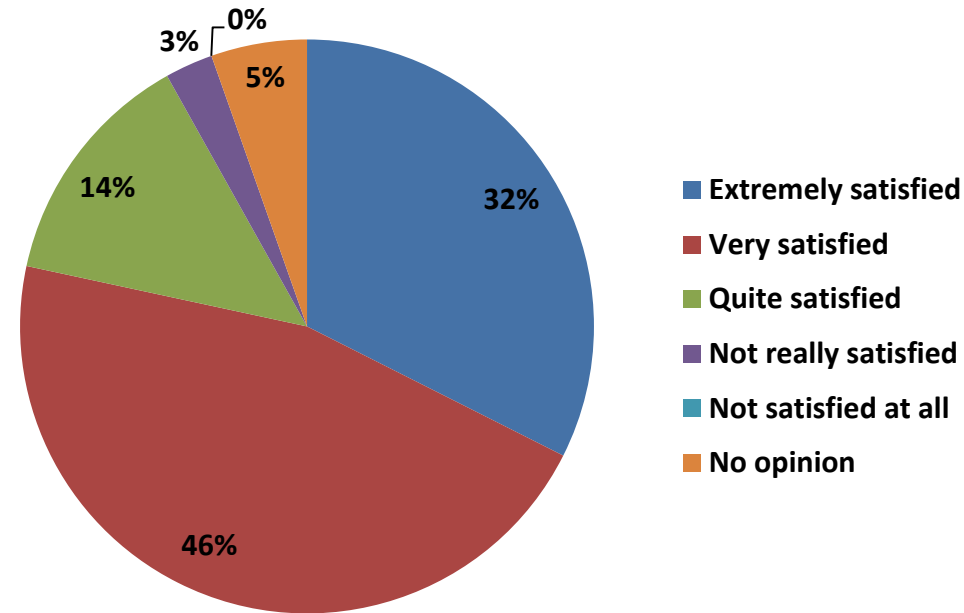
GENERAL OPINION OF FRENCH PIS ON THE PROGRAM 2017-2023 (DATA FROM THE SURVEY)

93% of French principal investigators are satisfied



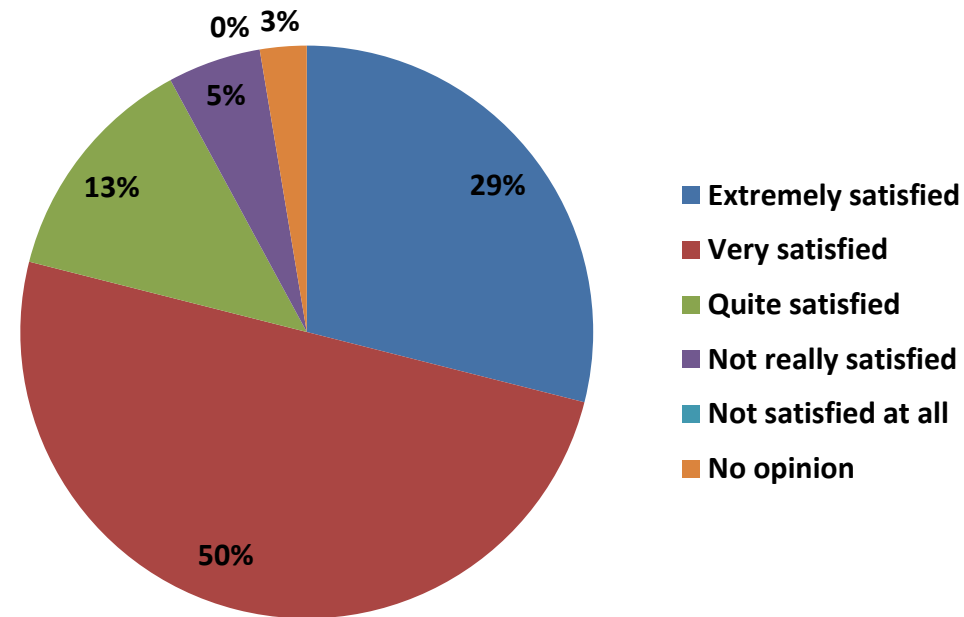
Data from 41 responses

OPINION OF FRENCH PIS ABOUT FRENCH EMBASSY HELP 2017-2023 (DATA FROM THE SURVEY)



Data from 37 responses

OPINION OF FRENCH PIS ABOUT ADMINISTRATIVE MANAGEMENT 2017-2023 (DATA FROM THE SURVEY)



Data from 38 responses

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

2017-2023

POSITIVE COMMENTS



Strengths of this program	Number of occurrences (out of 191)	% of funded projects
Fostering researchers' mobility	32	78%
Fostering an international research cooperation	27	66%
Simplicity of the project application process	22	54%
Fostering the training of the young researchers	21	51%
Fostering exchanges enabling scientific production	20	49%
Sufficient financial means for the mobility costs	15	37%
Helping to know the partner country	10	24%
Helpful to initiate other fundraising	10	24%
Easy implementation (administrative flexibility)	8	20%
Financial autonomy towards your institution	6	15%
Transparency of the selection process	5	12%
Good scientific-added value on financial investment	5	12%
Flexibility of the programme for actions co-financed with the Quebec partner	4	10%
Sufficiently long duration of the projects	3	7%
Timetable for implementation	3	7%
Sufficient amount of mobility time given to collaborate	0	0%
Other	0	0
<i>Total number of occurrences</i>	191	

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM 2017-2023

NEGATIVE COMMENTS



Weaknesses of this program	Number of occurrences (out of 71)	% of funded projects
Insufficient financial means to cover a project	18	44%
Length of support too short	11	27%
Financial means insufficient for the expenditure of mobility (transport)	8	20%
Too short duration of mobilities	7	17%
Difficult to continue the cooperation	5	12%
Administrative heaviness of the missions management	5	12%
Financial means insufficient for the expenditure of mobility (per diem)	4	10%
Timetable for implementation	4	10%
Heaviness of the process of applications	2	5%
Lack of transparency in the selection process	1	2%
Insufficient communication on the evaluation's results	1	2%
Too low number of mobilities	1	2%
Financial autonomy towards your institution	1	2%
Too long duration of mobilities	0	0%
Flexibility of the programme for actions co-financed with the partner	0	0%
Other	3	7%
<i>Total number of occurrences</i>	71	

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 candidates (66%) better than the general mean (23%)
Implication of women candidates (42%) and laureates (41%) better than the general mean (24% for both)



76% of funded projects with the participation of at least one french or Quebec young researcher

Continuation of the cooperation (90%) better than the general mean (81%)

48% of the cooperations with the same previous Quebec partner

A low percentage of responses from women candidates

59% of the projects with no scientific coproductions



Low average annual scientific coproductions per project compared to the average of the other programs (0,55 vs 0,96)

Too low implication of french and quebec young researchers in the scientific coproductions

Rather low implication of young researchers in the mobilities

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PRELIMINARY RECOMMANDATIONS

- **Encourage new cooperations (only 49% of new cooperations)**
- **Enhance scientific coproductions (59% of projects with no scientific coproduction, 0,5 coproduction in average per project and per year)**
- **Increase the association of young researchers to the scientific coproductions (only 25% of the young french researchers participating to the projects are also implicated in the coproductions)**
- **Promote outgoing mobilities of french young researchers (only 30% of the outgoing mobilities)**



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 and attendants to this symposium.

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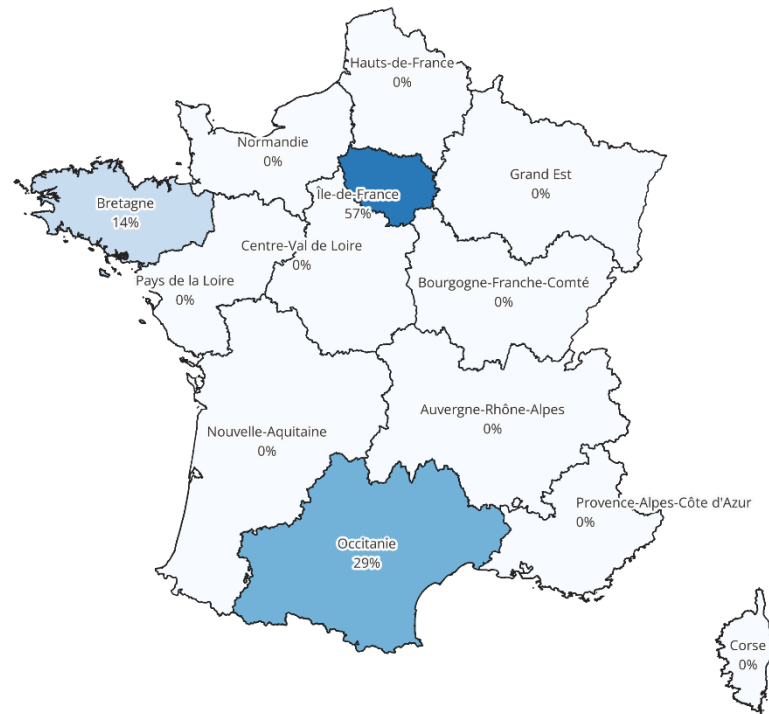
**MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR
ET DE LA RECHERCHE**

*Liberté
Égalité
Fraternité*

ANNEX REGIONALISATION AND SCIENTIFIC DOMAINS (CARTOGRAPHIES)

REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Mathematics 2017-2023*



Number of applications

Source: Analyse d'impact, Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

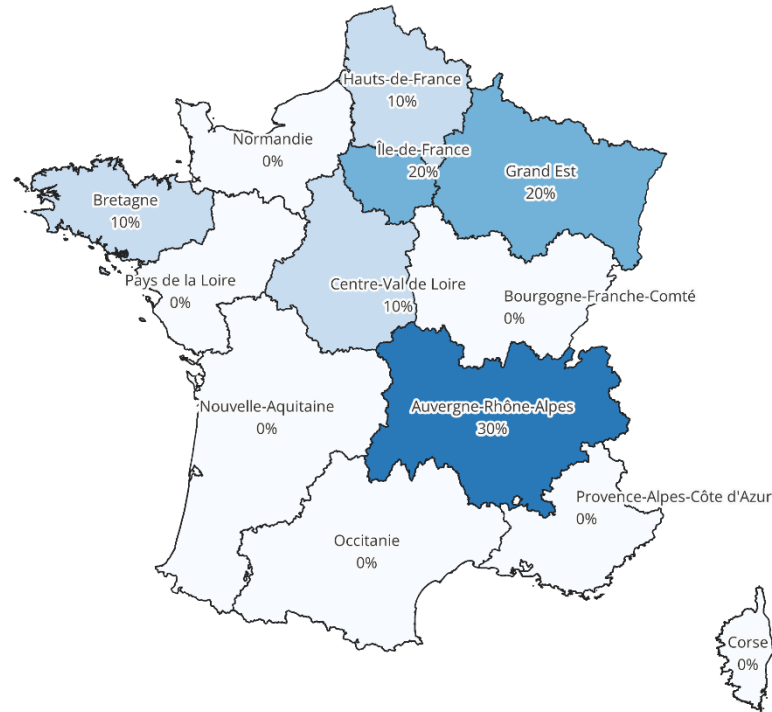
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Only three regions are concerned : Ile de France (the main contributor), Occitanie and Bretagne (with no selections)

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

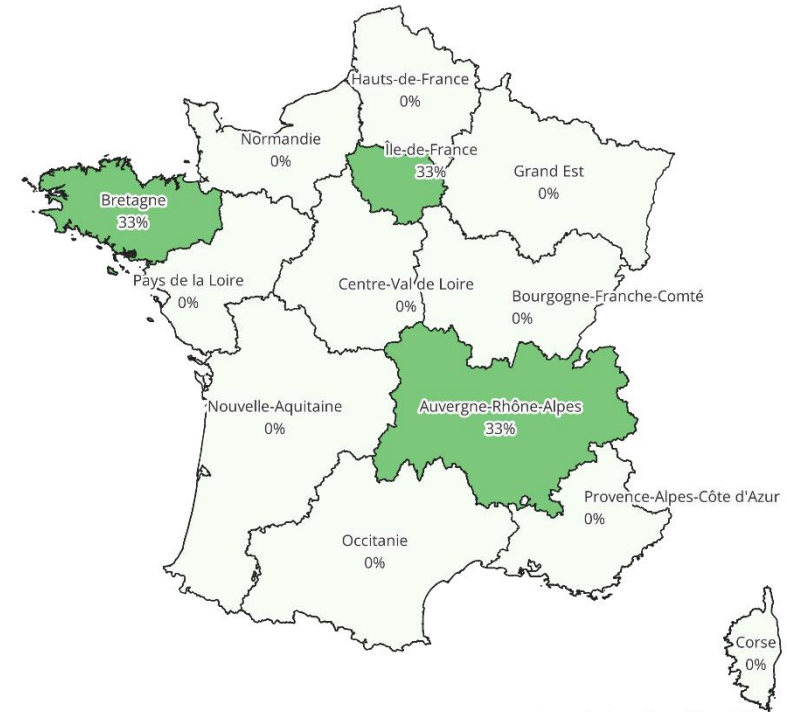
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Physics 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

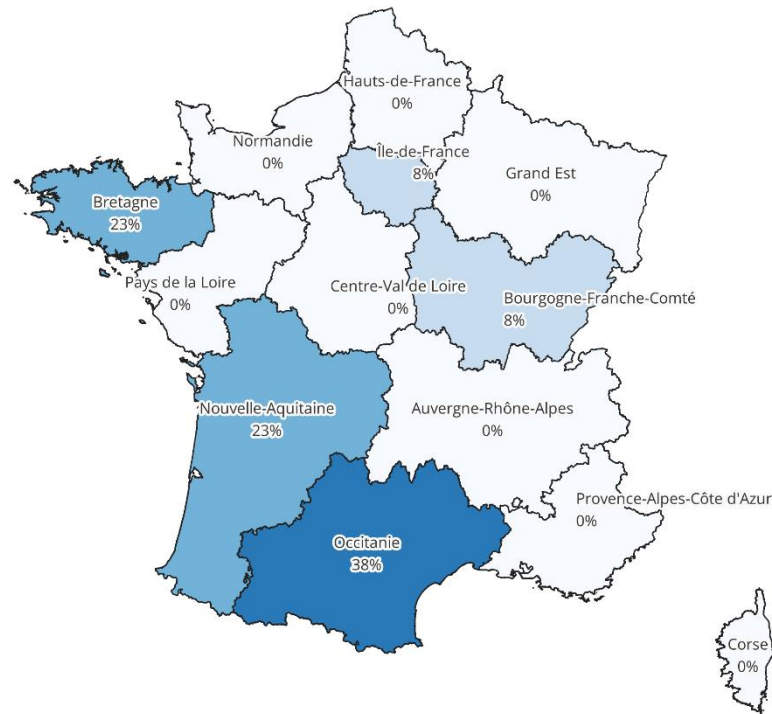
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Six regions are concerned with Auvergne-Rhône-Alpes ahead but only three benefit selections (of equal number)

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

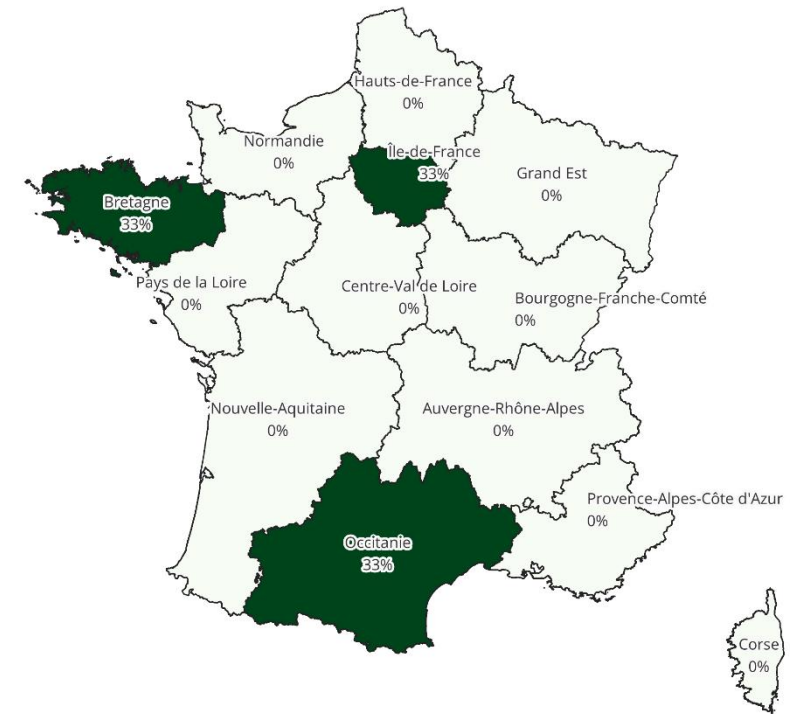
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Marine, Earth, Planet Sciences 2017-2023*



Number of applications

Source: Analyse d'Impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

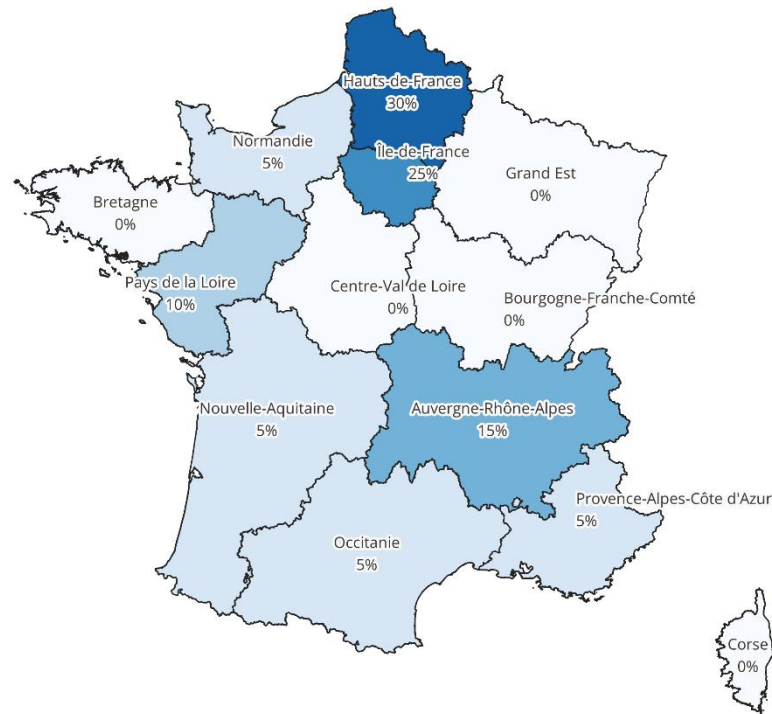
Source: Analyse d'Impact Samuel de Champlain Recherche, KSTOITSEVA

Five regions are concerned with Occitanie ahead but only three benefit selections (of equal number)

% 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 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Chemistry 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

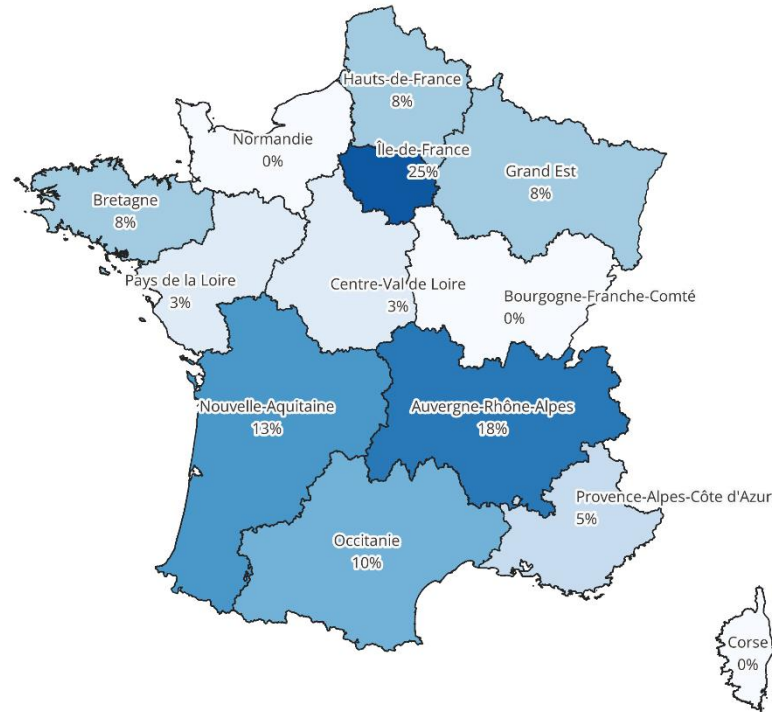
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Eight regions are concerned with Hauts de France ahead but only four benefit selections (with Ile-de-France ahead)

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

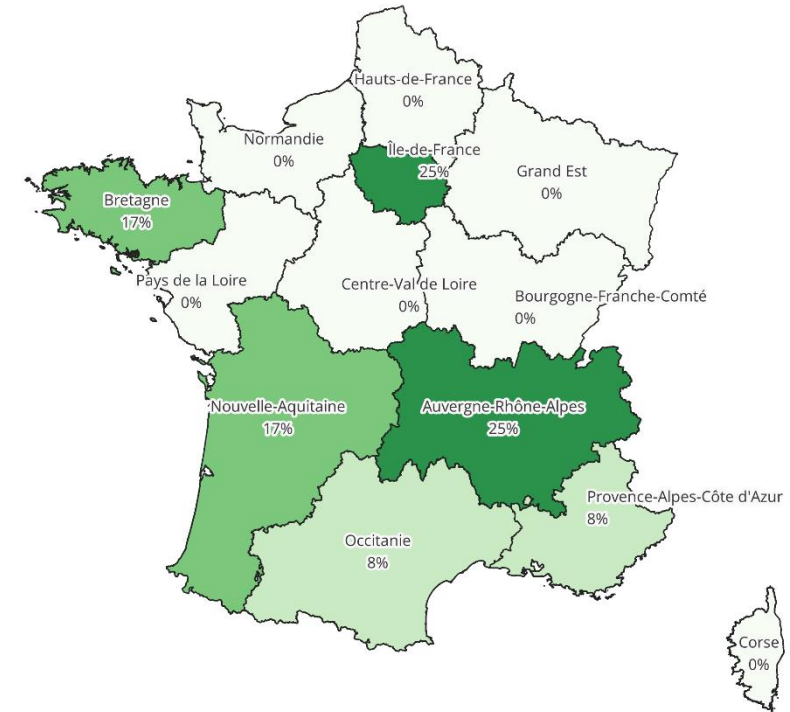
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Biology and Health 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Eleven regions are concerned with Ile-de-France ahead but only six benefit selections (with Ile-de-France and Auvergne-Rhône-Alpes ahead)

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

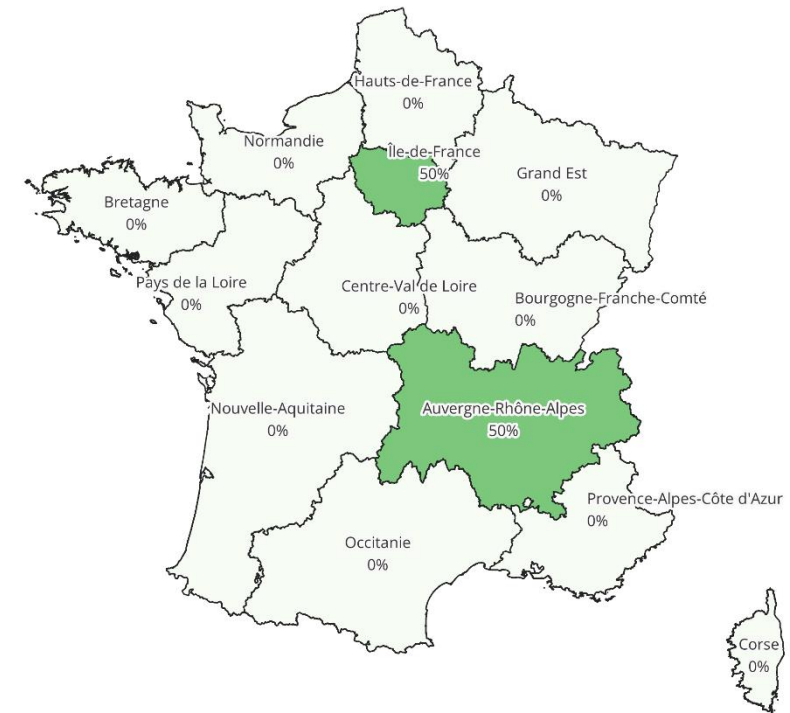
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Humanities 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

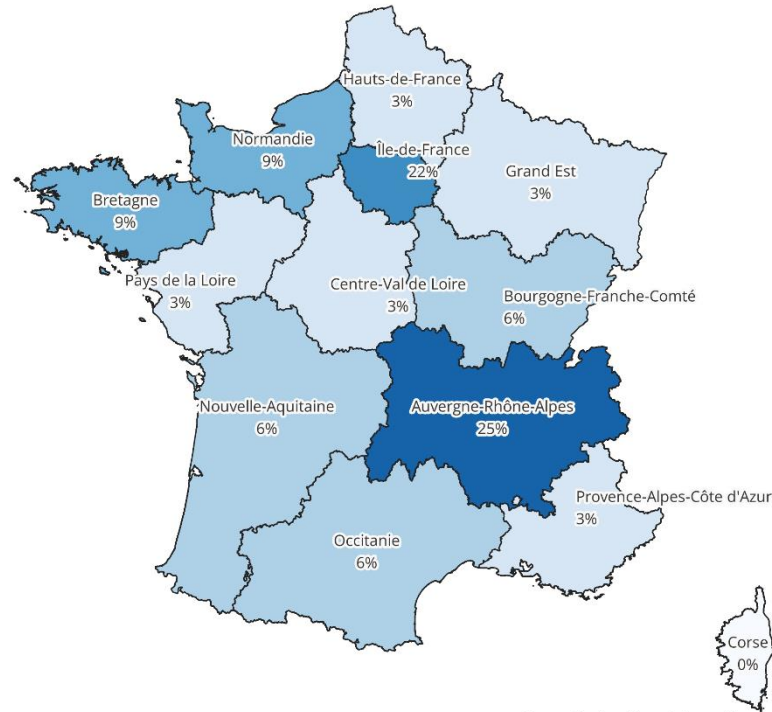
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Five regions are concerned with Ile-de-France ahead but only two benefit selections (Ile-de-France and Auvergne-Rhône-Alpes)

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

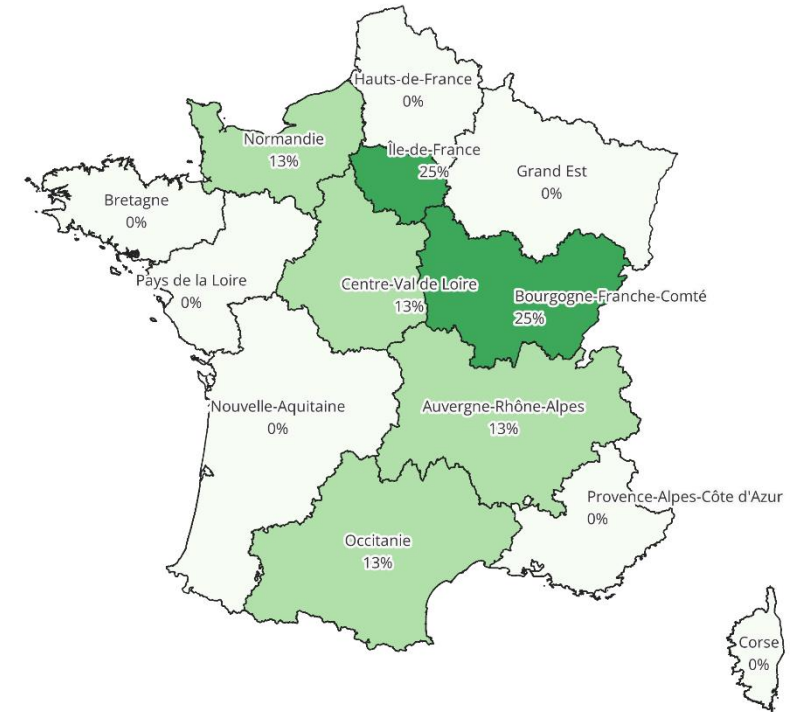
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Social Sciences 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

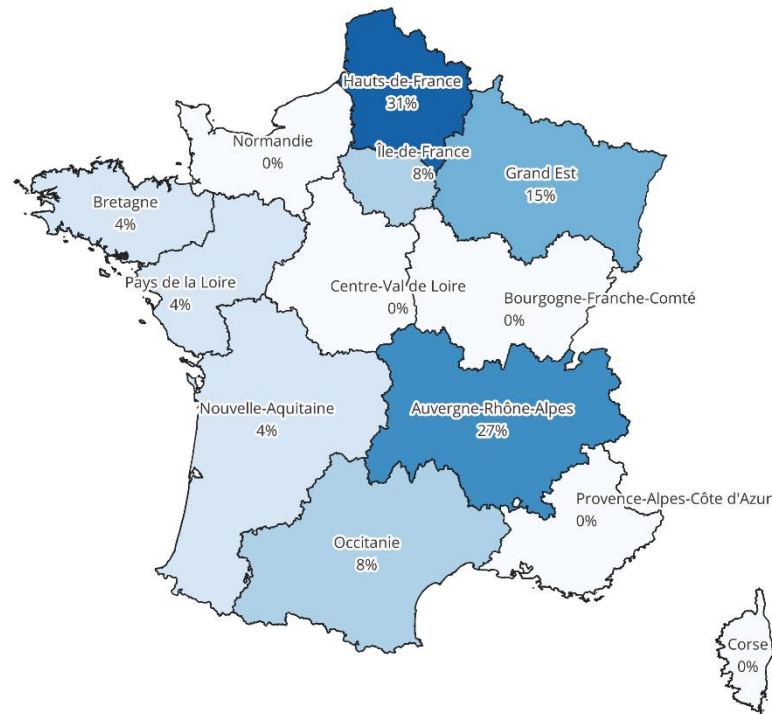
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Twelve regions are concerned with Ile-de-France ahead but only six benefit selections (with Ile-de-France and Bourgogne Franche-Comté ahead)

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

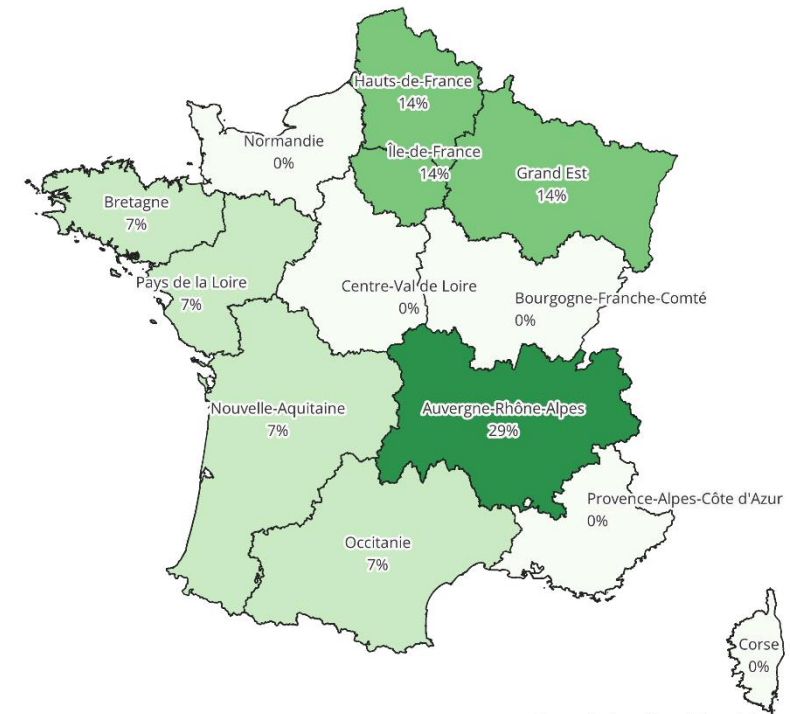
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Engineering Sciences 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

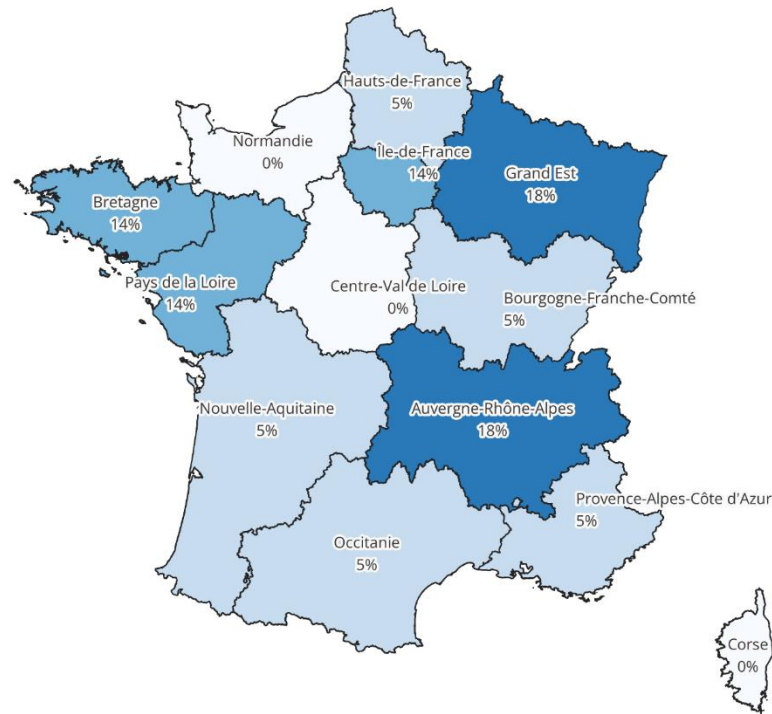
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Eight regions are concerned with Hauts de France ahead. All of them benefit selections (with Auvergne-Rhône-Alpes ahead)

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

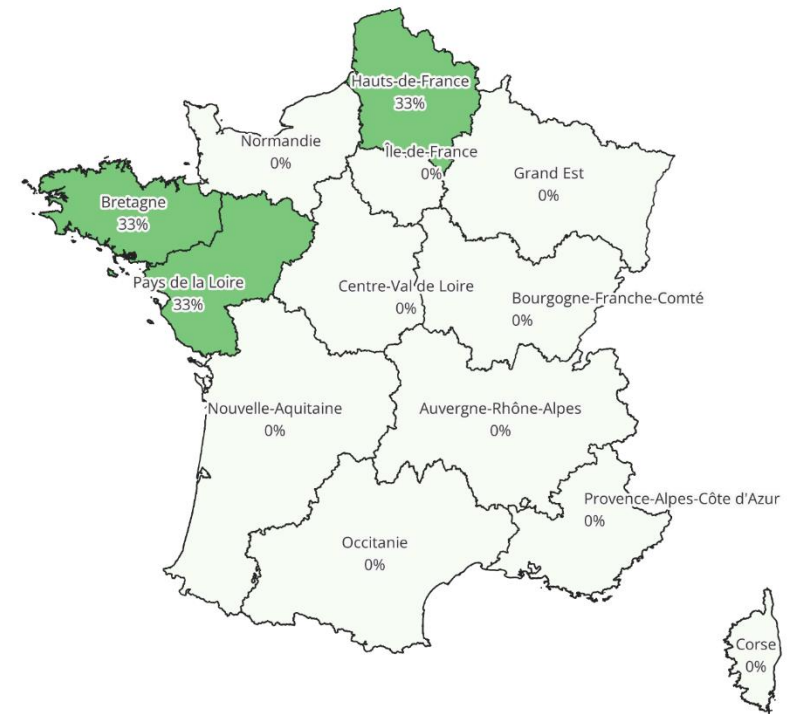
REGIONAL DISTRIBUTION OF SELECTED PROJECTS 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Information technology 2017-2023*



Number of applications

Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA



Number of selections

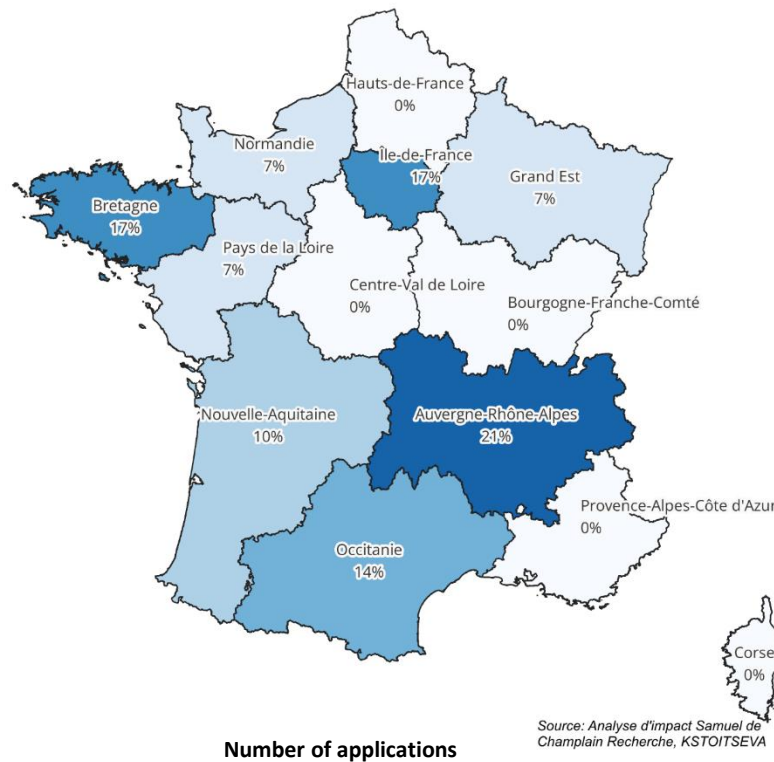
Source: Analyse d'impact Samuel de Champlain Recherche, KSTOITSEVA

Ten regions are concerned. Only three benefit selections (with an equal distribution)

% 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 2017-2023

Program CHAMPLAIN RESEARCH Regional percentages of applications and selections *Agronomy/Ecology 2017-2023*



Eight regions are concerned with Auvergne-Rhône-Alpes ahead. Only six 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