

**FRANCE – BRAZIL
USP-COFECUB - 25th ANNIVERSARY**

Scientific impact of the program (2003-2017)

MESRI-DAEI / MEAE

2018

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

GENERAL PRESENTATION OF THE PROGRAM

Creation : 1993

French budget for mobilities : 172 500 € / year

**Number of new funded projects per year : around 6 between
2004 and 2017**

From 2004-2017 :

295 applications submitted

76 projects funded

DATA SOURCES

Campus France

- List of mobilities (from France to Brazil)

USP-COFECUB committee

- Informations about the USP COFECUB program applications

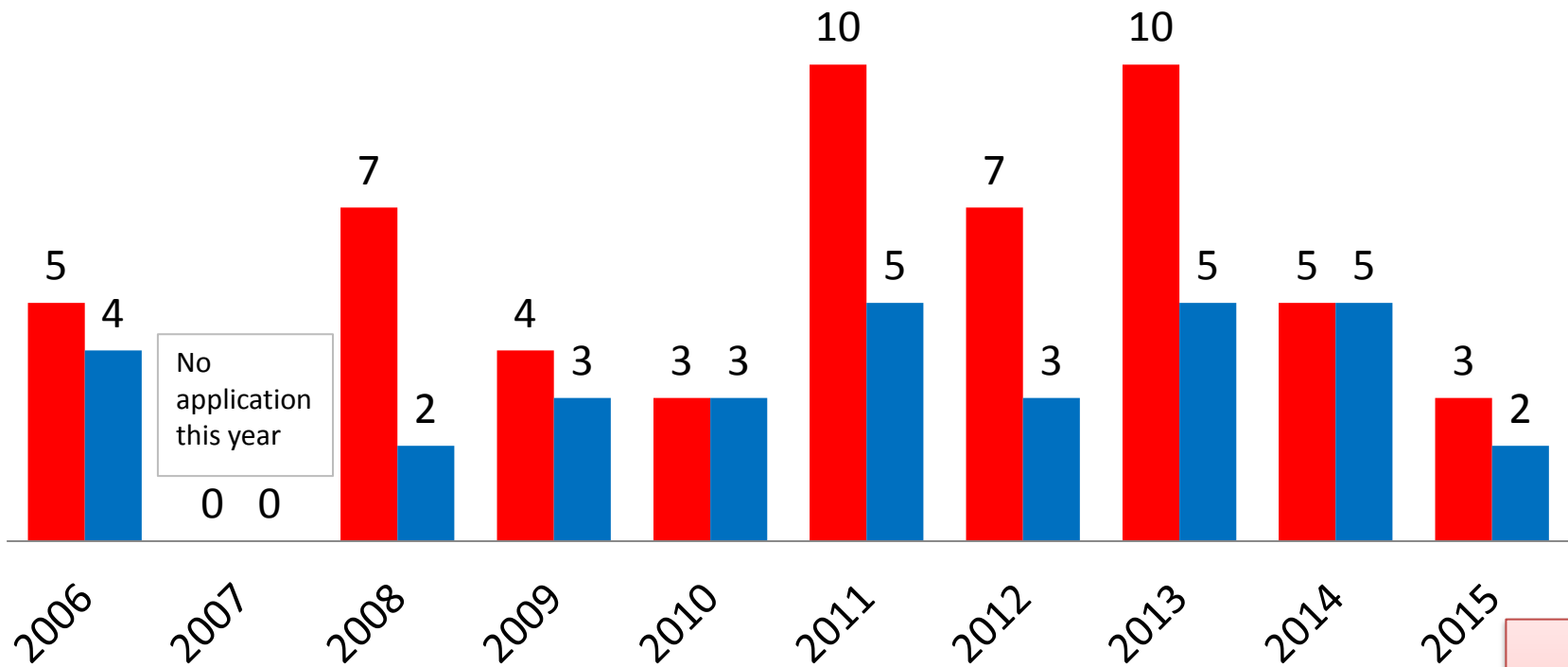
Survey *(conducted by the French Ministry of Higher Education, Research and Innovation and Ministry for Europe and Foreign Affairs)*

- Target : French Principal Investigators of selected projects between 2003 and 2016
- Survey **duration** : **6 weeks between June and July 2018**
- **52%** response ratio *(38 respondents for 70 funded projects)*

ANSWERS TO THE SURVEY

Average response rate to the survey : **52 % (38 answers)**

■ Number of funded projects ■ Number of survey answers



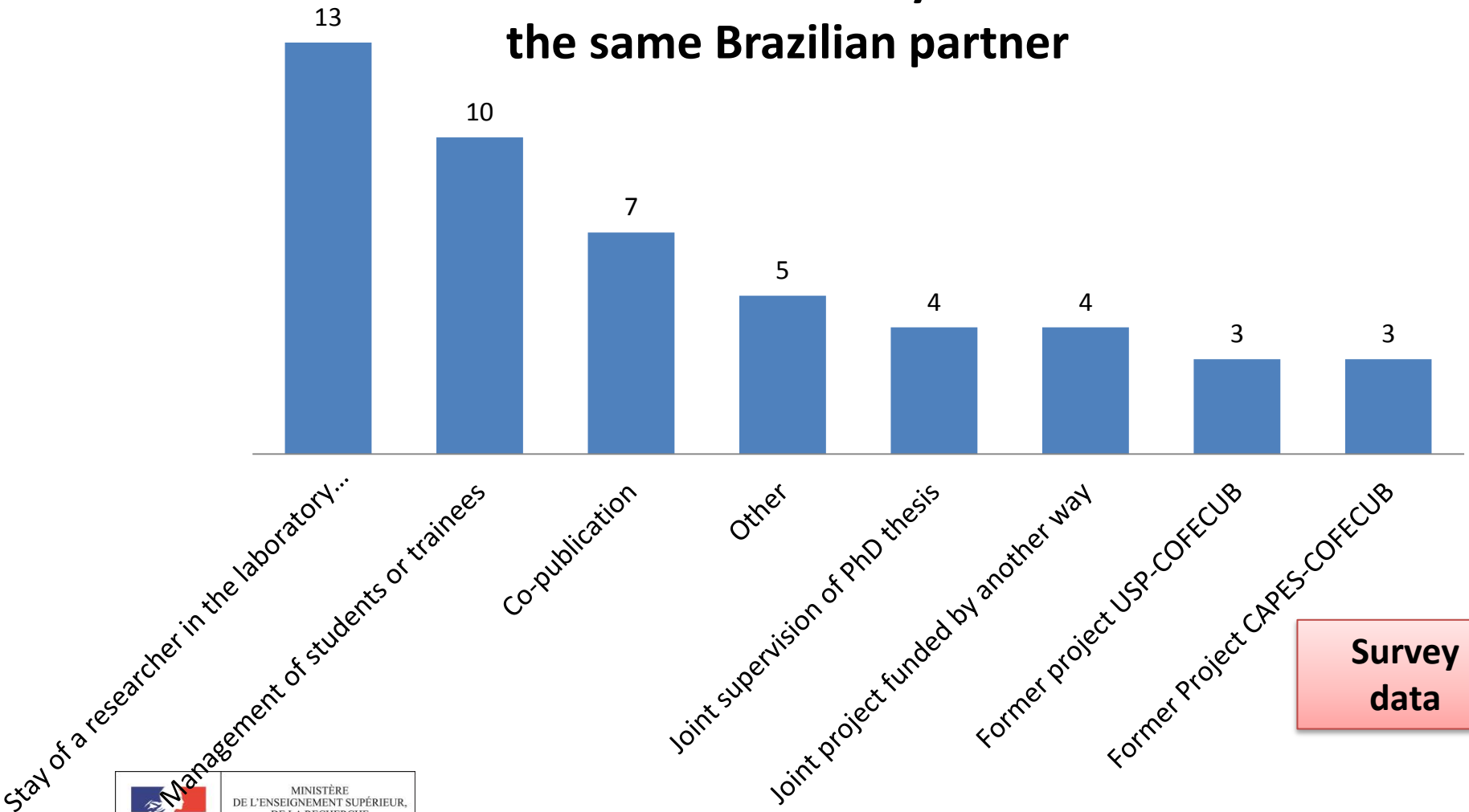
No application this year

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USP-
COFECUB
Committee
& Survey
data

BEFORE USP-COFECUB PROJECT (1/3)

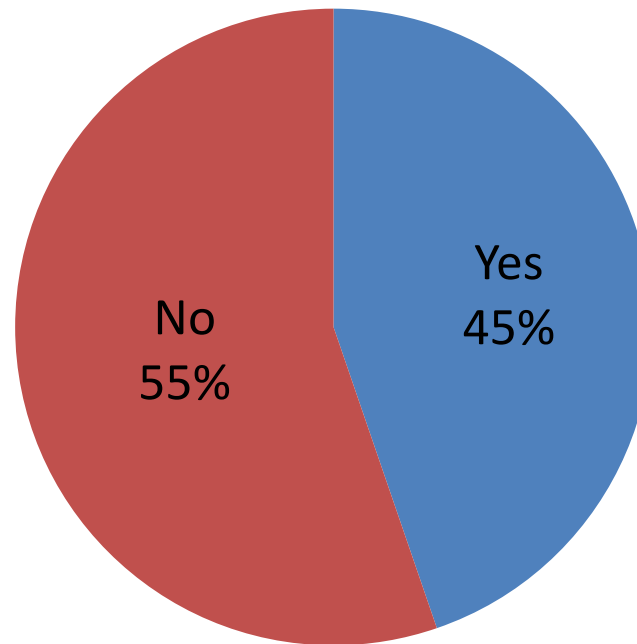
45% of French PIs have already collaborated with
the same Brazilian partner



Survey
data

BEFORE USP-COFECUB PROJECT (2/3)

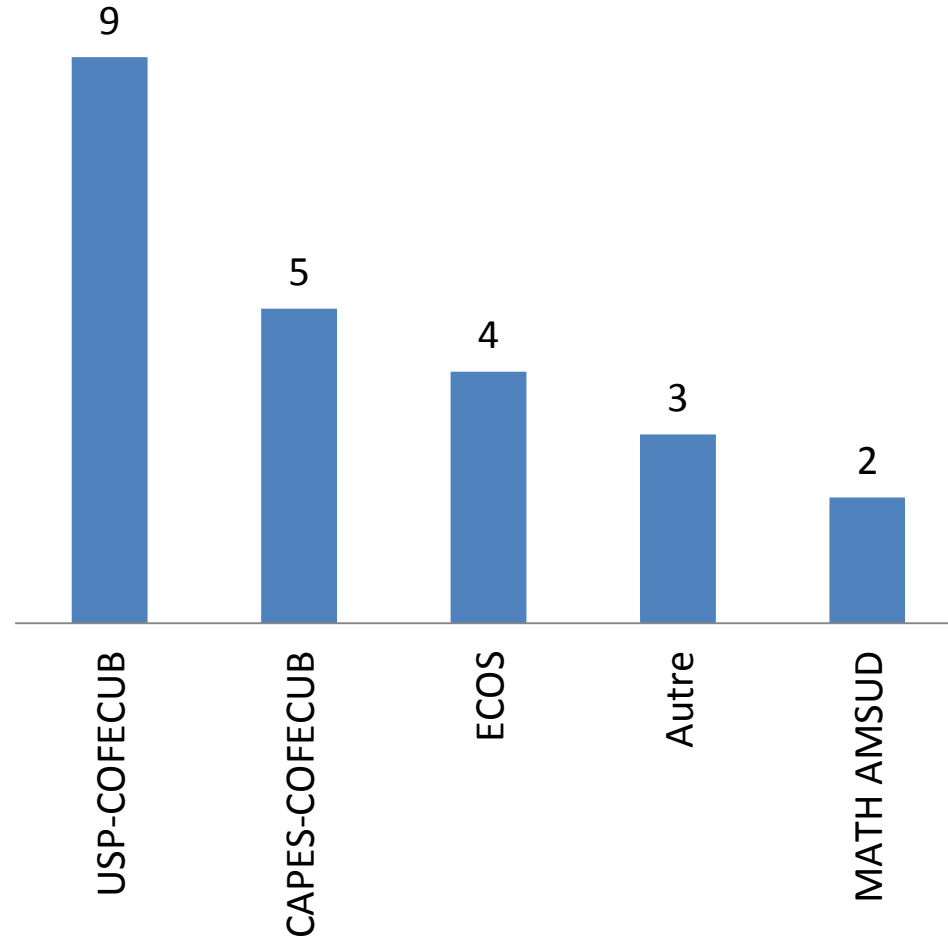
Participation to another cooperation program supported by France in Latin America before this USP-COFECUB program



Survey data

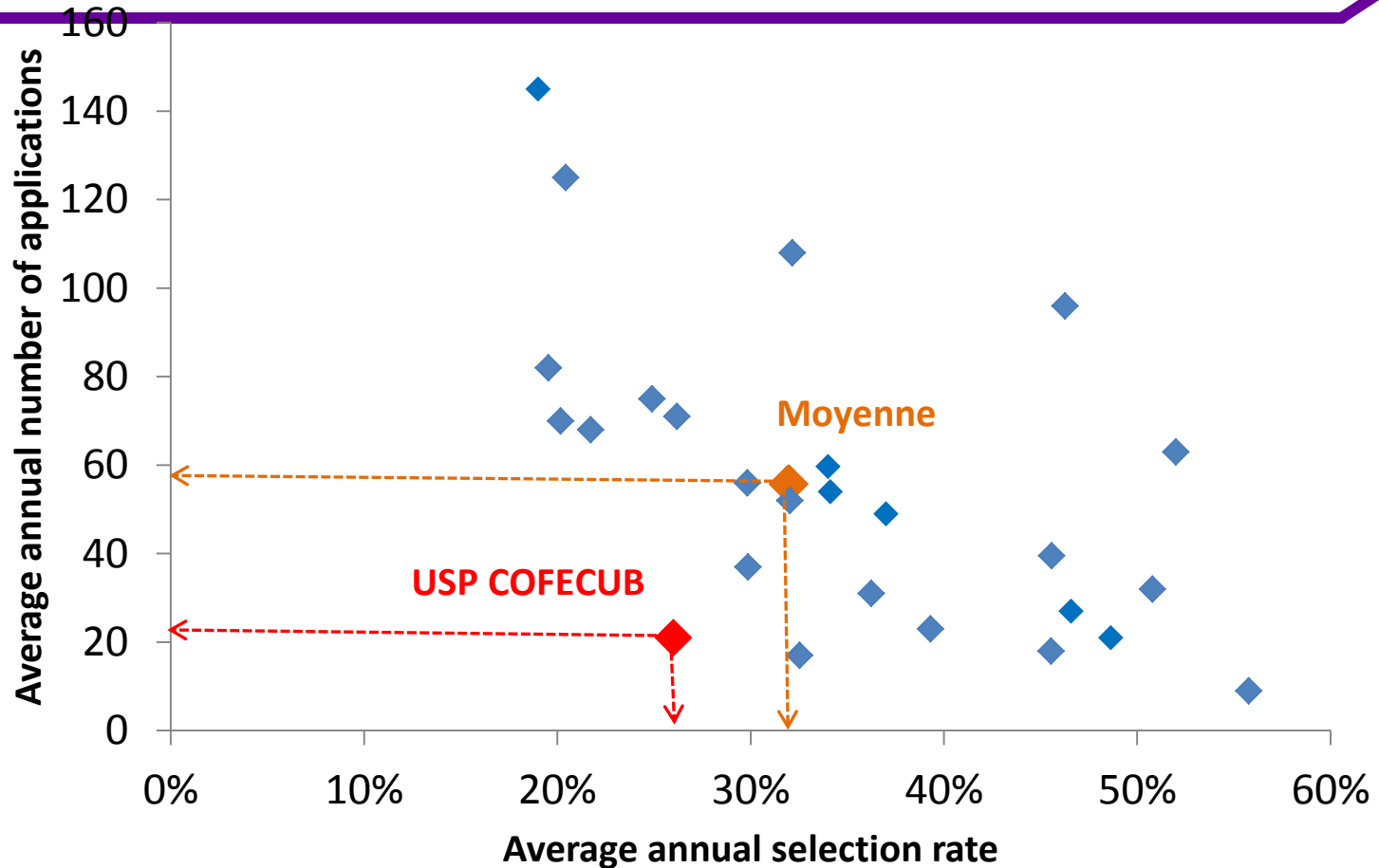
BEFORE USP-COFECUB PROJECT (3/3)

Previous Participation to another cooperation program supported by France in Latin America



Survey data

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

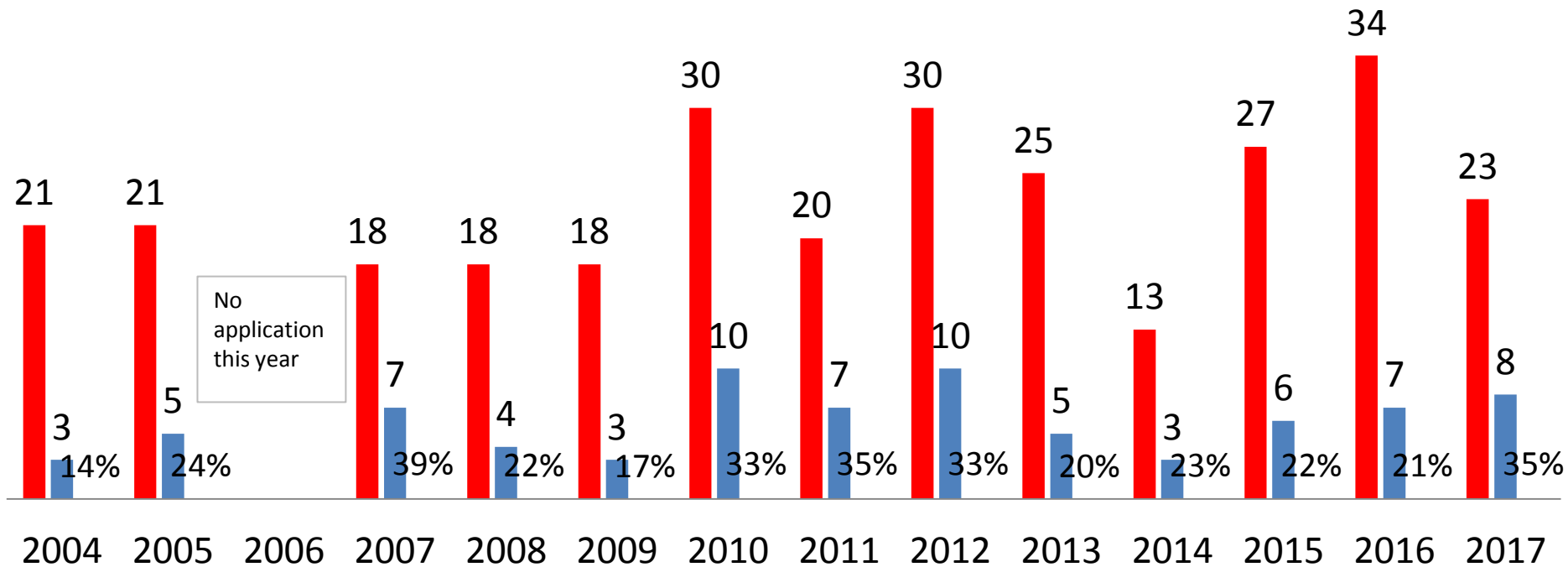


Average selection rate for 2005-2017 : 26% vs 32% mean
Average number of applications 2005-2017 : 21 vs 56 mean

SUCCESS RATE

Average selection rate from 2004-2017: **26 %**

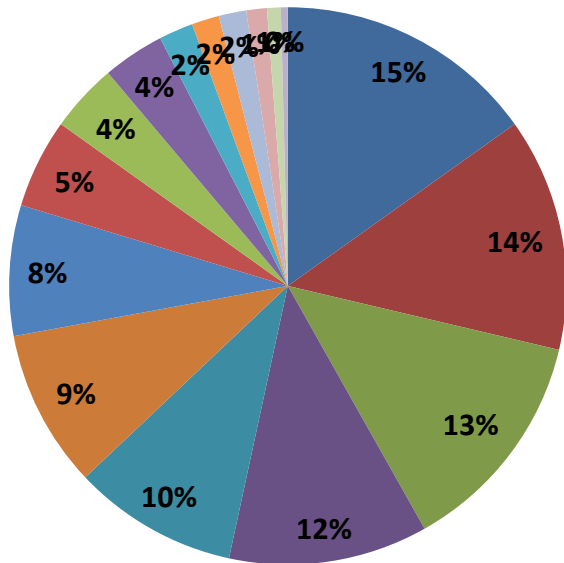
■ Number of applications ■ Number of funded projects Selection rate



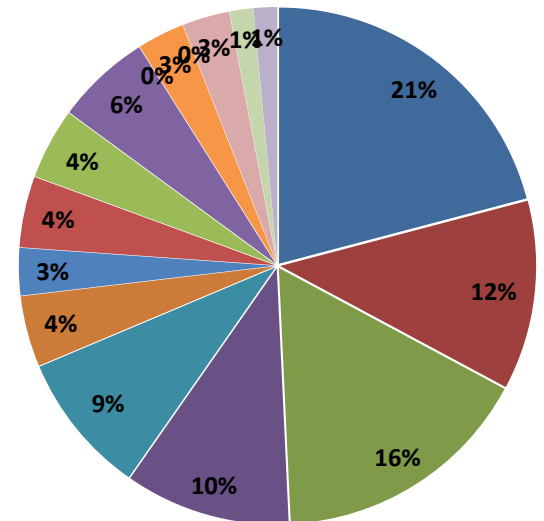
**USP-COFECUB
Committee
data**

SCIENTIFIC DOMAINS

Applications



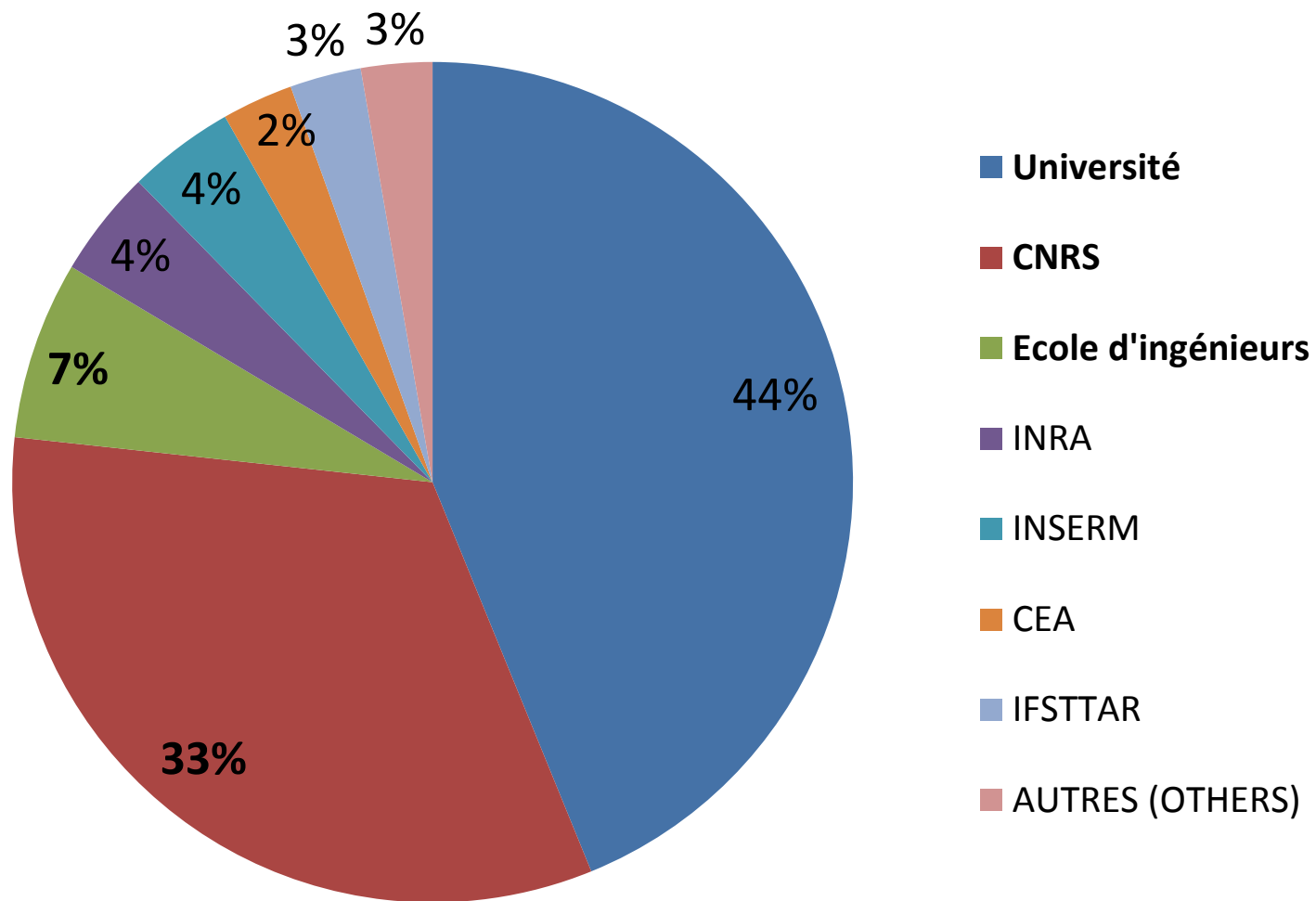
Funded projects



- Physics / Chemistry / Engineering Sciences
- Humanities
- Biology and Health
- Mathematics / Information Technology
- Agronomy / Animal, biologic and foof production
- Marine / Earth / Planet Sciences
- Physics and Engineering Sciences
- Humanities / Social Sciences
- Physics
- Chemistry
- Social Sciences
- Engineering Sciences
- Information Technology
- Mathematics
- Agronomy / Environment / Animal biology
- Health and Mathematics

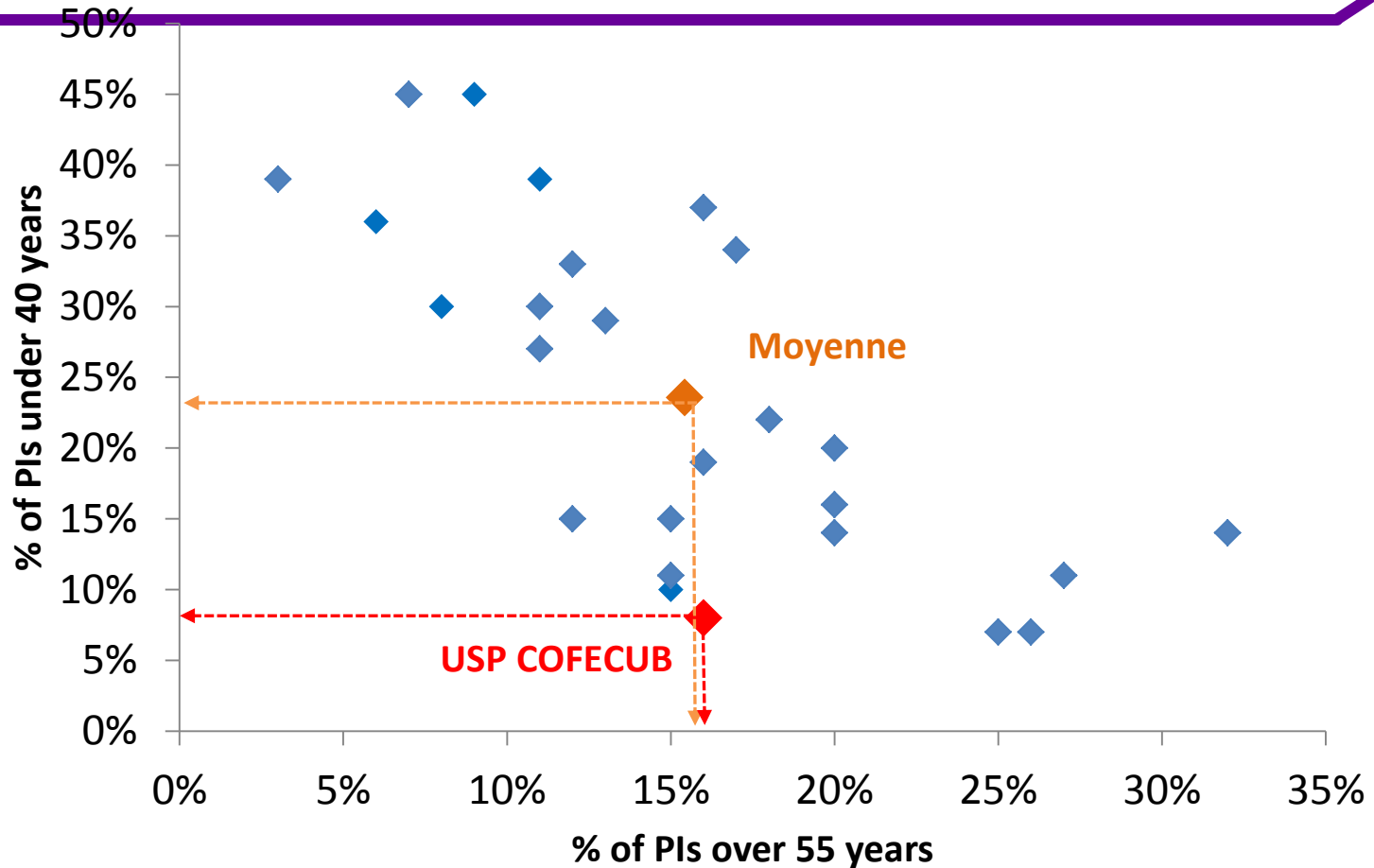
**COFECUB
Committee
data**

FRENCH PARTICIPATING INSTITUTIONS



Survey data

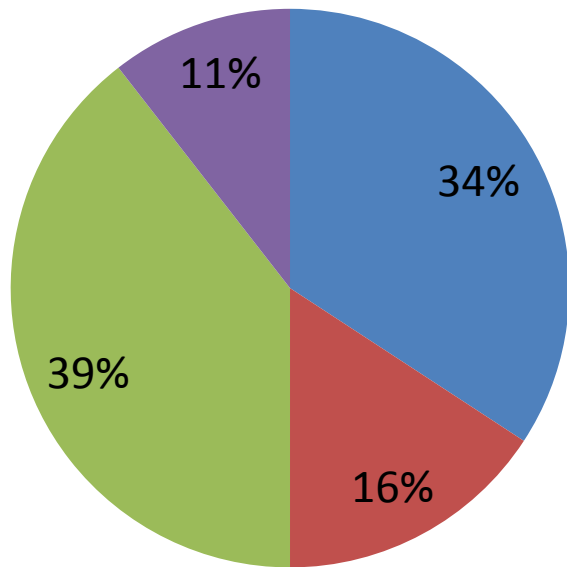
AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



PIs under 40 years : **8% vs 2' mean**
 PIs over 55 years : **16% vs 15% mean**
76% of the PIs are between 40 and 55 years

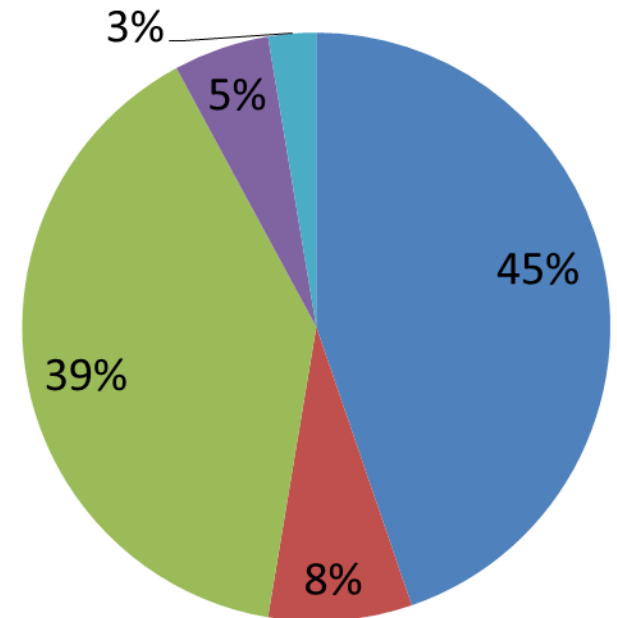
FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

Previous professional status
(at the beginning of the project)



- Full professor
- Assistant professor
- Senior researcher
- Junior researcher
- Other

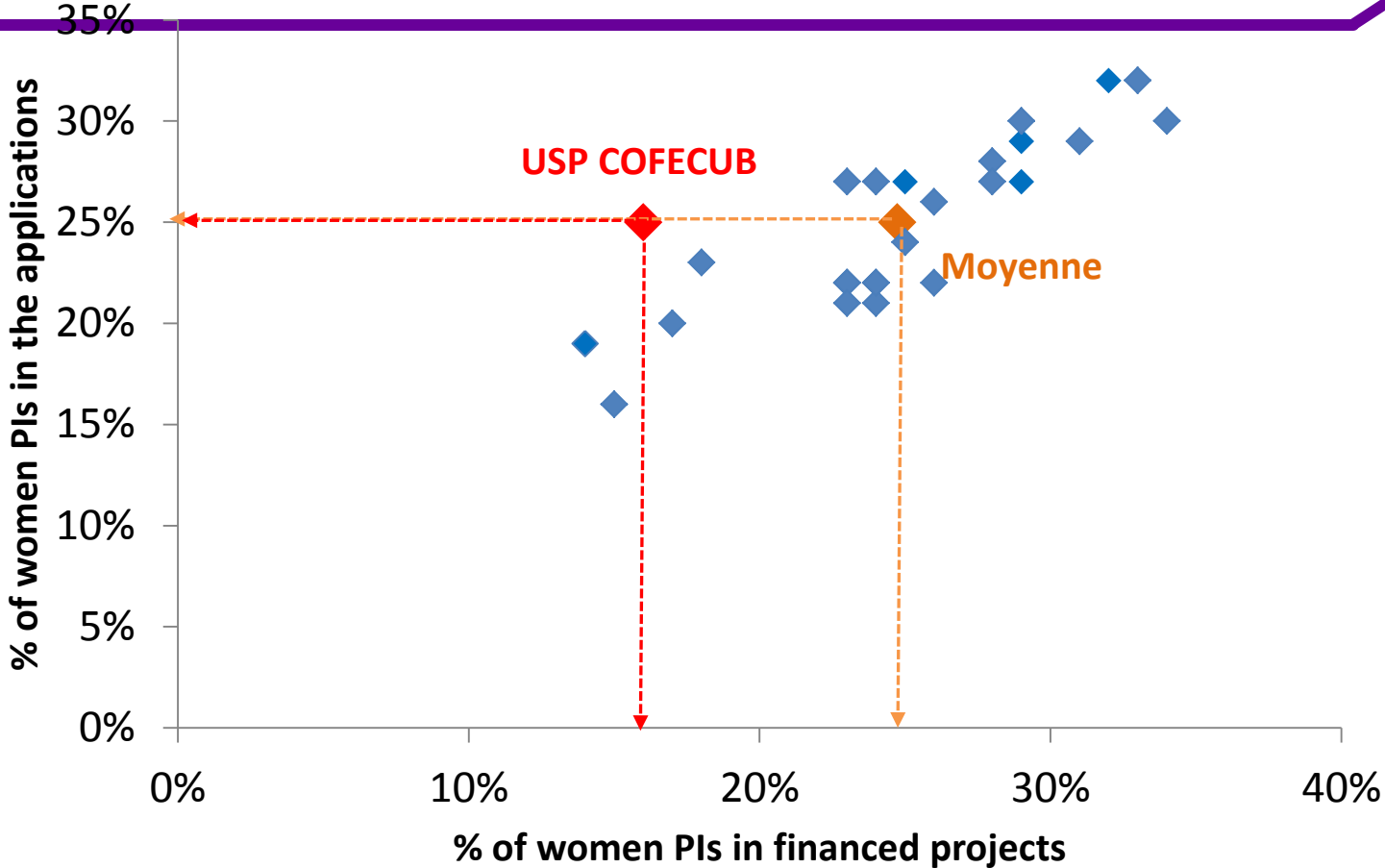
Current professional status



Survey data

IMPLICATION OF WOMEN (FRANCE)

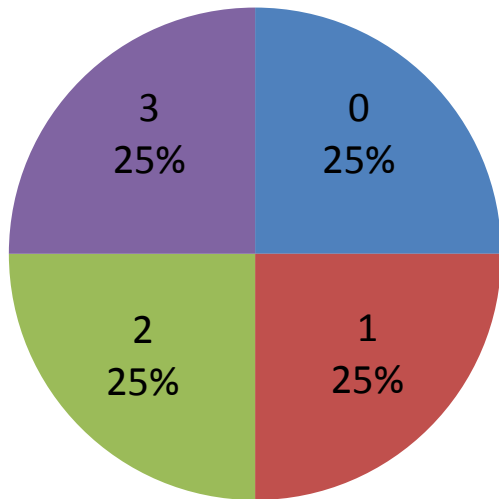
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



% of women PIs in the applications : 25% vs 25% mean
% of women PIs in the selected projects : 16% vs 25% mean

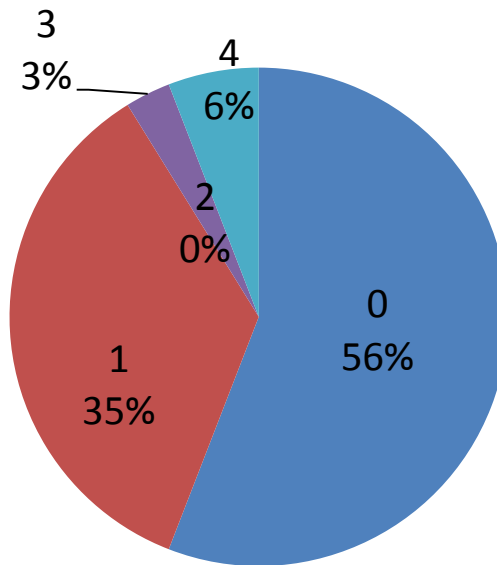
PARTICIPATION OF FRENCH YOUNG RESEARCHERS

Number of Master degree students



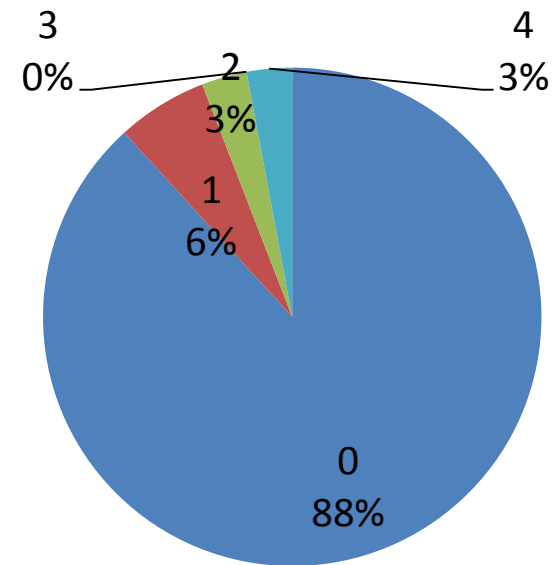
75 % of projects involve at least 1 Master degree student

Number of PhD students



44 % of projects involve at least one PhD student

Number of post-doctoral researchers

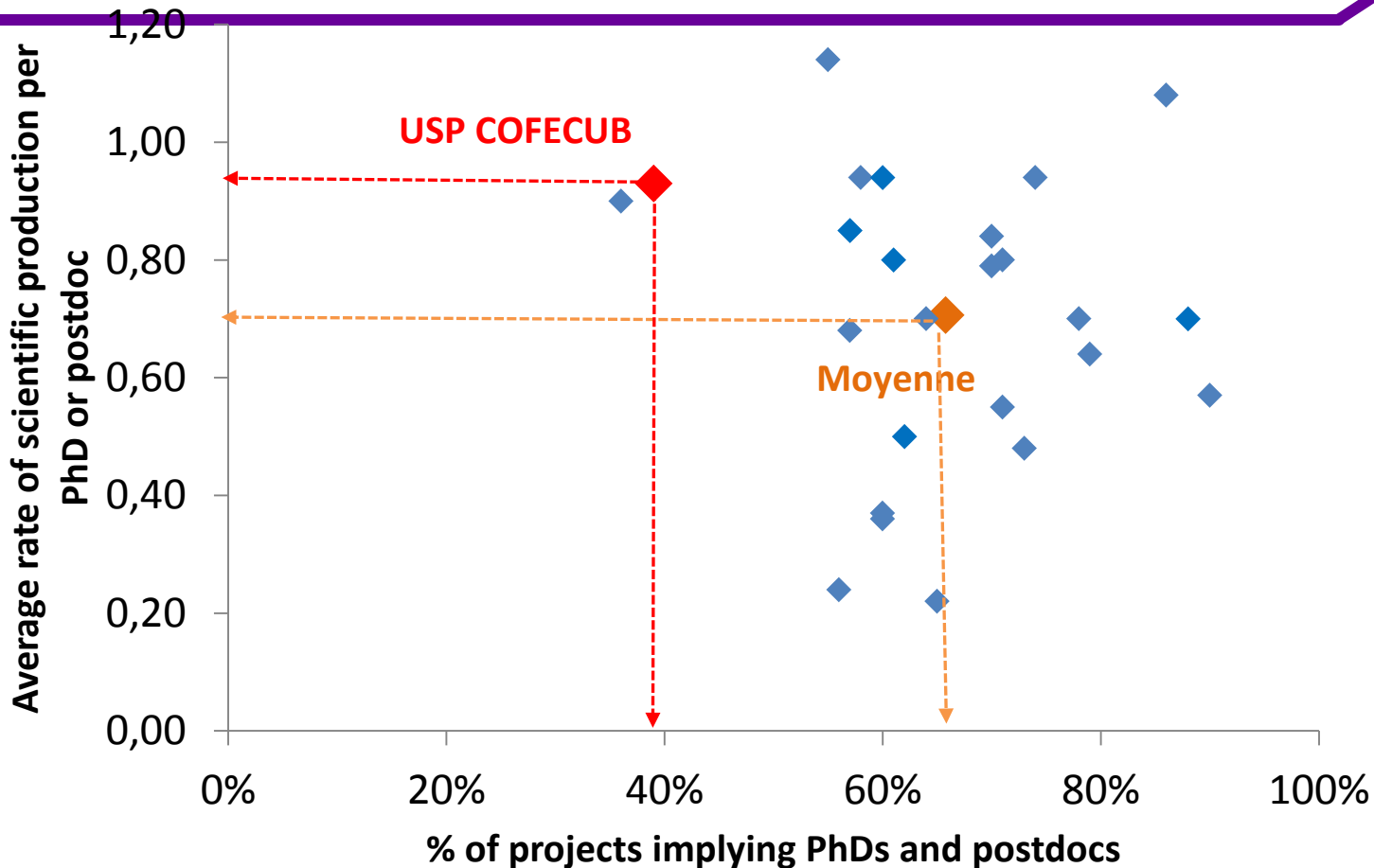


12 % of projects involves at least 1 post-doctoral researcher

Survey data

IMPLICATION OF PhDs

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

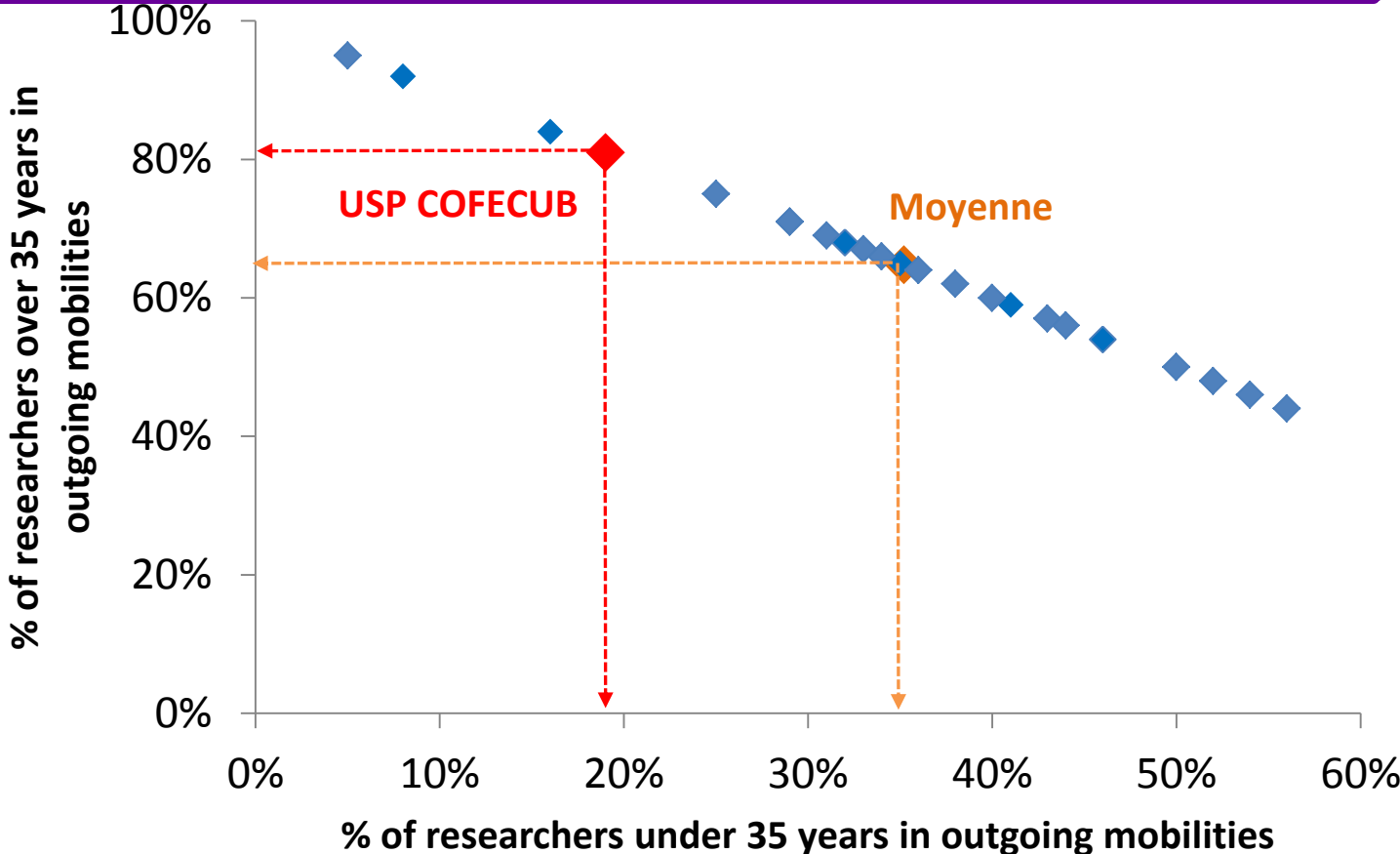


% of projects implying PhDs : 39% vs 66% mean
Average rate of scientific production per PhD : 0,93 vs 0,71 mean

Mobility

MOBILITY FRANCE – BRAZIL

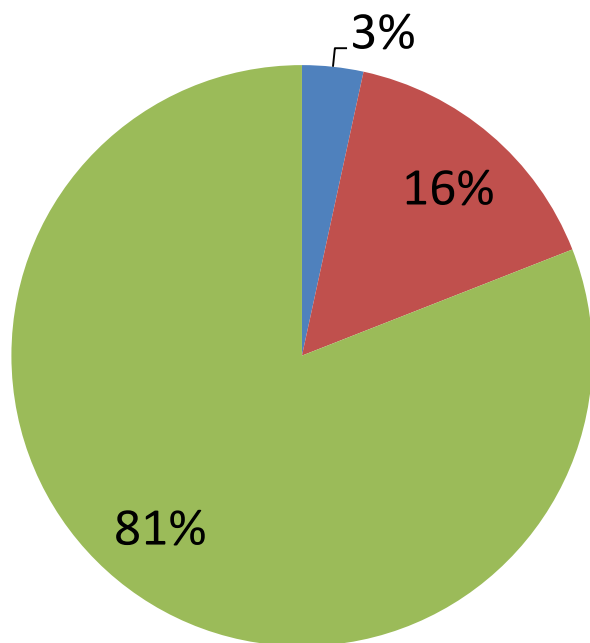
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



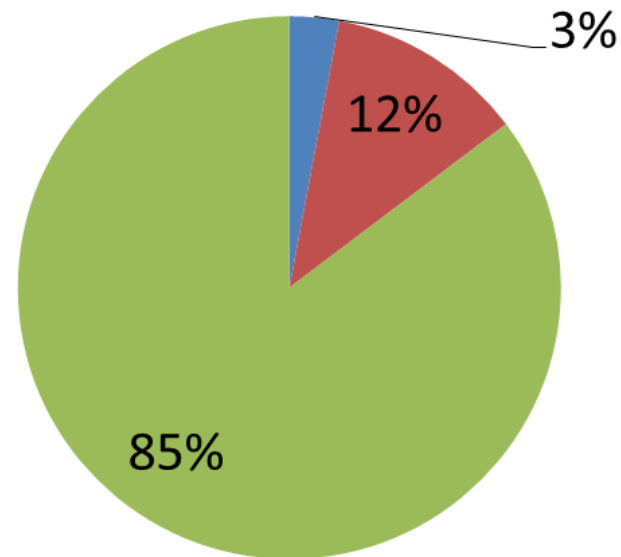
% of french young researchers in outgoing mobilities : 19% vs 35% mean

MOBILITY : STATUS

France → Brazil



Brazil → France

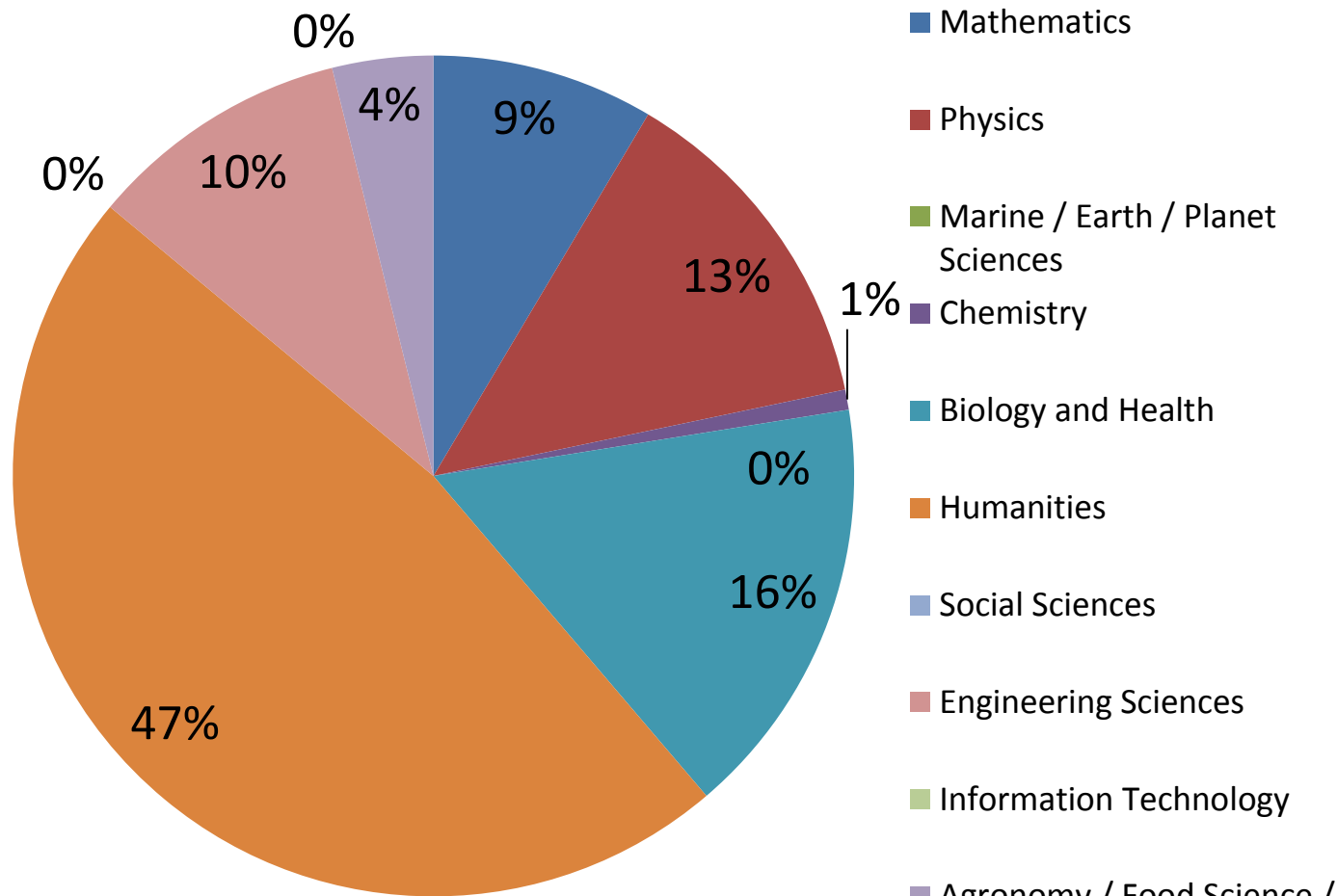


- carried out by PhD students (<28 years old)
- carried out by post-doctoral researchers (28<=age<=35 years old)
- carried out by permanent researchers (>35 years old)

Campus
France
data

Scientific production

SCIENTIFIC OUTPUT : PERCENTAGES OF CO-PUBLICATIONS



Survey data

SCIENTIFIC OUTPUT

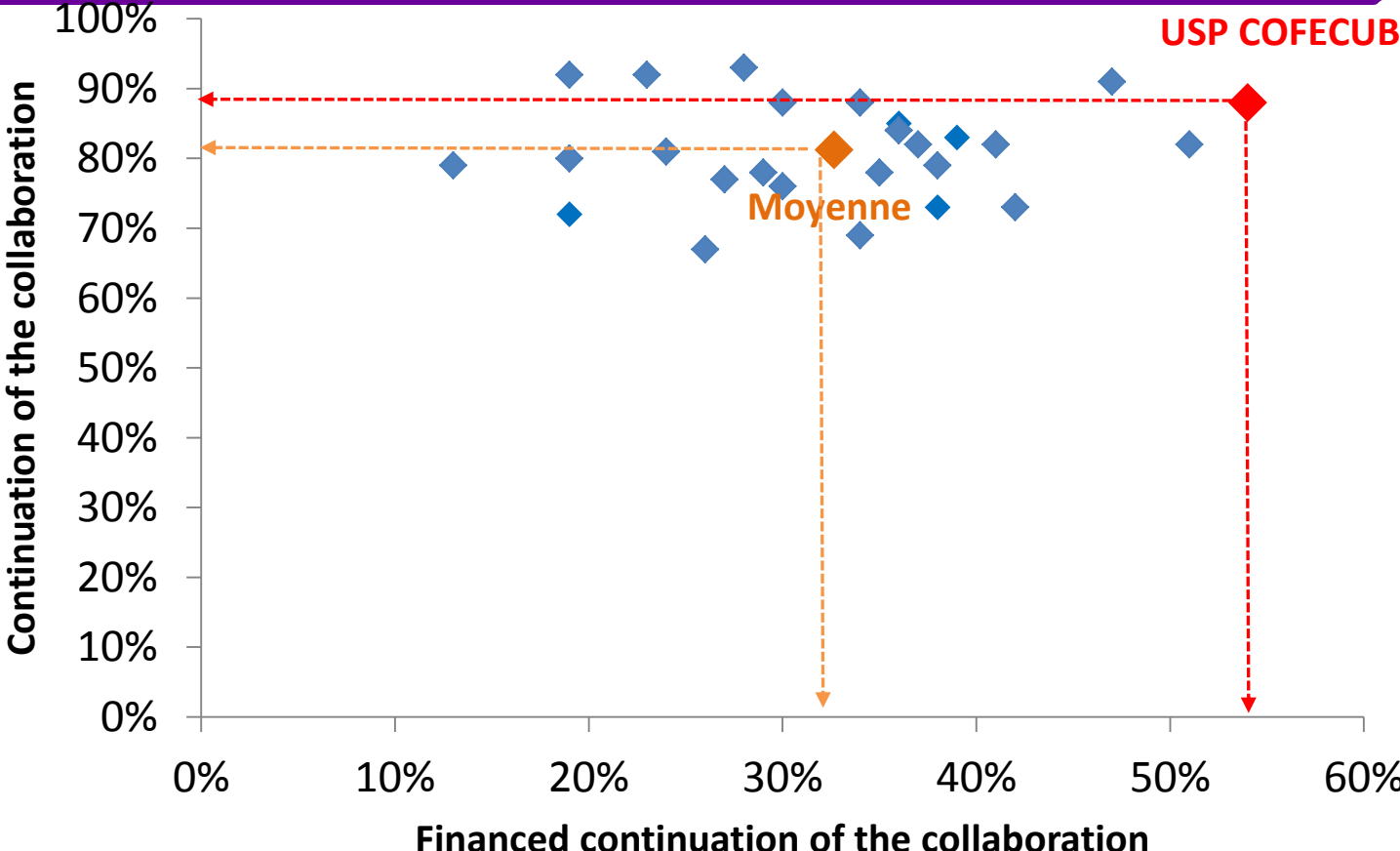
59% of funded projects led to one co-publication at least
20% of copublications include at least 1 PHD or PostDoc

	Number of funded projects by thematic area	Ratio of funded projects by thematic area	Number of co-publications	Ratio of co-publications by thematic area	Ratio of funded projects by thematic area that led to one co-publication at least	Average number of co-publications per project
Mathematics	6	16%	11	9%	67%	1,8
Physics	3	8%	17	13%	100%	5,7
Marine / Earth / Planet Sciences	1	3%	0	0%	0%	0,0
Chemistry	3	8%	1	1%	33%	0,3
Biology and Health	8	22%	21	16%	75%	2,6
Humanities	7	19%	61	47%	43%	8,7
Social Sciences	0	0%	0	0%	0%	0,0
Engineering Sciences	5	14%	13	10%	80%	2,6
Information Technology	2	5%	0	0%	0%	0,0
Agronomy / Food Science / Environment / Biodiversity	2	5%	5	4%	50%	2,5
TOTAL	37	100%	129	100%	59%	3,5

Survey data

What happens after a USP-COFECUB project ?

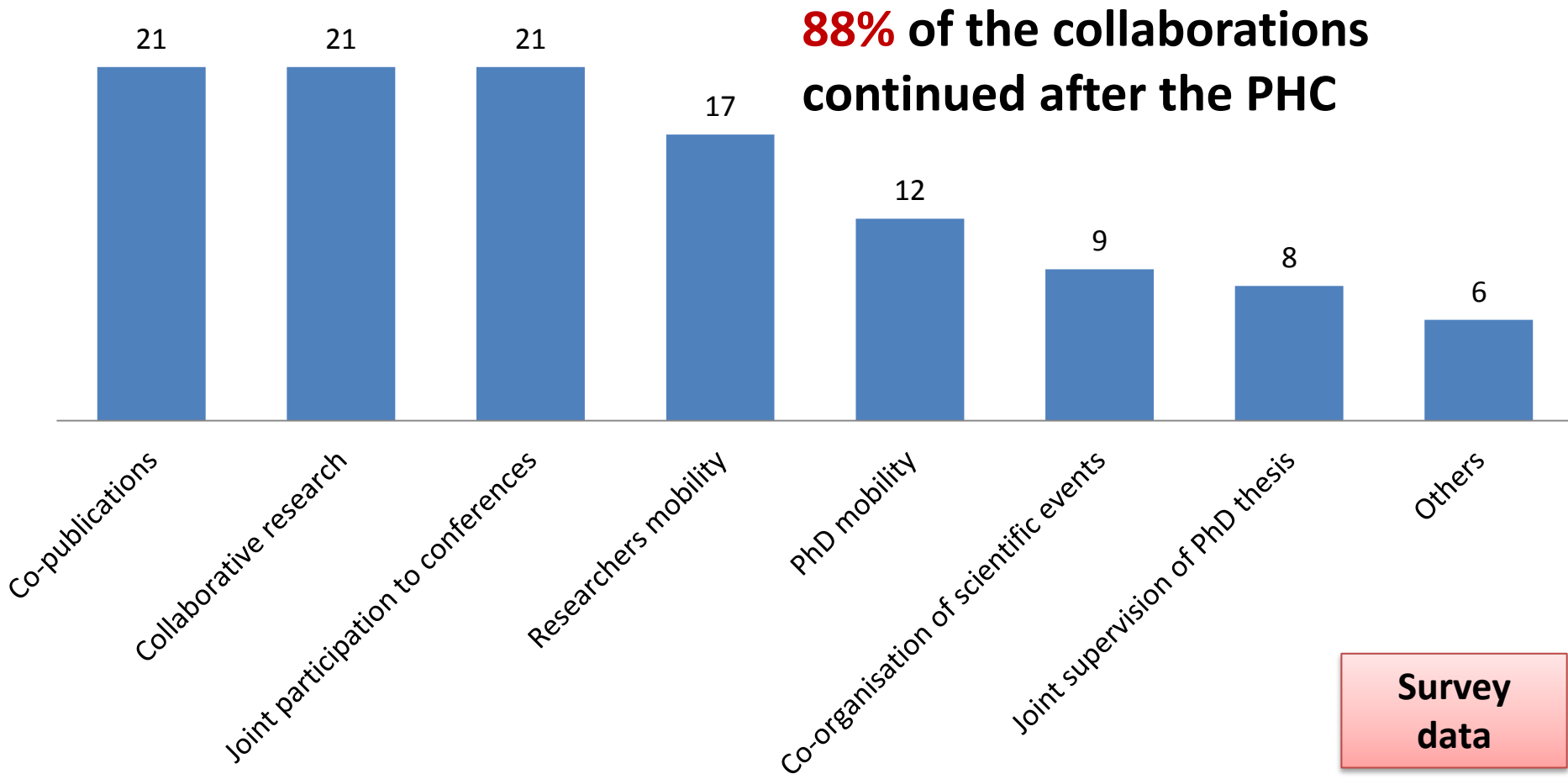
CONTINUATION OF THE COLLABORATION (1/4) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



Continuation of the collaboration : 88% vs 81% mean

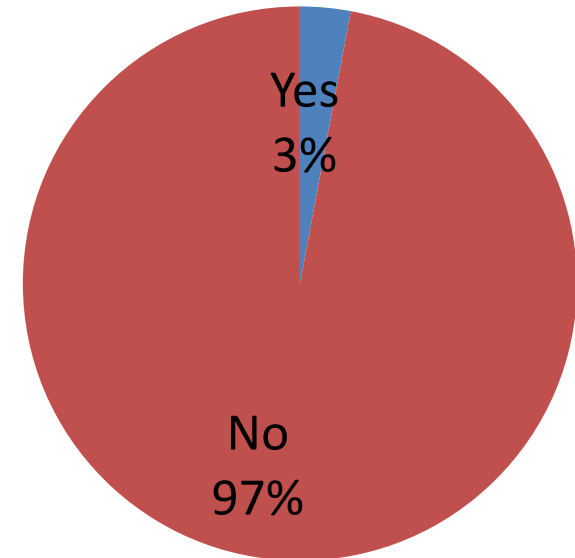
Continuation of the collaboration with other sources of subvention : 54% vs 33% mean

CONTINUATION OF THE COLLABORATION (2/4)



CONTINUATION OF THE COLLABORATION (3/4)

Has the program USP-COFECUB led to the set-up of **joint structures**?

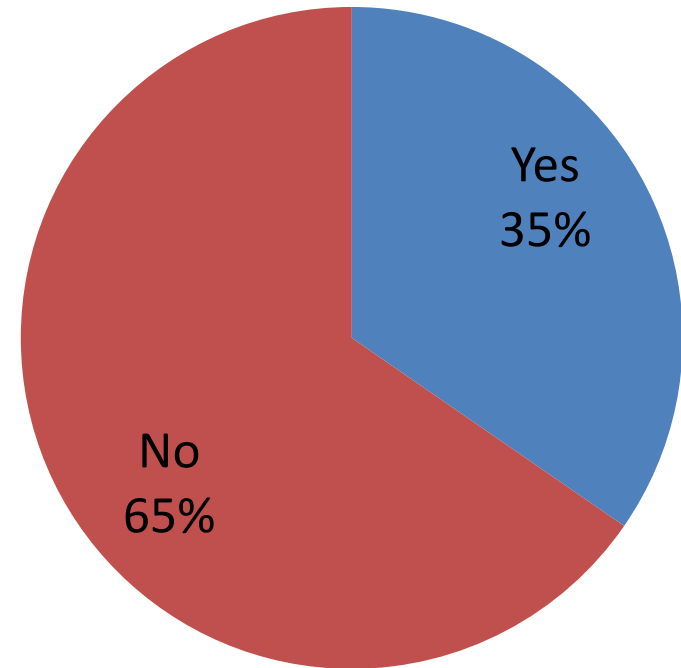


Survey data

1 INSERM / LIA (international associated laboratory)

CONTINUATION OF THE COLLABORATION (4/4)

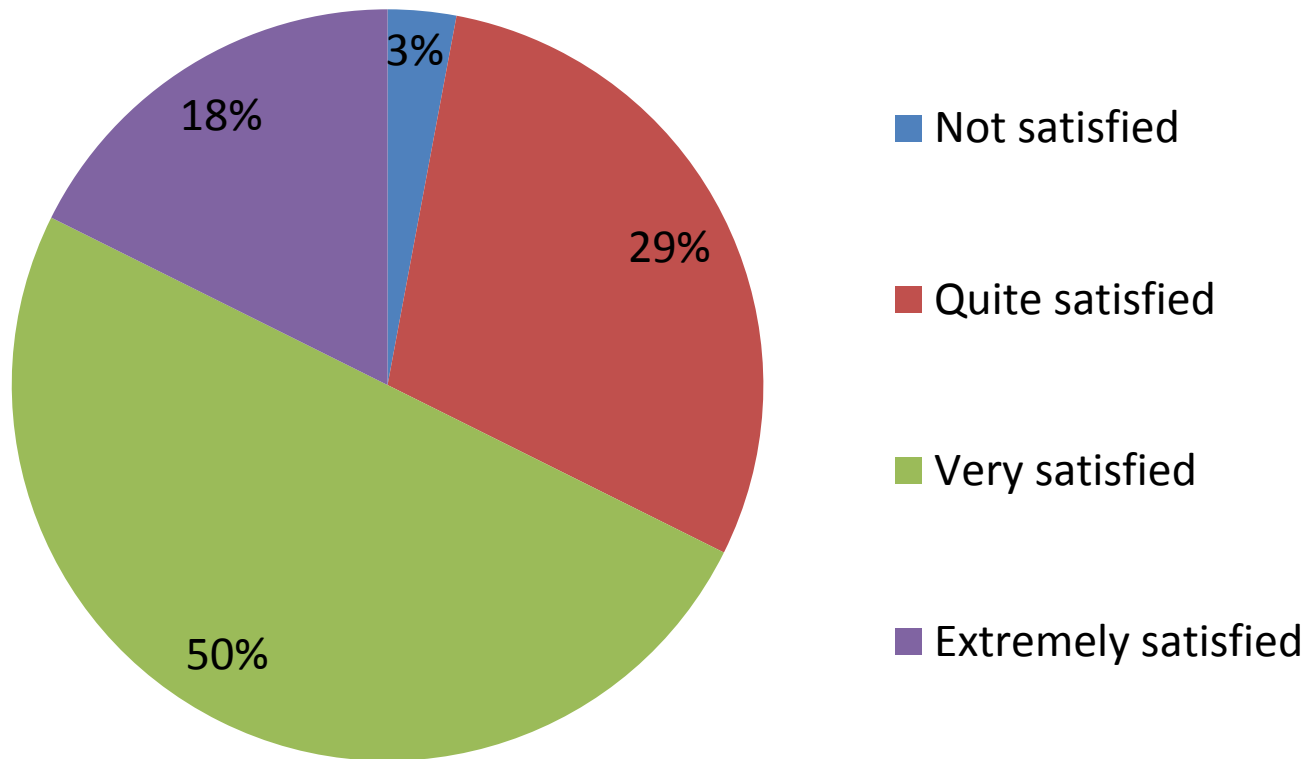
Has the French-Brazilian collaboration involved new partners?



Survey data

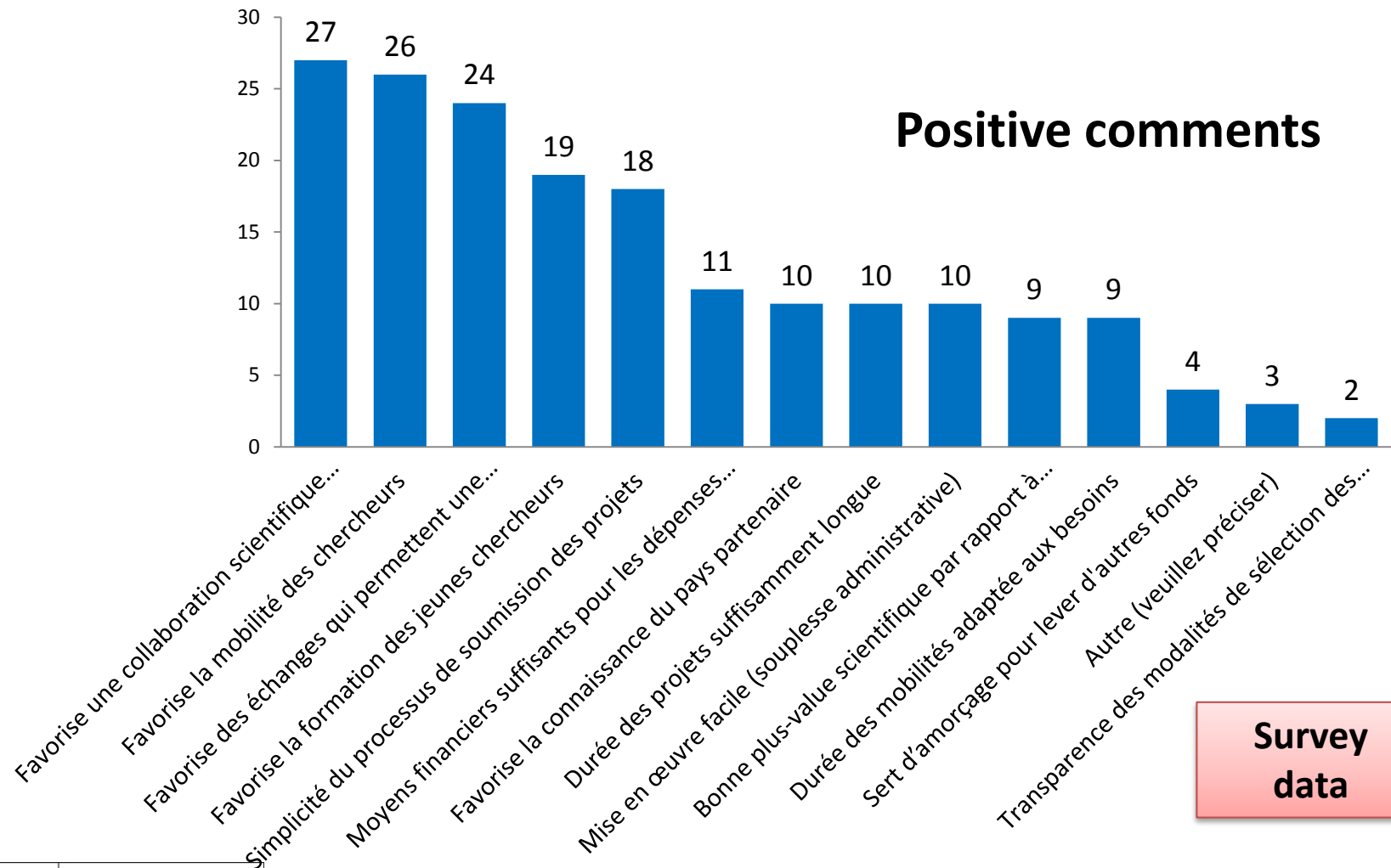
GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (1/3)

97% of French principal investigators are satisfied



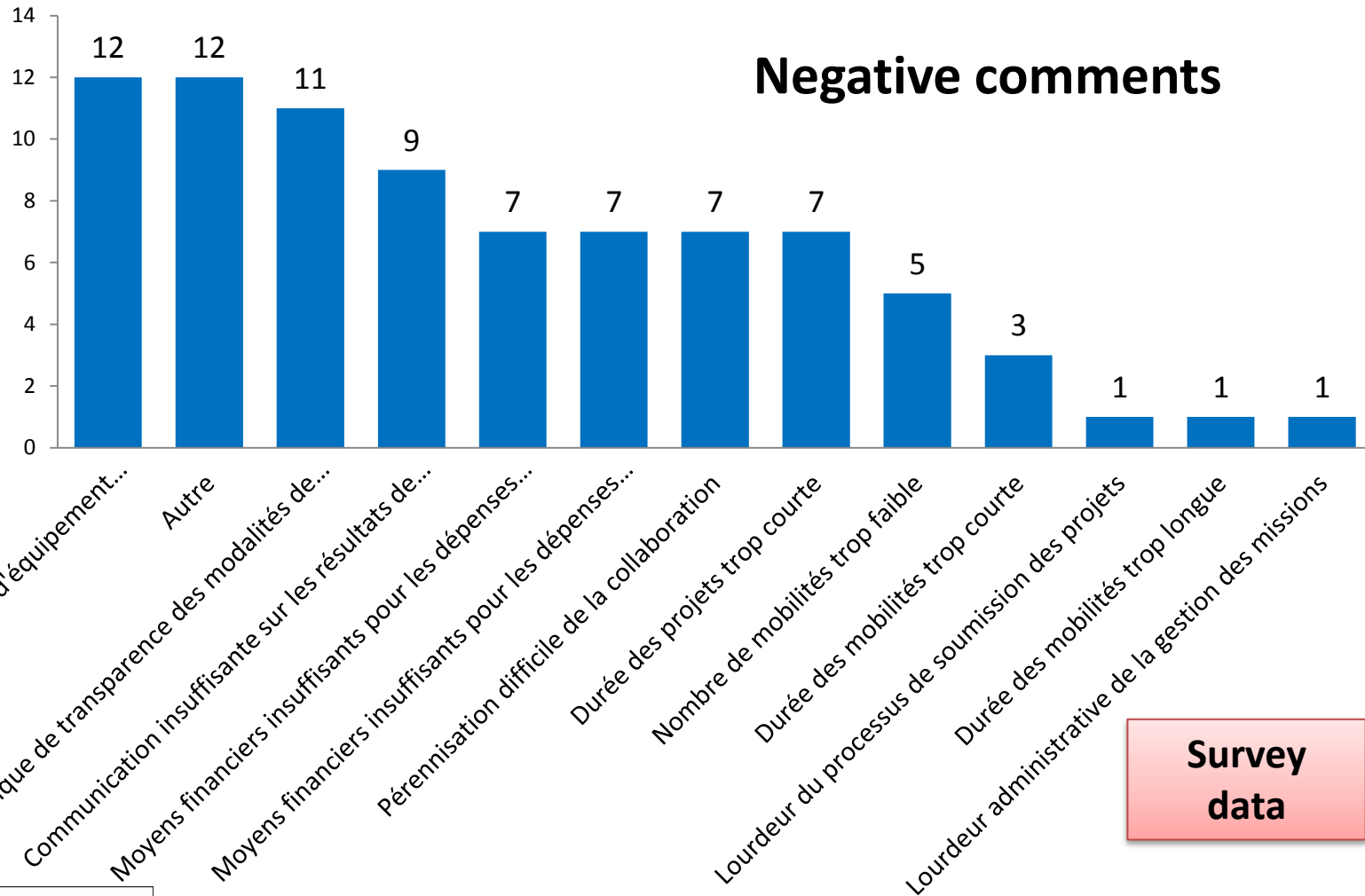
Survey data

GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (2/3)



Survey data

GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (3/3)



Survey data

PRELIMINARY CONCLUSIONS

Preliminary conclusions suggest that the funding scheme has efficiently contributed to **maintain** fruitful and long-term cooperation, despite the relatively low financial support, which is to be considered as “seed money”. Involvement of young researchers, women and co-publication rate could be improved.

PRELIMINARY RECOMMENDATIONS

- Promote NEW collaborations (45% of French PI have already collaborated before USP-COFECUB project)
- Promote young french PIs (8 % of young researchers)
- Promote women french PIs (16 % of women)
 - => Done this year : 3 women PI among 6 selected projects**
- Promote PHD students involvement (44 % of projects involve at least one PhD student) and postdoctoral researchers involvement (12 % of projects involve at least one post-doctoral researcher)
- Promote scientific co-publications (41% of projects with no co-publications)
- Improve committee feed back toward candidates

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

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