FRANCE – AUSTRIA PHC AMADEUS 50th ANNIVERSARY OF THE PHC AMADEUS CREATION AGREEMENT

Scientific impact of the program (2005-2017)

MESRI-DAEI / MEAE

2019

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



GENERAL PRESENTATION OF THE PROGRAMME

Creation: intergovernmental agreement of September 6th, 1968 between France and Austria and PHC agreement in 1996

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

Total budget (France + Austria): around 110 600 € / year

>> including budget from the French part : 55 300 € / year *

>> including budget from Austrian part : same € / year

Number of new funded projects per year : around 16

From 2005-2016: 378 applications submitted, 192 projects funded



DATA SOURCES

Campus France

- Informations about the PHC Amadeus program applications
- List of mobilities (from France to Austria)

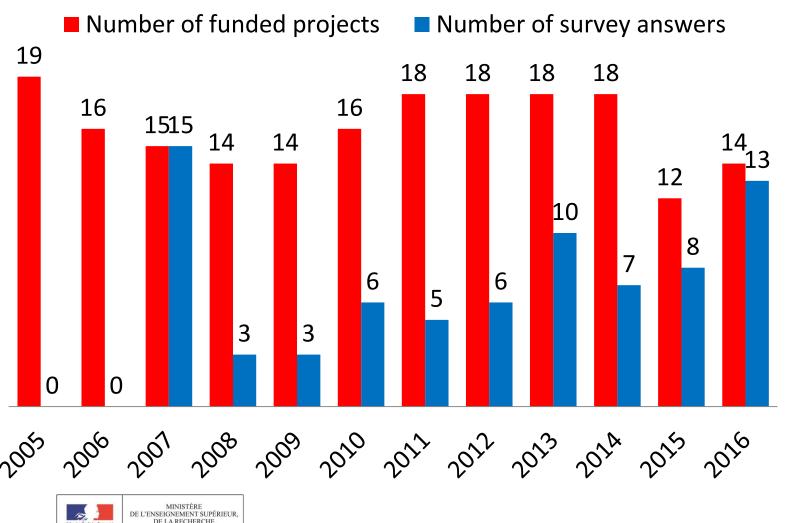
Survey (conducted by the French Ministry of Higher Education, Research and Innovation and Ministry for Europe and Foreign Affairs)

- Target: Principal Investigators of selected projects between 2005 and 2016
- Survey duration: 5 weeks between June and July 2018
- 40% response ratio (76 respondents for 192 funded projects)



ANSWERS TO THE SURVEY

Average response rate to the survey: 40 % (76 answers)

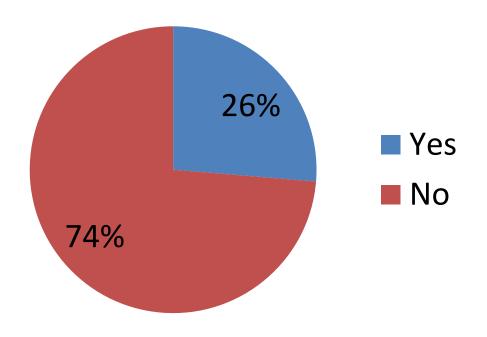


Campus France & Survey data

2005-2017 KEY POINTS

BEFORE PHC AMADEUS PROJECT

Have you ever worked with this Austrian partner?

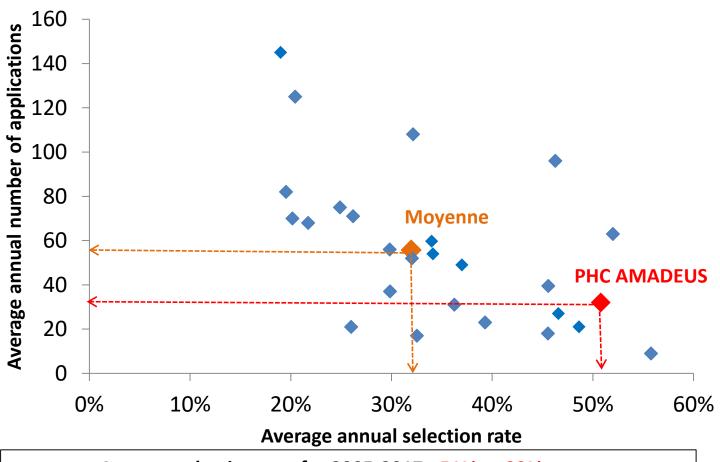


Survey data



NUMBER OF APPLICATIONS VS SELECTION RATE

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

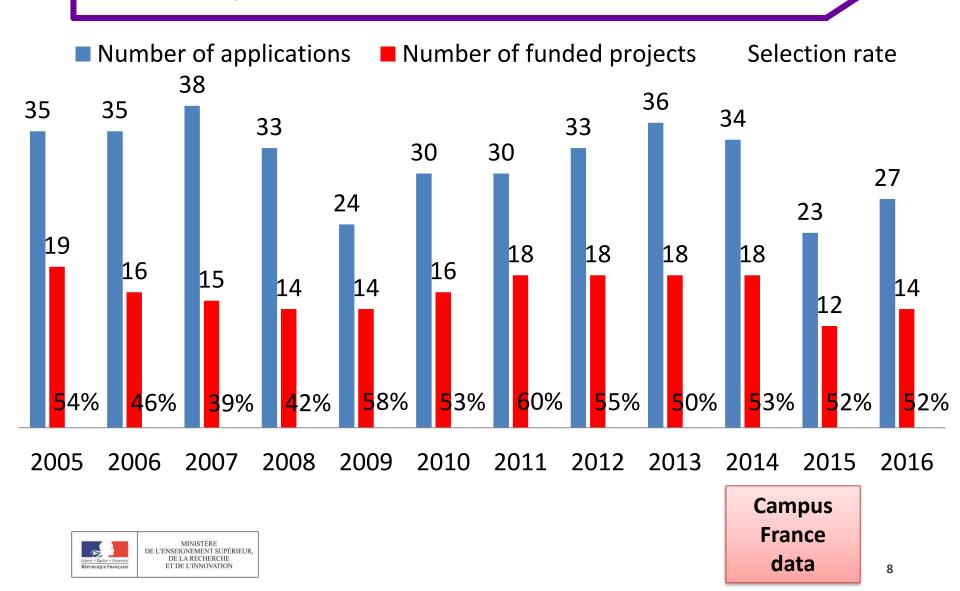


Average selection rate for 2005-2017 : 51% vs 32% mean Average number of applications 2005-2017 : 32 vs 56 mean

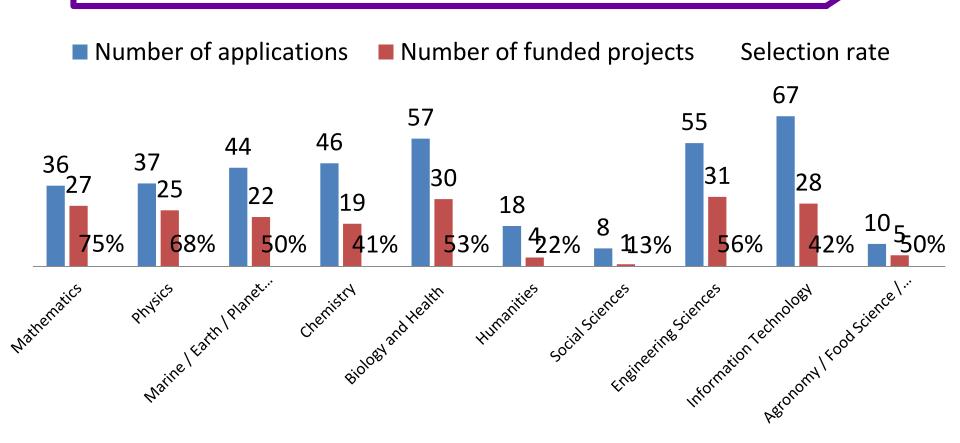


SUCCESS RATE

Average selection rate from 2005-2016: 51 %



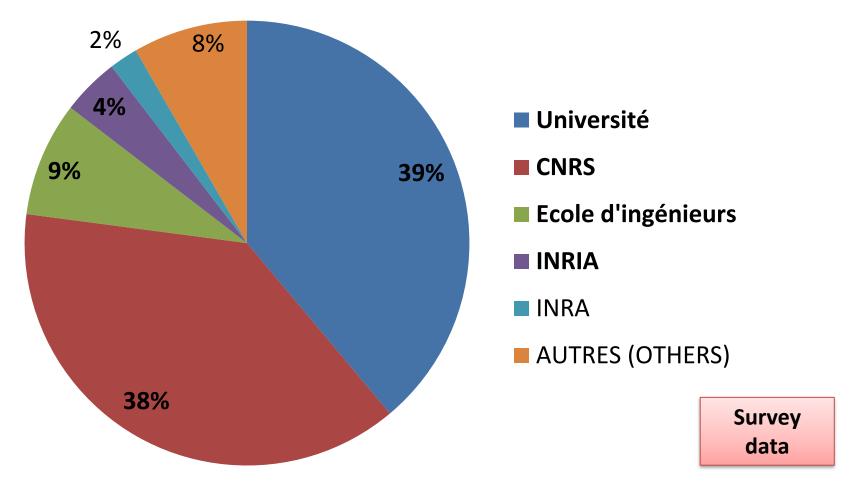
SCIENTIFIC DOMAINS





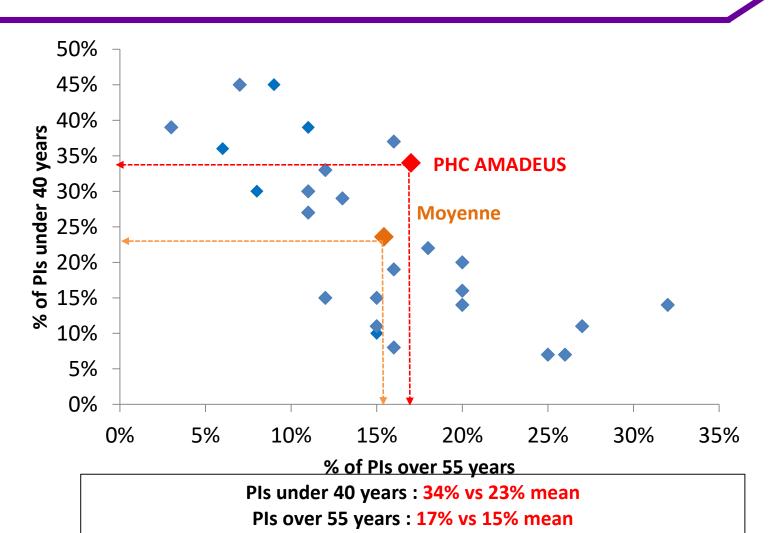
Campus France data

FRENCH PARTICIPATING INSTITUTIONS



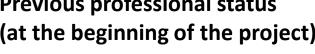
AGE OF PRINCIPAL INVESTIGATORS (PI)

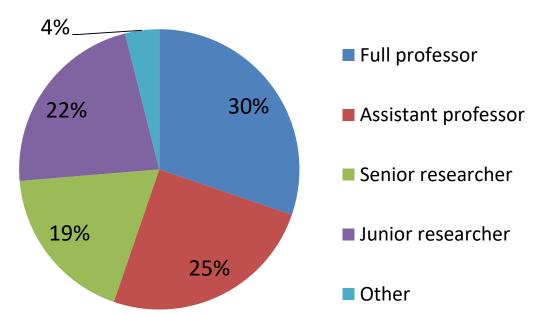
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



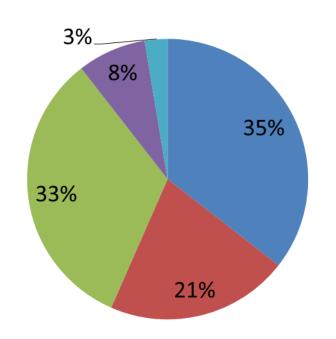
FRENCH PIS (PRINCIPAL **INVESTIGATORS): STATUS**

Previous professional status (at the beginning of the project)





Current professional status

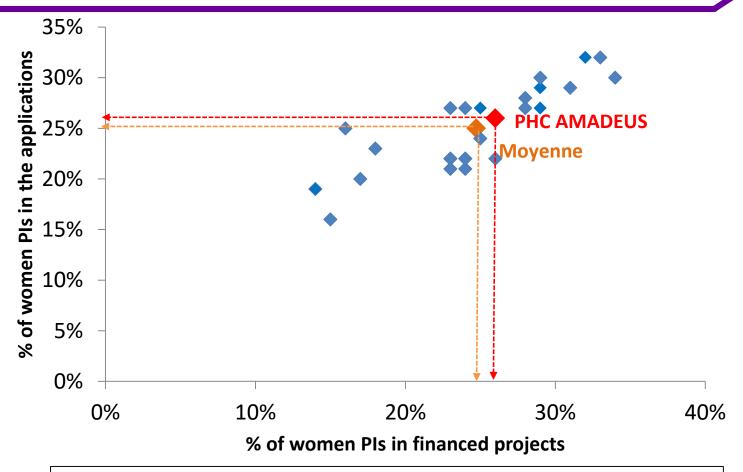


Survey data



IMPLICATION OF WOMEN (FRANCE)

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

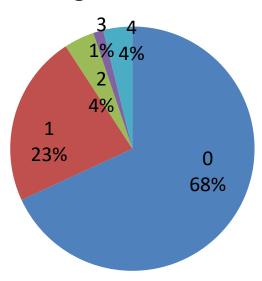


% of women PIs in the applications: 26% vs 25% mean % of women PIs in the selected projects: 26% vs 25% mean

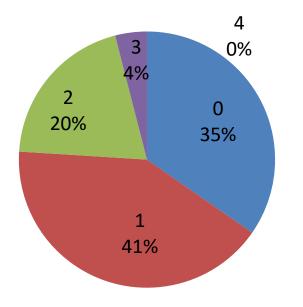


PARTICIPATION OF YOUNG RESEARCHERS

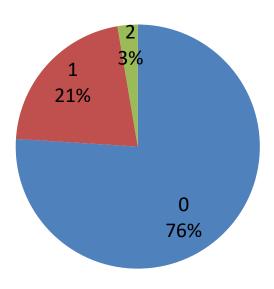
Number of Master degree students



Number of PhD students



Number of postdoctoral researchers



32 % of projects involve at least 1 Master degree student

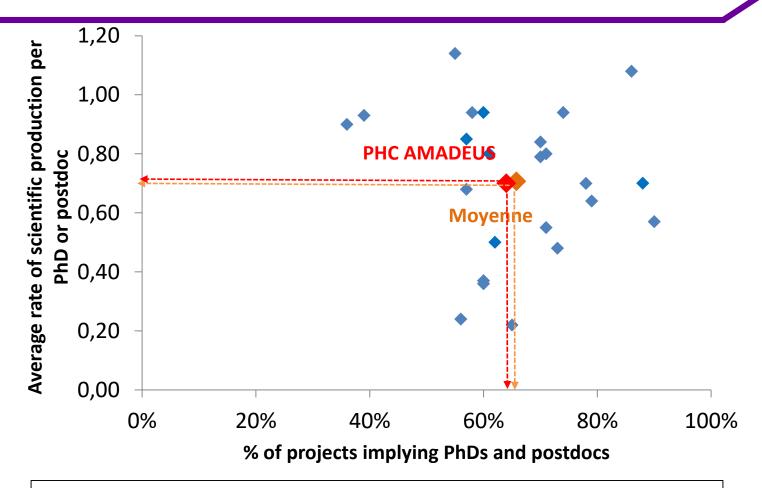


65 % of projects involve at least one PhD student

Survey data 24 % of projects involve at least 1 post-doctoral researcher

IMPLICATION OF PhDs

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



% of projects implying PhDs and Post-doc: 66% vs 65% mean Average rate of scientific production per PhD: 0,70 vs 0,70 mean

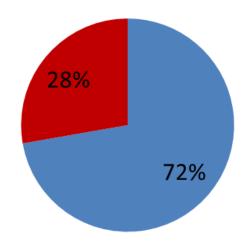


Mobility



MOBILITY: GENDER DISTRIBUTION

France → Austria



Austria → France

No data available

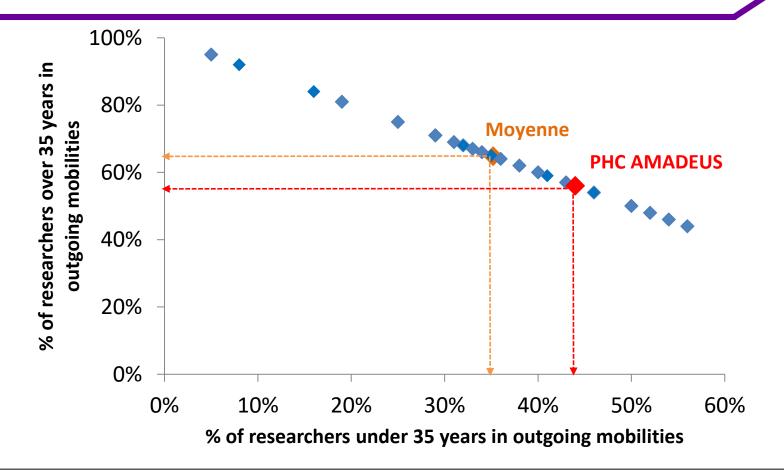
■ Men ■ Women

Campus France data



MOBILITY FRANCE – AUSTRIA

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

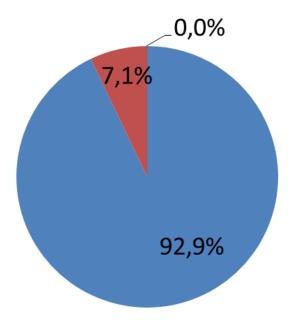


% of french young researchers in outgoing mobilities: 44% vs 35% mean



MOBILITY: DURATION

France → Austria



Austria → France

No data available

- < 15 days</p>
- between 15 days and 3 months
- > 3 months

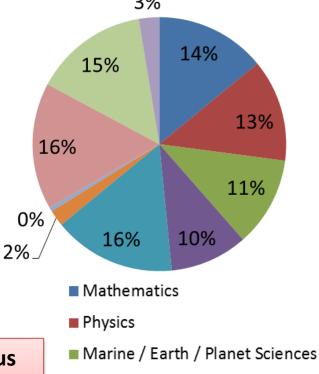
Campus France data



Scientific production

SCIENTIFIC OUTPUT (1/3)

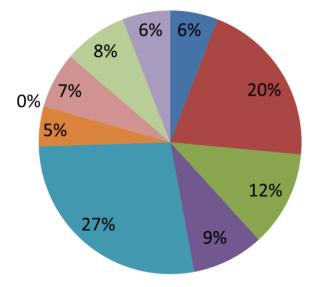
Number of funded projects: 192





- Chemistry
- Biology and Health

Percentages of co-publications



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



Survey

data

SCIENTIFIC OUTPUT (2/3)

63% of funded projects led to one co-publication at least

42% of copublications include at least 1 PHD or PostDoc

	Number of funded projects by thematic area	projects by	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	Mean number of co- publications per project
Mathematics	9	14%	6	6%	44%	0,7
Physics	9	14%	21	21%	89%	2,3
Marine / Earth / Planet Sciences	7	11%	12	12%	57%	1,7
Chemistry	3	5%	9	9%	67%	3,0
Biology and Health	12	19%	28	27%	75%	2,3
Humanities	3	5%	5	5%	100%	1,7
Social Sciences	0	0%	0	0%	0%	0,0
Engineering Sciences	9	14%	7	7%	33%	0,8
Information Technology	8	13%	8	8%	63%	1,0
Agronomy / Food Science / Environment / Biodiversity	3	5%	6	6%	67%	2,0
TOTAL	63	100%	102	100%	63%	1,6



SCIENTIFIC OUTPUT (3/3)

Success story

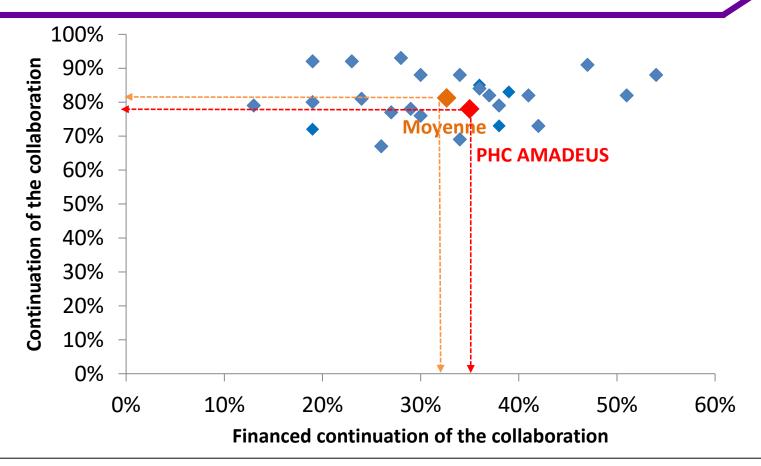
Publication prestigieuse dans Nature:

Hnri Godfrin (Directeur de recherche au CNRS : Institut Néel - UPR2940) - Intitulé du projet : ANR Internationale France-Autriche "HighQ-Fermions" ANR-2010-INTB-403-01 - DS : Physique - Référence de la publi : Proceedings of the 5th European Conference on Neutron Scattering Observation of a roton collective mode in a two-dimensional Fermi liquid Henri Godfrin, Matthias Meschke, Hans-Jochen Lauter, Ahmad Sultan, Helga M. Böhm, Eckhard Krotscheck and Martin Panholzer Nature 483, 576–579 (29 March 2012), doi:10.1038/nature10919 - Facteur d'impact : 38



What happens after a PHC Amadeus project?

CONTINUATION OF THE COLLABORATION (1/5) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



Continuation of the collaboration: 78% vs 81% mean

Continuation of the collaboration with other sources of subvention: 35% vs 33% mean

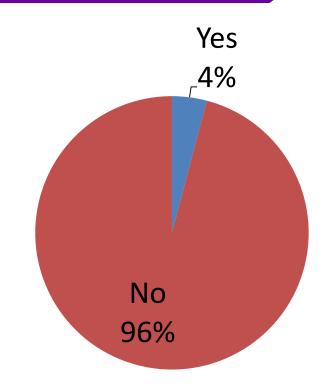


CONTINUATION OF THE COLLABORATION (3/4)

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

3 joint structures:

- Groupe de recherche clinique international sur la curiethérapie gynécologique: projet FMBRACE
- Consortium FRESCO de stratégie internationale sur l'écologie des foraminifères benthiques côtiers
- Conférence internationale Globe (cadre cluster des Dexa conferences) avec 5 Editions.

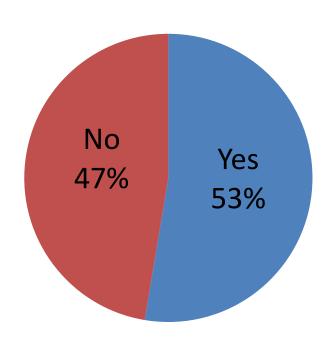


Survey data



CONTINUATION OF THE COLLABORATION (4/4)

Has the French-Austrian collaboration involved new partners?

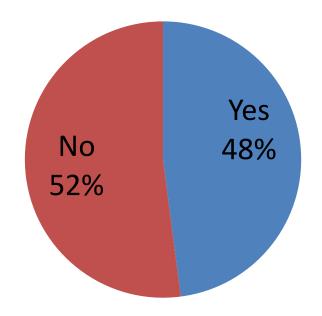


Survey data



IMPACT ON YOUNG RESEARCHERS' CAREER (1/2)

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

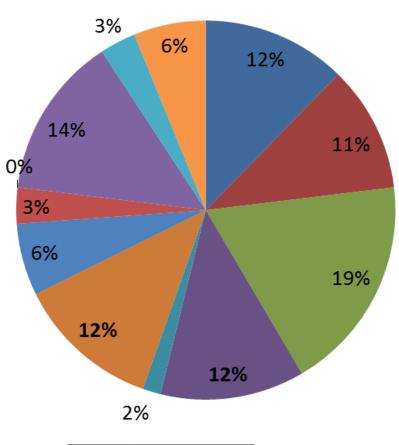


Survey data



IMPACT ON YOUNG RESEARCHERS' CAREER (2/2)

Type of impacts



MINISTÈRE

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

Post PhD in France

■ Post PhD in Hungary

■ Post PhD in another country

■ Teacher-researcher in France

■ Teacher-researcher in Hungary

Teacher-researcher in another country

Researcher in an public research institution in France

Researcher in an public research institution in Hungary

Researcher in an public research institution in another country

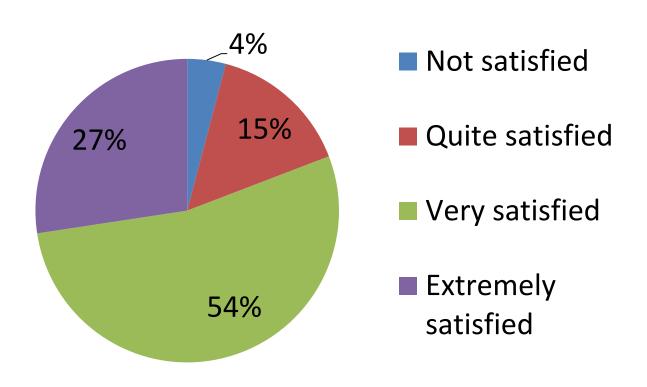
■ Employed in a private company in link with the field of Higher Education-Research in France

Employed in a private company in link with the field of Higher Education-Research in Hungary

Employed in a private company in link with the field of Higher Education-Research in another country Survey data

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

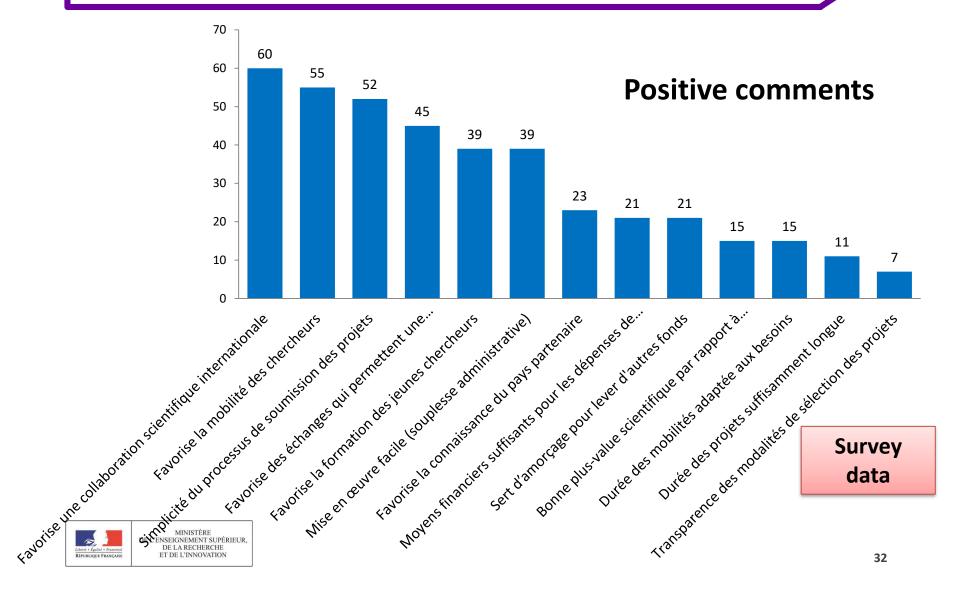
96% of French principal investigators are satisfied



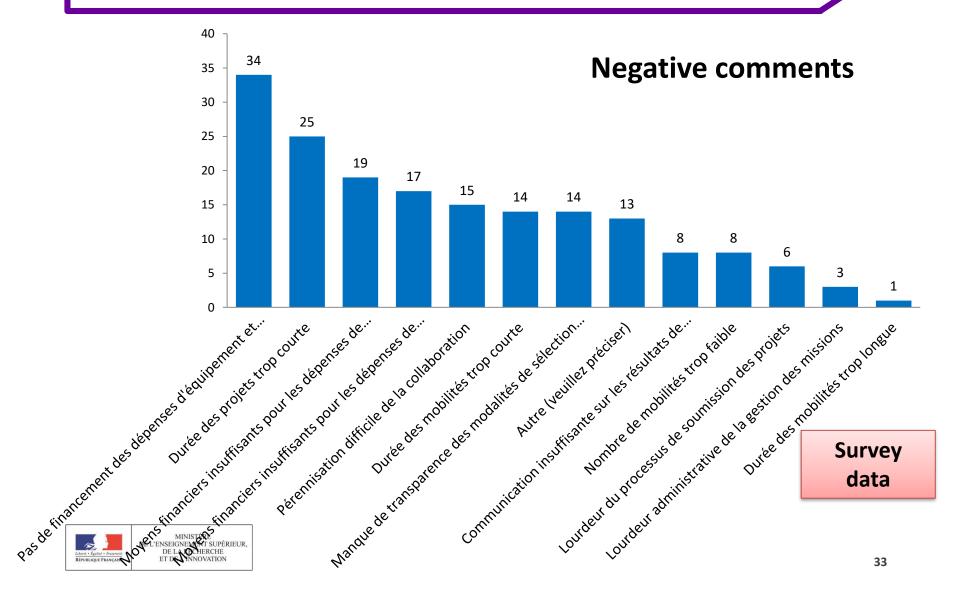
Survey data



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



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



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".

- **34** % of French PIs are young researchers
- 96% of French principal investigators are satisfied
- only 42% of copublications include at least 1 PHD or PostDoc
- Only 1,6 mean number of co-publications per project
- Average selection rate from 2005-2016 : 51 %
- only 65 % of projects involve at least one PhD student
- only 4% of joint structures setting-up of after the projects



PRELIMINARY RECOMMENDATIONS

RECOMMENDATIONS

- Aim an average 30% success rate
- Promote involvement of young researchers
- Promote scientific co-publications (37% of projects with no co-publications; 1,6 mean number of co-publications per project)
- Promote co-publications by young researchers (58% of copublications are done without any young researcher)
- Promote the set-up of joint structures



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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