

FRANCE – SOUTH AFRICA PROTEA 20 YEARS ANNIVERSARY

Impact of the programme (2006-2016)

MESRI-MEIRIES / MEAE

2017



www.enseignementsup-recherche.gouv.fr



December 6th, 2017, Pretoria

General presentation of the programme

Creation : 1997

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

>> including budget from France : 120 000 € / year

>> including budget from South Africa : ~ 120 000 € / year

Number of new projects per year : ~ 17

From 2011-2015:

244 applications submitted

53 projects funded



Campus France

- Information about applications to the Programme Hubert Curien (PHC) Protea
- List of mobilities (France to South Africa)

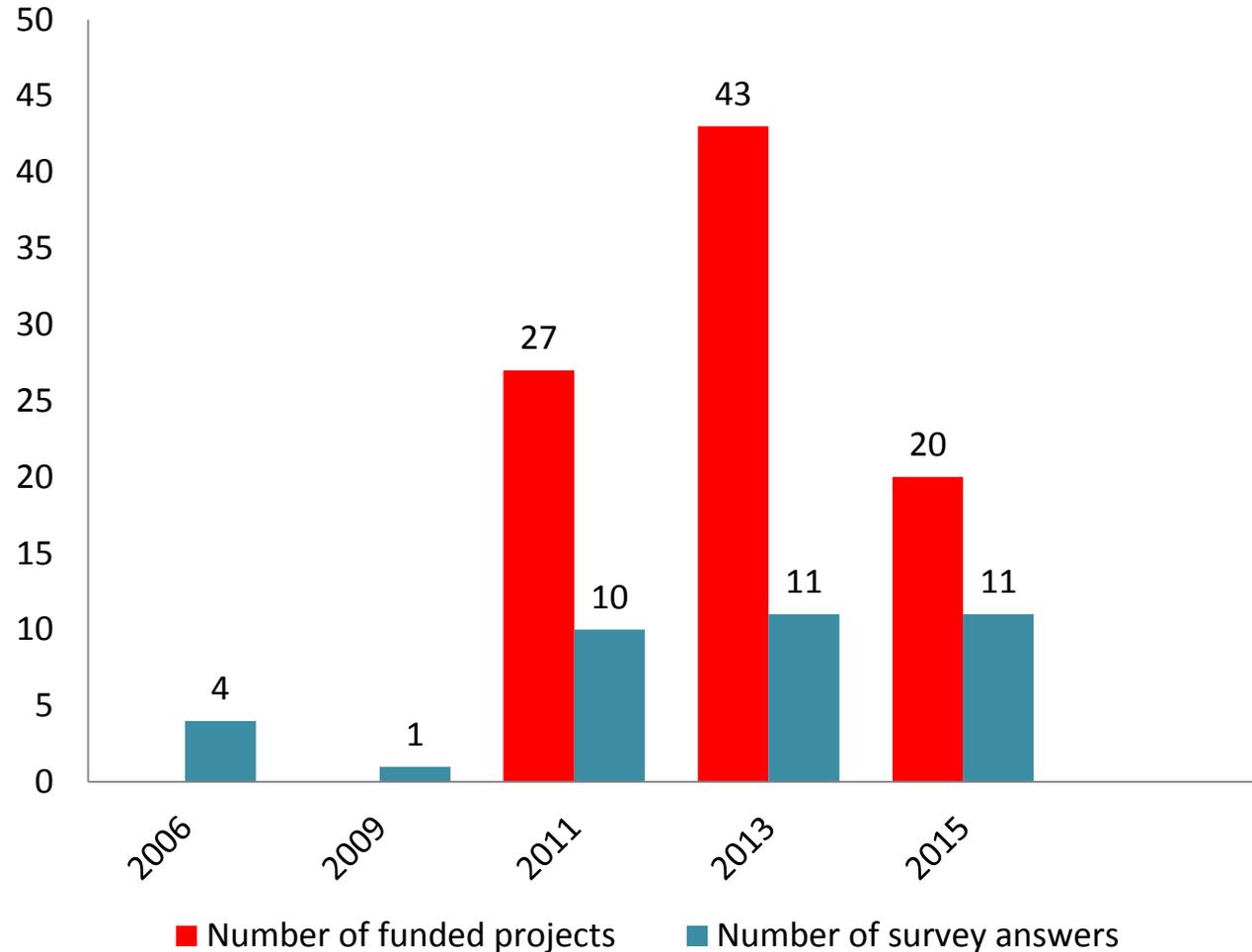
Survey *(conducted by the French Ministry of Higher Education, Research and Innovation)*

- Target : Principal Investigators of selected projects between 2006 and 2016
- Survey initiated in **July 2017** and ended in September 2017, focusing on the projects funded between 2006 and 2016
- **41%** response ratio *(37 respondents for 90 funded projects)*

Answers to the survey

**37
answers
(41 %)**

Average response rate to the survey : 41 % (37 answers)



Methodology (Survey)

After a common definition of an analysis framework with the Ministry for European and Foreign Affairs (MEAE), this survey was implemented jointly with the French embassy using the following structure:

- ✓ General information
- ✓ Scientific production
- ✓ Involvement of young researchers
- ✓ Mobility
- ✓ Perennity after the end of the project
- ✓ General opinion on the programme

Respondents : French Principal Investigators in the projects.

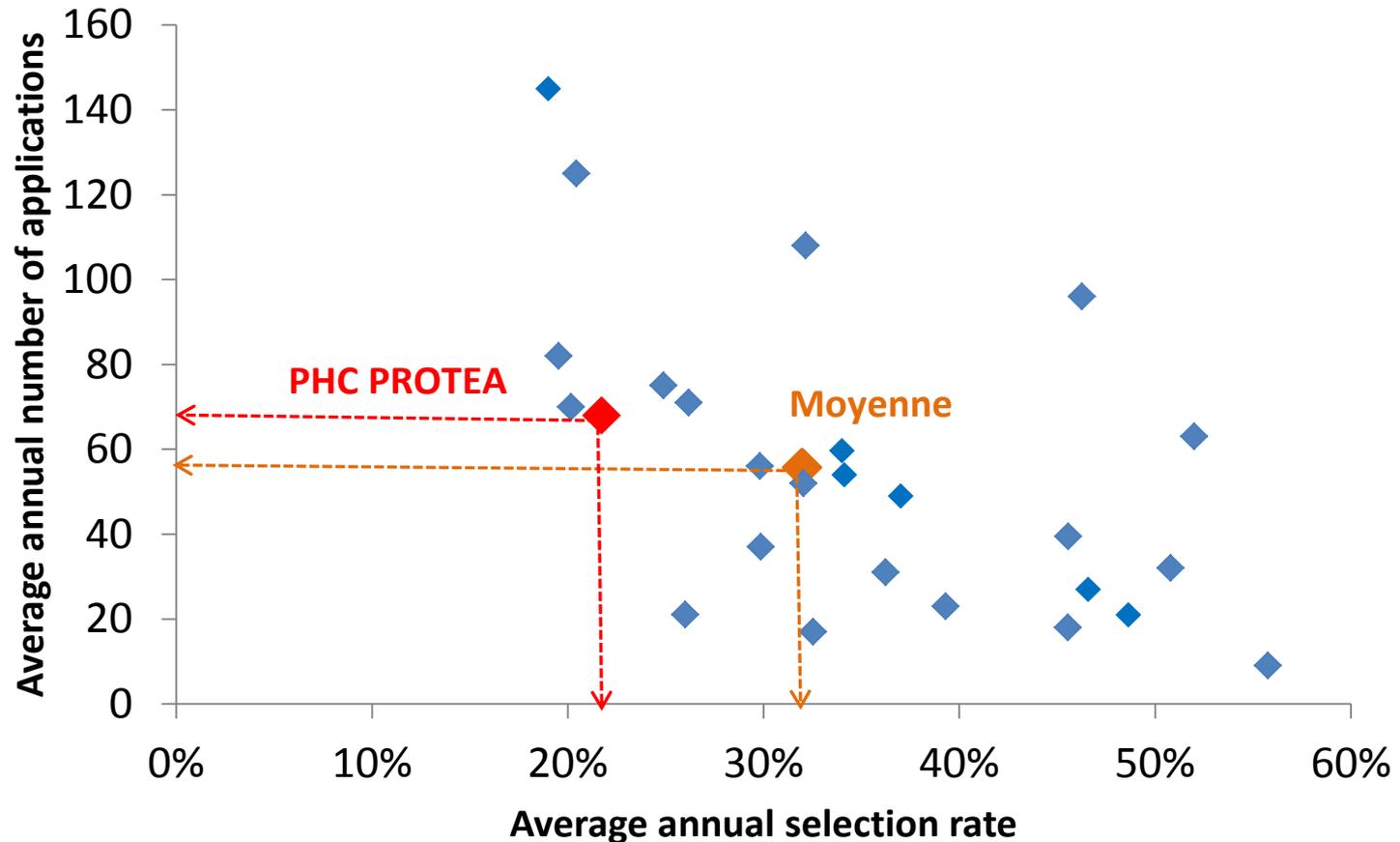
Data was collected from July to September 2017.



2006-2016 Key Points



NUMBER OF APPLICATIONS VS SELECTION RATE (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



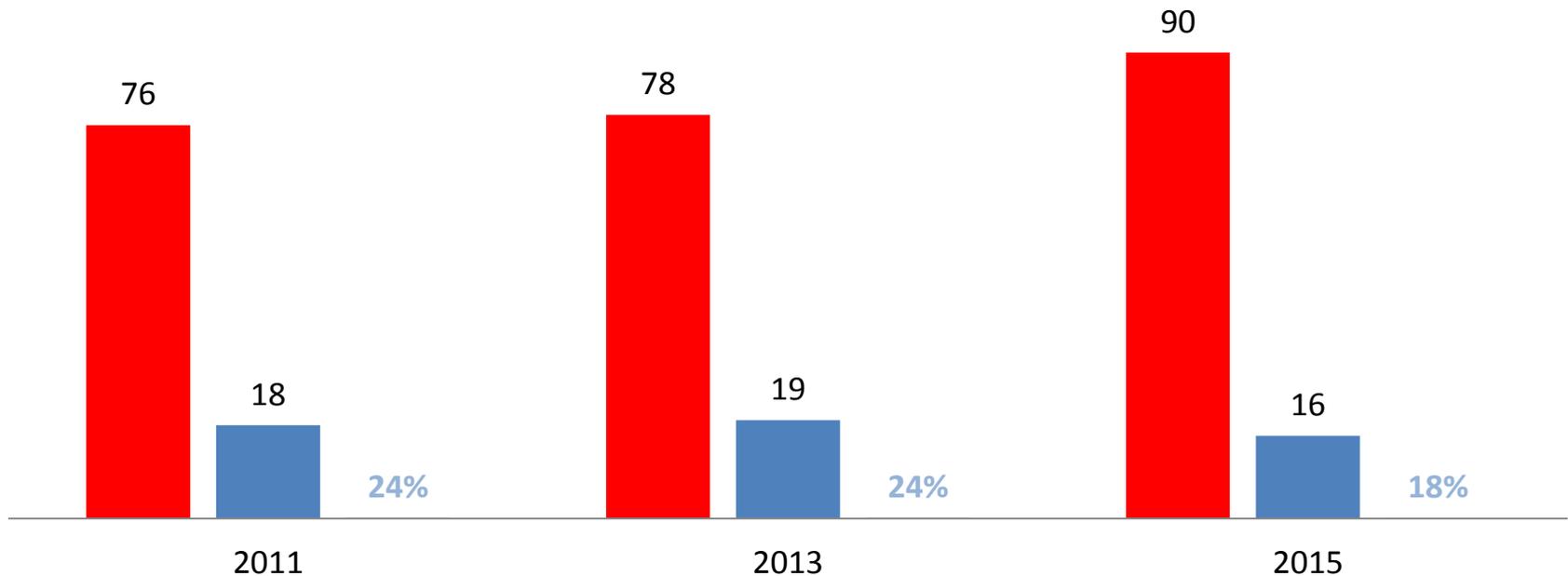
Average selection rate for 2006-2015 : 22% vs 32% mean
Average number of applications 2006-2015 : 68 vs 56 mean

Success rate

Campus
France
data

Average selection rate from 2011-2015: 22 %

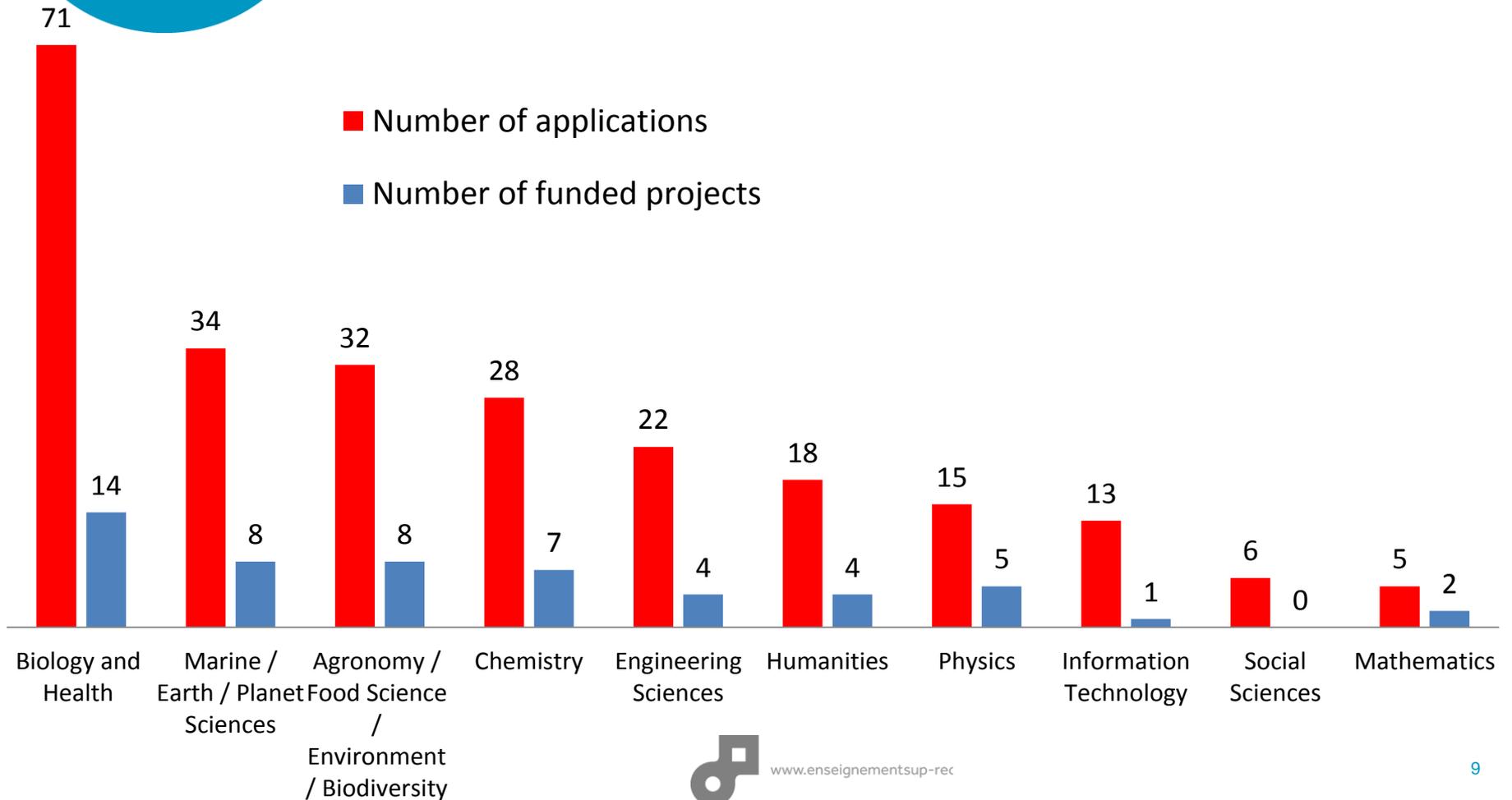
■ Number of applications ■ Number of funded projects ■ Selection rate



- Number of applications is fluctuant
- Number of funded projects remains constant



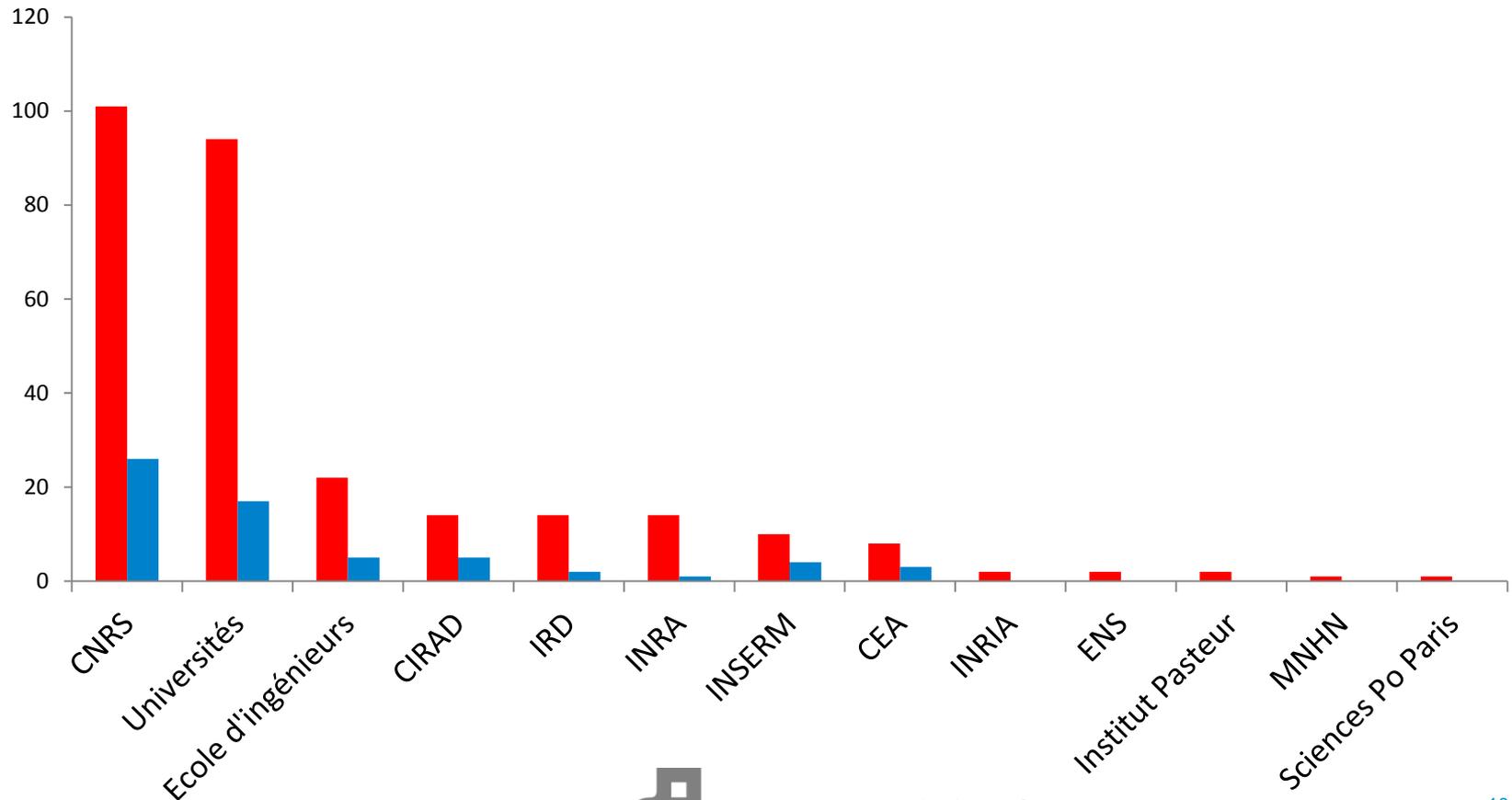
Projects by thematic areas



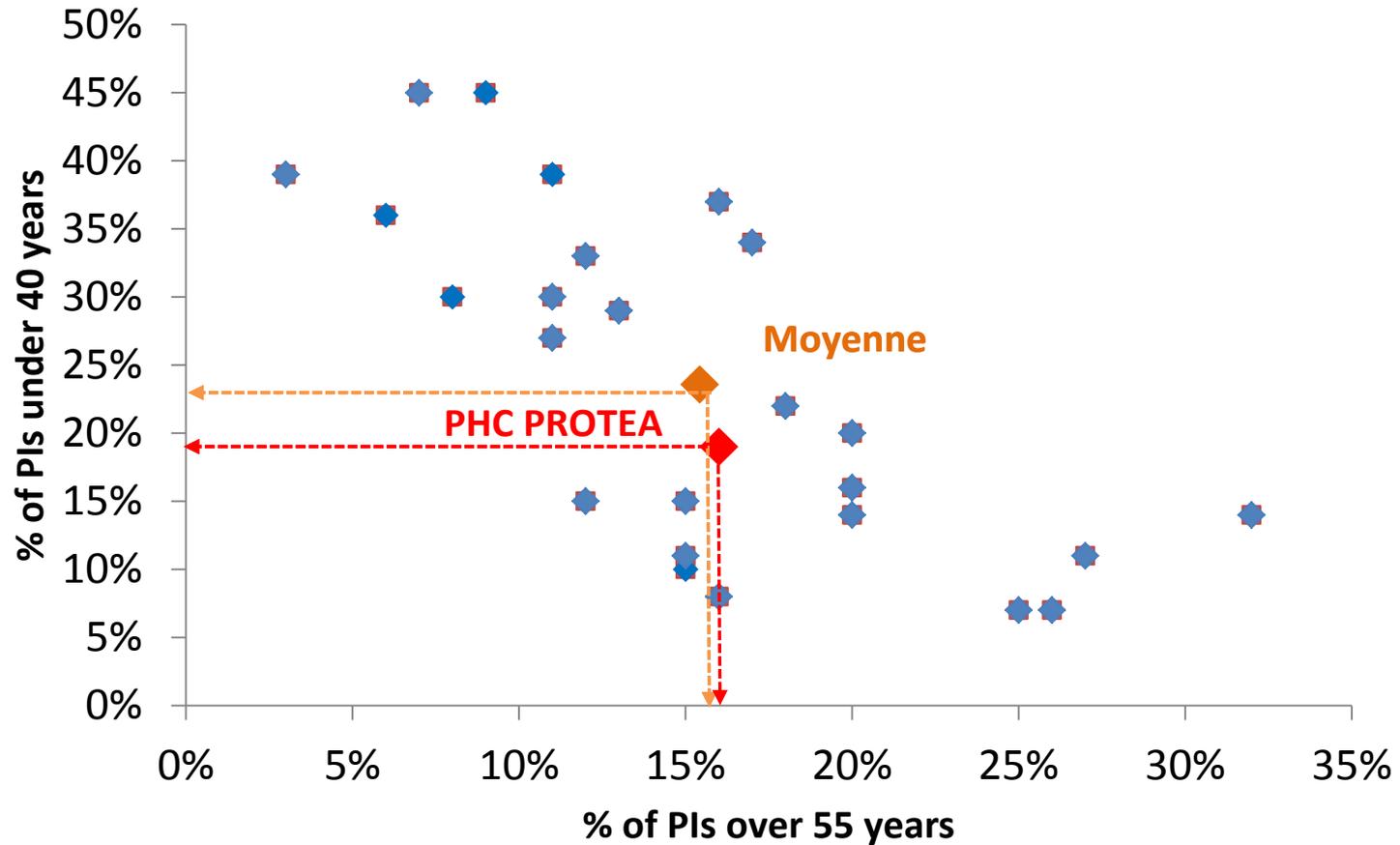
Main French participating institutions

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■ Number of applications ■ Number of funded projects



AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

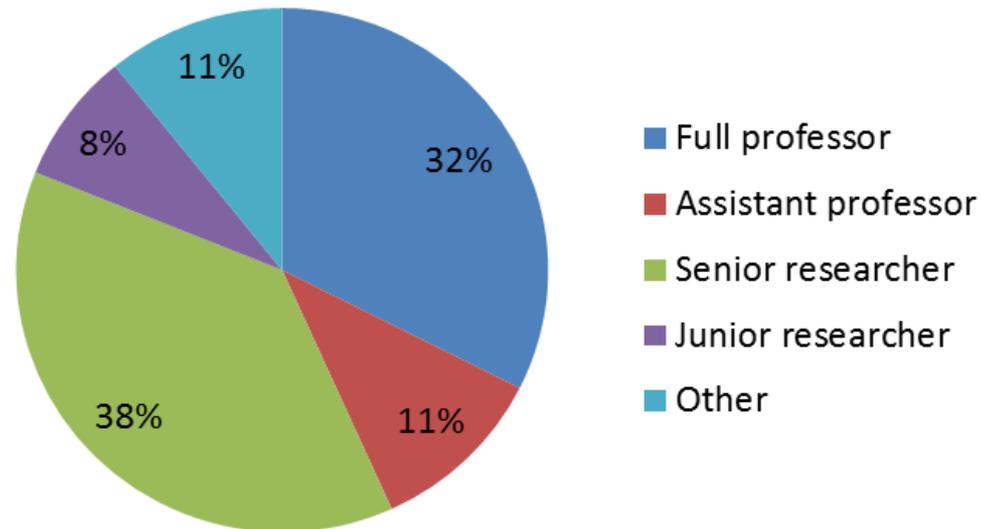


PIs under 40 years : **19% vs 24% mean**
 PIs over 55 years : **16% vs 15% mean**
65% of the PIs are between 40 and 55 years

French PIs (principal investigators)

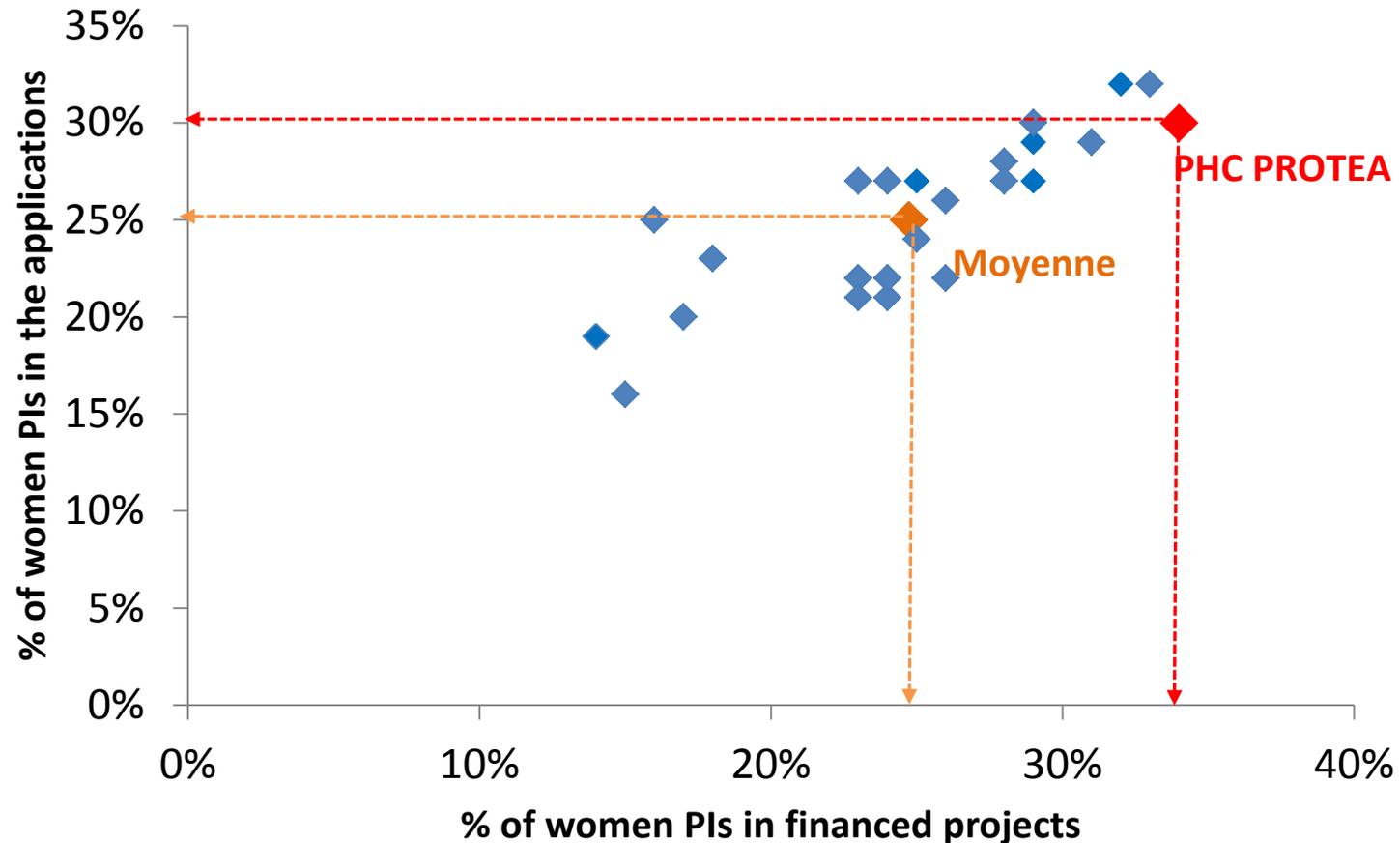
Campus
France and
survey data

Professional status



IMPLICATION OF WOMEN (FRANCE)

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

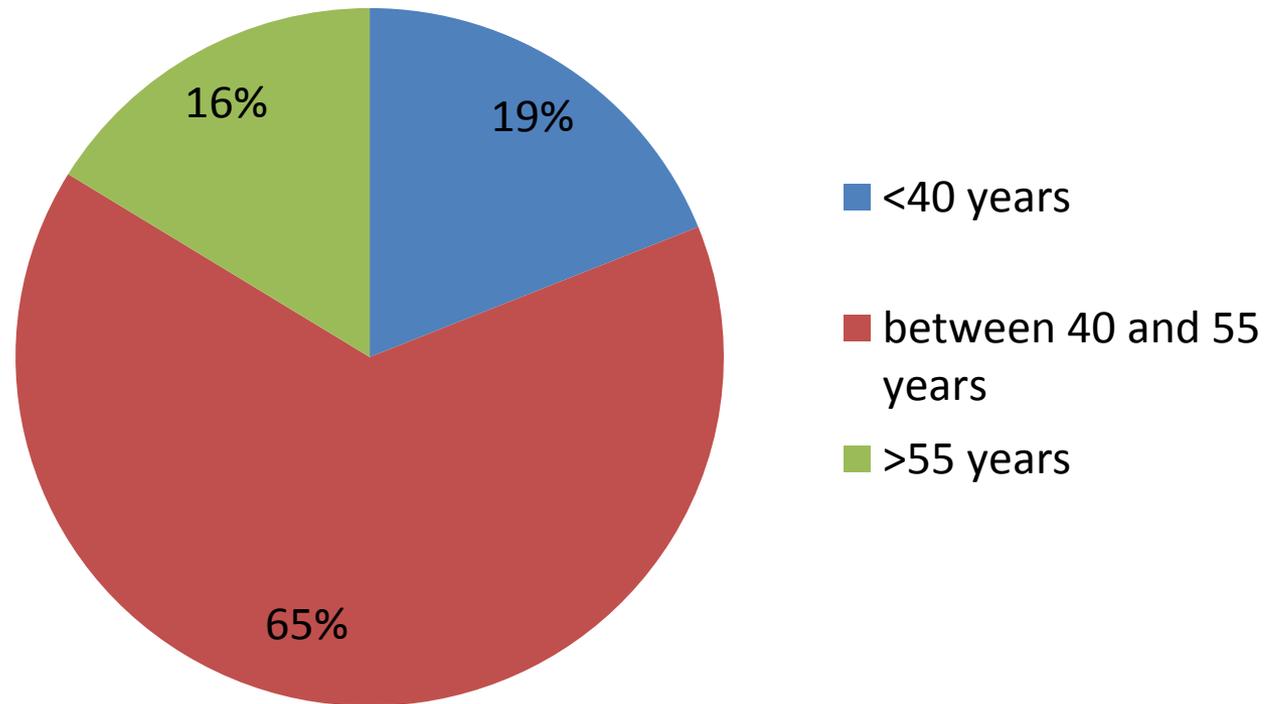


% of women PIs in the applications : 30% vs 25% mean
% of women PIs in the selected projects : 34% vs 25% mean

Participation of young researchers (1/3)

Survey
data

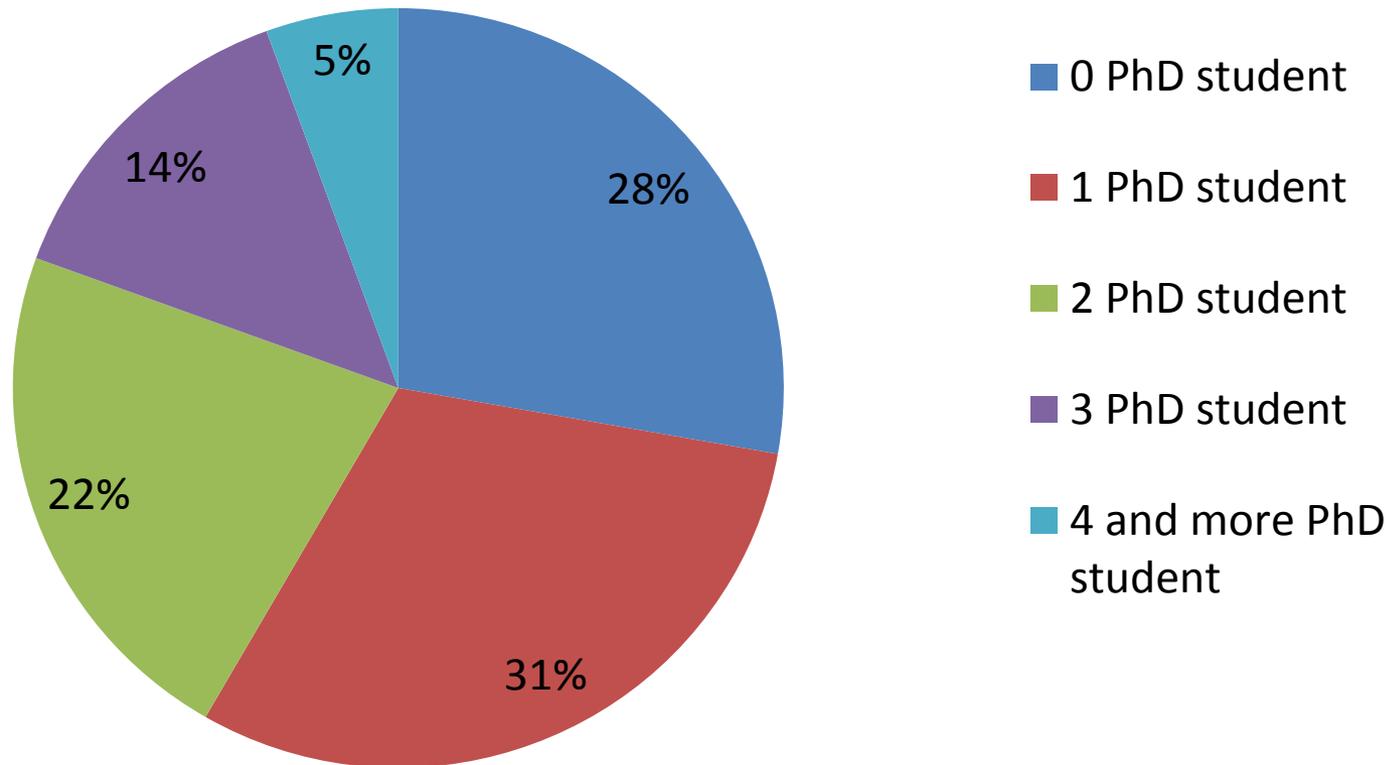
19 % of French PIs are young researchers



Participation of young researchers (2/3)

Survey
data

72 % of projects integrate PhD students

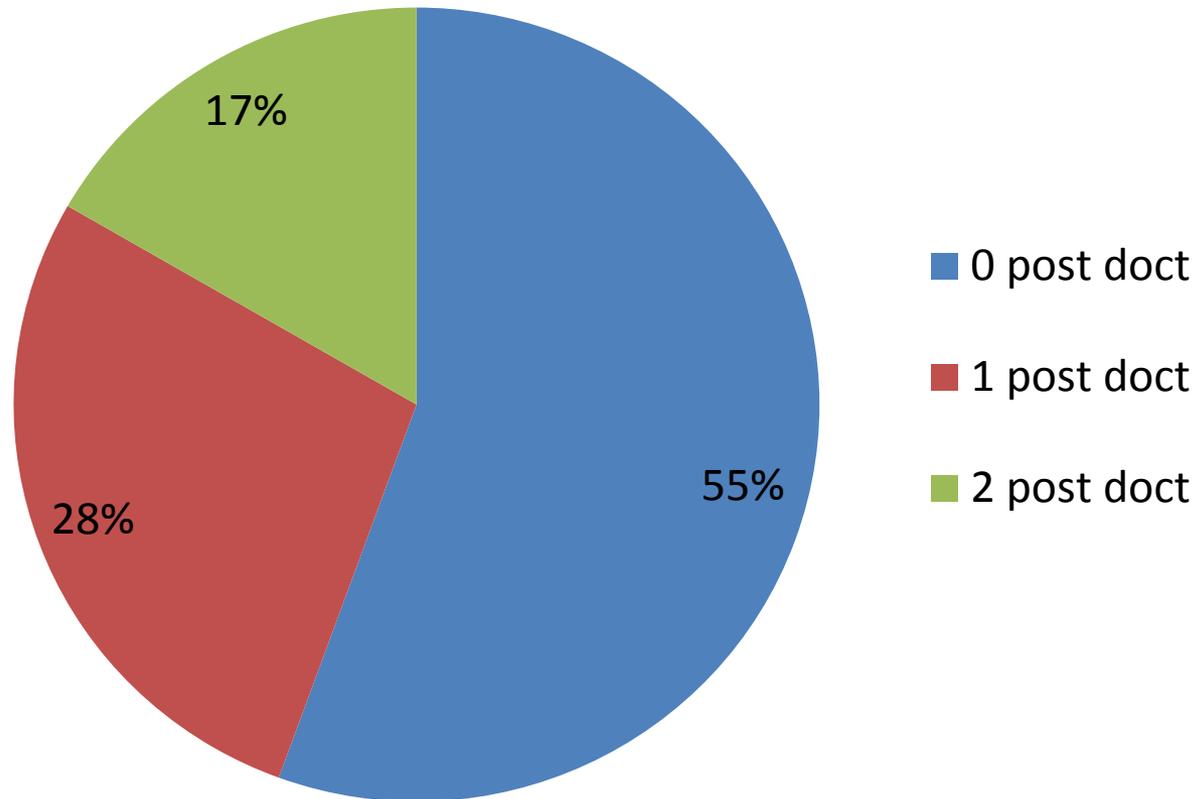


Participation of young researchers

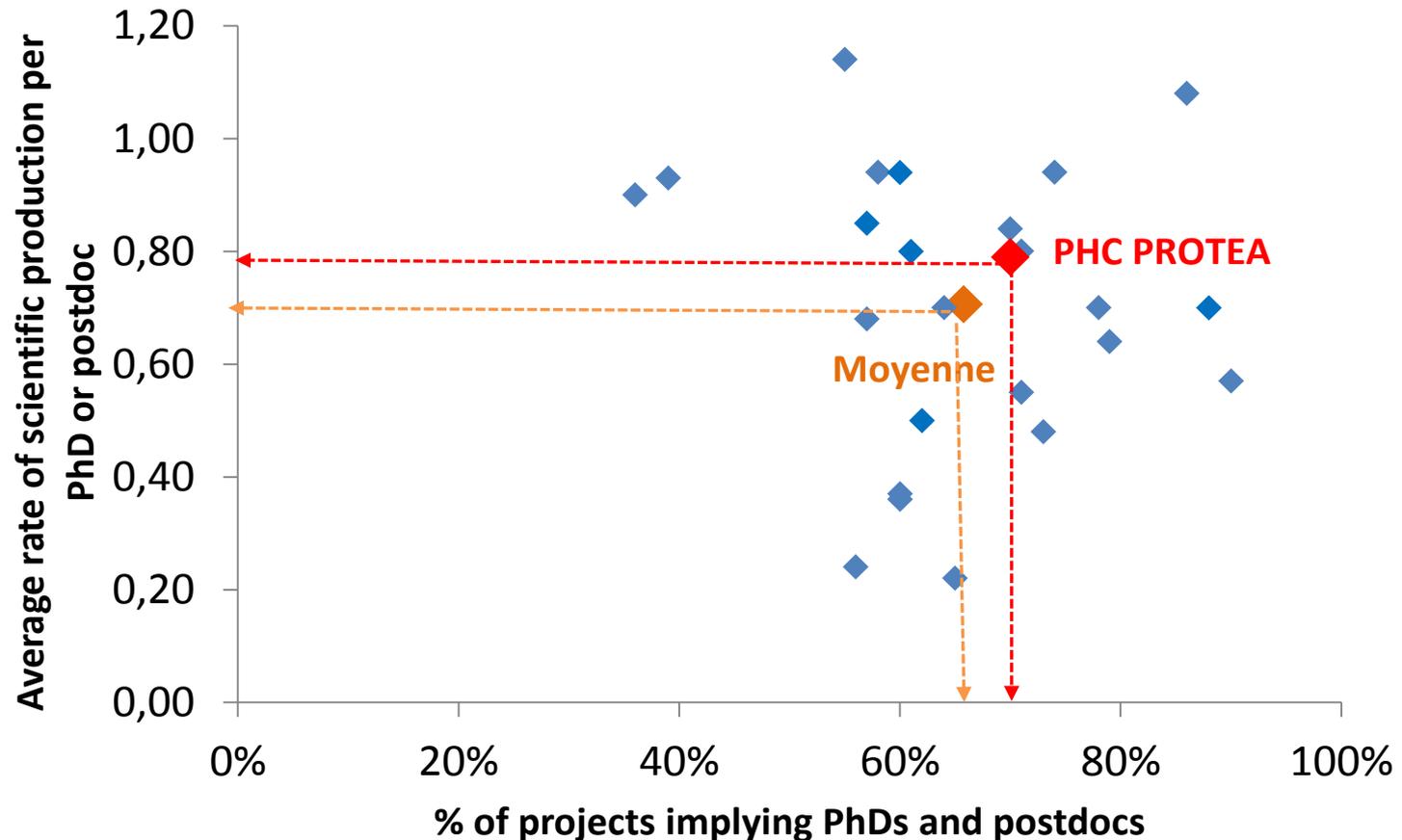
(3/3)

Survey
data

45 % of projects integrate post-doctoral researchers



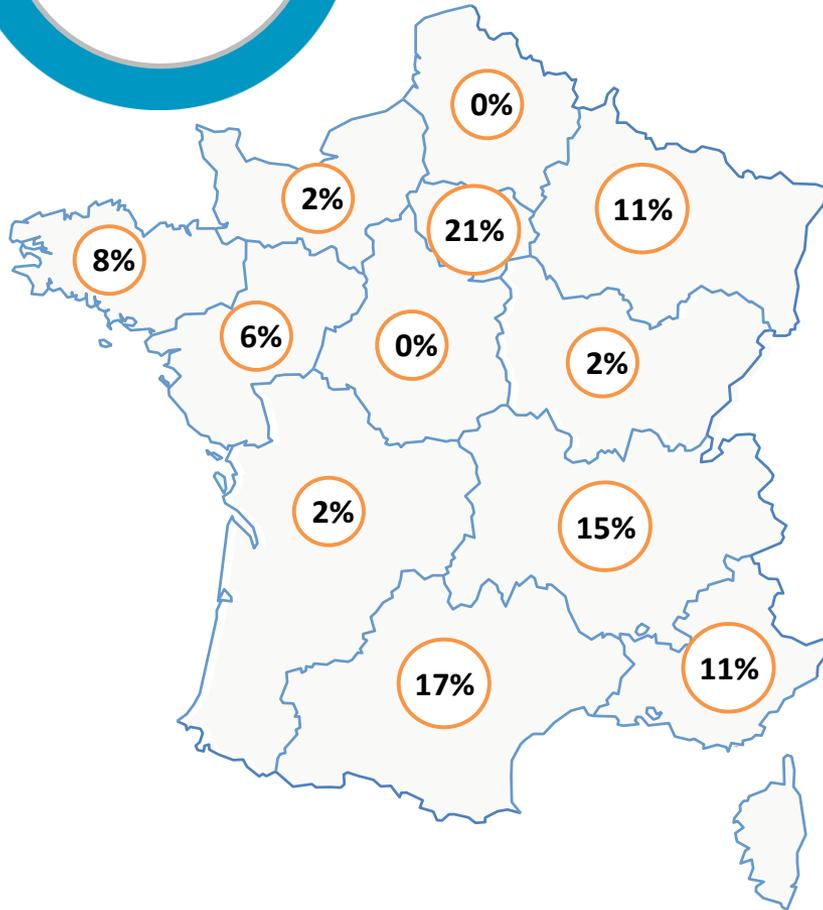
IMPLICATION OF PhDs and Postdocs (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



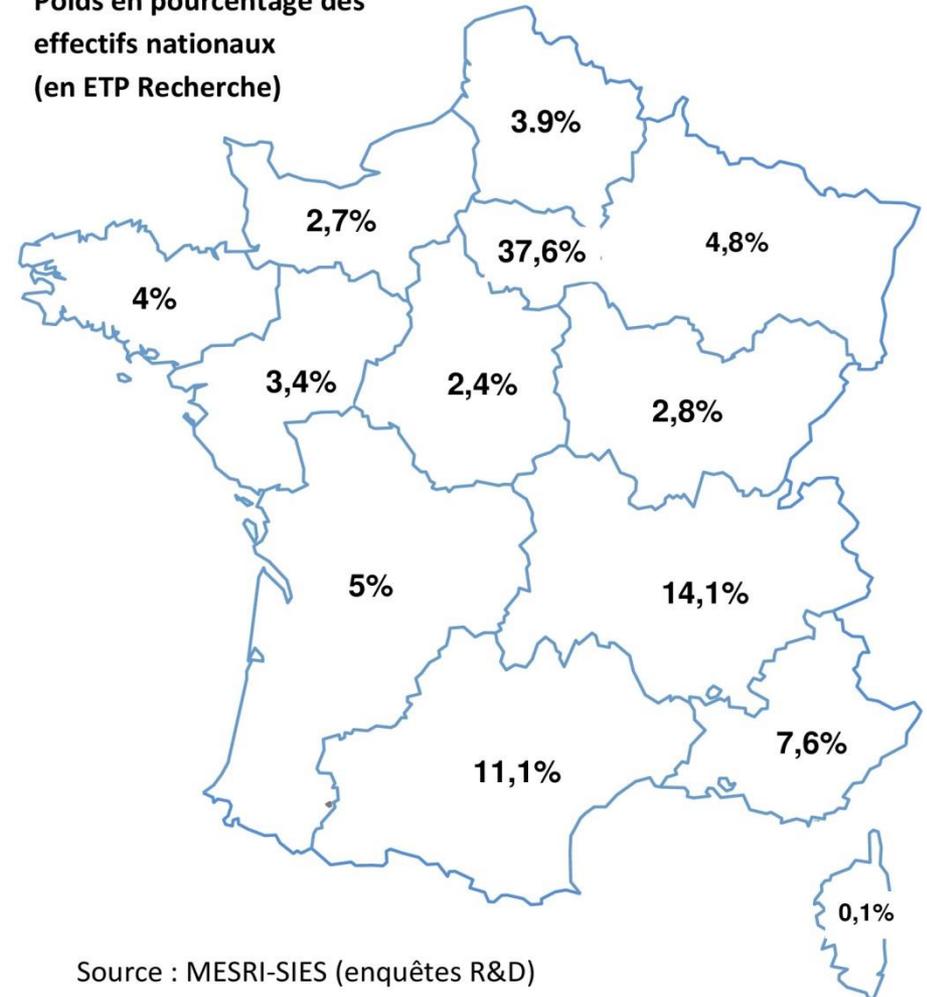
% of projects implying PhDs and Post-doc : 70% vs 66% mean
Average rate of scientific production per PhD : 0,79 vs 0,71

Geographical distribution : France

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France
data



Poids en pourcentage des
effectifs nationaux
(en ETP Recherche)



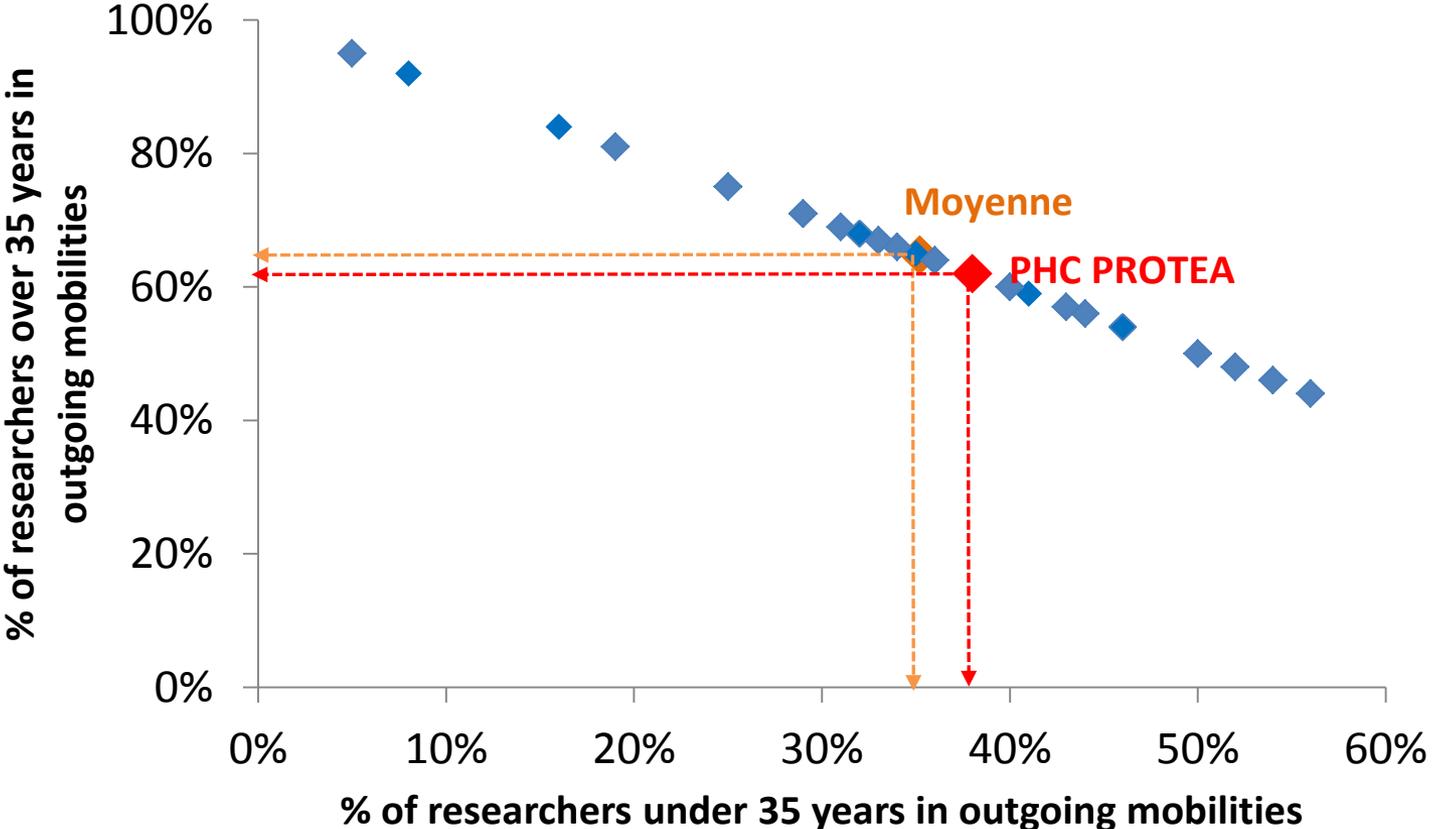
Source : MESRI-SIES (enquêtes R&D)



Mobility from France to South Africa



MOBILITY FRANCE – SOUTH AFRICA (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



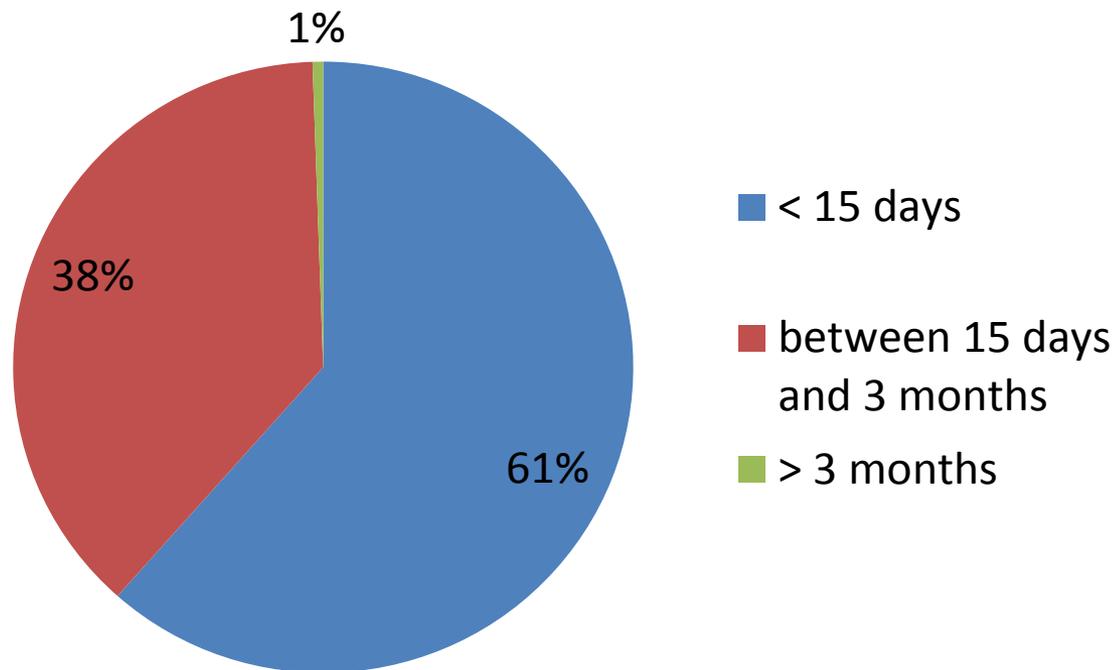
% of french young researchers in outgoing mobilities : 38% vs 35% mean

Mobility (2005-2016) - Duration

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France
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From France to South Africa

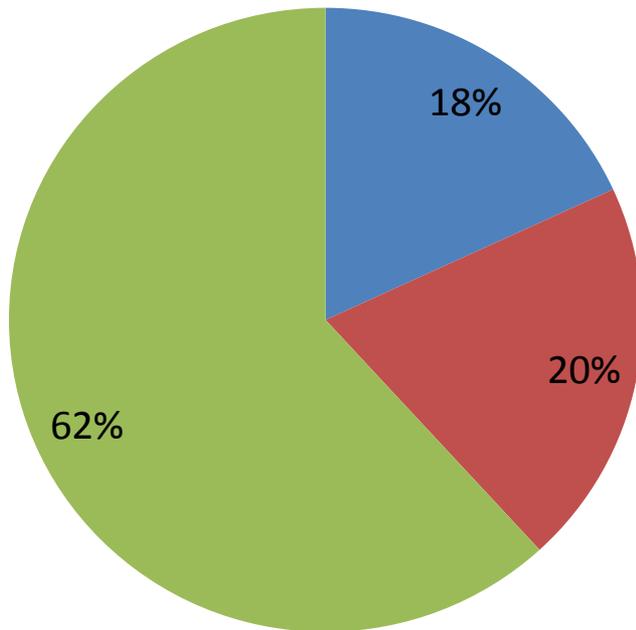
366 trips from France to South Africa (**6,9** trips / project)



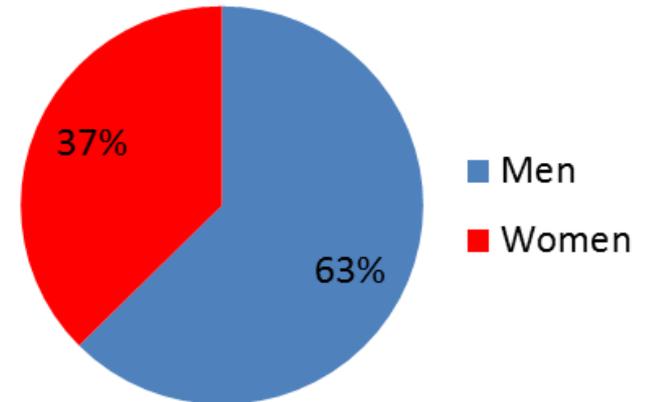
Mobility – Who's travelling ?

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From France to South Africa



- carried out by PhD Students (<28 years old)
- carried out by Post-Doctoral Researchers (28<=age<=35 years old)
- carried out by permanent researchers (>35 years old)

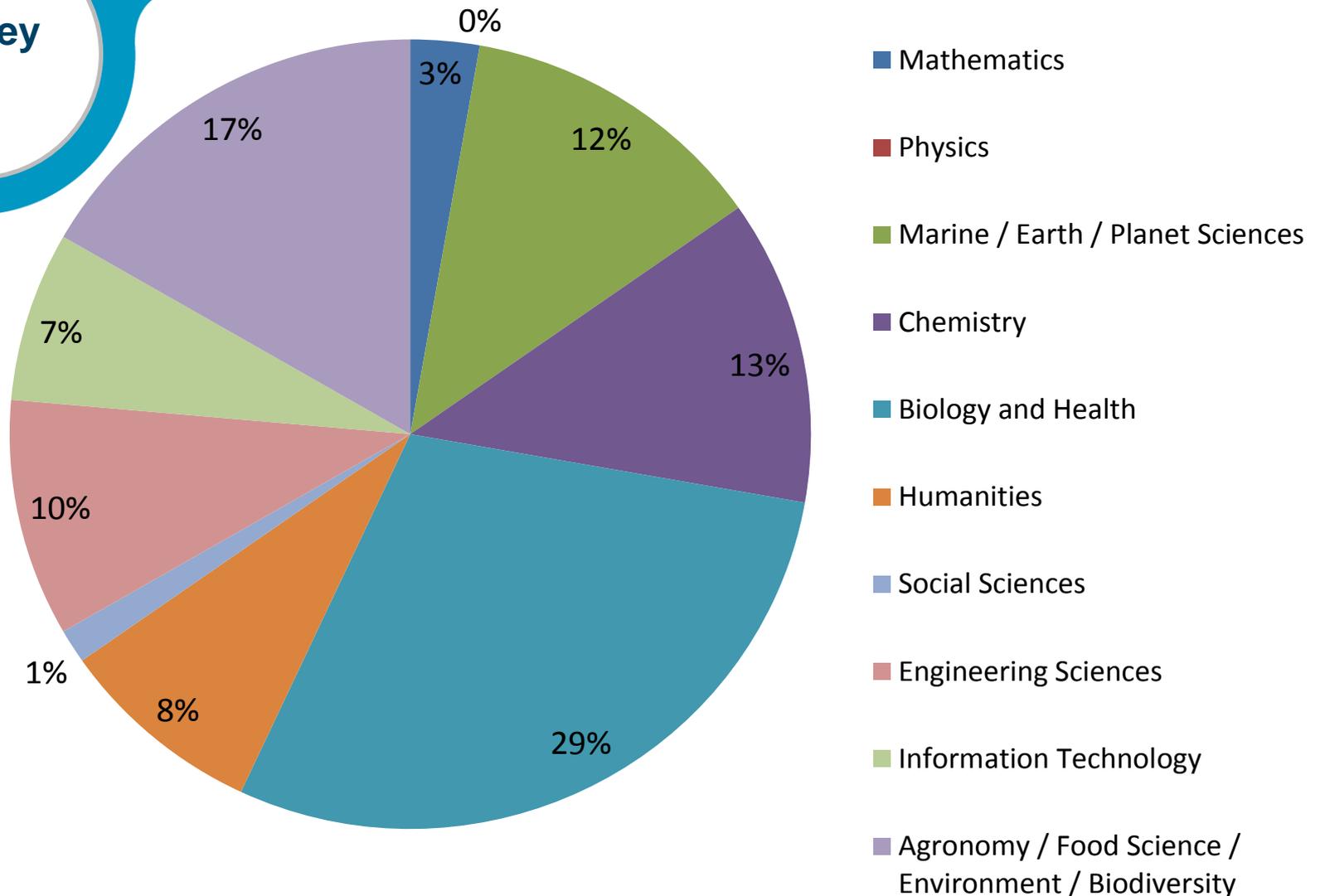


Scientific production



Scientific production (1 / 2)

Survey



Scientific production (2 / 2)

Survey

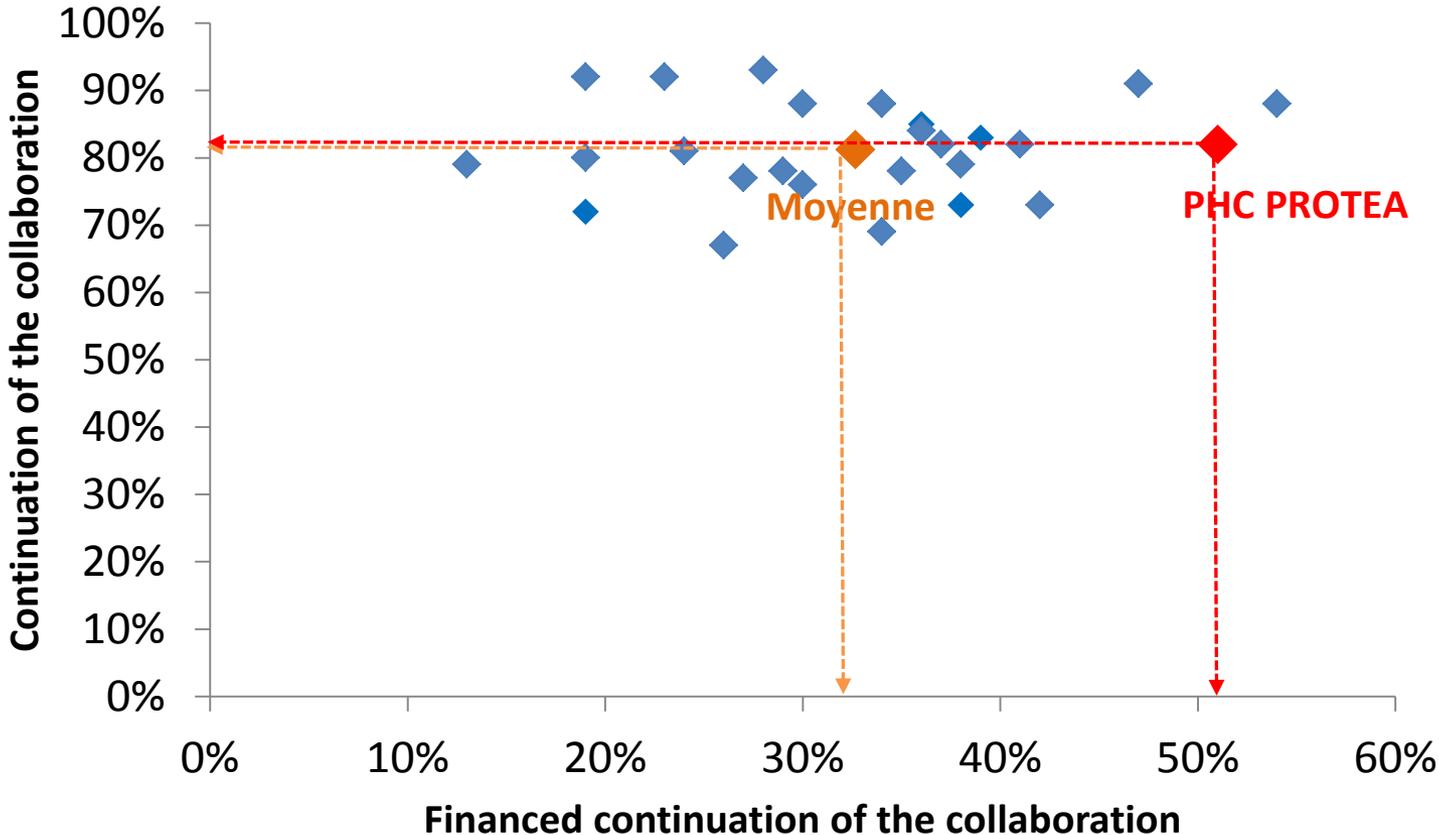
	Number of funded projects by thematic area	Ratio of funded projects by thematic area	Number of copublications	Ratio of copublications by thematic area	Ratio of funded projects generating a copublication	Intensity of copublication
Mathematics	1	3%	2	3%	50%	2,0
Physics	2	5%	0	0%	0%	0,0
Marine / Earth / Planet Sciences	5	14%	9	13%	56%	1,8
Chemistry	4	11%	9	13%	44%	2,3
Biology and Health	8	22%	21	29%	38%	2,6
Humanities	2	5%	6	8%	33%	3,0
Social Sciences	1	3%	1	1%	100%	1,0
Engineering Sciences	3	8%	7	10%	43%	2,3
Information Technology	2	5%	5	7%	40%	2,5
Agronomy / Food Science / Environment / Biodiversity	9	24%	12	17%	75%	1,3
TOTAL	37	100%	72	100%	51%	1,9



What happens after a PROTEA Project ?



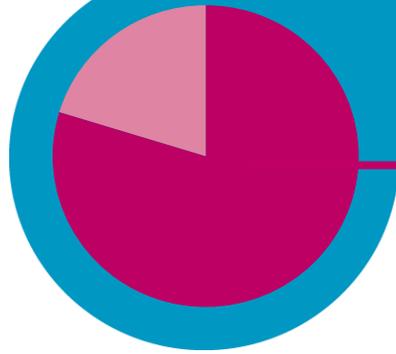
CONTINUATION OF THE COLLABORATION (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



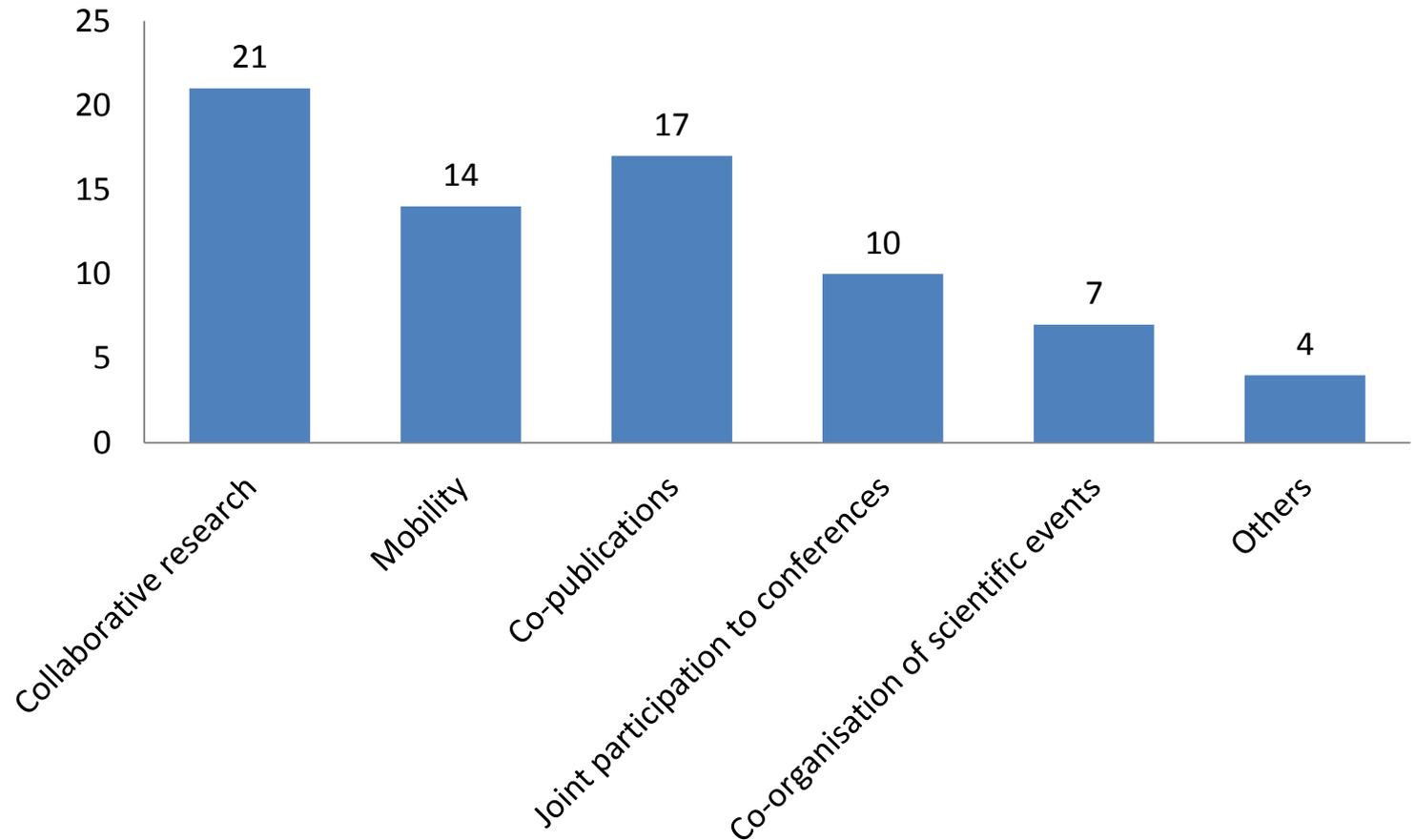
Continuation of the collaboration : **82% vs 81% mean**

Continuation of the collaboration with other sources of subvention : **51% vs 33% mean**

Continuation of the collaboration *(survey)*



82% of the collaborations continued after the PHC

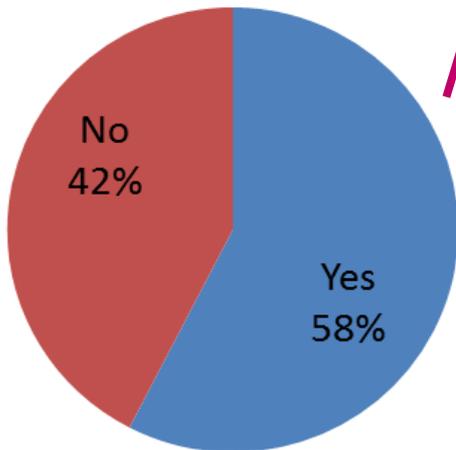


Continuation of the collaboration: funding

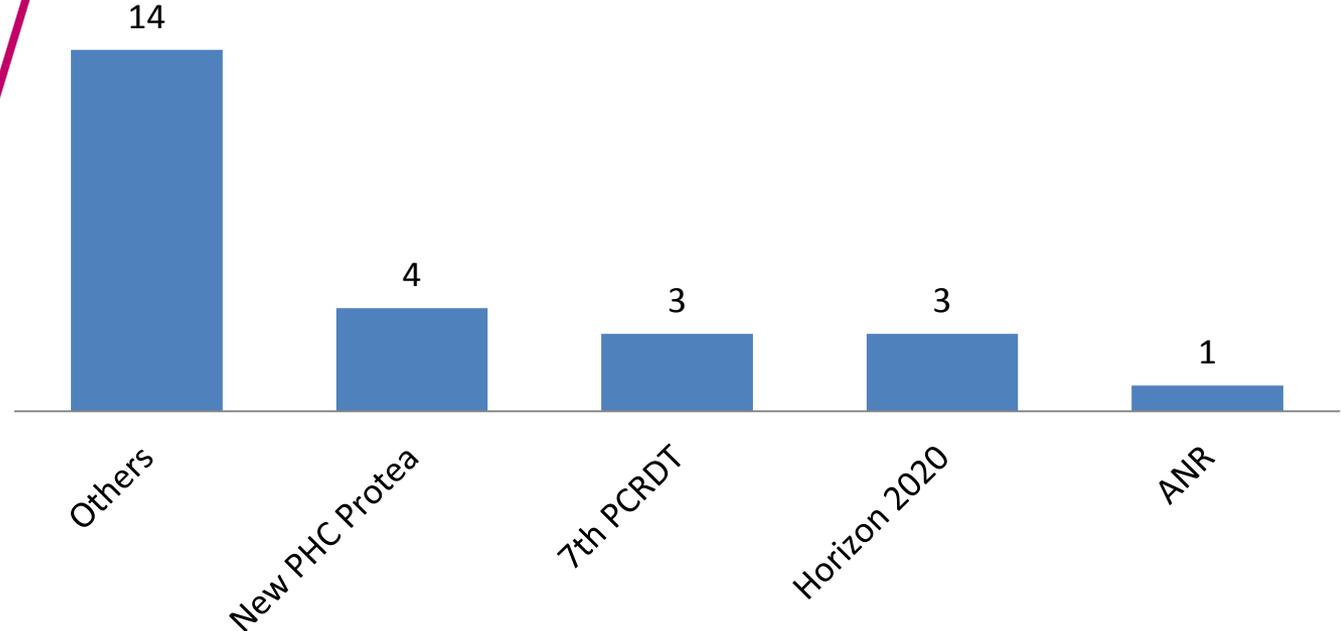
Survey
data

58% of funded collaborations after the PHC

If the collaboration
continued, have you
been funded ?



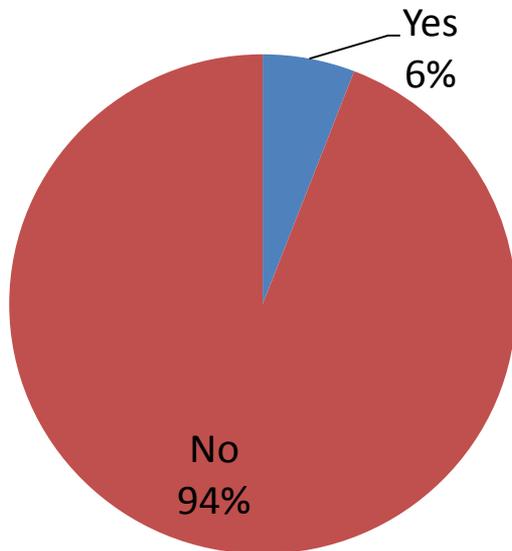
If yes, what kind of funding ? How many occurrences ?



Continuation of the collaboration *(survey)*

Survey

% of projects where joint structures were created on the basis of the PHC



Type of initiatives:

International network “Alimentys”

International network “quantarctic.com”



General opinion on the programme : word cloud (survey)

Survey
data



CONCLUSIONS

French national authorities (MESRI / MEAE) will provide a complete analysis of the survey (incl. on the scientific impact) and provide this to recipients of the funding and participants in this symposium.

Preliminary conclusions suggest that the funding scheme is efficiently contributing to creating new fruitful and long term cooperation, involving young researchers, despite the relatively low financial support, which is to be considered as “seed money”.

Thank you for your attention



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