

**FRANCE – JAPAN
PHC SAKURA 15th ANNIVERSARY
160th ANNIVERSARY OF THE DIPLOMATIC
RELATIONS**

Scientific impact of the program (2005-2017)

MESRI-DAEI / MEAE

2018

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

GENERAL PRESENTATION OF THE PROGRAMME

Creation : 2003

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

Total budget (France + Japan) : around 300 000 € / year

>> including budget from the French part : 150 000 € / year

>> including budget from the Japanese part : 150 000 € / year

Average budget per project (France + Japan) : 14 000 € / year

Number of new projects per year : around 14

From 2005-2016:

838 applications submitted

169 projects funded

DATA SOURCES

Campus France

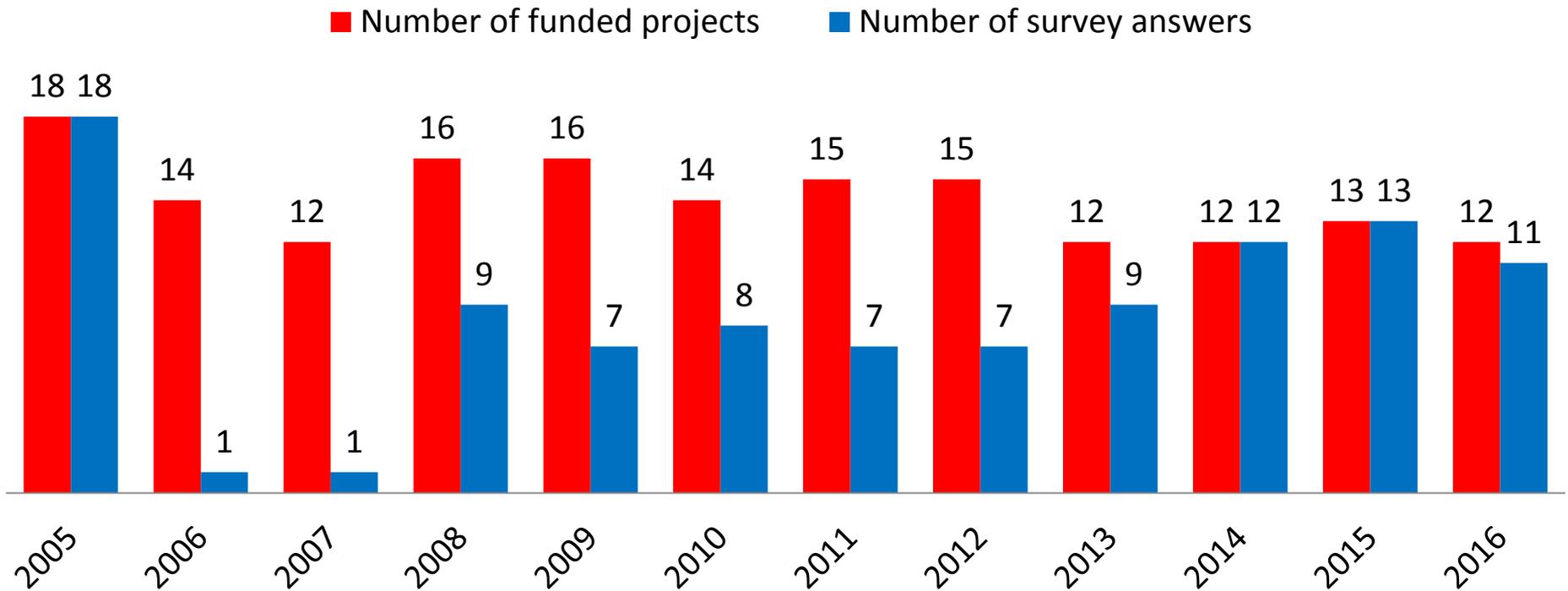
- Information about the PHC Sakura program applications
- List of mobilities (from France to Japan)

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

- Target : French Principal Investigators of selected projects between 2005 and 2016
- Survey **duration** : **6 weeks between June and July 2018**
- **61%** response ratio *(103 respondents for 169 funded projects)*

ANSWERS TO THE SURVEY

Average response rate to the survey : **61 % (103 answers)**



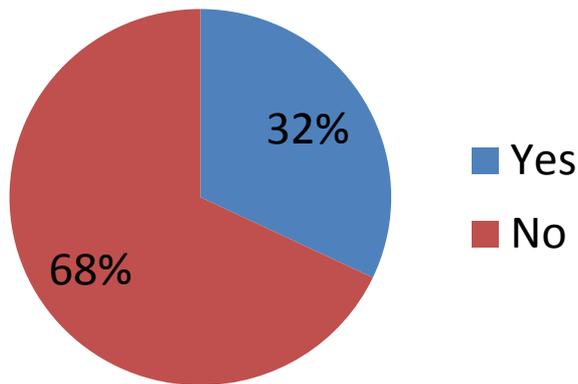
**Campus
France &
Survey
data**

2005-2016

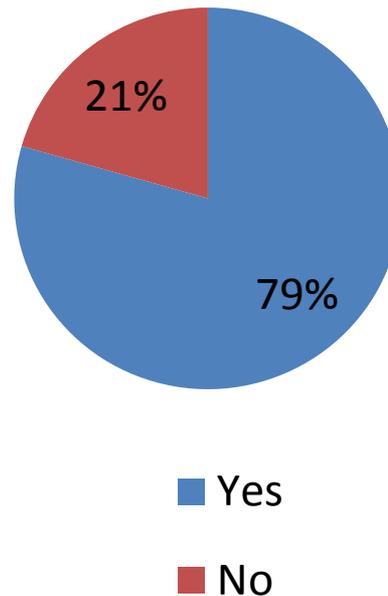
Key Points

BEFORE THE PHC SAKURA PROJECT

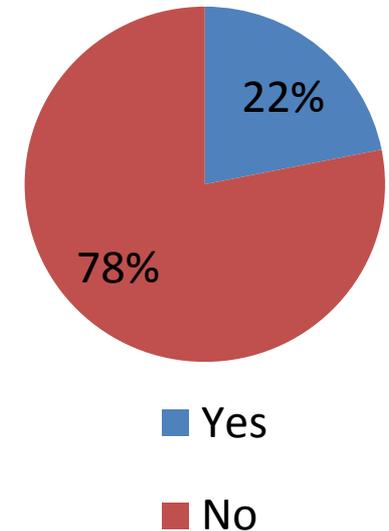
Did you already take part with this Japanese partner in another university and scientist cooperation program that the PHC Sakura supported by France in Japan?



If yes, was it with the same partner?

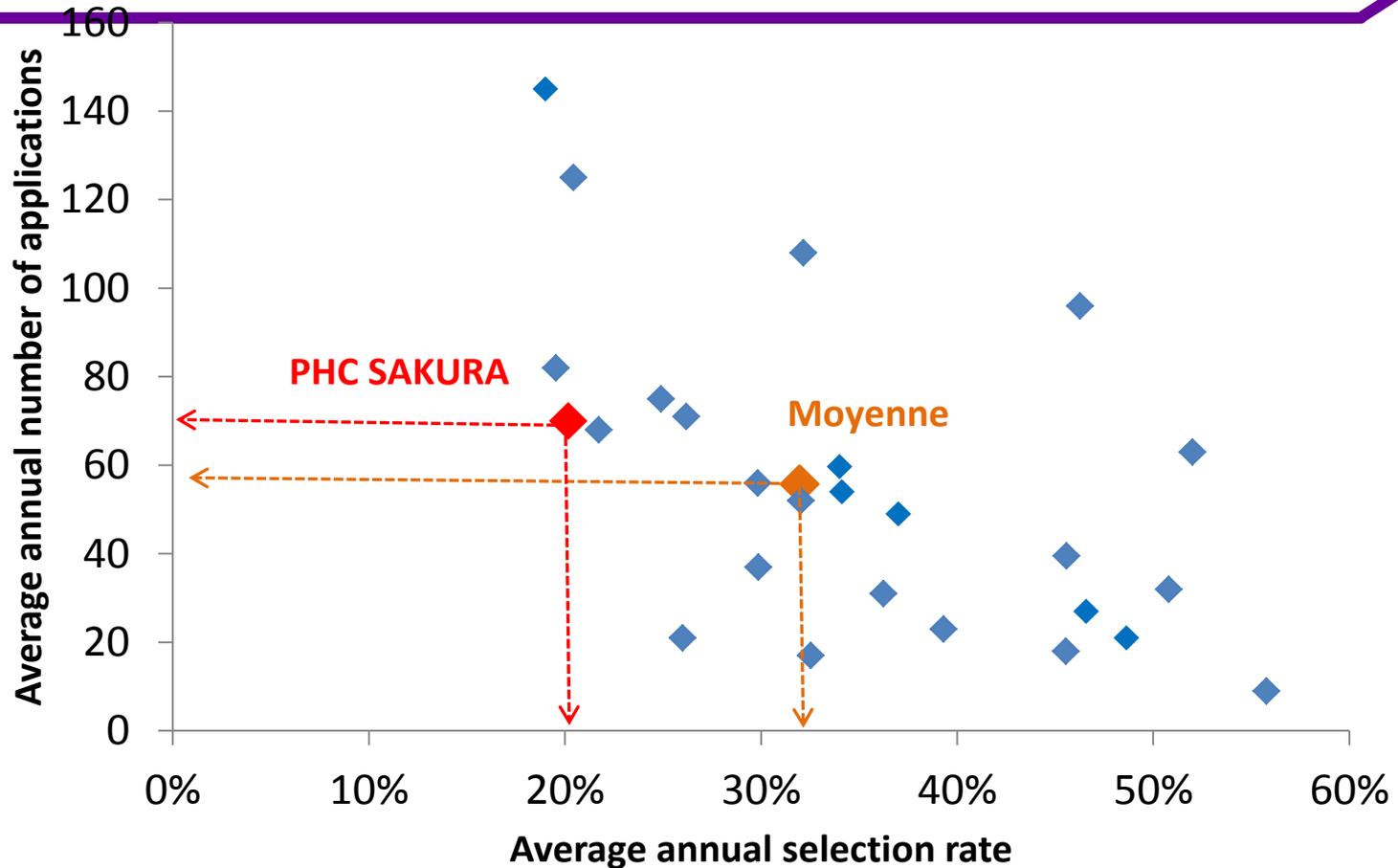


If it was with the same partner, was this program a PHC?



Survey data

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

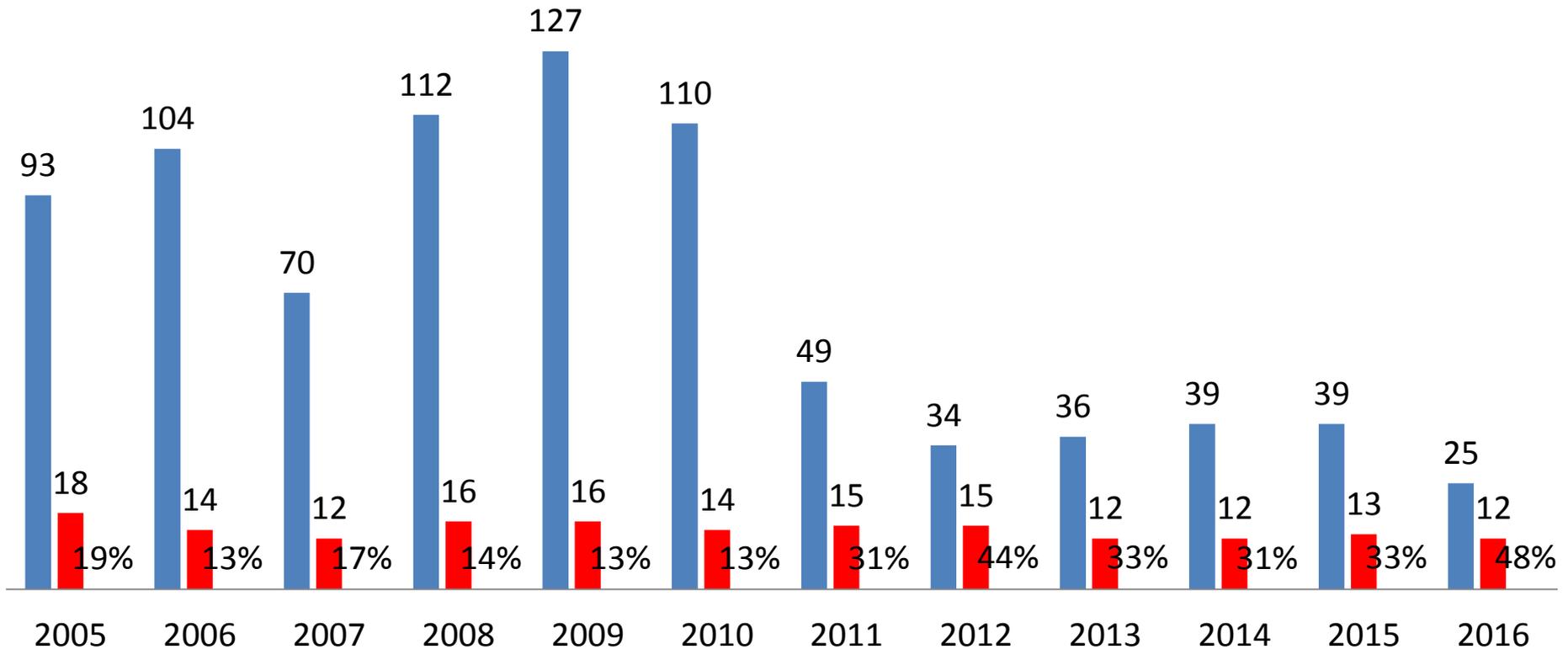


Average selection rate for 2005-2017 : 20% vs 32% mean
Average number of applications 2005-2017 : 70 vs 56 mean

NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2005-2016: **20 %**

■ Number of applications ■ Number of funded projects Selection rate

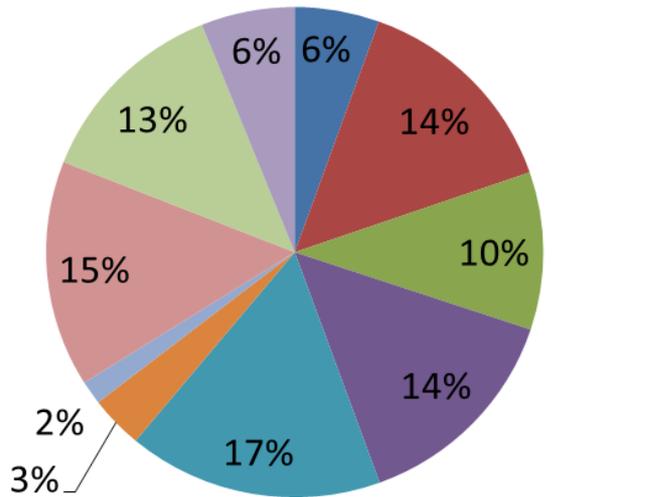


Campus
France
data

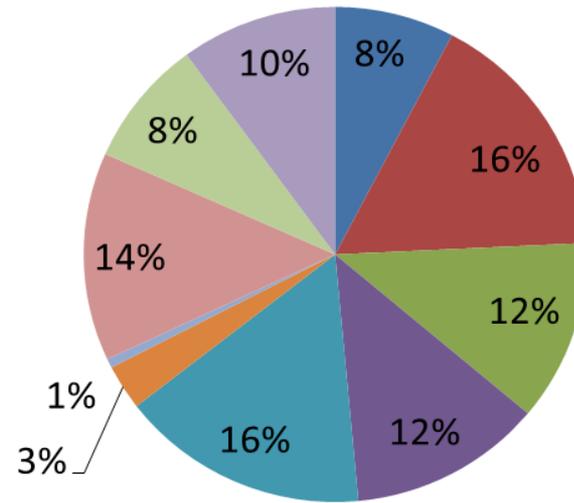
SCIENTIFIC DOMAINS OF PROJECTS

Number of applications : **837**

Number of funded projects : **169**



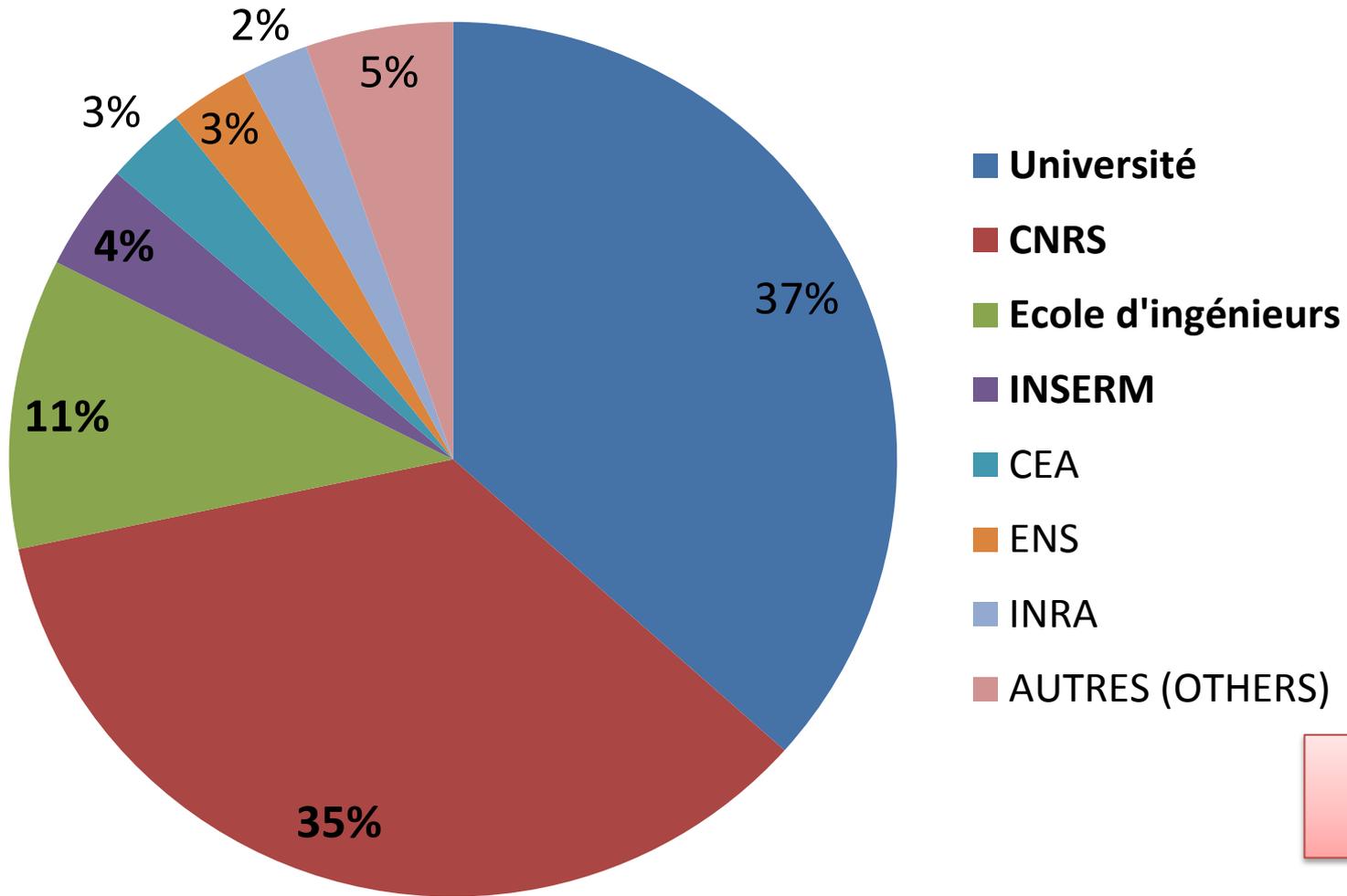
- Mathematics
- Physics
- Marine / Earth / Planet Sciences
- Chemistry
- Biology and Health



- Humanities
- Social Sciences
- Engineering Sciences
- Information Technology
- Agronomy / Food Science / Environment / Biodiversity

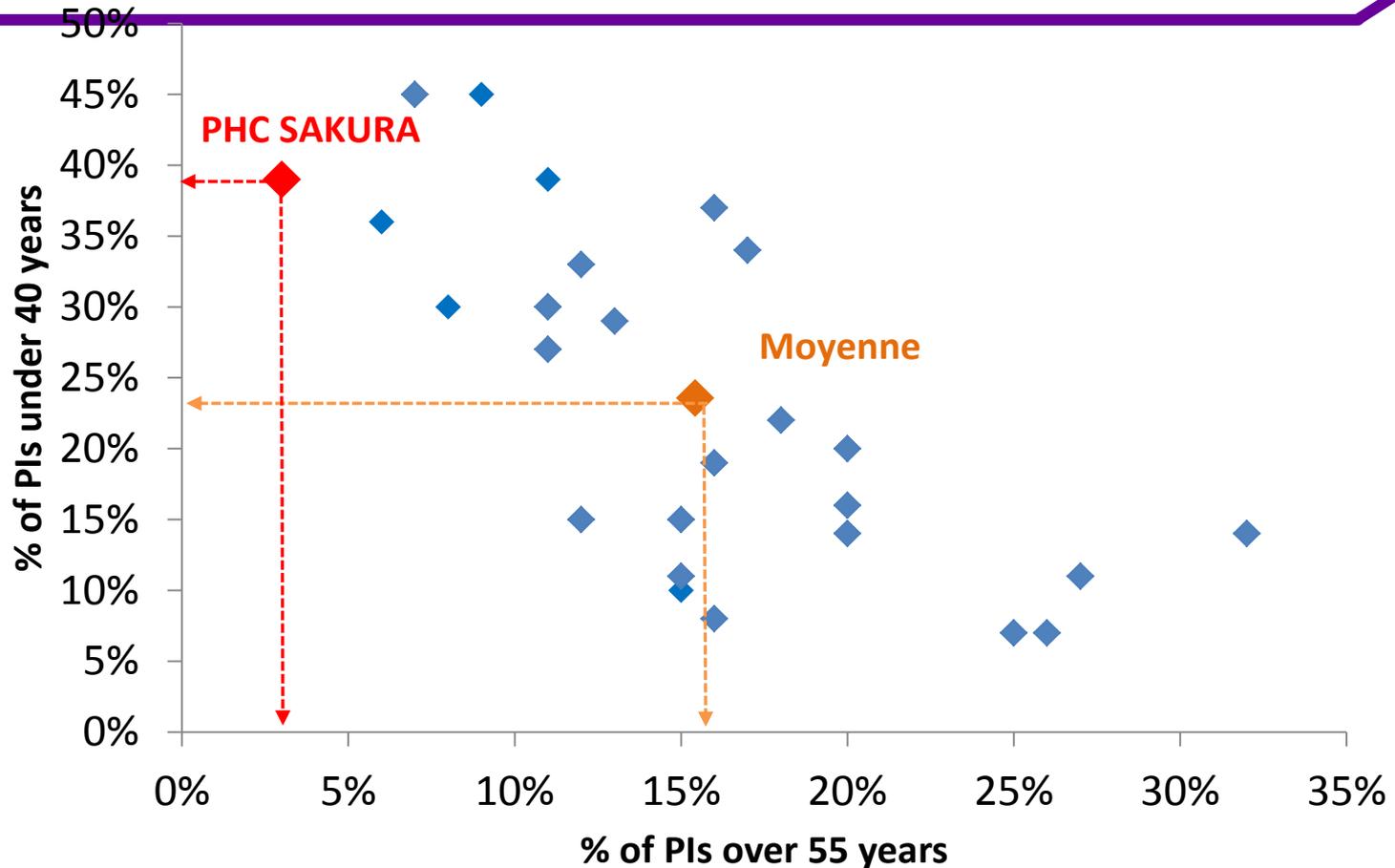
**Campus
France
data**

FRENCH PARTICIPATING INSTITUTIONS



Survey data

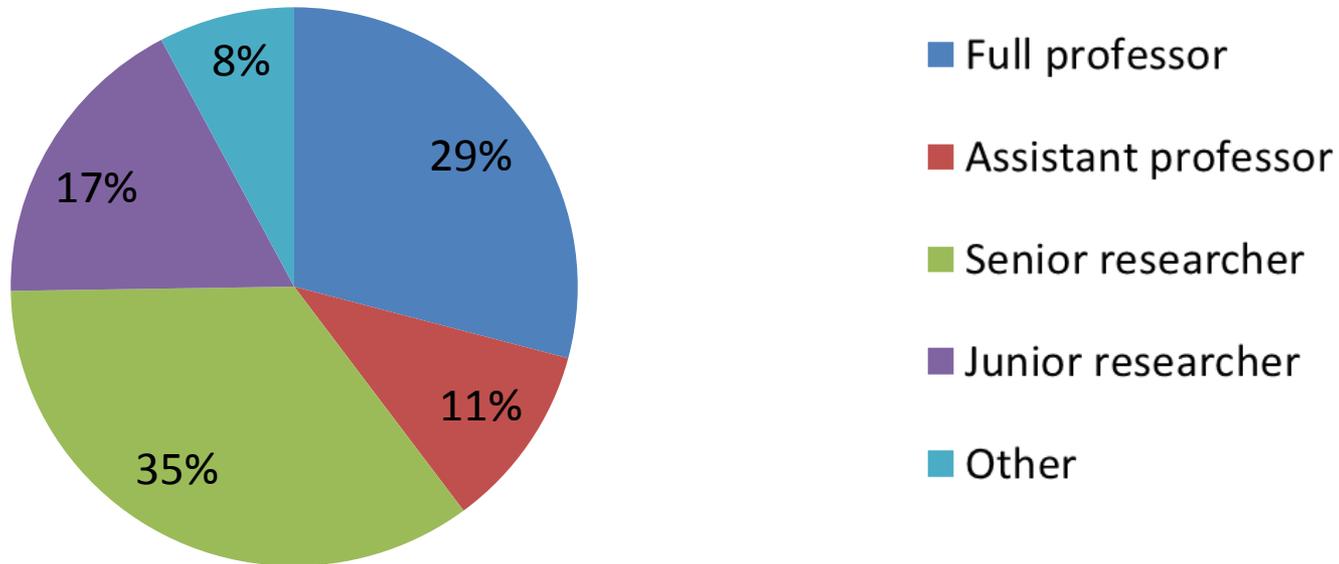
AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



PIs under 40 years : 36% vs 24% mean
PIs over 55 years : 3% vs 15% mean
61% of the PIs are between 40 and 55 years

FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS AND AGE

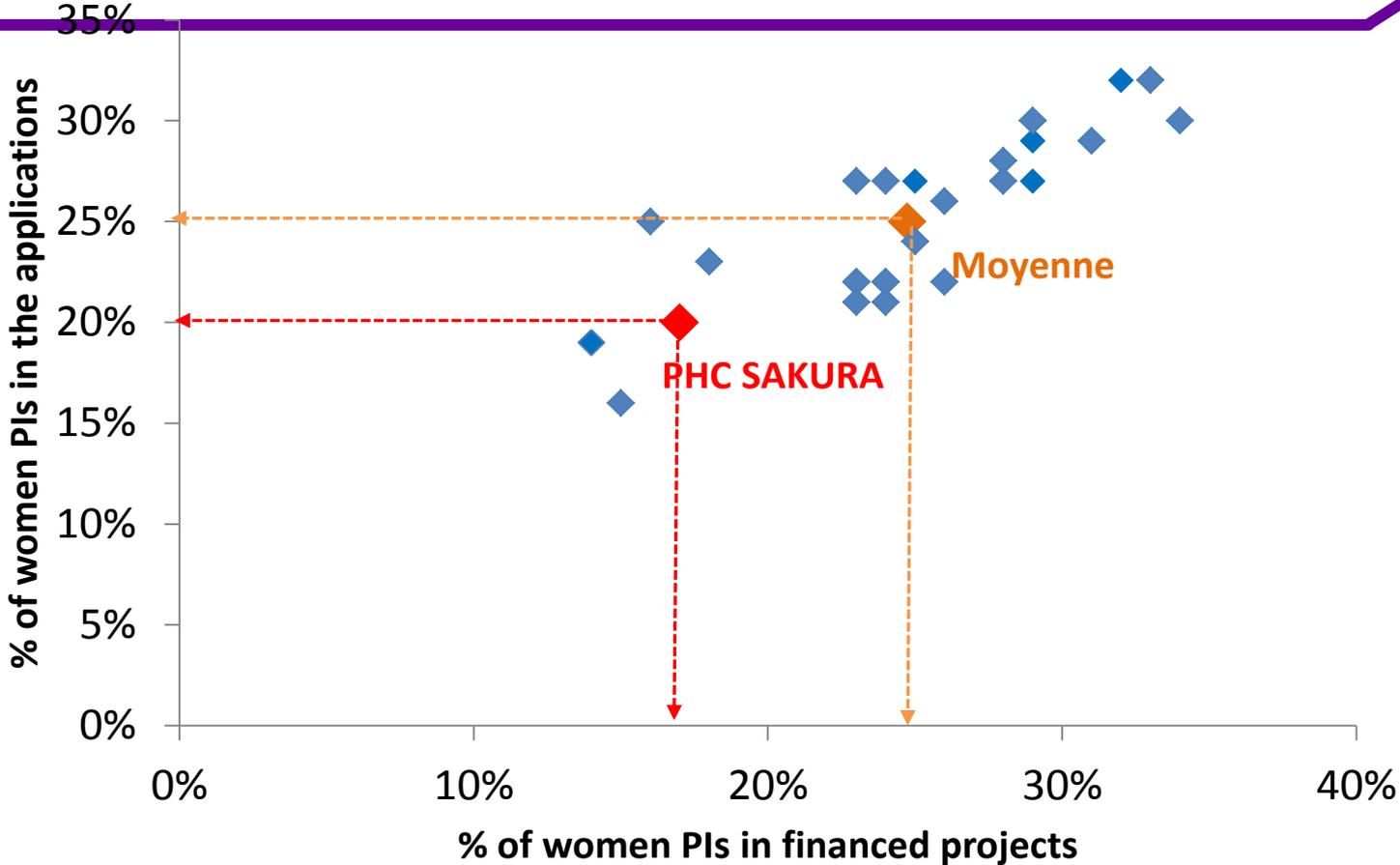
Current professional status



Survey data

IMPLICATION OF WOMEN (FRANCE)

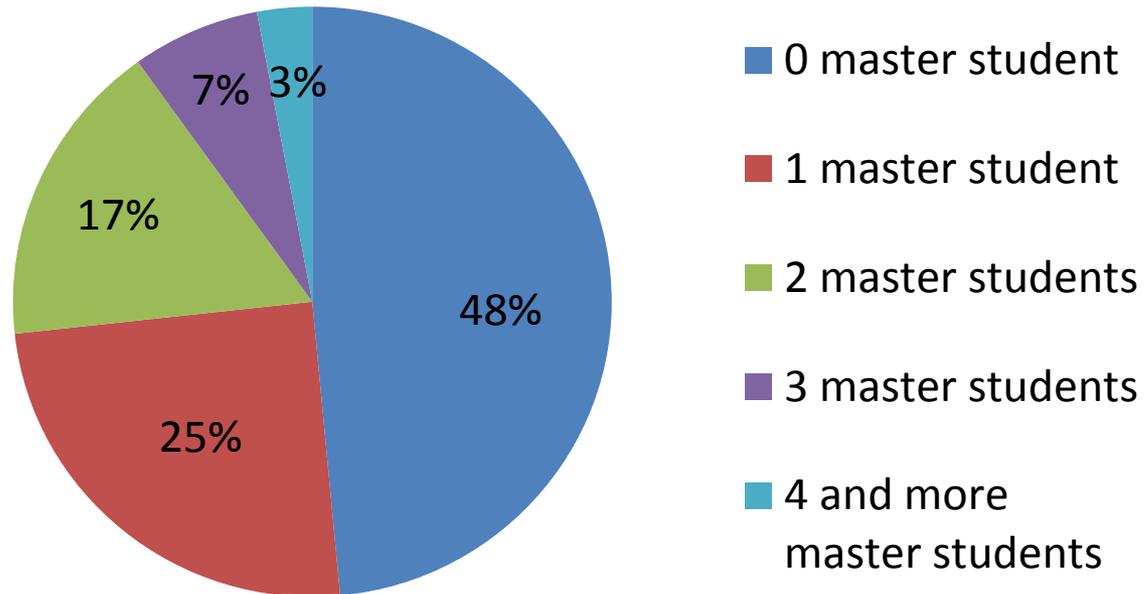
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



% of women PIs in the applications : 20% vs 25% mean
% of women PIs in the selected projects : 15% vs 25% mean

PARTICIPATION OF YOUNG RESEARCHERS (1/2)

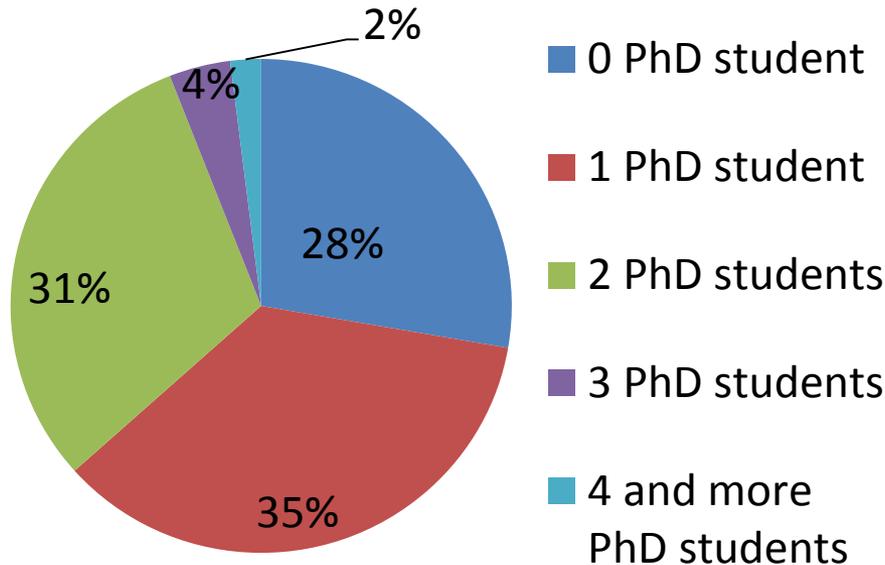
Number of master students



52 % of projects integrate master students

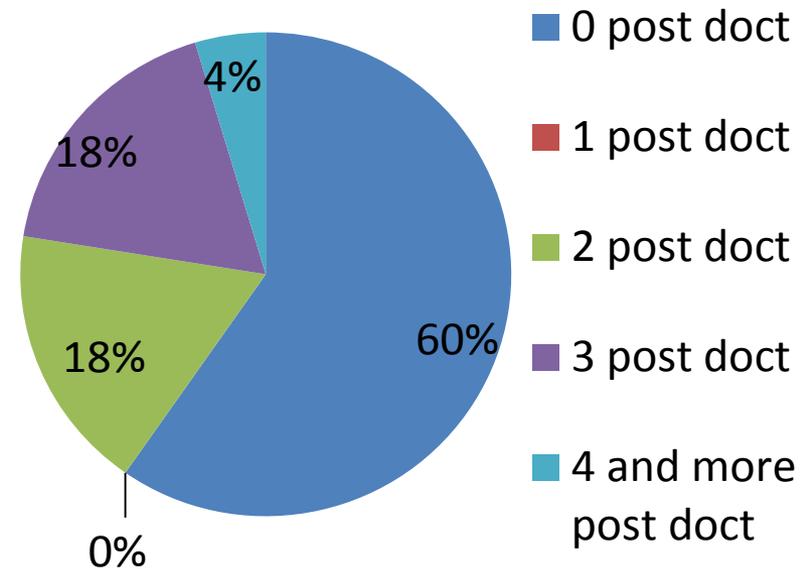
PARTICIPATION OF YOUNG RESEARCHERS (2/2)

Number of PhD students



72 % of projects integrate PhD students

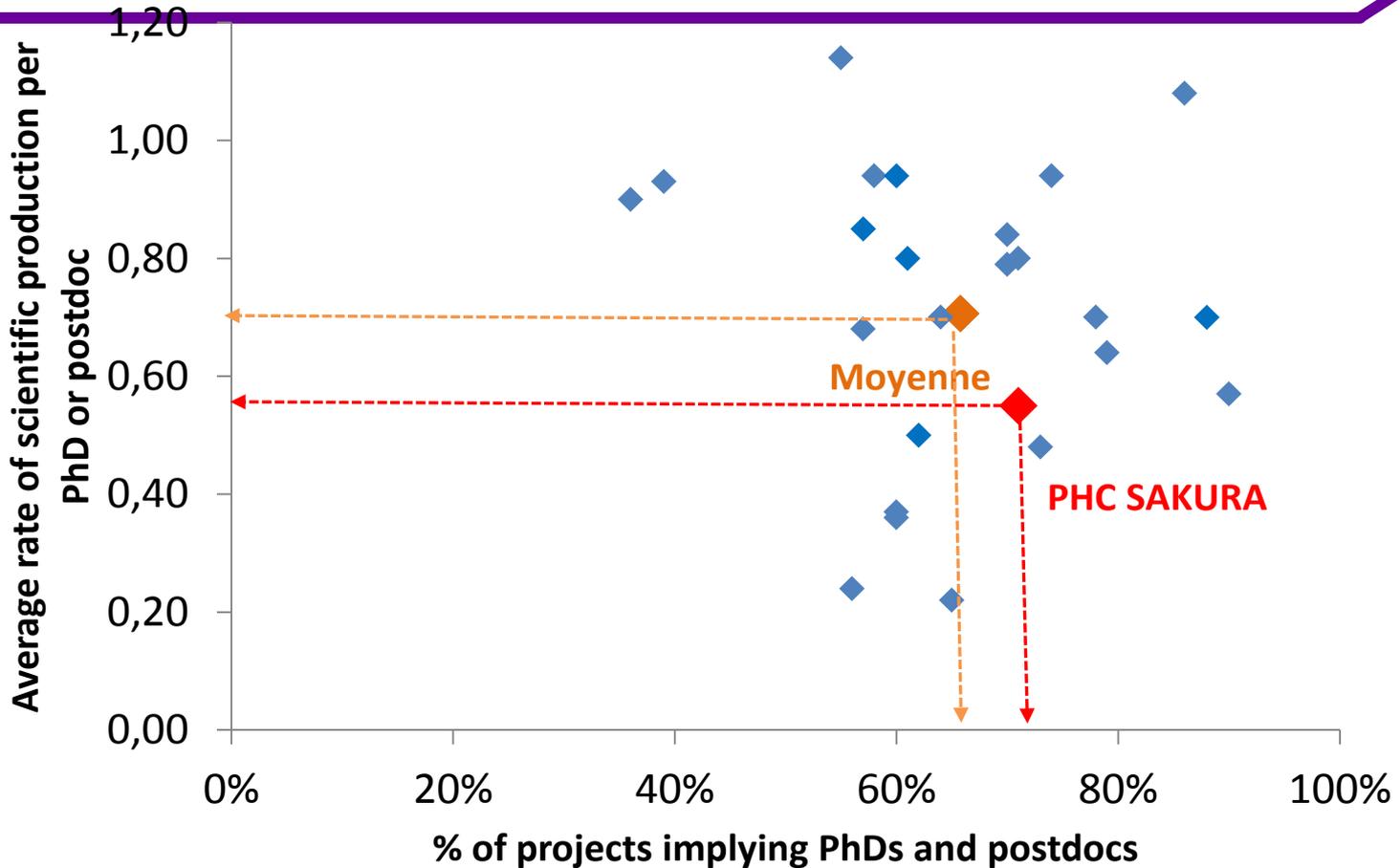
Number of post-doctoral researchers



40 % of projects integrate post-doctoral researchers

IMPLICATION OF PhDs

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

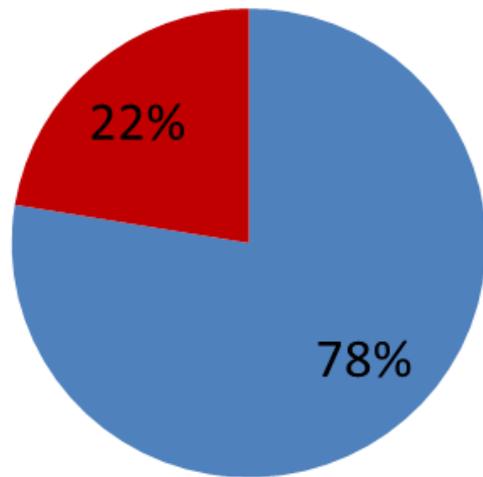


% of projects implying PhDs and Post-doc : 71% vs 66% mean
Average rate of scientific production per PhD : 0,55 vs 0,71mean

Mobility

MOBILITY : GENDER DISTRIBUTION

France → Japan



■ Men ■ Women

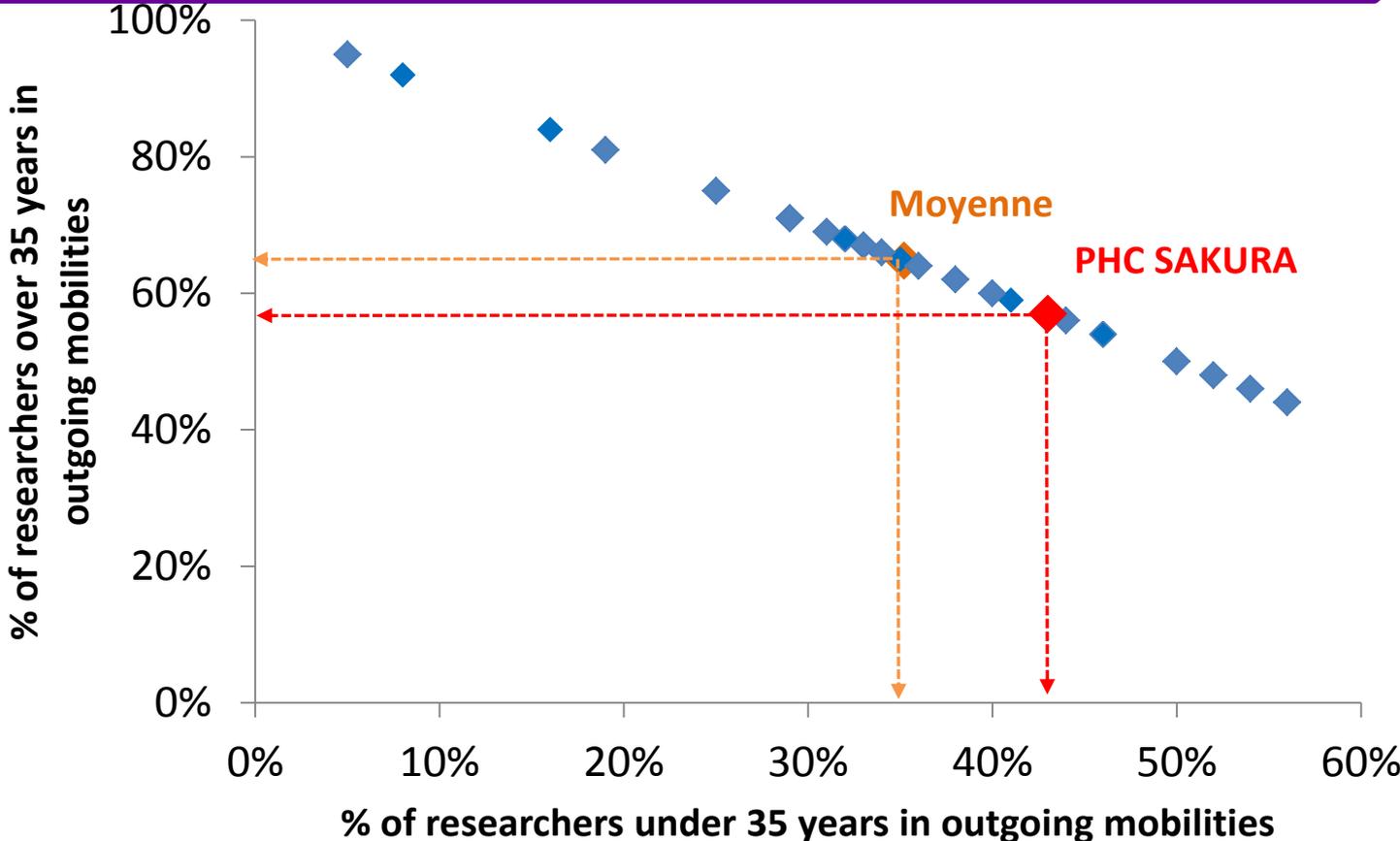
Japan → France

No data available

Campus
France
data

MOBILITY FRANCE – JAPAN

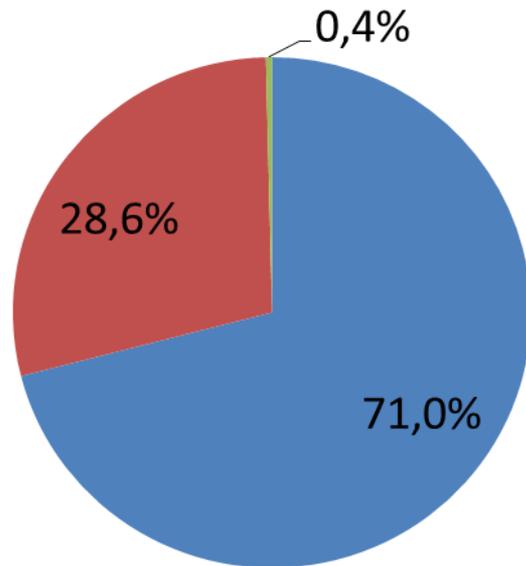
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



% of french young researchers in outgoing mobilities : 43% vs 35% mean

MOBILITY : DURATION

France → Japan



■ < 15 days

■ between 15 days and 3 months

■ > 3 months

Japan → France

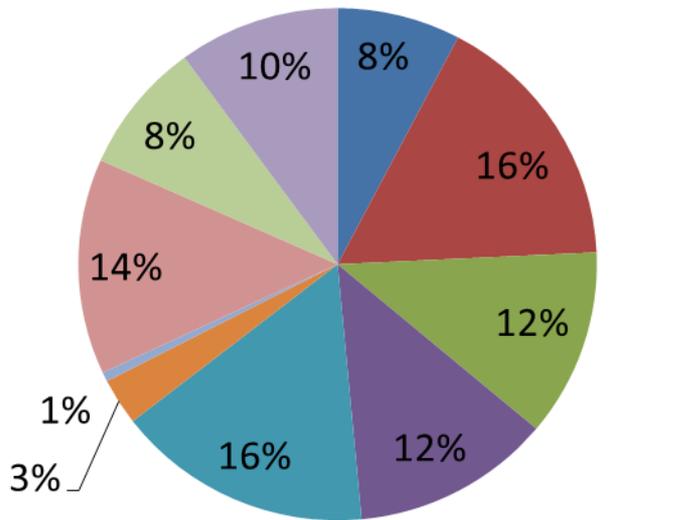
No data available

Campus
France
data

Scientific production

SCIENTIFIC OUTPUT (1/2)

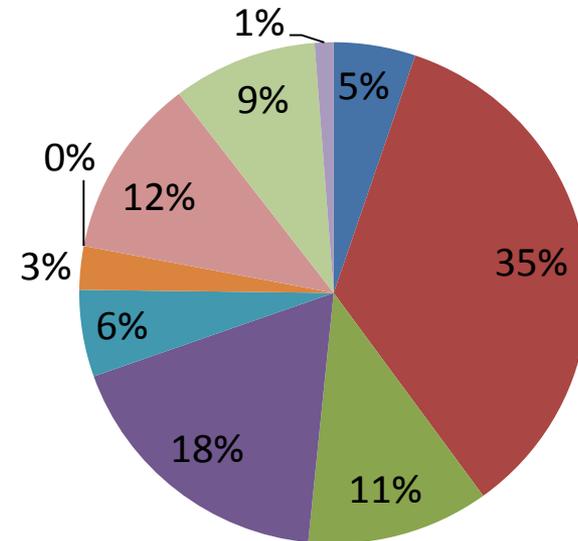
Number of funded projects : **169**



- Mathematics
- Physics
- Marine / Earth / Planet Sciences
- Chemistry
- Biology and Health

**Campus
France
data**

Percentage of copublications



- Humanities
- Social Sciences
- Engineering Sciences
- Information Technology
- Agronomy / Food Science / Environment / Biodiversity

**Survey
data**

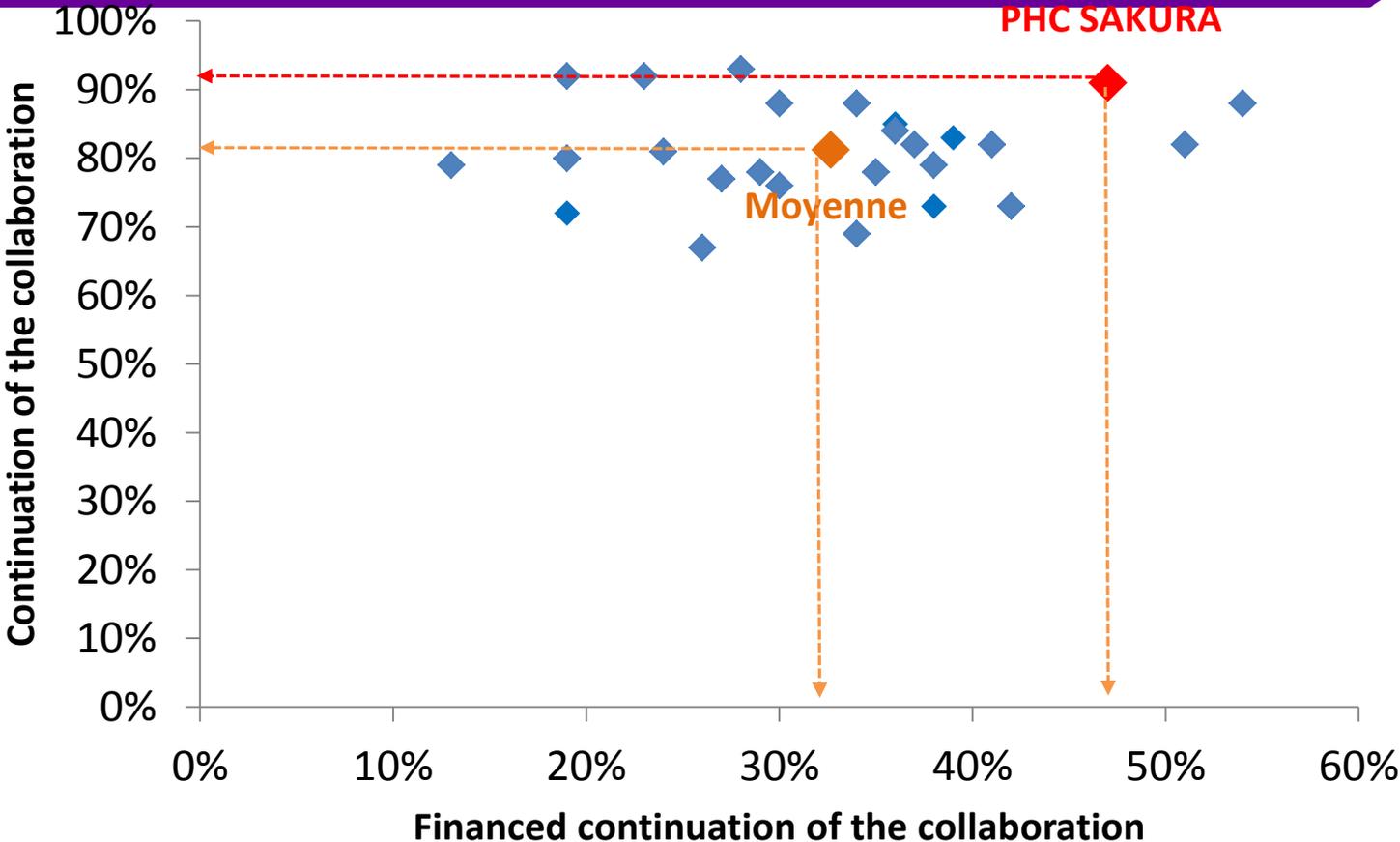
SCIENTIFIC OUTPUT (2/2)

77% of funded projects led to one co-publication at least
26% 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	7%	13	5%	67%	2,2
Physics	18	20%	87	35%	78%	4,8
Marine / Earth / Planet Sciences	12	13%	29	12%	75%	2,4
Chemistry	16	17%	45	18%	94%	2,8
Biology and Health	13	14%	14	6%	69%	1,1
Humanities	2	2%	7	3%	100%	3,5
Social Sciences	1	1%	0	0%	0%	0,0
Engineering Sciences	15	16%	29	12%	87%	1,9
Information Technology	5	5%	23	9%	80%	4,6
Agronomy / Food Science / Environment / Biodiversity	4	4%	3	1%	25%	0,8
TOTAL	92	100%	250	100%	77%	2,7

What happens after a PHC Sakura project ?

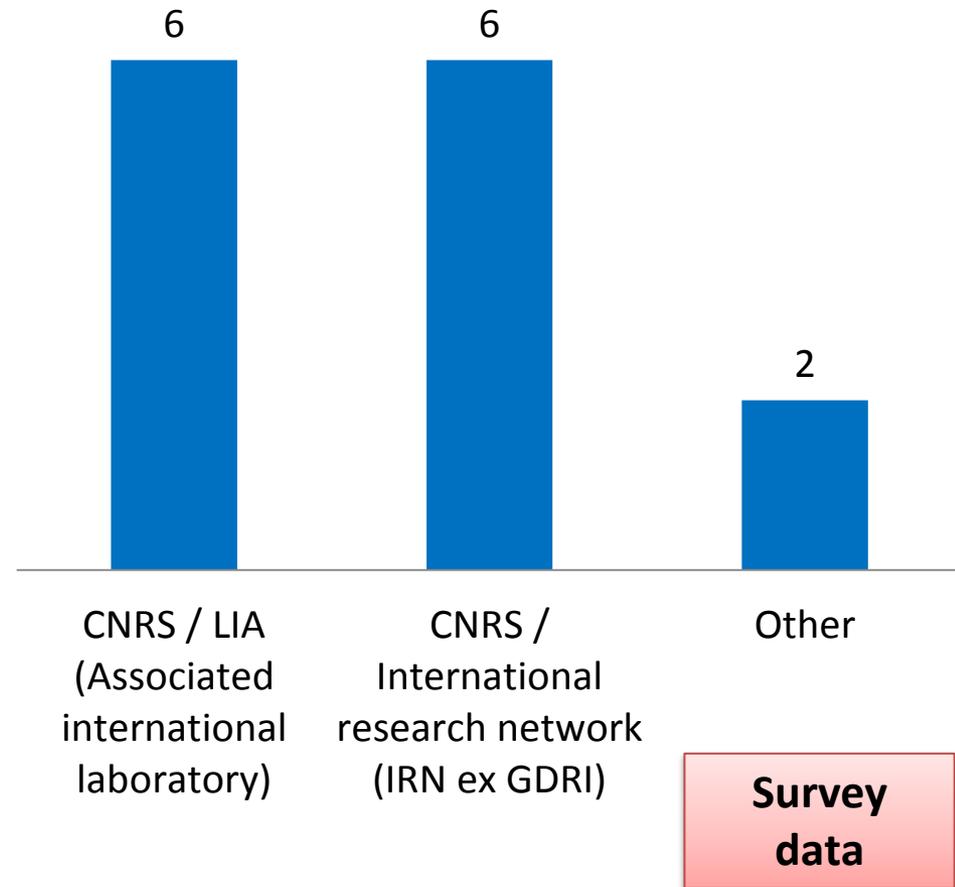
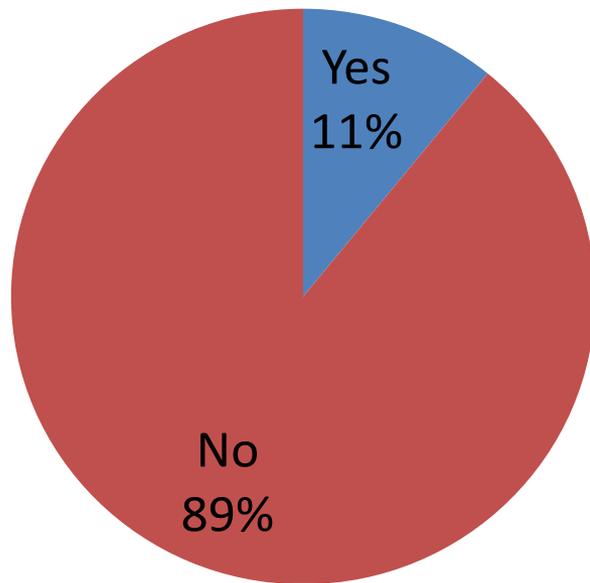
CONTINUATION OF THE COLLABORATION (1/3) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



Continuation of the collaboration : 91% vs 81% mean
Continuation of the collaboration with other sources of subvention : 47% vs 33% mean

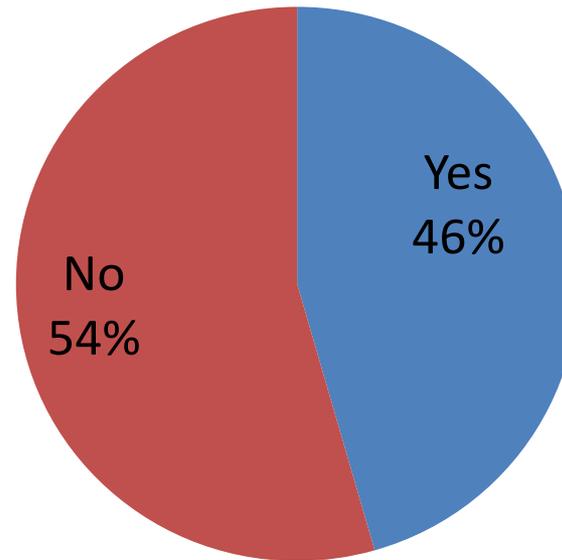
CONTINUATION OF THE COLLABORATION (2/3)

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



CONTINUATION OF THE COLLABORATION (3/3)

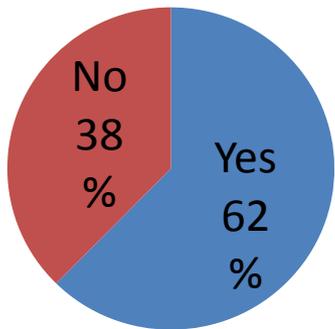
Has the French-Japanese collaboration involved new partners?



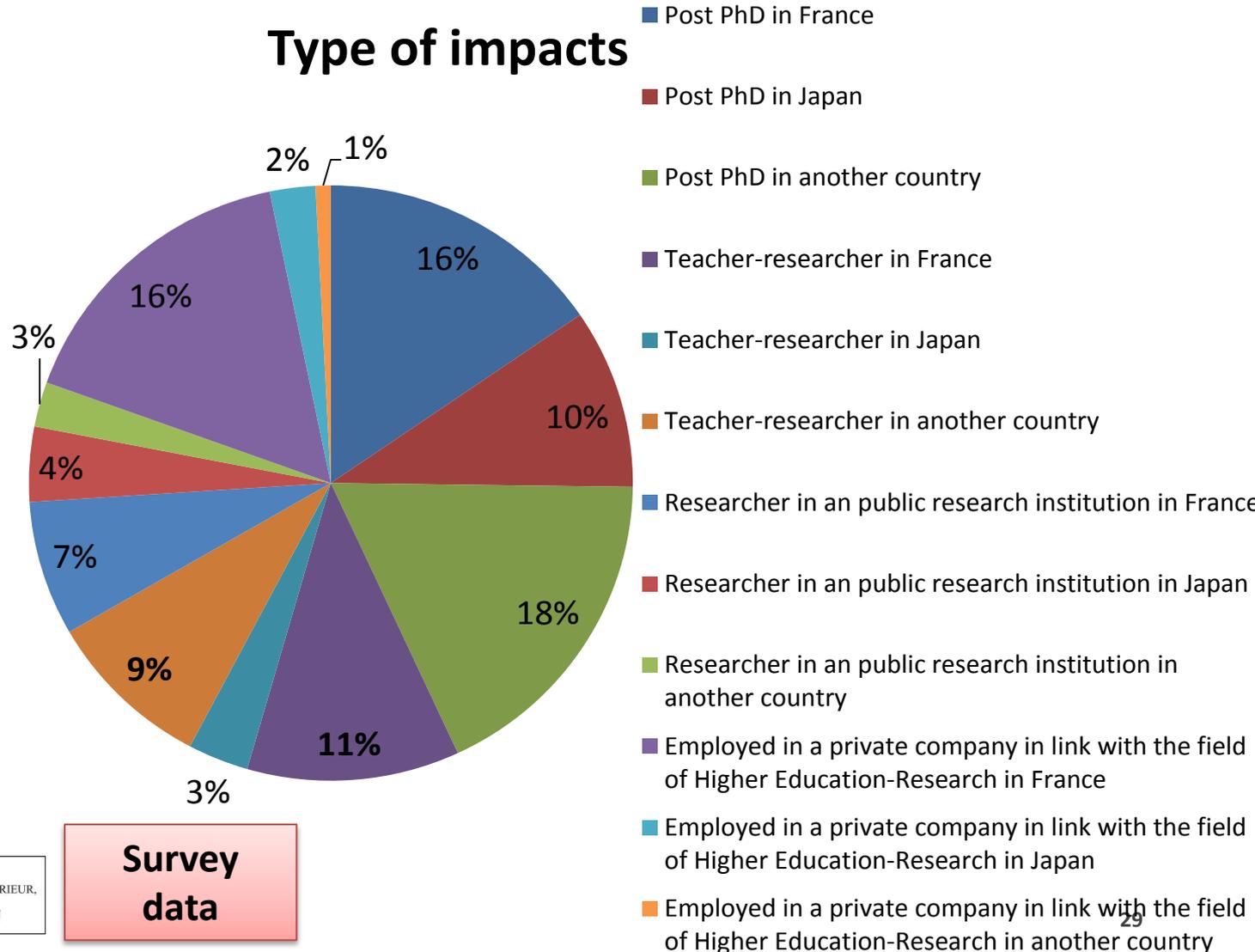
Survey data

IMPACT ON YOUNG RESEARCHERS' CAREER

% of young researchers whose career was impacted by the PHC program



Type of impacts

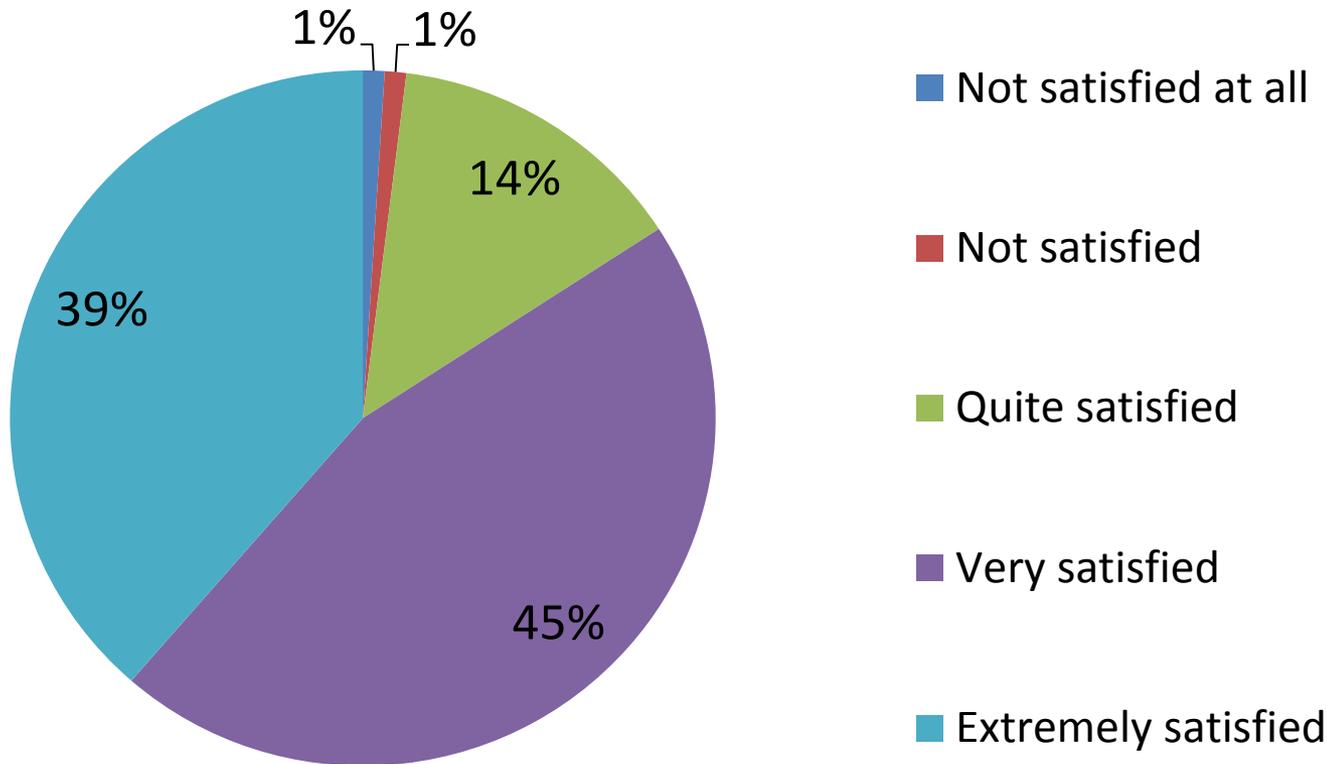


Survey data



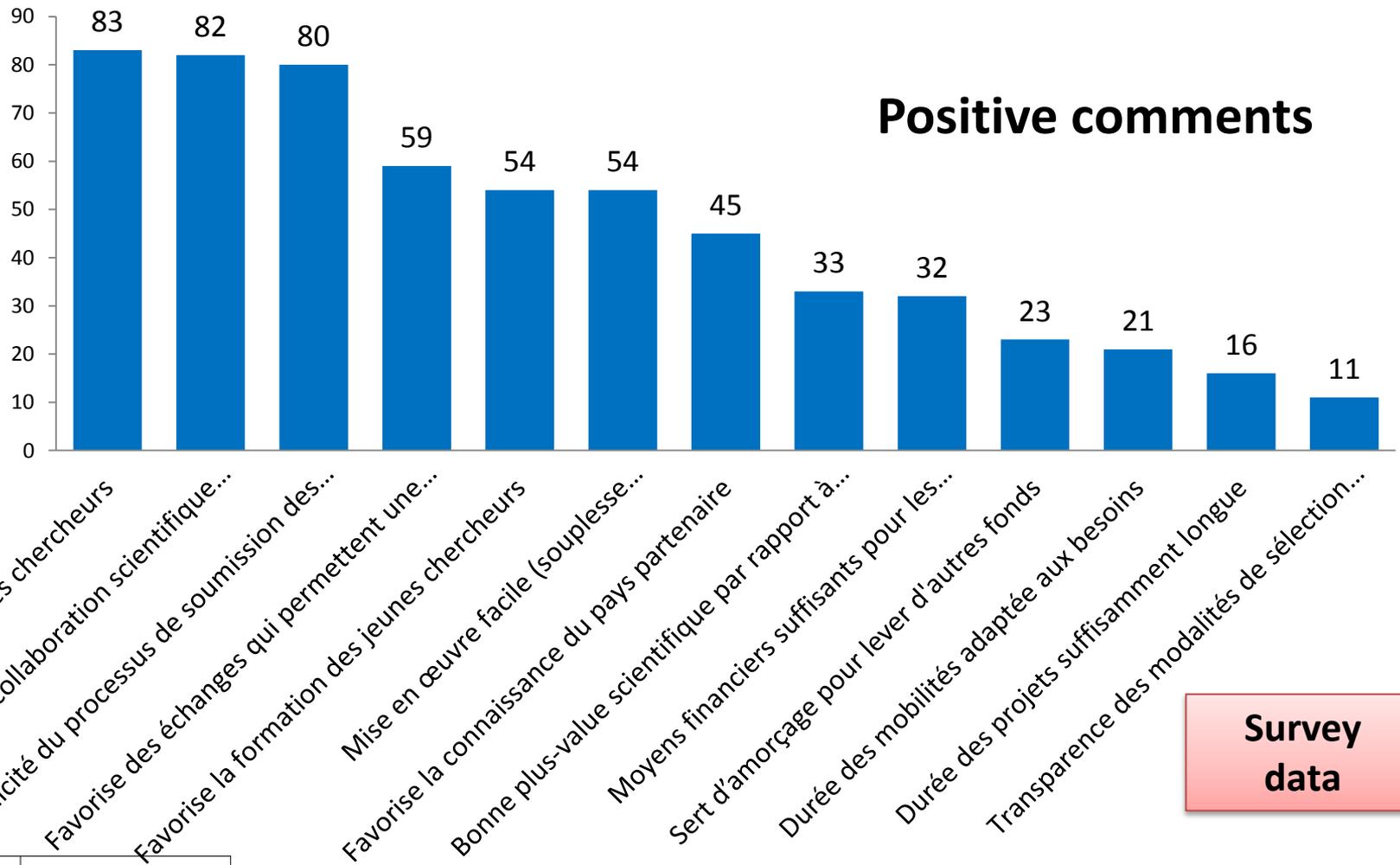
GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (1/3)

98% of French principal investigators are satisfied



Survey data

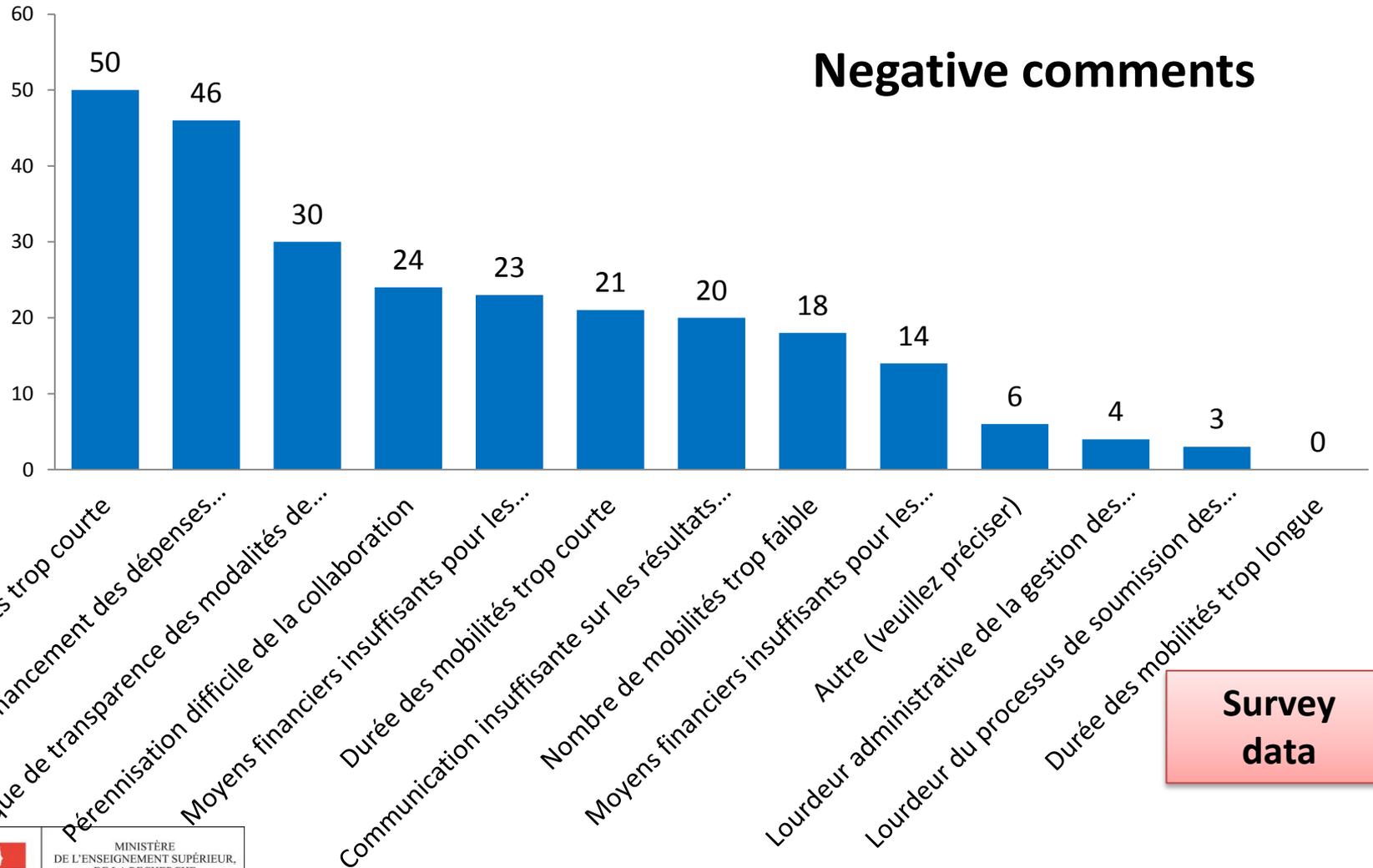
GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (2/3)



Survey data

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

Negative comments



Survey data

PRELIMINARY CONCLUSIONS

Preliminary conclusions suggest that the funding scheme has efficiently contributed to create (or to maintain) fruitful and long-term cooperation, despite the relatively low financial support, which is to be considered as “seed money”.

- + Average number of co-publications per project is good.**
- + Co-publication rate (funded projects that led to one co-publication at least) is good.**
- Involvement of young researchers could be improved for scientific output.**

PRELIMINARY RECOMMENDATIONS

RECOMMENDATIONS

- Aim an average 30% success rate
- Promote scientific co-publications (23% of projects with no co-publications)
- Promote co-publications by young researchers (74% of co-publications are done without any young researcher)
- Promote applications from women (20%)

CONCLUSIONS

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

Thank you for your attention

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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