

FRANCE – CROATIA

**Scientific impact of the program COGITO
(2005-2019)**

MESRI-DAEI / MEAE

2021

<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 Croatian laboratories, by promoting new scientific collaborations and integrating in the projects young researchers and PhD students.

Total budget (France + Croatia) : around 50 000 € / year

>> French budget : around 25 000/30 000 € / year

>> Croatian budget : similar to the french budget

Average budget per project (France + Croatia) : around 2 000/2 500 € / year

Number of new funded projects per year : around 13

From 2005 to 2018 :

297 applications submitted

107 projects funded

DATA SOURCES

Campus France (2005-2019)

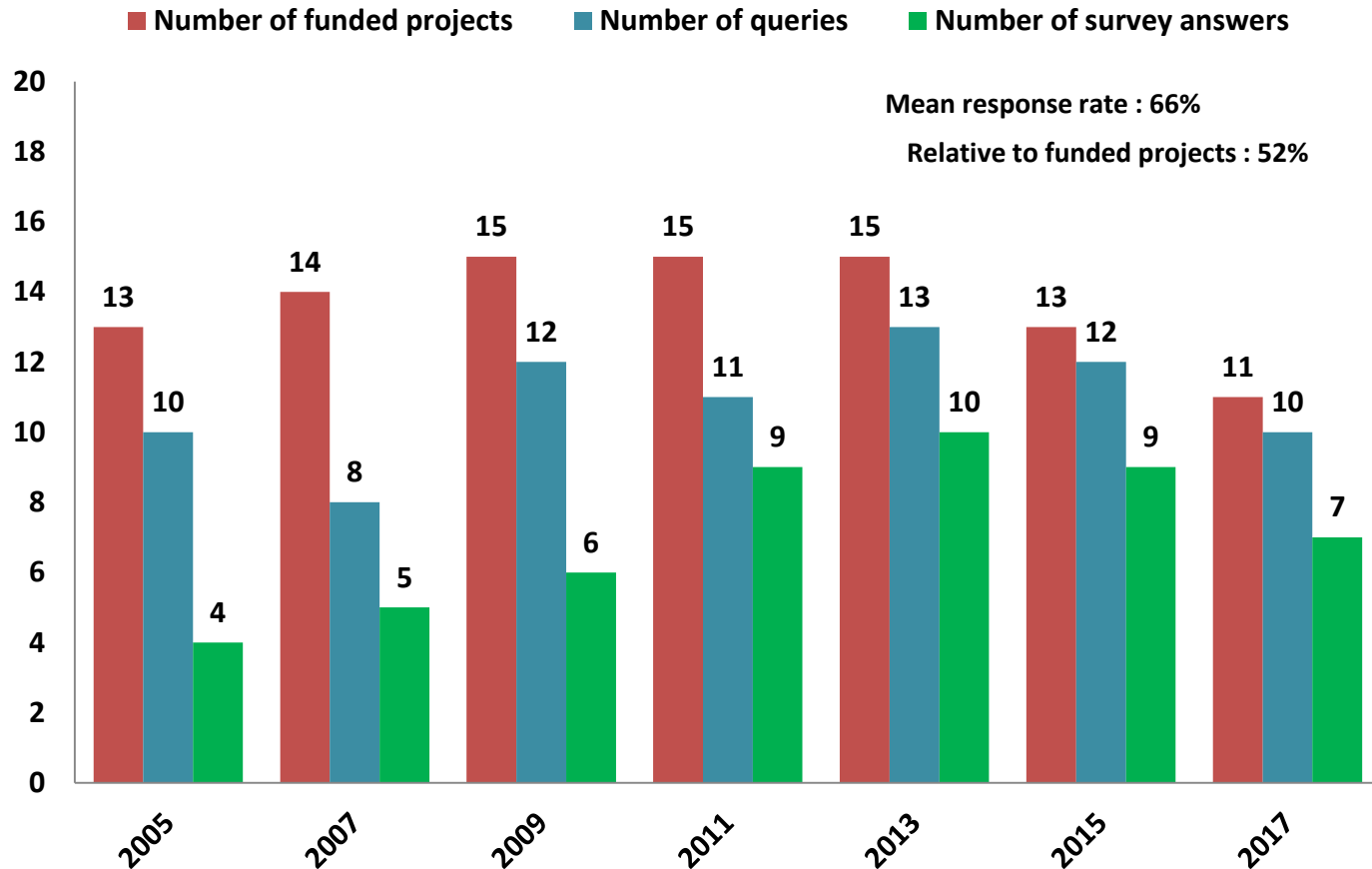
- Information about the PHC Cogito applications
- List of mobilities (from France to Croatia and from Croatia to France)

Survey (2005-2017)

- Target : French Principal Investigators of selected projects between 2005 and 2018
- Survey duration : 7 weeks between November and December 2020
- **66%** response ratio (50 respondents for 76 queries)

ANSWERS TO THE SURVEY

Average response rate to the survey : **66 % (50 answers)**



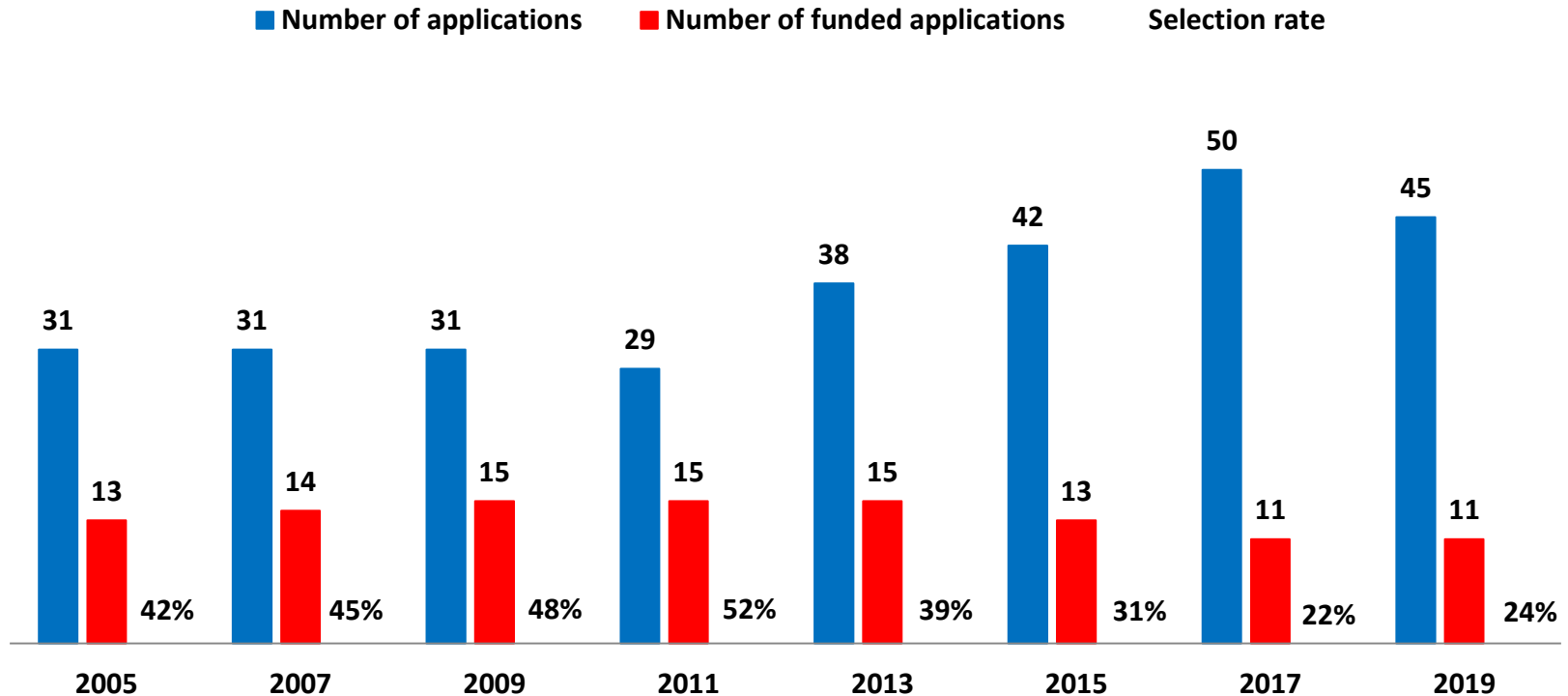
96 funded projects between 2006 and 2017, 76 valid email addresses

2005-2019

Key Points

NUMBER OF APPLICATIONS AND SELECTION RATE

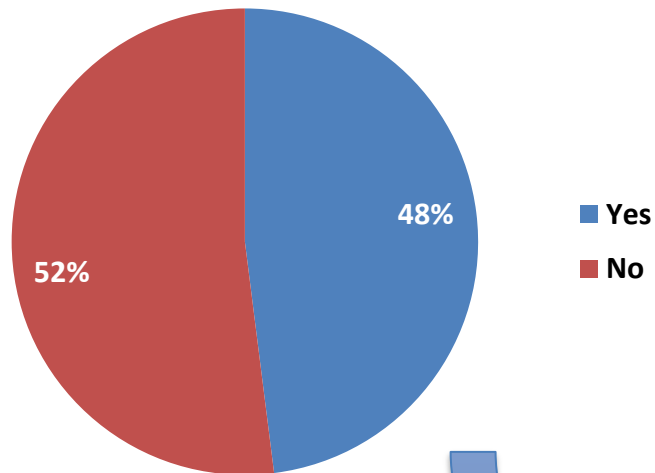
Average selection rate from 2005-2019: **36%**



Increase in the number of applications since 2011

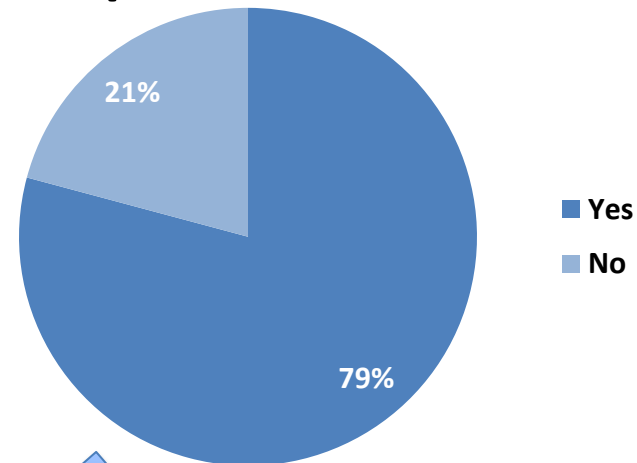
BEFORE THE COGITO PROJECT (1/2)

Did you already cooperate with Croatia in the past ?



Data from 50 responses

If yes, was it with the same partner?



Data from 24 responses

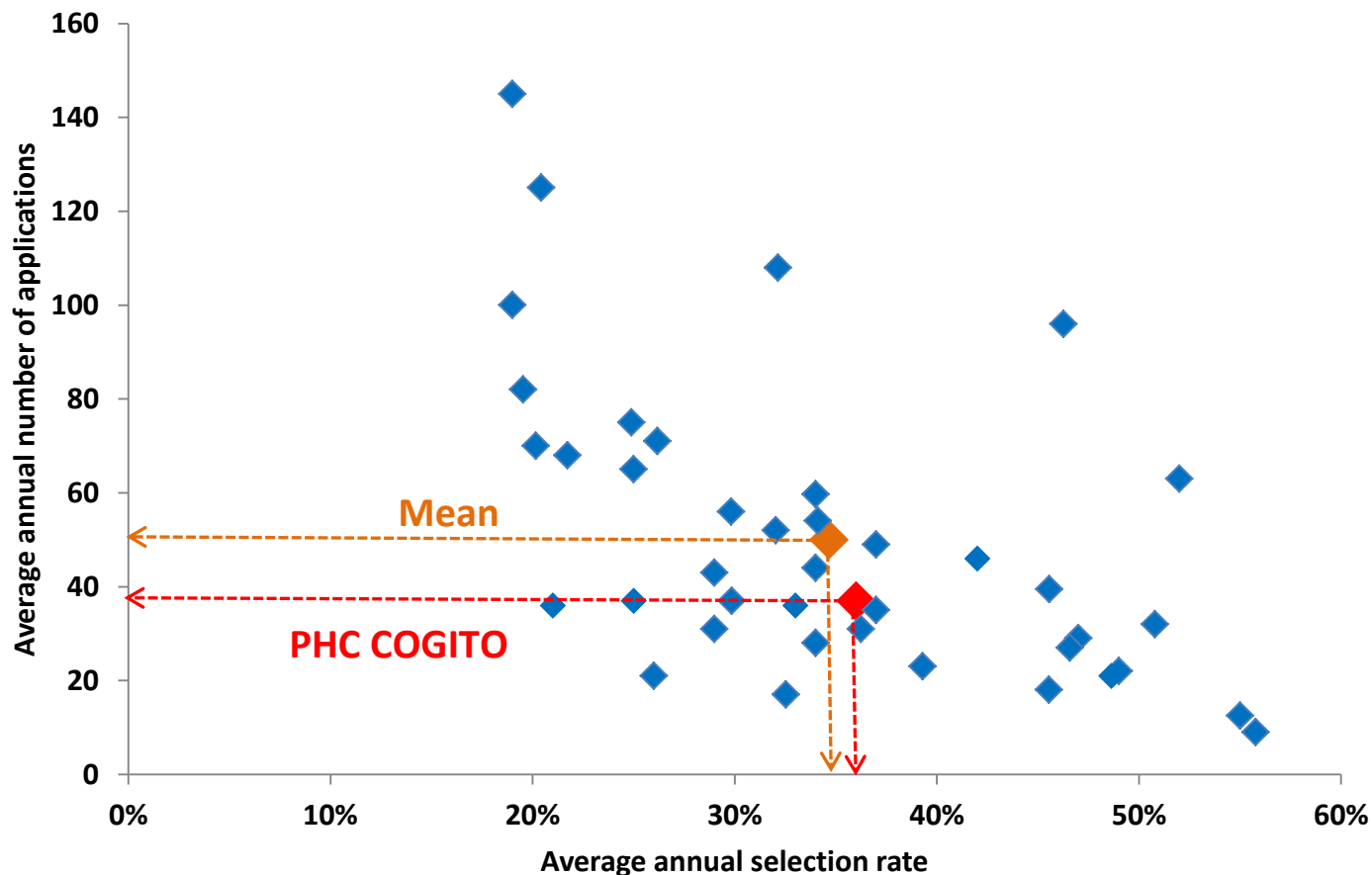
BEFORE THE COGITO PROJECT (2/2)

With which scientific collaboration program ?	
PHC COGITO	73%
Cofunding with croatian institutions	14%
French Government Grants	9%
ANR (French National Agency)	5%
Other	45%

Plus 32 previous cooperations based on other exchanges (co-publication, meetings, joint PhD...)

Data from 32 responses

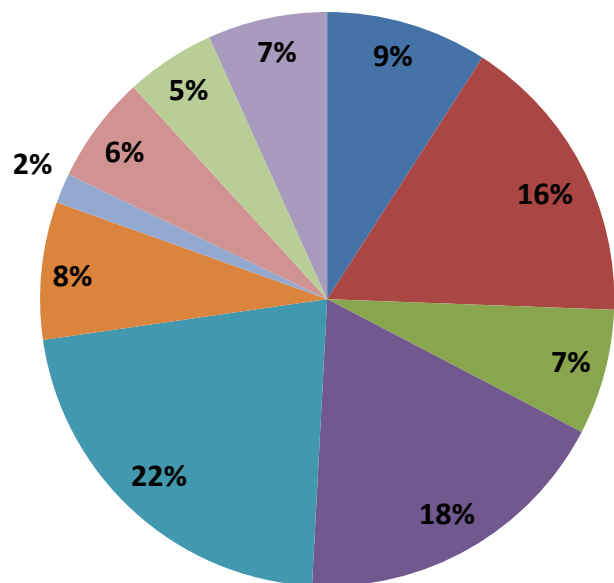
NUMBER OF APPLICATIONS VS SELECTION RATE (COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)



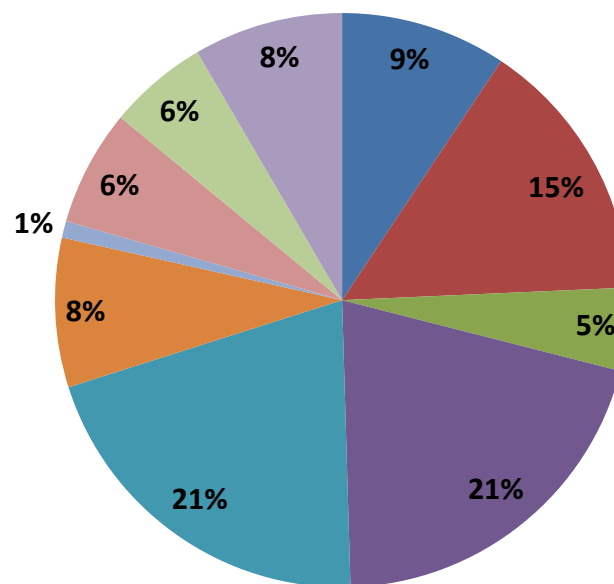
Average selection rate for 2005-2019 : 36% vs 35% mean
Average annual number of applications 2005-2019 : 37 vs 50 mean

SCIENTIFIC DOMAINS OF PROJECTS 2005-2019

Number of applications : 297



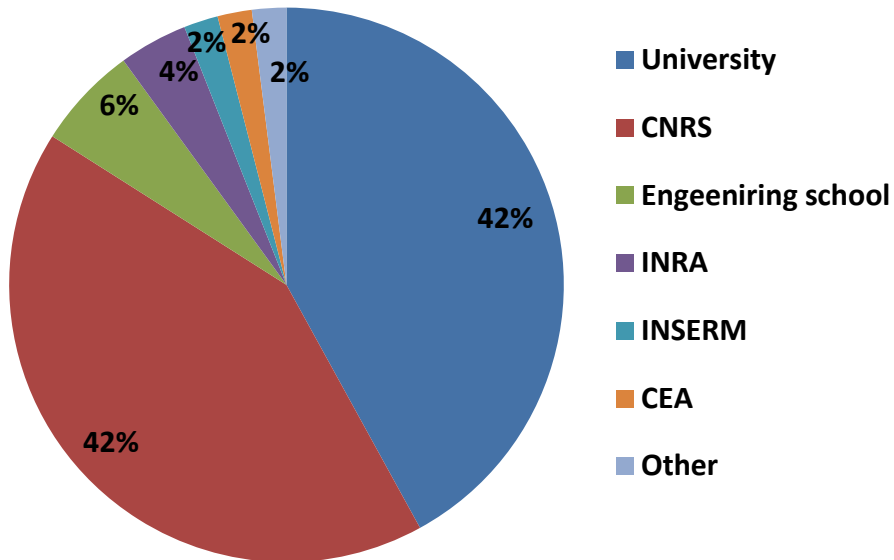
Number of funded projects : 107



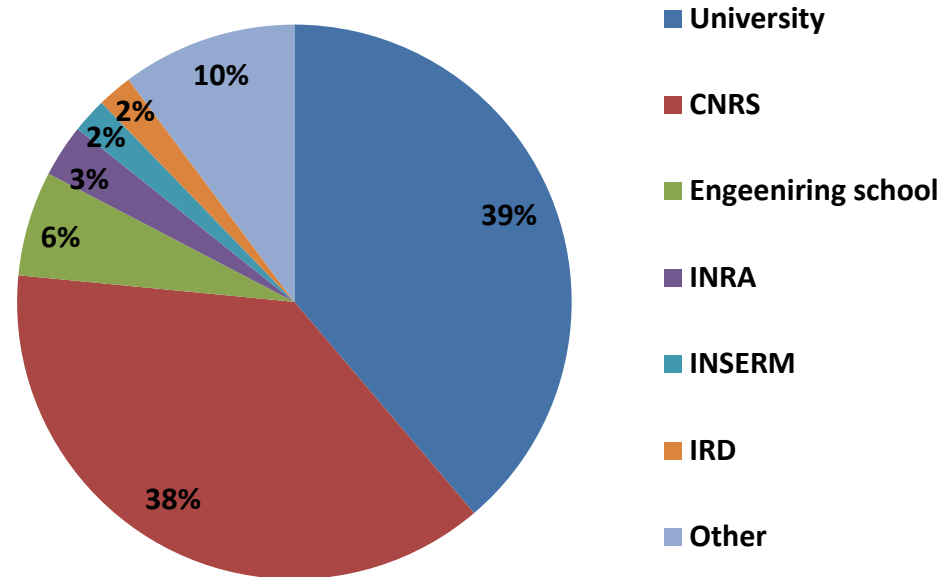
- | | |
|--------------------------------|------------------------|
| ■ Mathematics | ■ Physics |
| ■ Marine/Earth/Planet Sciences | ■ Chemistry |
| ■ Biology and Health | ■ Humanities |
| ■ Social Sciences | ■ Engineering Sciences |
| ■ Information Technology | ■ Agronomy/Ecology |

FRENCH PARTICIPATING INSTITUTIONS 2005-2017

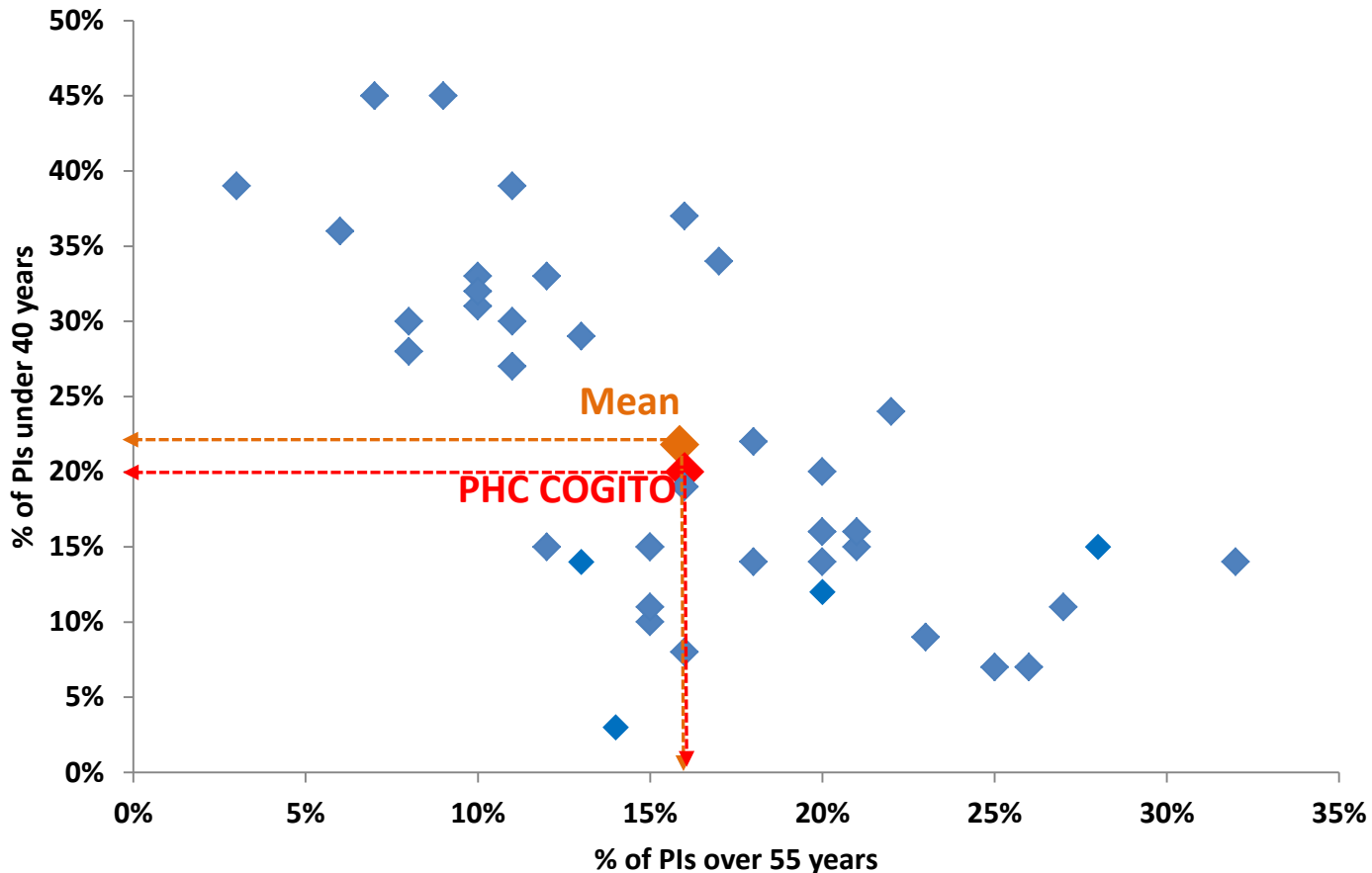
PI's employers



Laboratories authorities



AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)



PIs under 40 years : 20% vs 22% mean

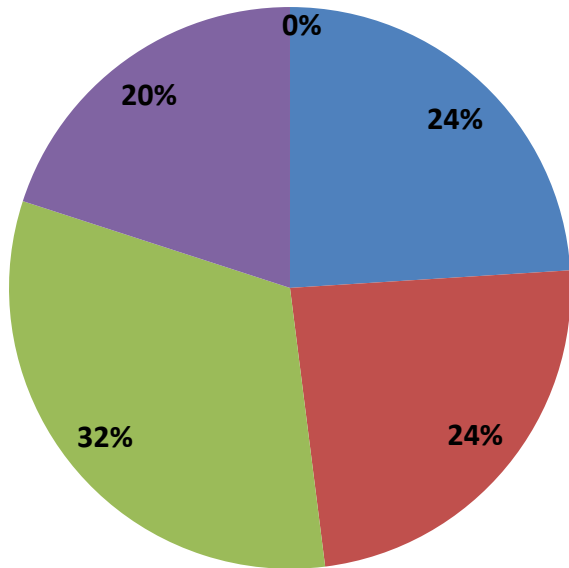
PIs over 55 years : 16% vs 16% mean

64% of the PIs are between 40 and 55 years

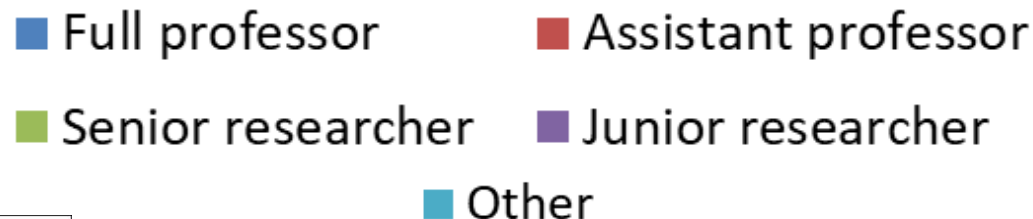
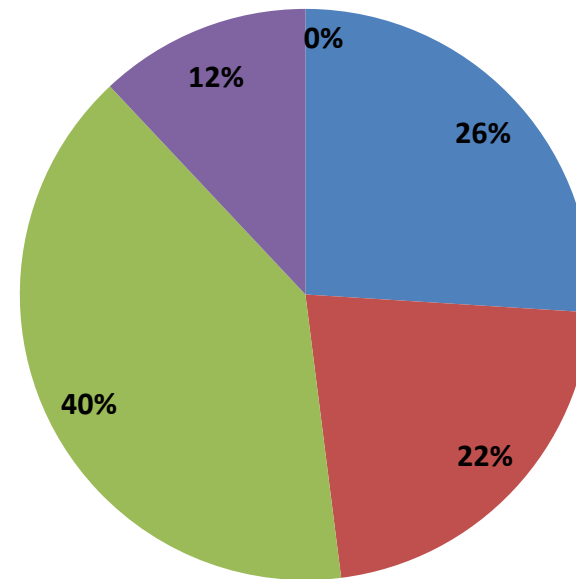
Data from 50 responses

FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

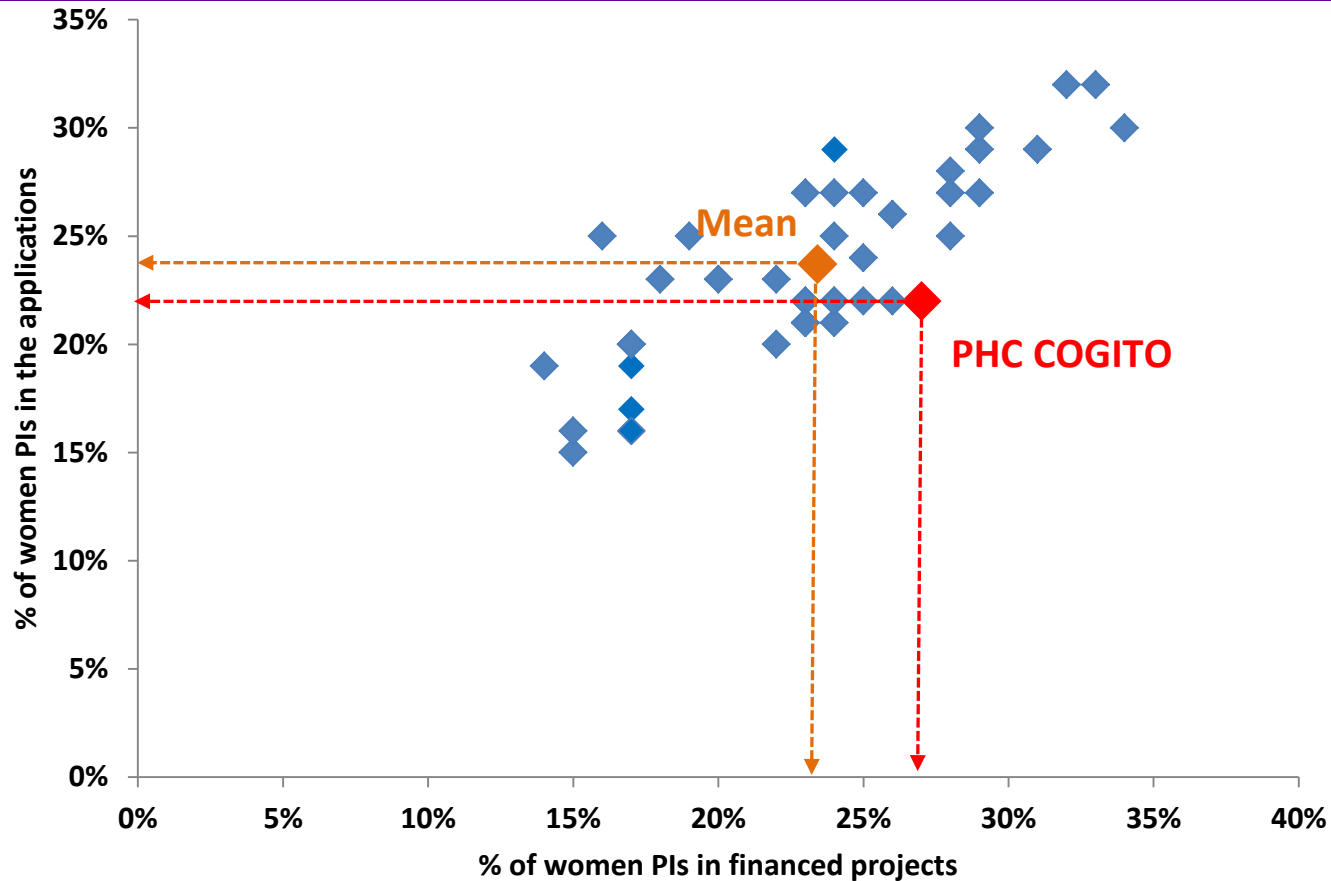
Previous professional status (at the beginning of the project)



Current professional status



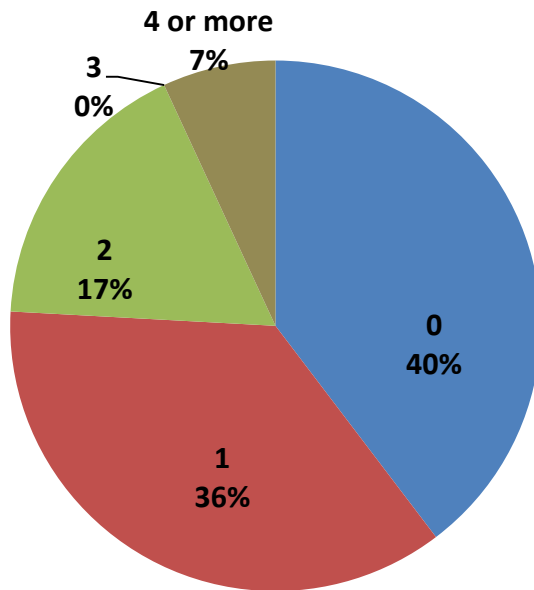
IMPLICATION OF WOMEN (FRANCE) (COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)



% of women PIs in the applications : 22% vs 24% mean
% of women PIs in the selected projects : 27% vs 23% mean

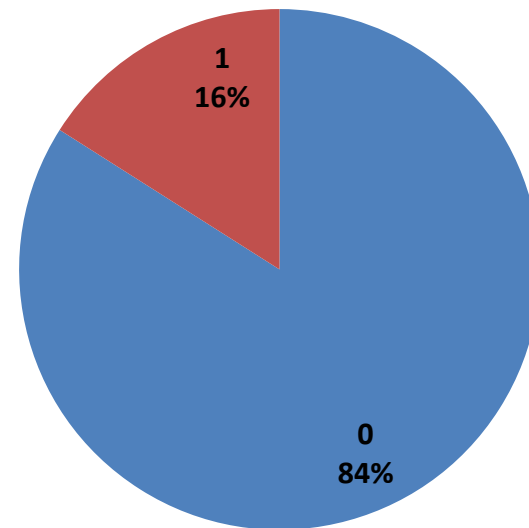
PARTICIPATION OF FRENCH YOUNG RESEARCHERS

Number of French PhD students



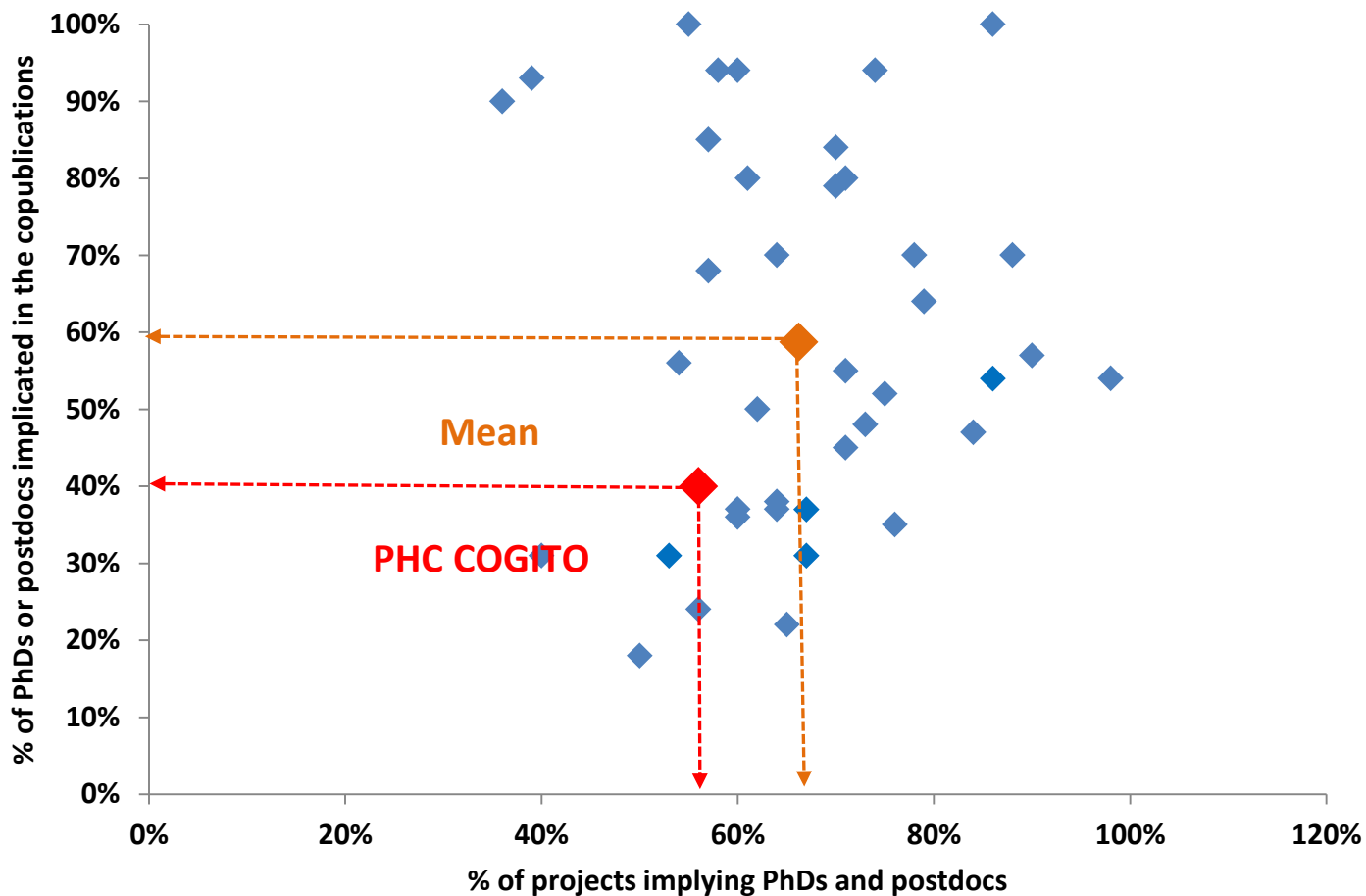
54% of projects involve at least one French PhD student

Number of French post-doctoral researchers



16% of projects involve at least one French post-doctoral researcher

IMPLICATION OF YOUNG RESEARCHERS (COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)



% of projects implying young researchers : 56% vs 66% mean

% of PhD or postdoc implicated in the copublications : 40% vs 59% mean



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

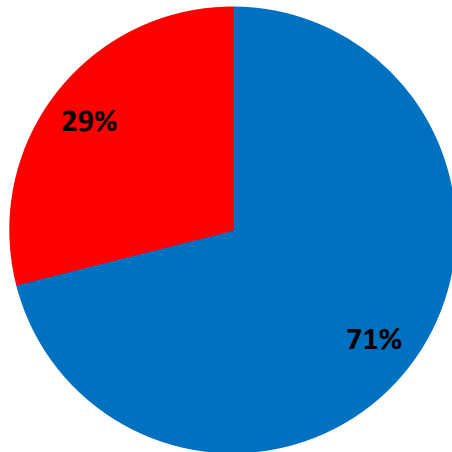
Data from 49 responses



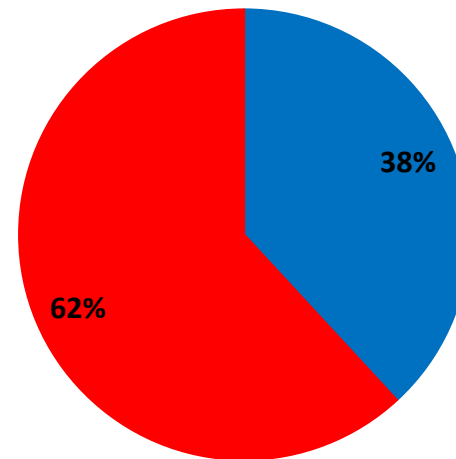
MOBILITY 2005-2019

MOBILITY : GENDER DISTRIBUTION

France → Croatia



Croatia → France

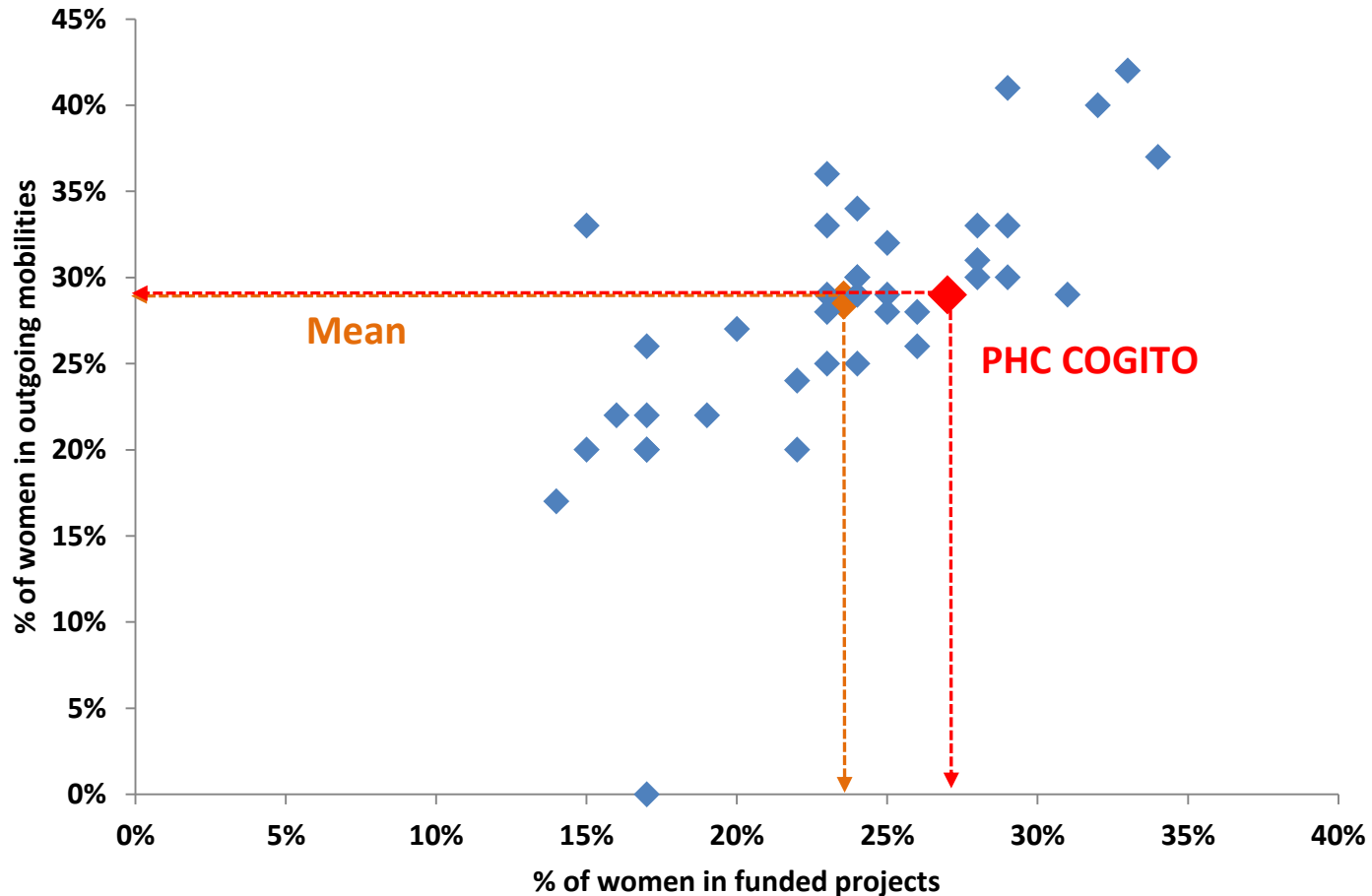


■ Men ■ Women

Data from 107 funded projects

WOMEN MOBILITY FRANCE – CROATIA

(COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)



% of women researchers in the selected projects : 27% vs 24% mean

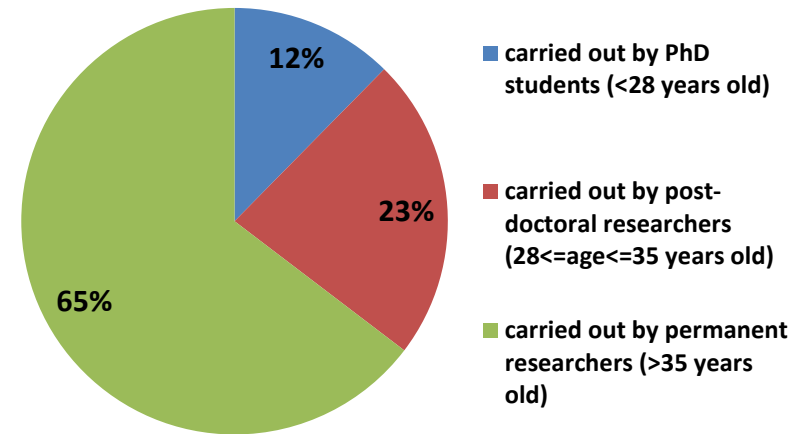
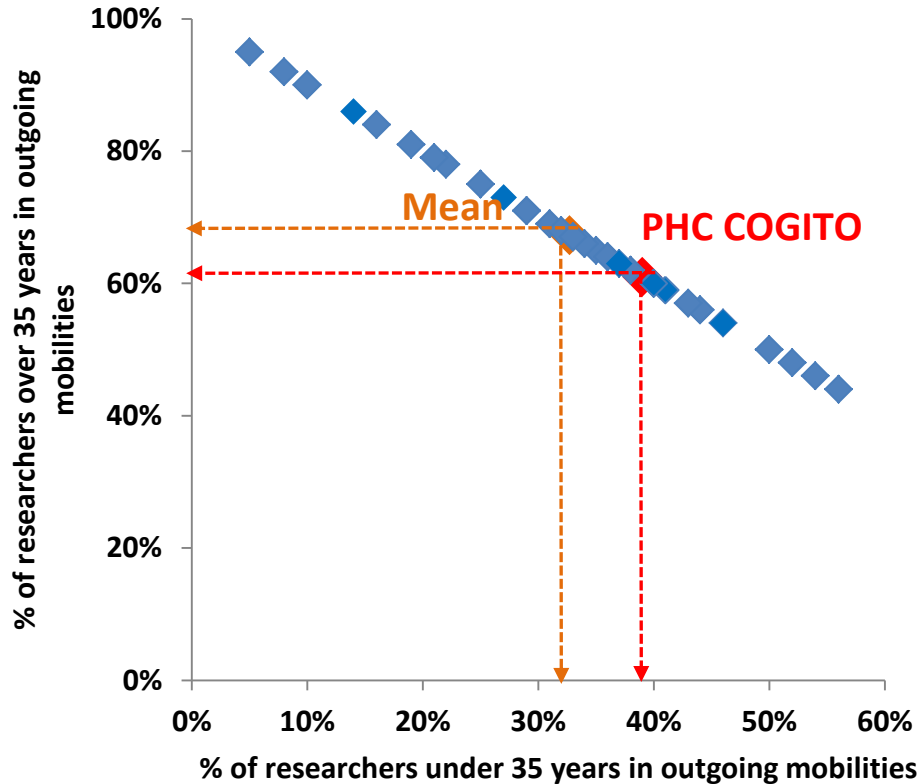
% of women researchers in outgoing mobilities : 29% vs 29% mean

YOUNG RESEARCHERS' MOBILITY

(COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)

France → Croatia

Croatia → France



% of French young researchers in outgoing mobilities : **39% vs 33% mean**

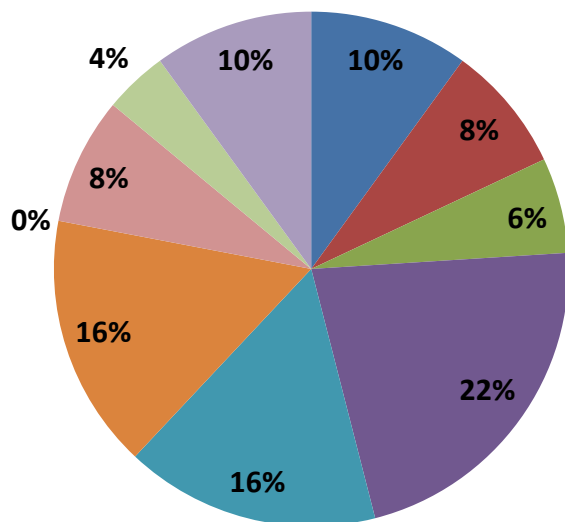
% of croatian young researchers in incoming mobilities : **35% vs 45% mean (16 programs)**



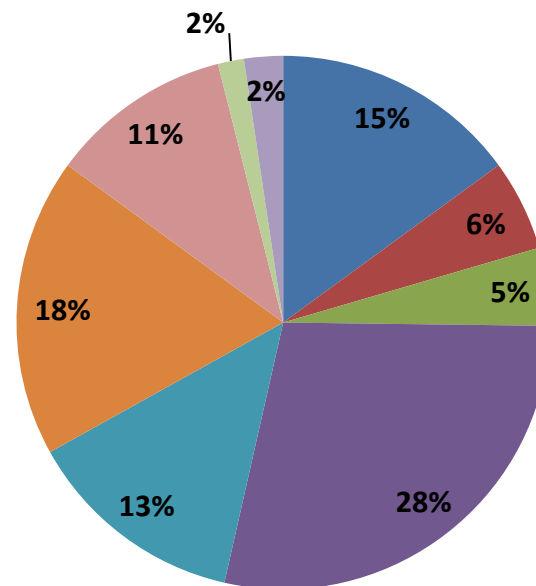
SCIENTIFIC PRODUCTION 2005-2017

SCIENTIFIC OUTPUT (1/2)

Funded projects with responses to the survey (43)



Percentage of copublications



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

No responses for Social Sciences

SCIENTIFIC OUTPUT (2/2)

Data from 50 funded projects

	Number of financed projects in the survey	Average number of co-publications per project
Mathematics	5	3,80
Physics	4	1,75
Marine/Earth/Planet Sciences	3	2,00
Chemistry	11	3,27
Biology and Health	8	2,13
Humanities	8	2,88
Social Sciences	0	-
Engineering Sciences	4	3,50
Information Technology	2	1,00
Agronomy / Ecology	5	0,60
TOTAL	50	2,54

Overall average **annual** number of copublications per project : **1,27 vs 0,91 mean**

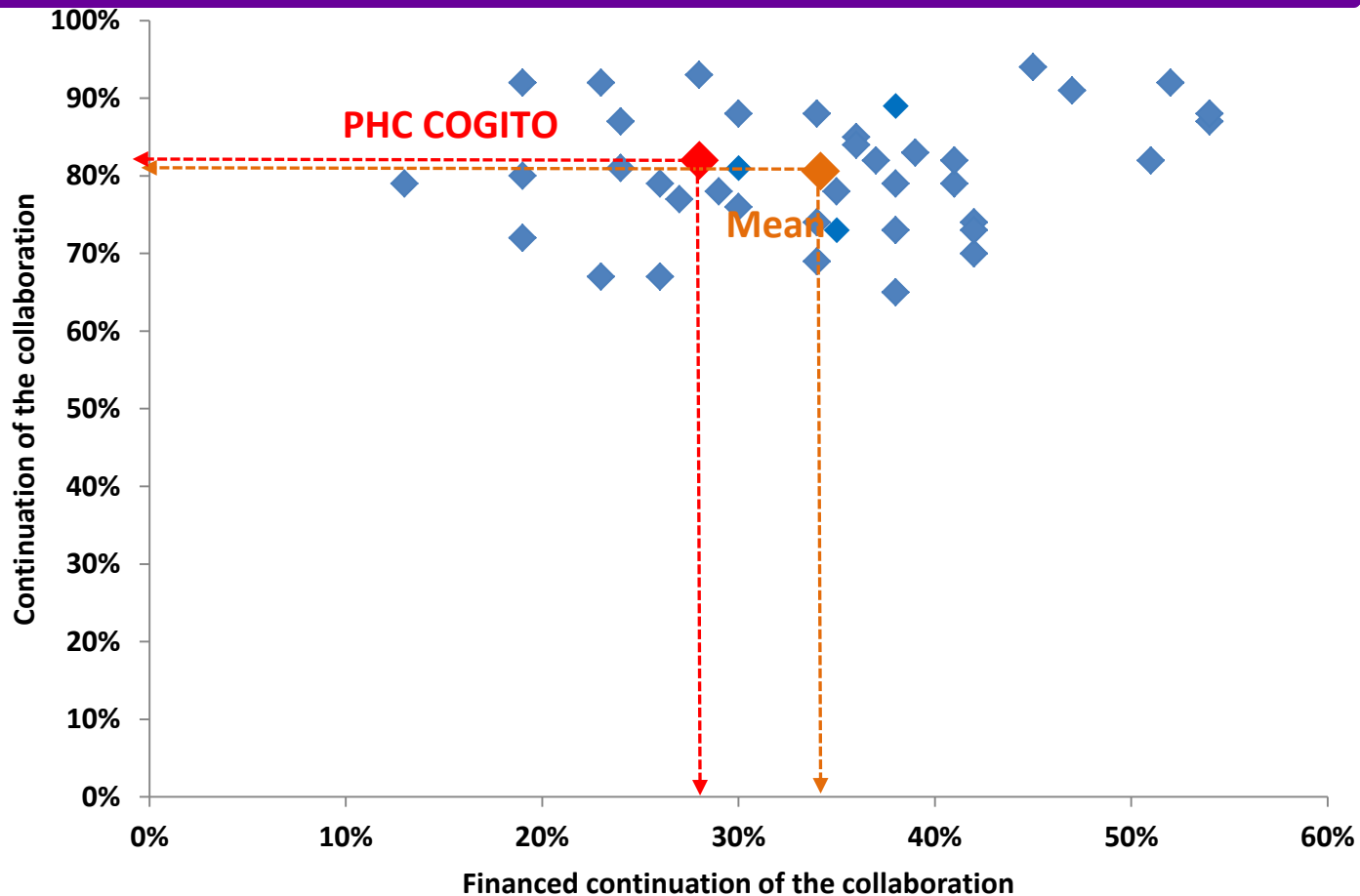
72% of funded projects led to one co-publication at least

31% of copublications include at least 1 PhD or PostDoc

The average annual rate of publication for young researchers involved in the projects is **0,47**

WHAT HAPPENS AFTER A COGITO PROJECT ?

CONTINUATION OF THE COLLABORATION (1/5) (COMPARISON BETWEEN 41 DIFFERENT BILATERAL PROGRAMS)



Continuation of the collaboration : 82% vs 81% mean

Continuation of the collaboration with other sources of subvention : 28% vs 34% mean

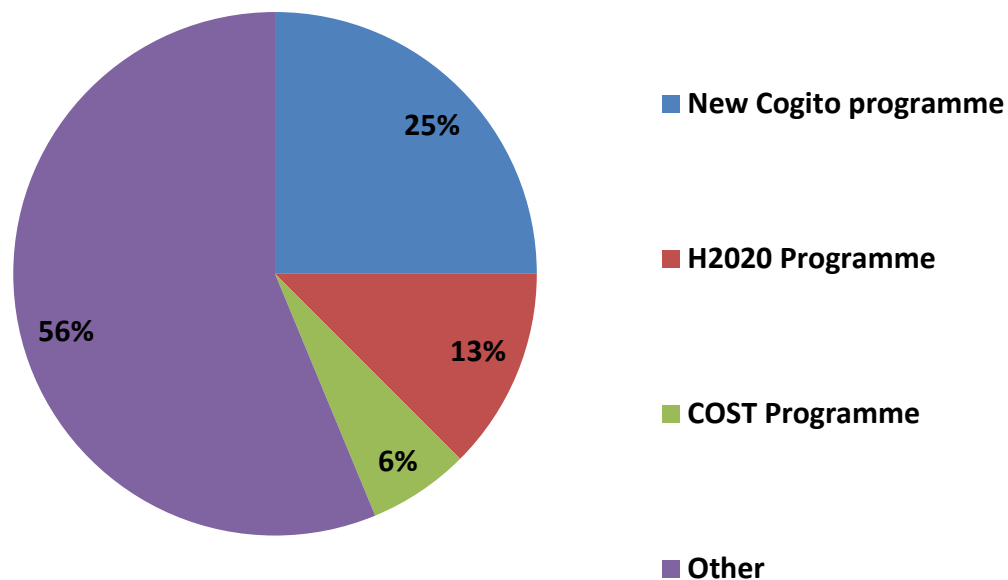
CONTINUATION OF THE COLLABORATION (2/5)

82% of the collaborations continued after the Cogito project

Which activities?	
Collaborative research	75%
Co-publications	50%
Researchers' mobility	48%
Joint participation to conferences	45%
PhD mobility	23%
Co-organisation of scientific events	23%
Joint participation to PhD thesis	13%
Other	18%

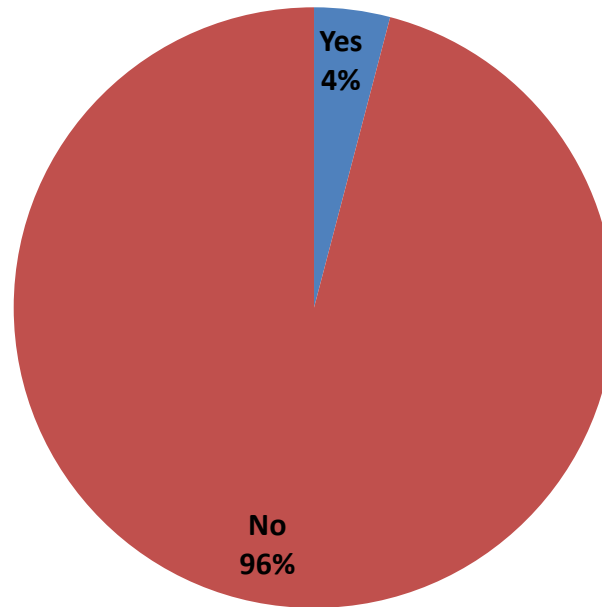
CONTINUATION OF THE COLLABORATION (3/5)

What kind of funded collaborations after the Cogito project ?



CONTINUATION OF THE COLLABORATION (4/5)

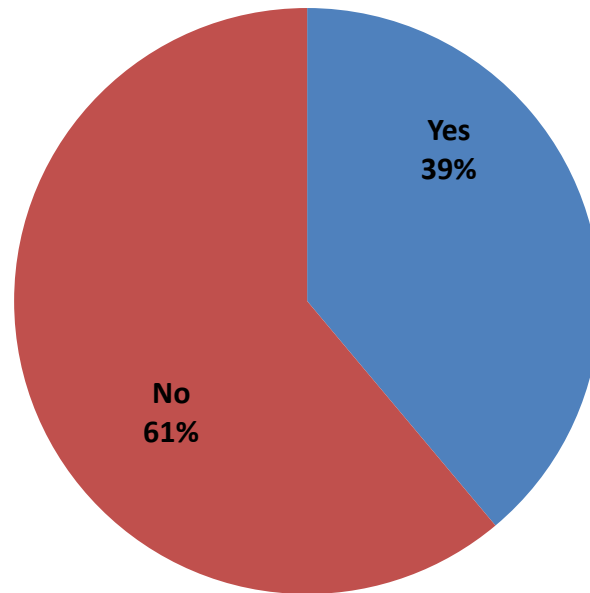
Has the Cogito project led to the set-up of joint structures?



1 CNRS International Associated Laboratory (LIA)

CONTINUATION OF THE COLLABORATION (5/5)

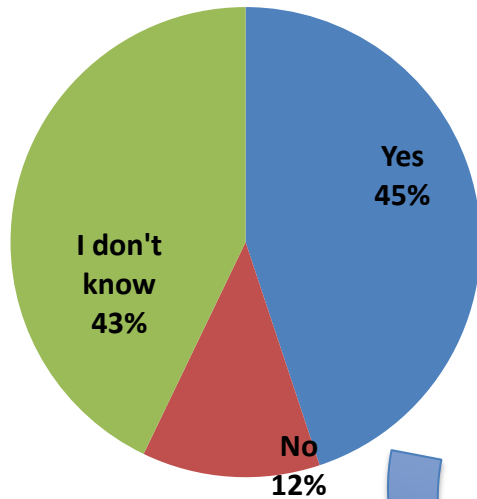
Has the France-Croatia collaboration involved new partners?



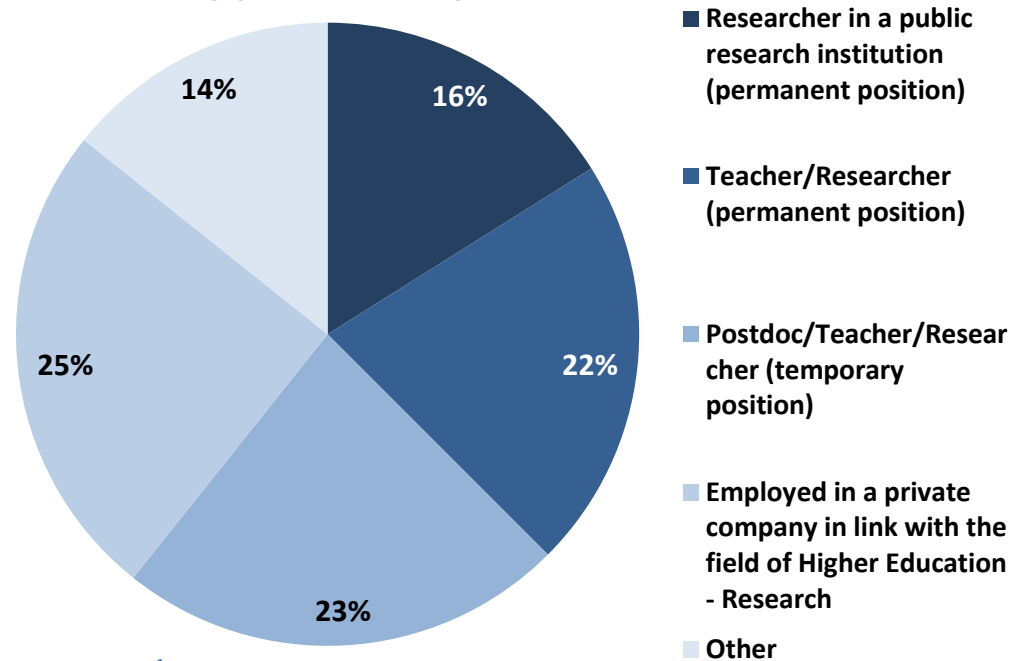
For a total of 26 new partners from 20 different countries

IMPACT ON FRENCH YOUNG RESEARCHERS' CAREER (1/2)

Was french young researchers' career impacted by the Cogito program ?



Type of impacts

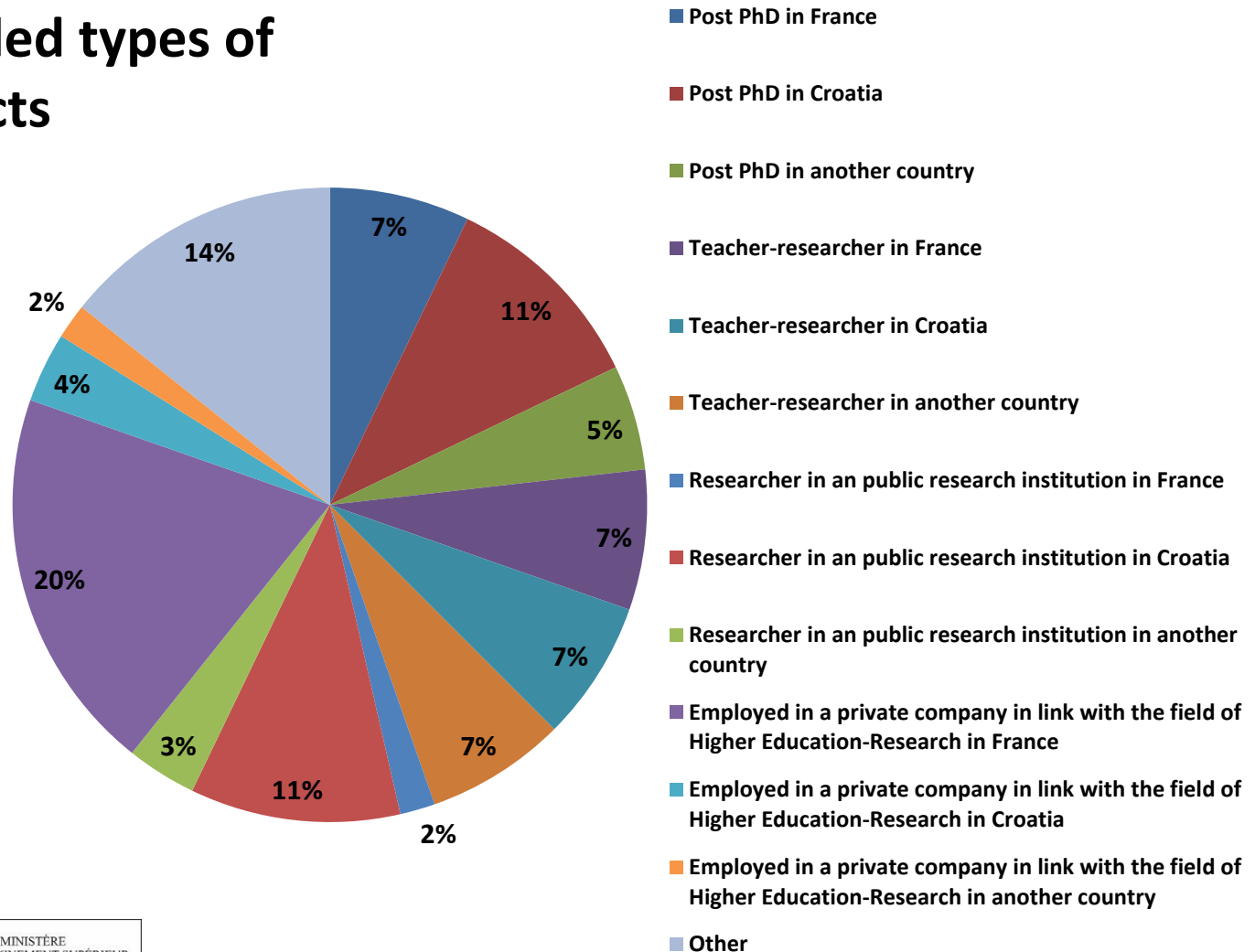


Data from 49 responses

Data from 22 positive responses for a total of 56 french young researchers

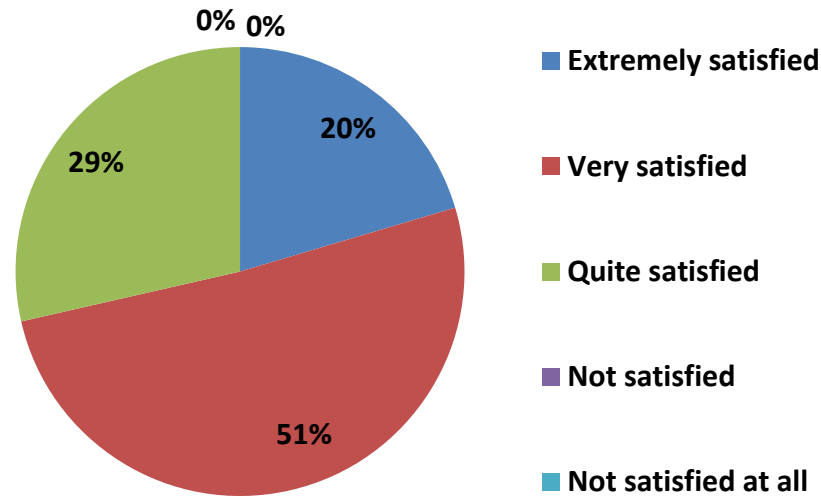
IMPACT ON FRENCH YOUNG RESEARCHERS' CAREER (2/2)

Detailed types of impacts



GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

100% of French principal investigators are satisfied



Data from 49 responses

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM (2/3) POSITIVE COMMENTS

SURVEY OF 49 FUNDED PROJECTS



Strengths of this program	Number of occurrences (out of 272)	% (out of 49)
Fostering an international research collaboration	40	80%
Fostering researchers' mobility	39	78%
Fostering exchanges enabling scientific production	34	68%
Simplicity of the project application process	29	58%
Fostering the training of young researchers	28	56%
Helping to know the partner country	20	4%
Easy implementation (administrative flexibility)	17	34%
Sufficient financial means for the mobility costs	15	30%
Good scientific-added value on financial investment	11	22%
Helpful to initiate other fundraising	10	20%
Financial autonomy towards your institution	10	20%
Sufficient amount of mobility time given to collaborate	8	16%
Sufficiently long duration of the projects	5	10%
Transparency of the selection process	3	6%
Timetable for implementation	2	4%
No strenght point	0	0%
Other	1	2%
<i>Total number of occurrences</i>	<i>272</i>	

GENERAL OPINION OF FRENCH PIS ON THE PROGRAM (3/3) NEGATIVE COMMENTS

SURVEY OF 49 FUNDED PROJECTS



Weaknesses of this program	Number of occurrences (out of 134)	% (out of 49)
Insufficient financial means to cover a project	24	48%
Length of support too short	18	36%
Difficult to continue the collaboration	15	30%
Too short duration of mobilities	13	26%
Lack of transparency in the selection process	10	20%
Financial means insufficient for the expenditure of mobility (per diem)	10	20%
Financial means insufficient for the expenditure of mobility (transport)	10	20%
Too low number of mobilities	9	18%
Insufficient communication on the evaluation's results	6	12%
Administrative heaviness of the missions management	4	8%
No weakness	3	6%
Heaviness of the process of applications	3	6%
Financial autonomy towards your institution	3	6%
Timetable for implementation	2	4%
Flexibility of the program for actions co-financed with the partner	1	2%
Too long duration of mobilities	0	0%
Other	3	6%
Number of occurrences	134	

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”.

Regular increase in the number of applications since 2011

Cogito program initiates 52% of new collaborations

French young researchers' mobility better than the general mean

Scientific coproduction better than the general mean

13% of sustained funded collaborations through H2020 programs

48% of the PIs have already collaborated with Croatia and 73% of them have already benefited from a Cogito program

Only 20% of the applicants are under 40 years

Too weak implication of women PIs in the applications

44% of the funded projects do not imply any young researcher

28% of funded projects with no eligible co-publications

Only 31% of co-publications involve a french young researcher

Only 28% of sustained funded collaborations after the project

PRELIMINARY RECOMMENDATIONS

- **Promote newer cooperations between France and Croatia**
- **Encourage French women researchers to apply**
- **Encourage French young researchers to apply**
- **Encourage French PIs to increase the implication of young researchers in the projects**
- **Encourage French PIs to increase the implication of young researchers in the co-publications**
- **Increase the number of co-publications**
- **Consider a “COGITO +” program to help PIs at the end of their financing to apply to international programs ?**

French national ministries (MESRI / 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

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Thank you for your attention