

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



GENERAL PRESENTATION OF THE PROGRAM

Creation : 2002

- The purpose of this program is to develop excellence scientific and technological exchanges between the French and Stanford laboratories, by promoting new scientific collaborations and integrating in the projects young researchers and PhD students.
- Total budget (France + Stanford): around 68 000 € / year >> including budget from the French part : around 53 000 € / year >> including budget from the US part : around 77 000 € / year Average budget per project (France + Stanford) : around 10 000 € / year

Number of new funded projects per year : around 9

From 2008-2018 :



244 applications submitted

91 projects funded

DATA SOURCES

Data base (2008-2018)

- Fonds France-Stanford statistics
- Number of projects received/funded per year, in total and per categories

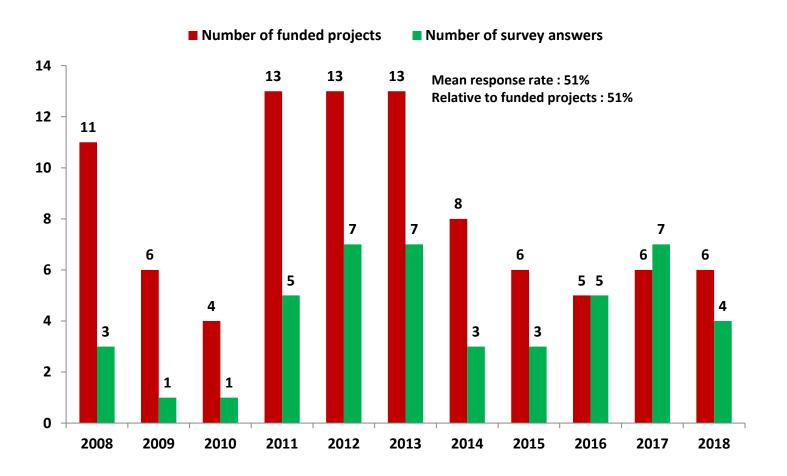
Survey (2008-2018)

- Target : French Principal Investigators of the 91 funded projects between 2008 and 2018
- Survey duration : from February 11 to May 16, 2020
- **51%** response rate (46 respondents for 91 queries)



SURVEY RESPONSES

Average response rate to the survey : 51 % (46 answers)



91 funded projects between 2008 and 2018

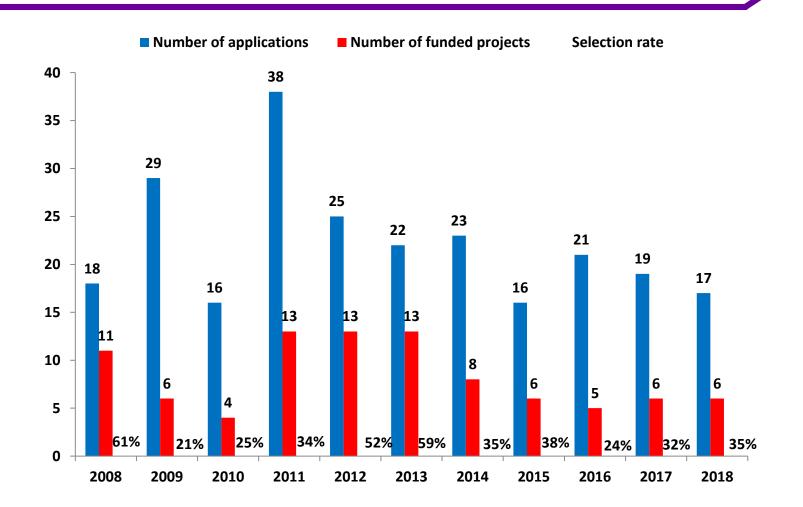


2008-2018 Key Points



NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2008-2018: 37%

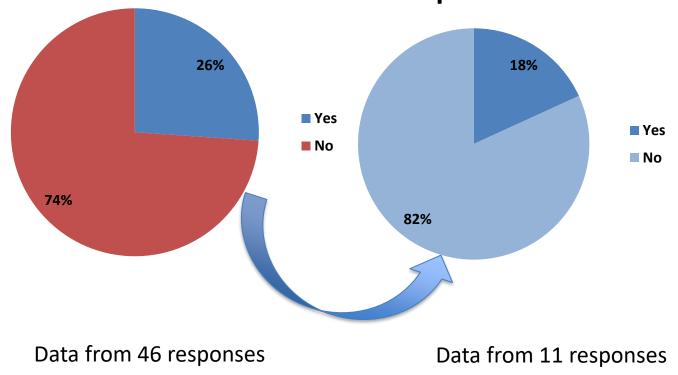




BEFORE JOINING THE FRANCE STANFORD PROJECT (1/2)

Did you already cooperate with USA in the past ?

If yes, was it with the same partner?





BEFORE JOINING THE FRANCE STANFORD PROJECT (2/2)

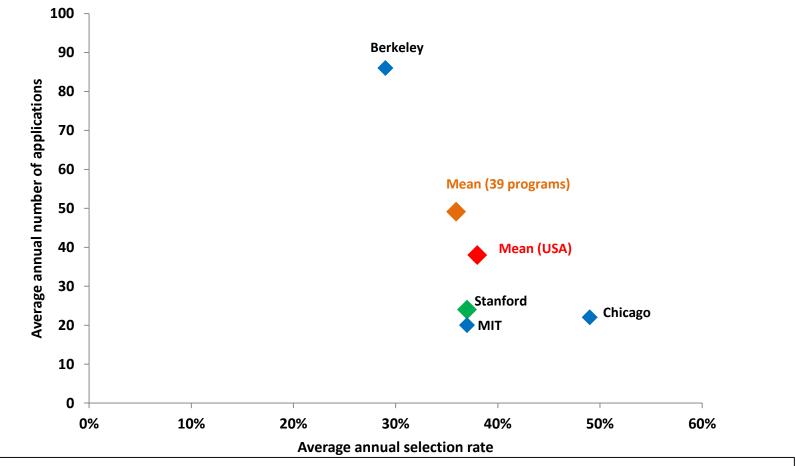
With which of scientific collaboration program ?		
Fulbright	23%	
NSF	23%	
France - Berkeley Funds	15%	
France – Chicago Funds (FACCTS)	8%	
France - MIT	8%	
Other	23%	

Others : PUF, NIH, BAEF (Belgian American fund)

Data from 12 responses



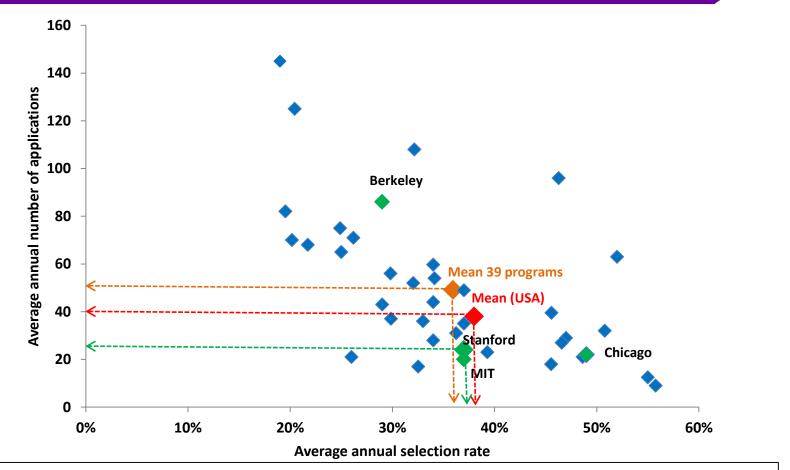
NUMBER OF APPLICATIONS VS SELECTION RATE (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)



Average selection rate for 2008-2018 : 37% vs 38% mean USA and 36% general mean <u>Average number</u> of applications 2008-2018 : 24 vs 38 mean USA and 49 general mean



NUMBER OF APPLICATIONS VS SELECTION RATE (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)



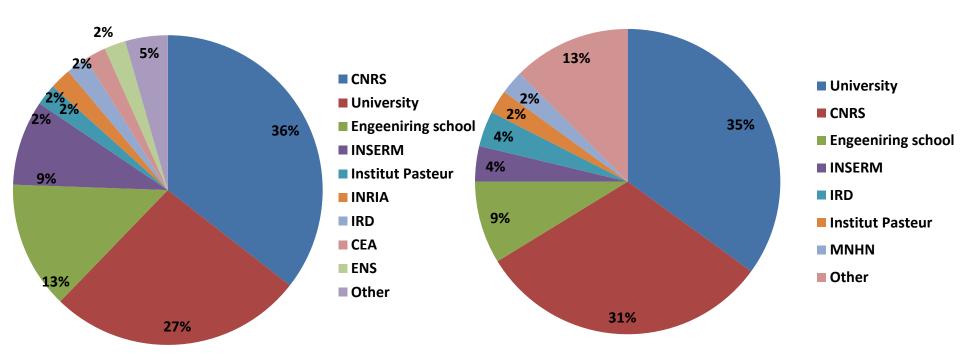
Average selection rate for 2008-2018 : 37% vs 38% mean USA and 36% general mean <u>Average number</u> of applications 2008-2018 : 20 vs 38 mean USA and 49 general mean



FRENCH PARTICIPATING INSTITUTIONS

PI's employers

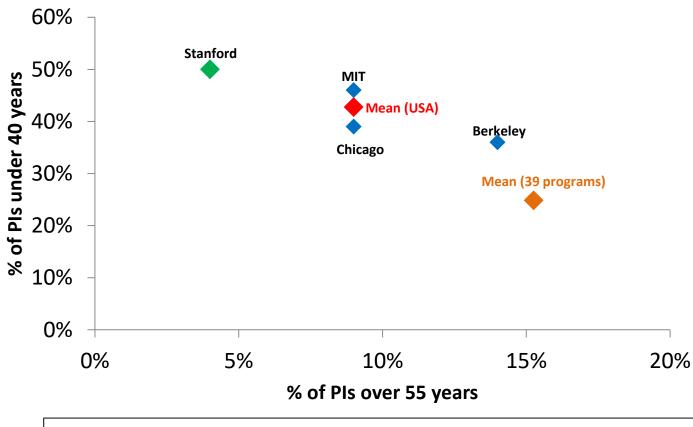
Laboratory authorities





Data from 46 responses

AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)



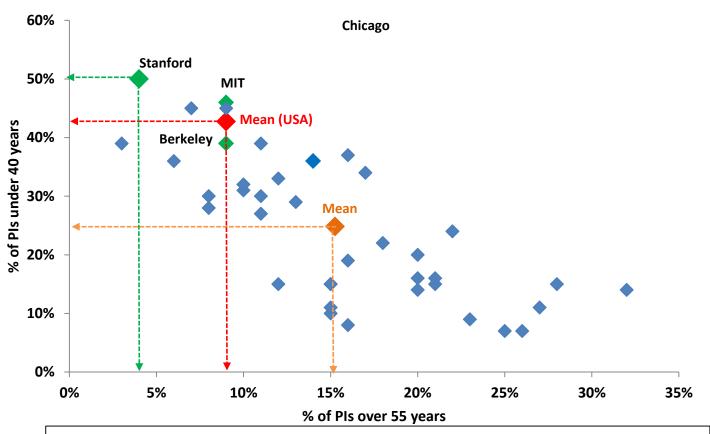
PIs under 40 years old : 50% vs 43% mean USA and 25% general mean PIs over 55 years old: 4% vs 9% mean USA and 15% general mean 46% of the PIs are between 40 and 55 years old



MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR

DE LA RECHERCHE ET DE L'INNOVATION

AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)



PIs under 40 years old : 50% vs 43% mean USA and 25% general mean PIs over 55 years old: 4% vs 9% mean USA and 15% general mean 46% of the PIs are between 40 and 55 years old



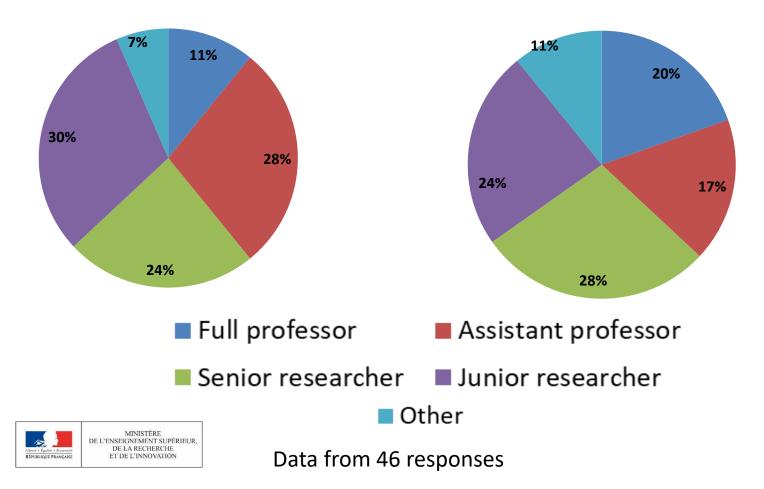
MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR

DE LA RECHERCHE ET DE L'INNOVATION

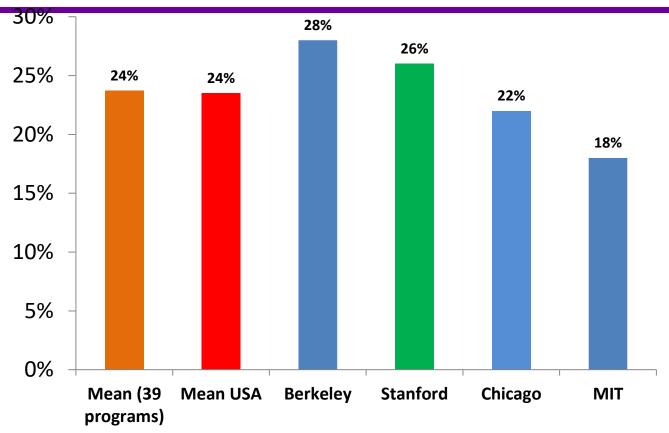
PROFESSIONAL FUNCTION OF FRENCH PRINCIPAL INVESTIGATORS

Previous professional status (at the beginning of the project)

Current professional status



IMPLICATION OF WOMEN (FRANCE) (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)

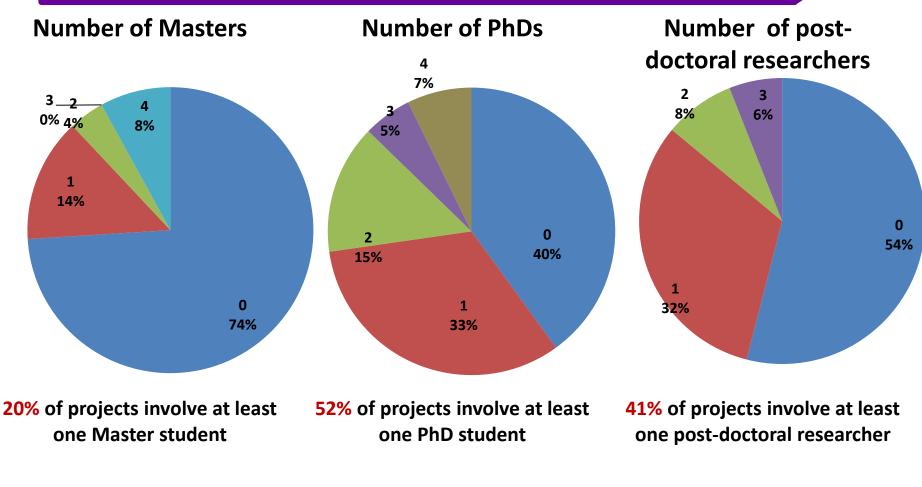


% of women PIs in financed projects

% of women PIs in the applications : NOT AVAILABLE % of women PIs in the selected projects : 28% vs 24% mean USA and general mean



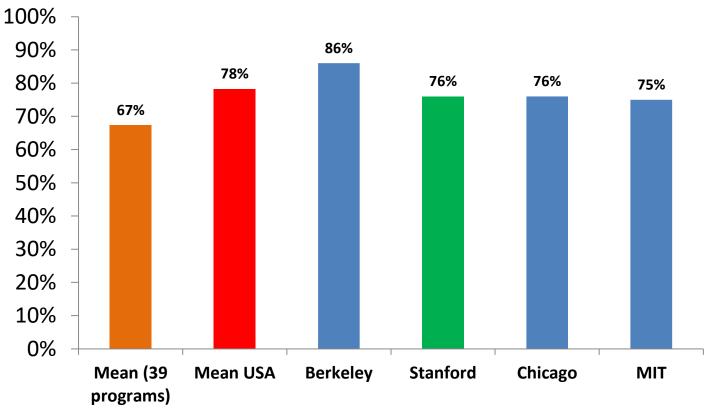
PARTICIPATION OF FRENCH YOUNG RESEARCHERS



Data from 46 responses



IMPLICATION OF YOUNG RESEARCHERS (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)



% of projects implying PhDs and postdocs

% of projects implying young researchers : 76% vs 78% mean USA and 67% general mean % of PhD or postdoc implicated in the copublications : NOT AVAILABLE

MOBILITY



YOUNG RESEARCHERS MOBILITY 2017-2019

60%

50%

40%

30%

20%

10%

46%

programs)

40%

Mean (14 Mean USA Berkeley Stanford

% of young researchers in incoming mobilities

researchers in incoming mobilities

senior

6 %0%

45% % of senior researchers in outgoing mobilities 40% 40% 37% 34% 35% 31% 30% 26% 25% 19% 20% 15% 10% 5% 0% Mean (38 Mean USA Berkeley Stanford Chicago MIT programs) % of young researchers in outgoing mobilities

France \rightarrow USA

Comparison between 38 bilateral programs

USA → France Comparison between 14 bilateral programs

47%

35%

29%

Chicago

% of french young researchers in outgoing mobilities : 26% vs 31% mean USA and 34% general mean % of american young researchers in incoming mobilities : 35% vs 40% mean USA and 46% general mean



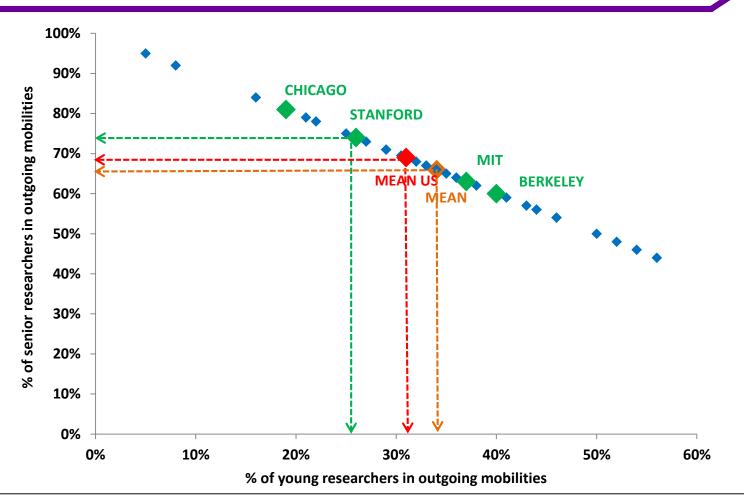
Data received from 46 funded projects including mobilities

MIT

49%

FRENCH YOUNG RESEARCHERS MOBILITY 2017-2019

France → USA Comparison between 38 bilateral programs



% of french young researchers in outgoing mobilities : 26% vs 31% mean USA and 34% general mean

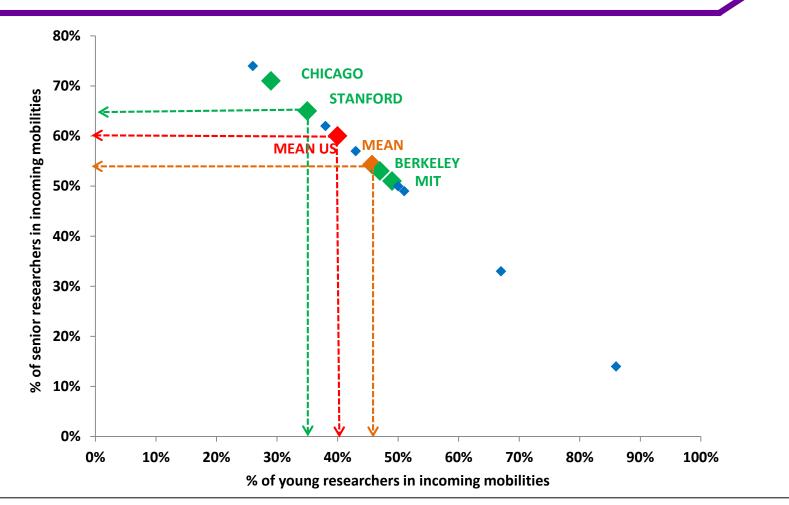
MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR DE LA RECHERCHE RÉPUBLIQUE FRANÇAISI ET DE L'INNOVATION

15

Data received from 46 funded projects including mobilities

AMERICAN YOUNG RESEARCHERS MOBILITY 2017-2019

USA → France Comparison between 14 bilateral programs



% of american young researchers in incoming mobilities : 35% vs 40% mean USA and 46% general mean

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR DE LA RECHERCHE RÉPUBLIQUE FRANÇAISE ET DE L'INNOVATION

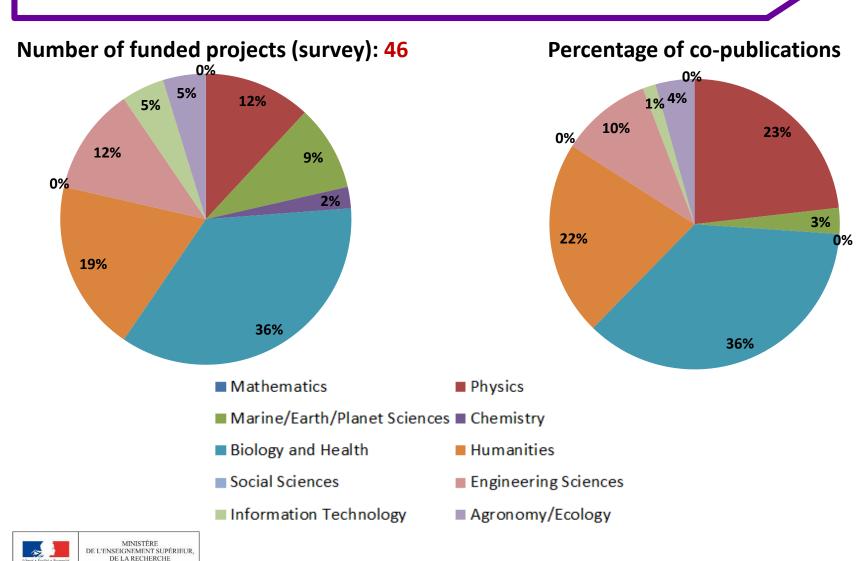
15

Data received from 46 funded projects including mobilities

SCIENTIFIC PRODUCTION (2008-2017)



SCIENTIFIC OUTPUT (1/2)



ET DE L'INNOVATION

RÉPUBLIQUE FRANÇAISI

24

SCIENTIFIC OUTPUT (2/2)

Data from 42 funded projects

	Number of financed projects in the survey	Average number of co-publications per project
Mathematics	0	-
Physics	5	3,2
Marine/Earth/Planet Sciences	4	0,5
Chemistry	1	0,0
Biology and Health	15	1,7
Humanities	8	1,9
Social Sciences	0	-
Engineering Sciences	5	1,4
Information Technology	2	0,5
Agronomy / Ecology	2	1,5
TOTAL	42	1,3

Overall average annual number of co-publication per project : 1,30 vs 0,90 general mean

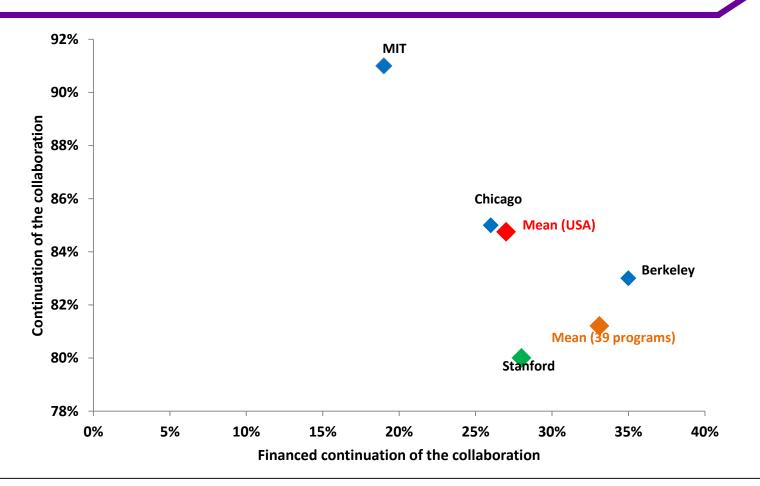
56% of funded projects led to one co-publication at least



WHAT HAPPENS AFTER JOINING THE FRANCE-STANFORD PROGRAM?



CONTINUATION OF THE COLLABORATION (1/6) (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)

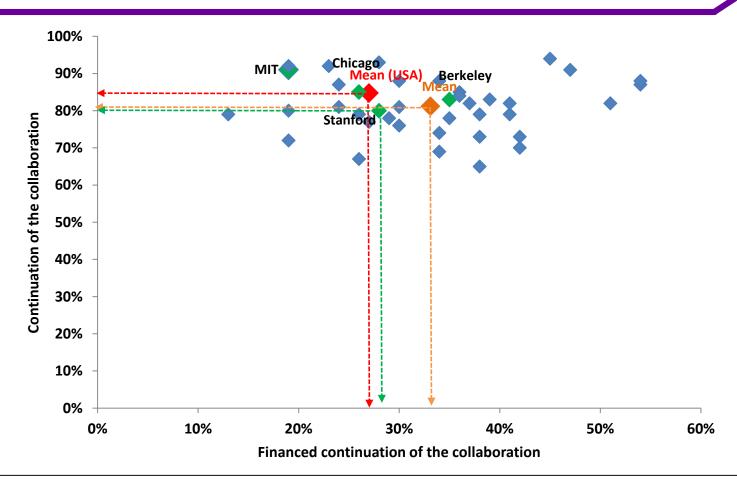


Continuation of the collaboration : 80% vs 85% mean USA and 81% general mean Continuation of the collaboration with other grants: 28% vs 27% mean USA and 33% general mean

Libro - Fgalta - Francist REPUBLIQUE FRANÇAISE

Data from 46 responses (continuation) and 36 responses (financing)

CONTINUATION OF THE COLLABORATION (2/6) (COMPARISON BETWEEN 39 DIFFERENT BILATERAL PROGRAMS)



Continuation of the collaboration : 80% vs 85% mean USA and 81% general mean Continuation of the collaboration with other grants: 28% vs 27% mean USA and 33% general mean

Librat - Egalita - Francisca REPUBLIQUE FRANÇAISE Data from 46 responses (continuation) and 36 responses (financing)

CONTINUATION OF THE COLLABORATION (3/6)

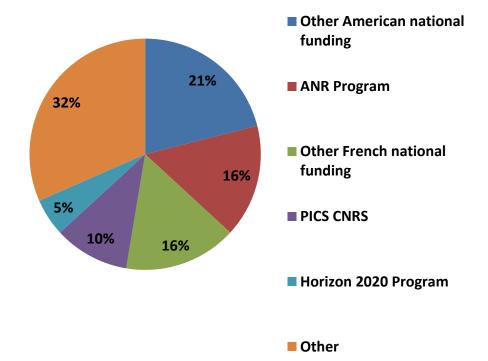
80% of the collaborations continued after the France-Stanford project

Which activities?	
Collaborative research	78%
Co-publications	43%
Mobility of researchers	38%
Joint participation in symposia or conferences	32%
Co-organisation of scientific events	30%
Mobility of PhD students	22%
Mobility of Master's students	3%
Co-directed PhDs	3%
Other	3%



CONTINUATION OF THE COLLABORATION (4/6)

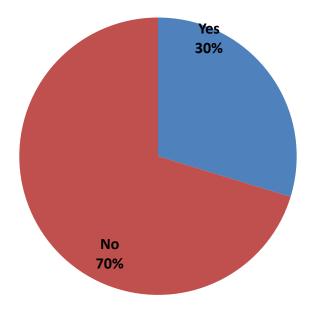
What kind of funded collaborations after the France-Stanford project ?





CONTINUATION OF THE COLLABORATION (6/6)

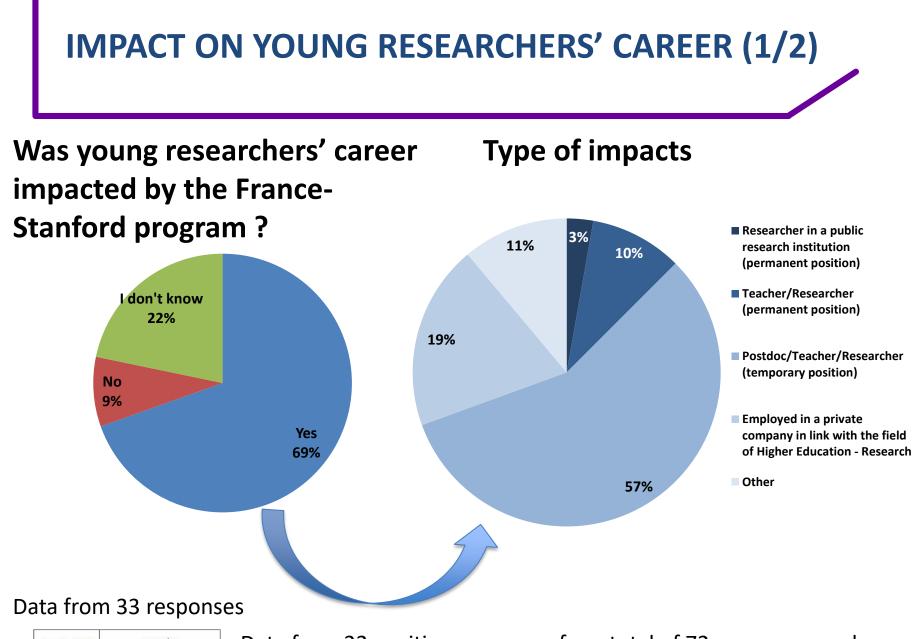
Has the French-US collaboration involved new partners?



For a total of 12 new partners from 5 different countries



Data from 37 responses



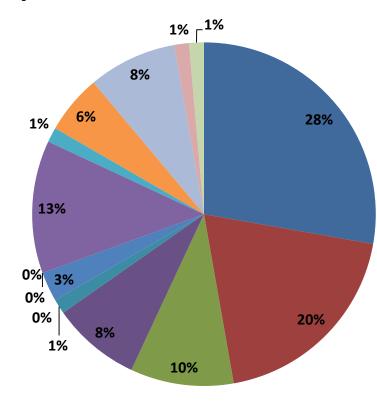
MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE ET DE L'INNOVATION

RÉPUBLIQUE FRANC

Data from 32 positive responses for a total of 72 young researchers

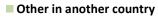
IMPACT ON YOUNG RESEARCHERS' CAREER (2/2)

Detailed types of impacts



Post PhD in France

- Post PhD in the United States
- Post PhD in another country
- Teacher-researcher in France
- Teacher-researcher in the United States
- Teacher-researcher in another country
- Researcher in an public research institution in France
- Researcher in an public research institution in the United States
- Researcher in an public research institution in another country
- Employed in a private company in link with the field of Higher Education-Research in France
- Employed in a private company in link with the field of Higher Education-Research in the United States
- Employed in a private company in link with the field of Higher Education-Research in another country
- Other in France
- Other in the United States

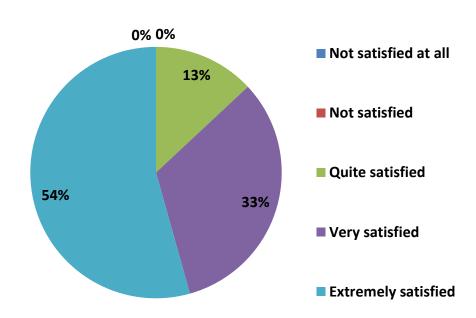


15

RÉPUBLIQUE FRANCAI

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

100% of French principal investigators are satisfied



Data from 46 responses



GENERAL OPINION OF FRENCH PIS ON THE PROGRAM (2/3) POSITIVE COMMENTS SURVEY OF 46 FUNDED PROJECTS



Strengths of this program	Number of occurencies (out of 211)	% (out of 46)
Simplicity of the project application process	40	78%
Fostering an international research collaboration	31	67%
Fostering researchers' mobility	28	61%
Easy implementation (administrative flexibility)	27	59%
Fostering the training of the young researchers	23	50%
Fostering exchanges enabling scientific production	17	37%
Sufficient financial means for the mobility costs	10	22%
Good scientific-added value on financial investment	10	22%
Helpful to initiate other fundraising	10	22%
Helping to know the partner country	7	15%
Sufficient amount of mobility time given to collaborate	5	11%
Transparency of the selection process	3	7%
Sufficiently long duration of the projects	0	0%
Other	0	0%
Total number of occurencies	211	



GENERAL OPINION OF FRENCH PIS ON THE PROGRAM (3/3) NEGATIVE COMMENTS SURVEY OF 46 FUNDED PROJECTS

Weaknesses of this program	Number of occurencies (out of 64)	% (out of 46)
Insufficient financial means to cover a project	23	51%
Too short duration of the projects	21	46%
Difficult to continue the collaboration	10	22%
Lack of transparency in the selection process	4	9%
Administrative heaviness of the missions management	1	2%
Financial means insufficient for the expenditure of mobility (transport)	0	0%
Financial means insufficient for the expenditure of mobility (per diem)	0	0%
Too short duration of mobilities	0	0%
Too low number of mobilities	0	0%
Insufficient communication on the evaluation's results	0	0%
Heaviness of the process of applications	0	0%
Other	5	11%
Total number of occurencies	64	



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".



France-Stanford program initiates 74% of new collaborations Good percentage of young PIs in the selected projects (50%) Correct implication of "young researchers" (Masters, PhDs, Postdoctorates) in the projects (76%) Average scientific production better than the mean (1,30 vs 0,90) Good percentage of continuation of the cooperation (80%)



Beware of the decrease in the number of applications Low implication of PhDs in the projects (52% vs general mean : 67%) Insufficient implication of young researchers in the mobilities (26% vs 34% general mean for outgoing mobilities and 35% vs 46% general mean for incoming mobilities) 38% of the funded projects producing no co-publications (data from the survey) Capacity of involving new partners during continuation of the cooperation (only 30% of the projects)



PRELIMINARY RECOMMENDATIONS FOR FRENCH PIS

RECOMMENDATIONS

- Find means to increase the number of applications
- Increase the participation of PhD students in the projects
- Foster the participation of young researchers to the mobilities



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

CONTACTS

robert.gardette@recherche.gouv.fr nadine.van-der-tol@recherche.gouv.fr christophe.delacourt@recherche.gouv.fr

Thank you for your attention

