FRANCE – ESTONIA

Scientific impact of the PARROT programme (2005-2015)

MESRI-DAEI / MEAE

2020

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

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RÉPUBLIQUE FRANÇAISE
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GENERAL PRESENTATION OF THE PROGRAMME

Creation : 2003

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

Total budget (France + Estonia) : around 46 000 € / year

>> including budget from the French part : 23 000 € / year

>> including budget from the Estonian part : 23 000 € / year

Average budget per project (France + Estonia) : 7 667 € / year

Number of new projects submitted per year : around 12

Number of new projects funded per year : around 7

From 2005-2015 :

75 applications submitted

41 projects funded

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DATA SOURCES

Campus France

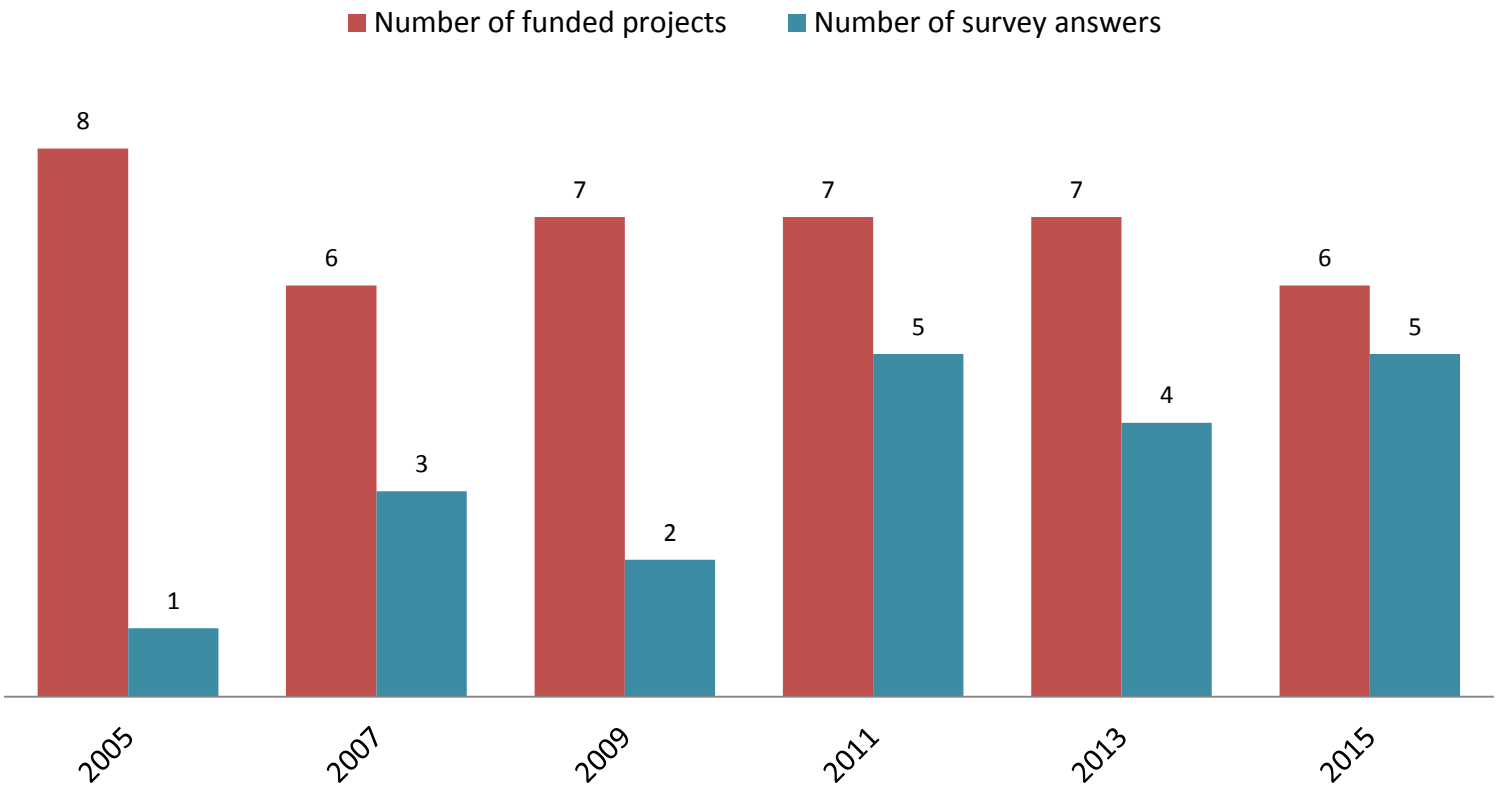
- Information about the PHC Parrot applications
- List of mobilities (from France to Estonia)

Survey

- Target : French Principal Investigators of selected projects between 2005 and 2015
- Survey duration : 7 weeks between November 2016 and January 2017
- **50%** response ratio (20 respondents for 40 sollicitations)

ANSWERS TO THE SURVEY

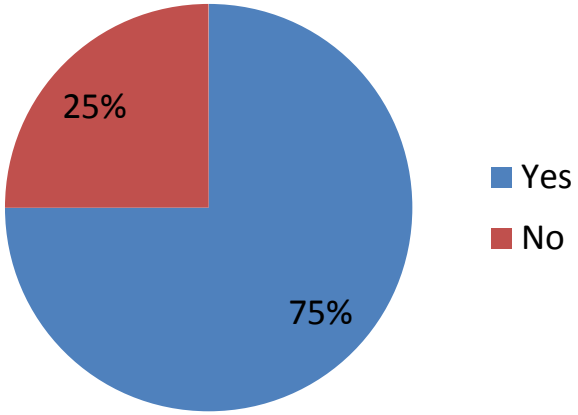
Average response rate to the survey : 50 % (20 answers)



2005-2015
Key Points

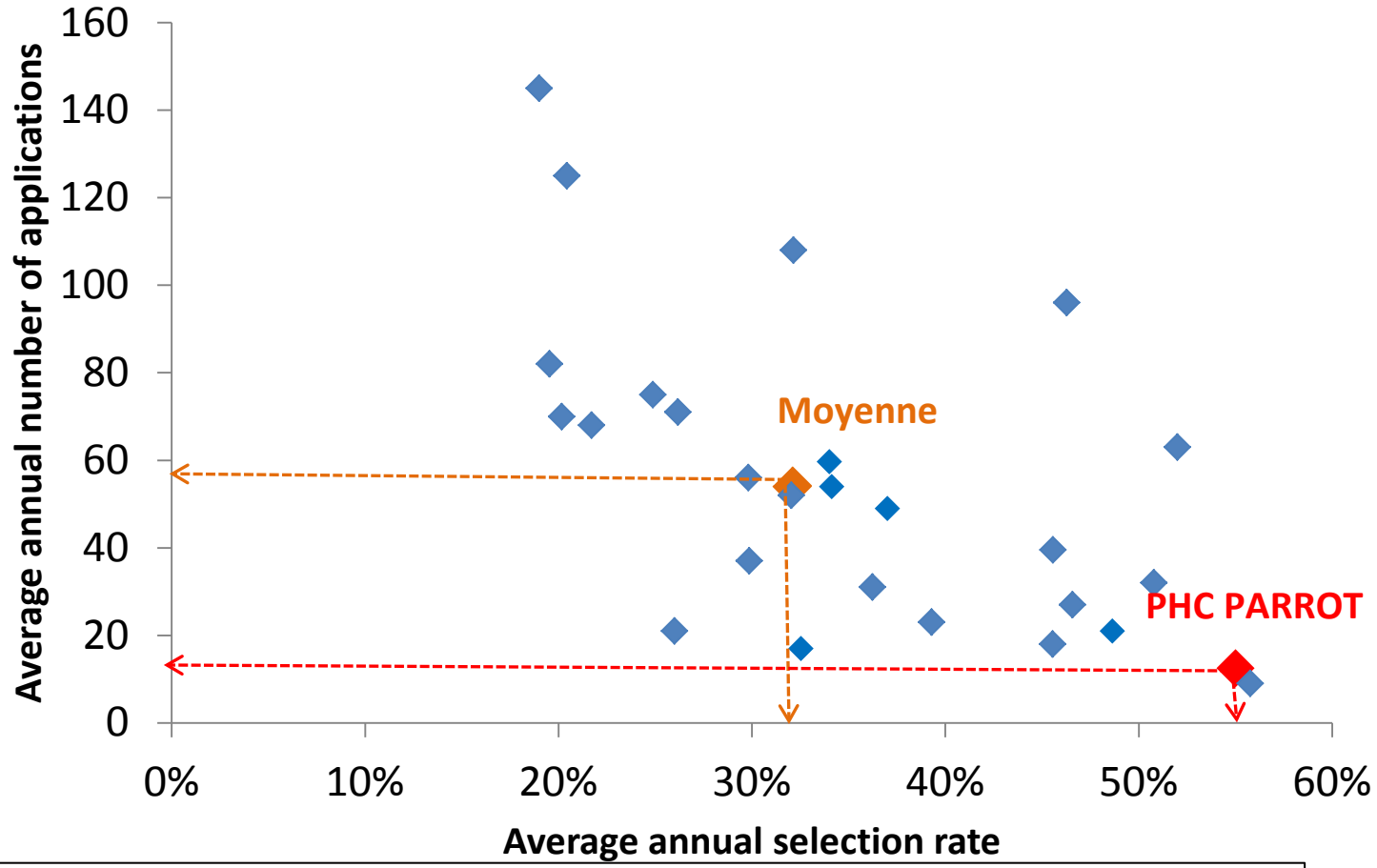
BEFORE THE PARROT PROJECT (1/2)

Did you already cooperate with Estonia in the past ?



NUMBER OF APPLICATIONS VS SELECTION RATE

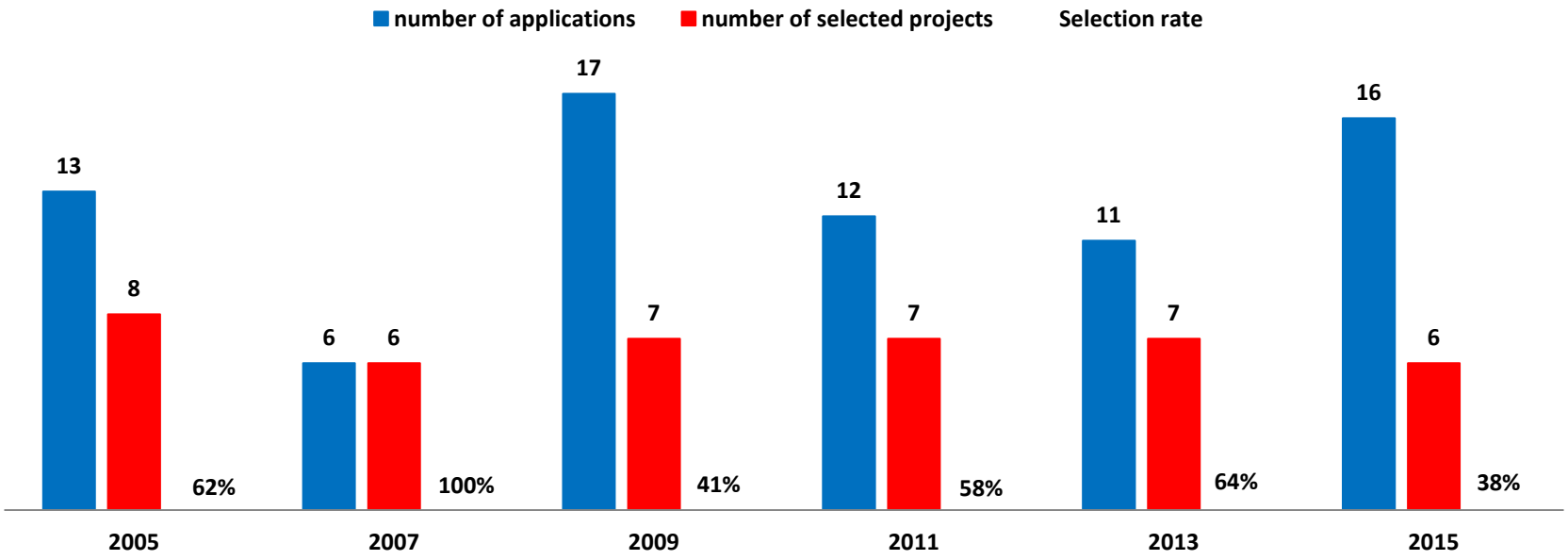
(COMPARISON BETWEEN 27 DIFFERENT BILATERAL PROGRAMMES)



Average selection rate for 2005-2015 : 55% vs 32% mean
Average number of applications 2005-2015 : 13 vs 54 mean

NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2005-2015: 55 %



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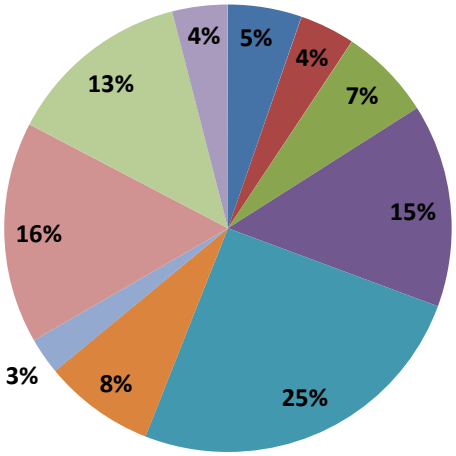
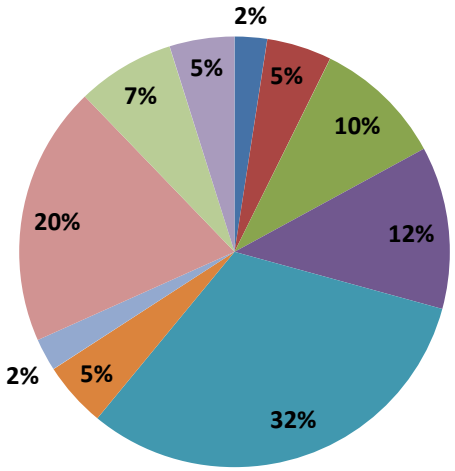
SCIENTIFIC DOMAINS OF PROJECTS

Number of applications : 75



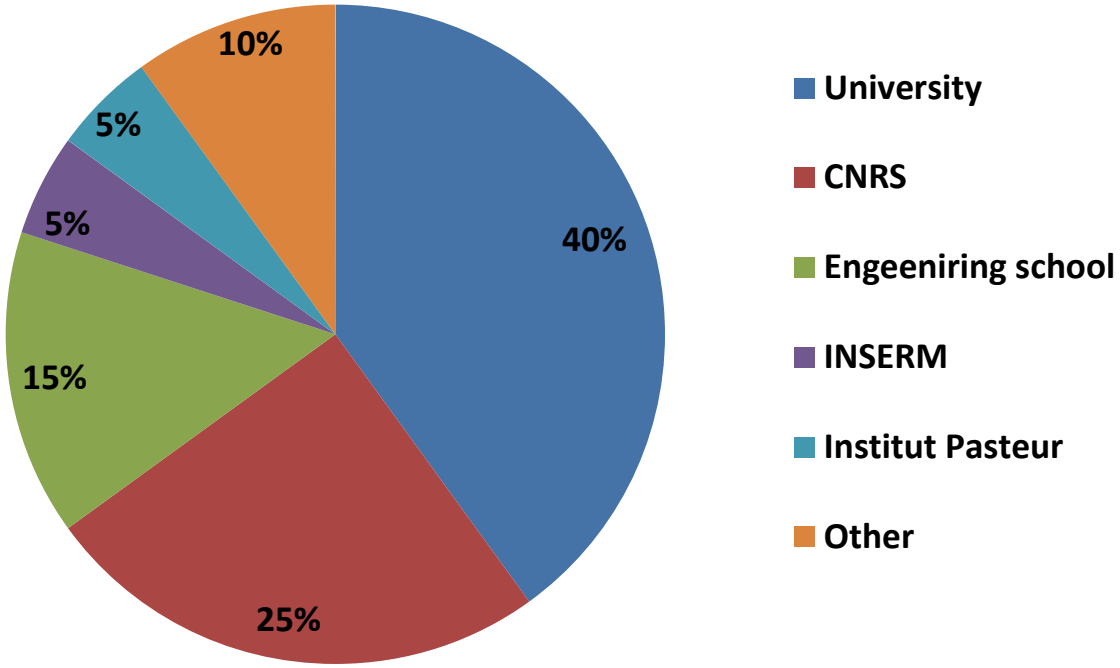
Number of funded projects : 41



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

FRENCH PARTICIPATING INSTITUTIONS

Laboratories authorities



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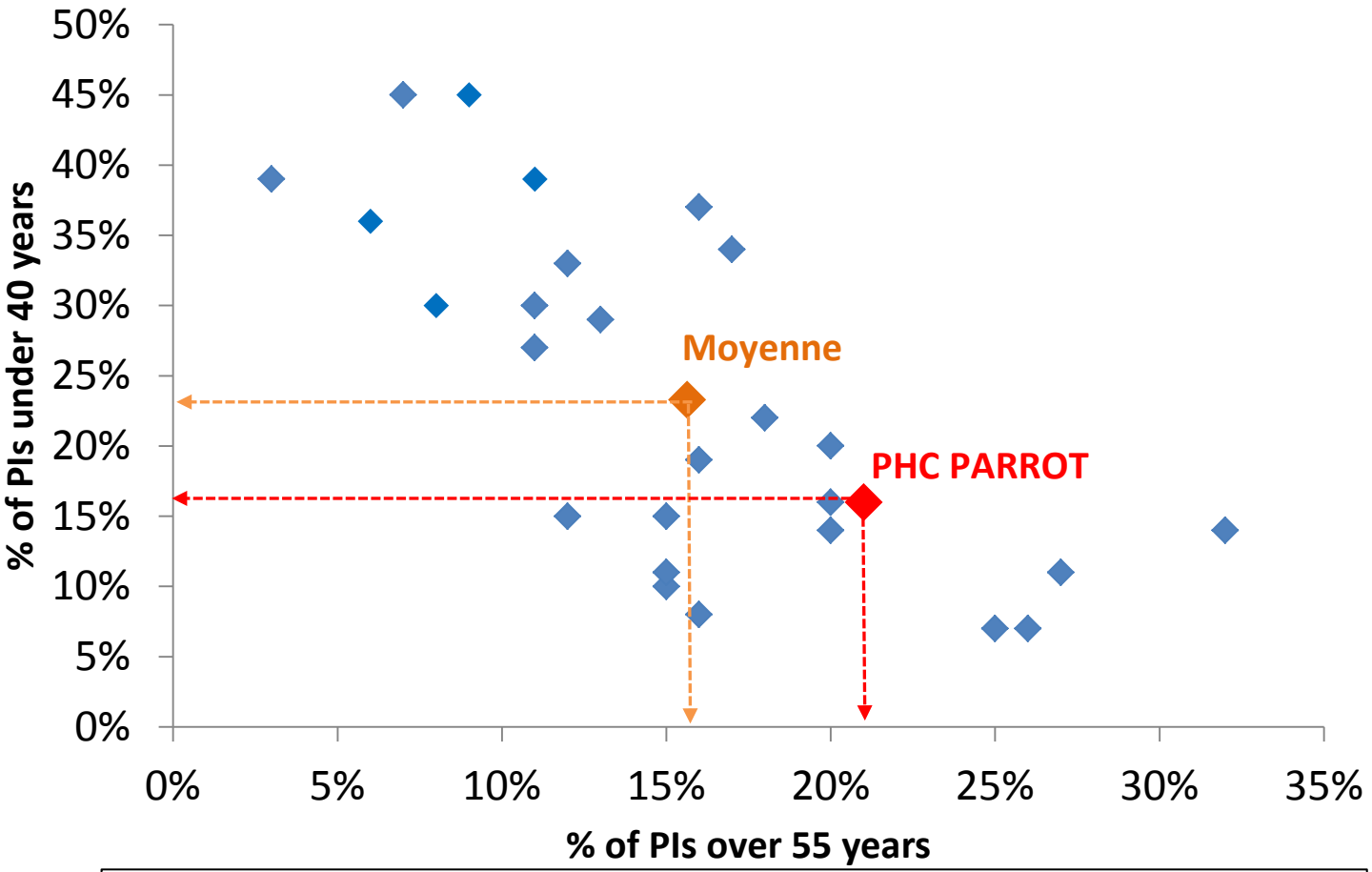
AGE OF PRINCIPAL INVESTIGATORS (PI)

(COMPARISON BETWEEN 27 DIFFERENT BILATERAL PROGRAMMES)



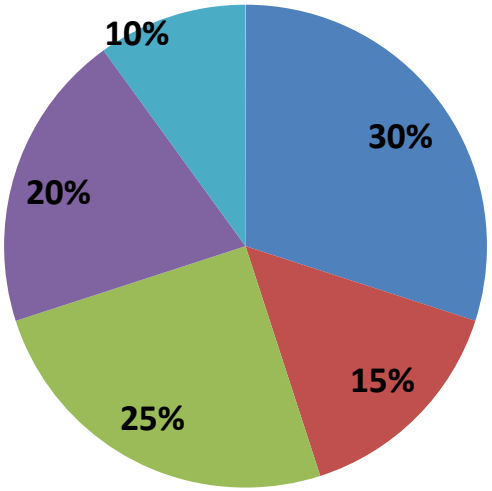
PIs under 40 years : 16% vs 23% mean

PIs over 55 years : 21% vs 16% mean

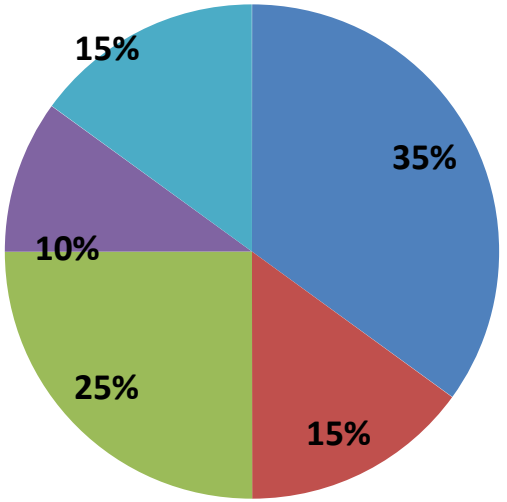
63% of the PIs are between 40 and 55 years

FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

Previous professional status (at the beginning of the project)



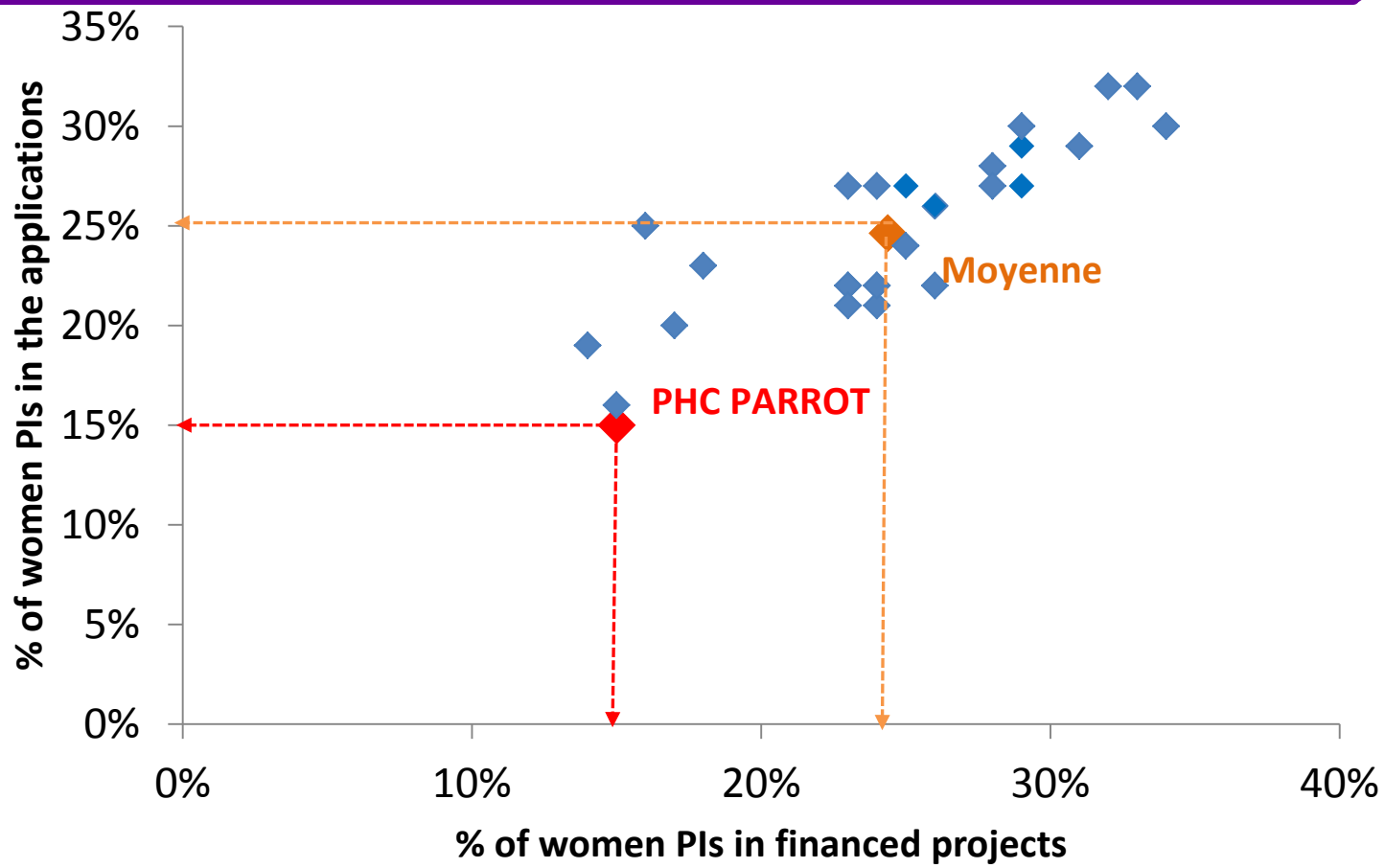
Current professional status



Full professor
Assistant professor
Senior researcher
Junior researcher
Other

IMPLICATION OF WOMEN (FRANCE)

(COMPARISON BETWEEN 27 DIFFERENT BILATERAL PROGRAMMES)

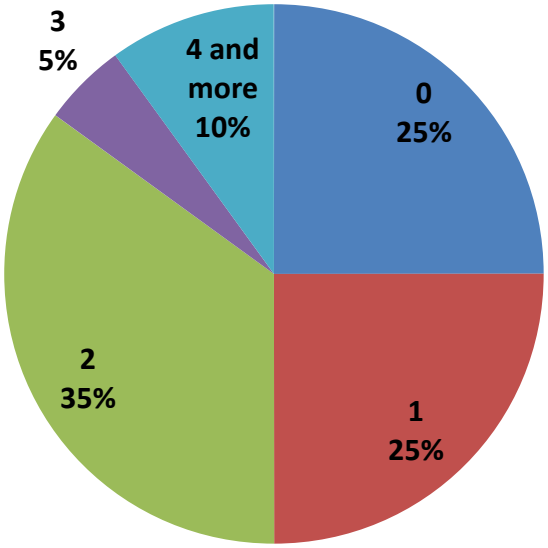


% of women PIs in the applications : 15% vs 25% mean

% of women PIs in the selected projects : 15% vs 24% mean

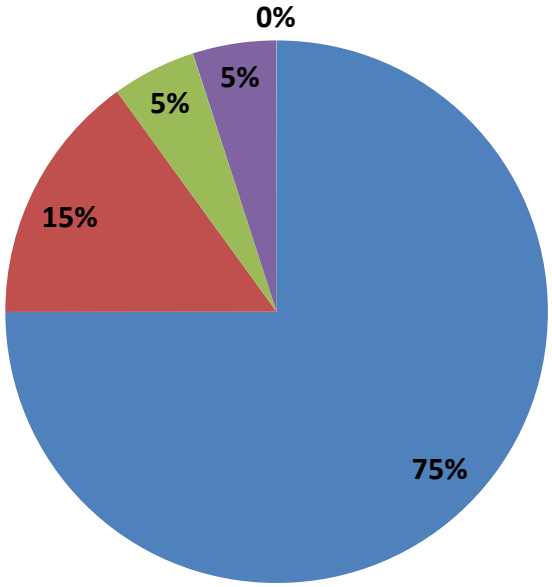
PARTICIPATION OF FRENCH YOUNG RESEARCHERS

Number of PhD students



75% of projects involve at least one PhD student

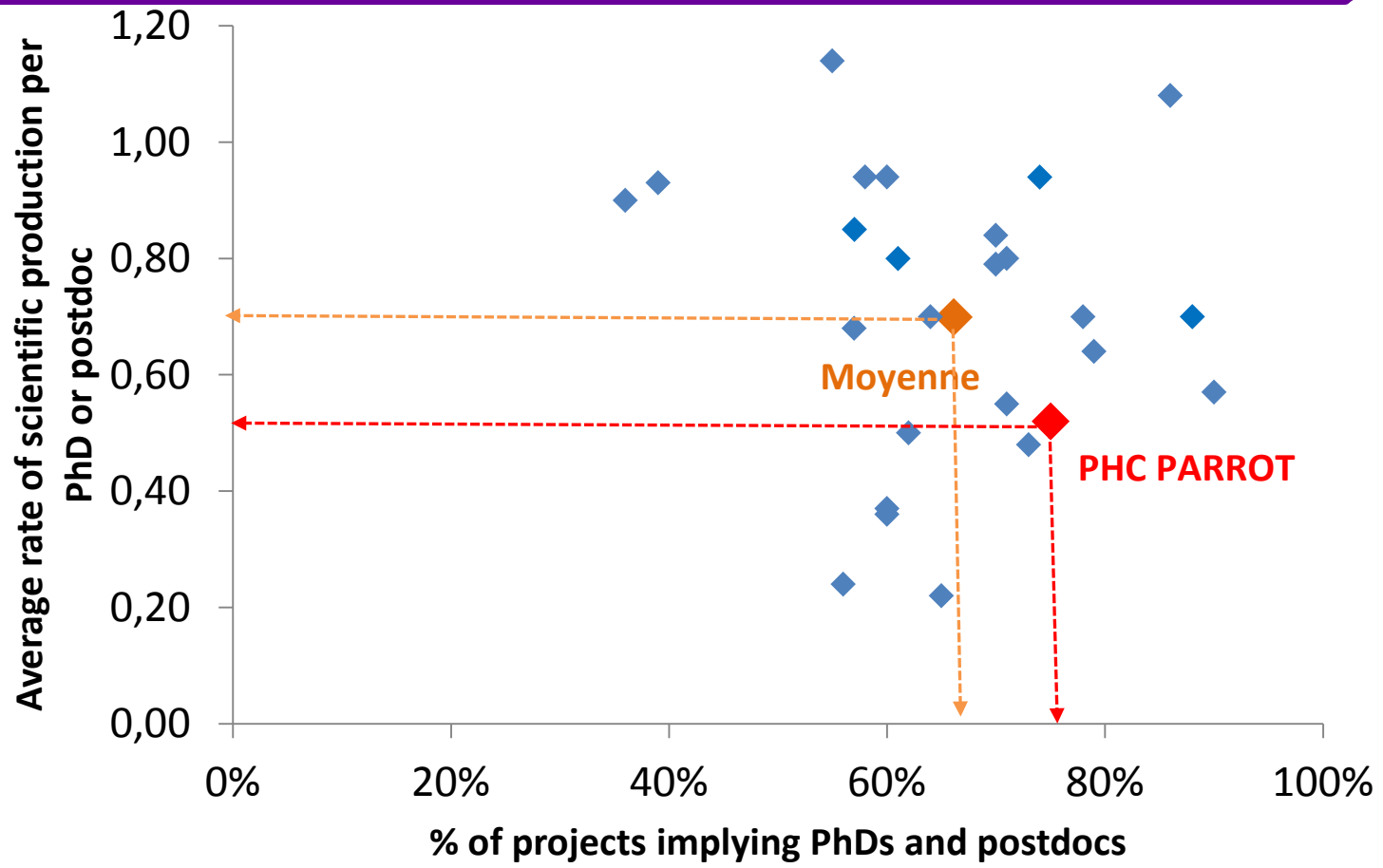
Number of post-doctoral researchers



25% of projects involve at least one post-doctoral researcher

IMPLICATION OF PhDs

(COMPARISON BETWEEN 27 DIFFERENT BILATERAL PROGRAMMES)



% of projects implying PhDs and Post-doc : 75% vs 66% mean
Average rate of scientific production per PhD : 0,52 vs 0,70 mean

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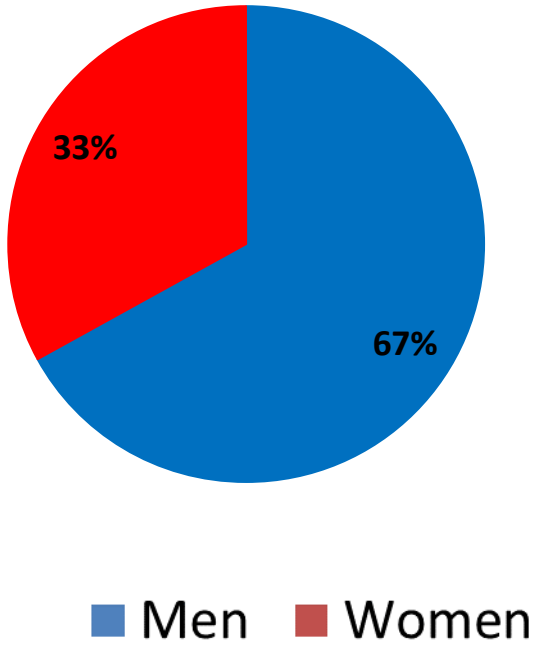
MOBILITY

MOBILITY : GENDER DISTRIBUTION

France → Estonia



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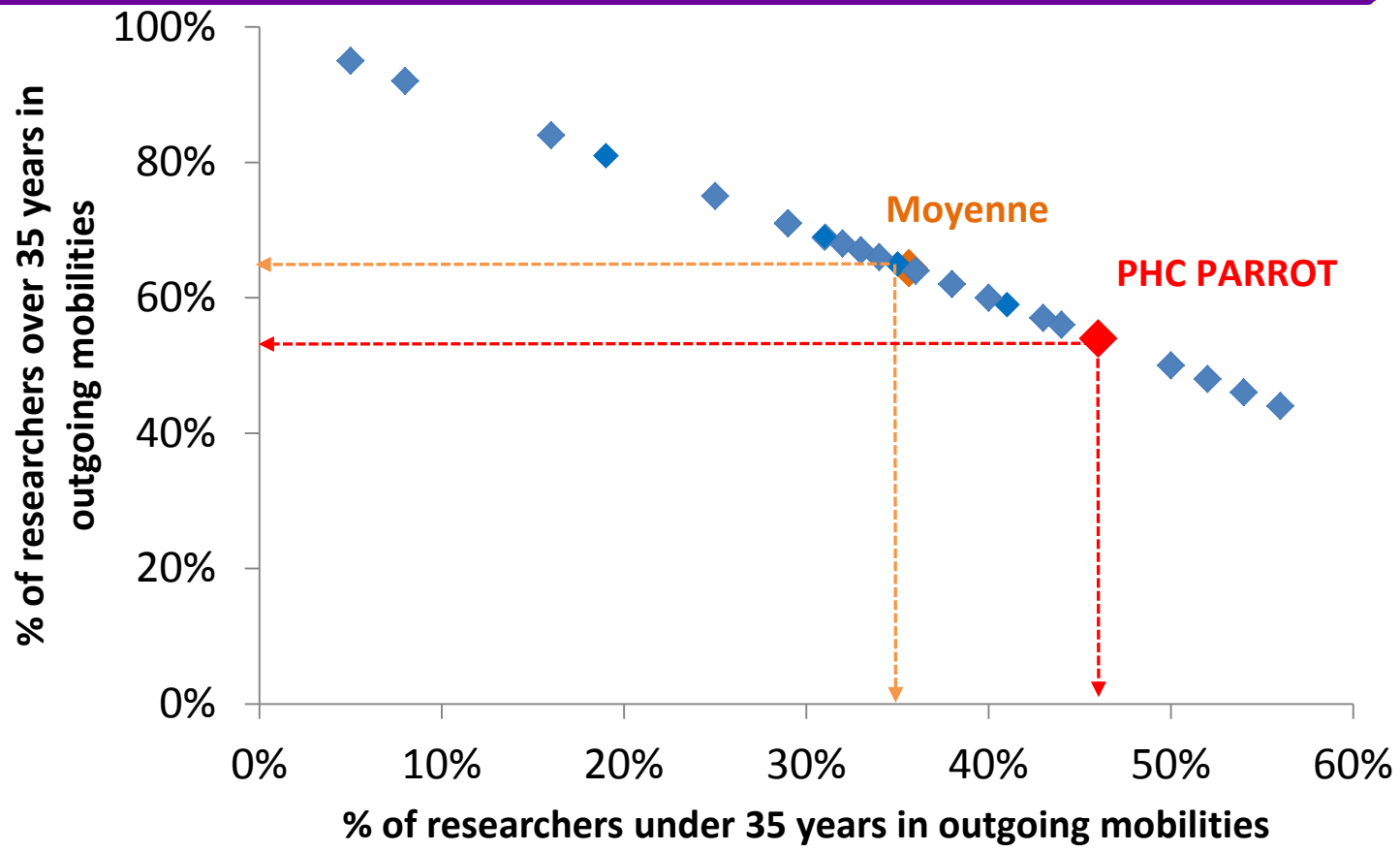
MOBILITY FRANCE – ESTONIA

(COMPARISON BETWEEN 27 DIFFERENT BILATERAL PROGRAMMES)



% of french young researchers in outgoing mobilities : 46% vs 36% mean

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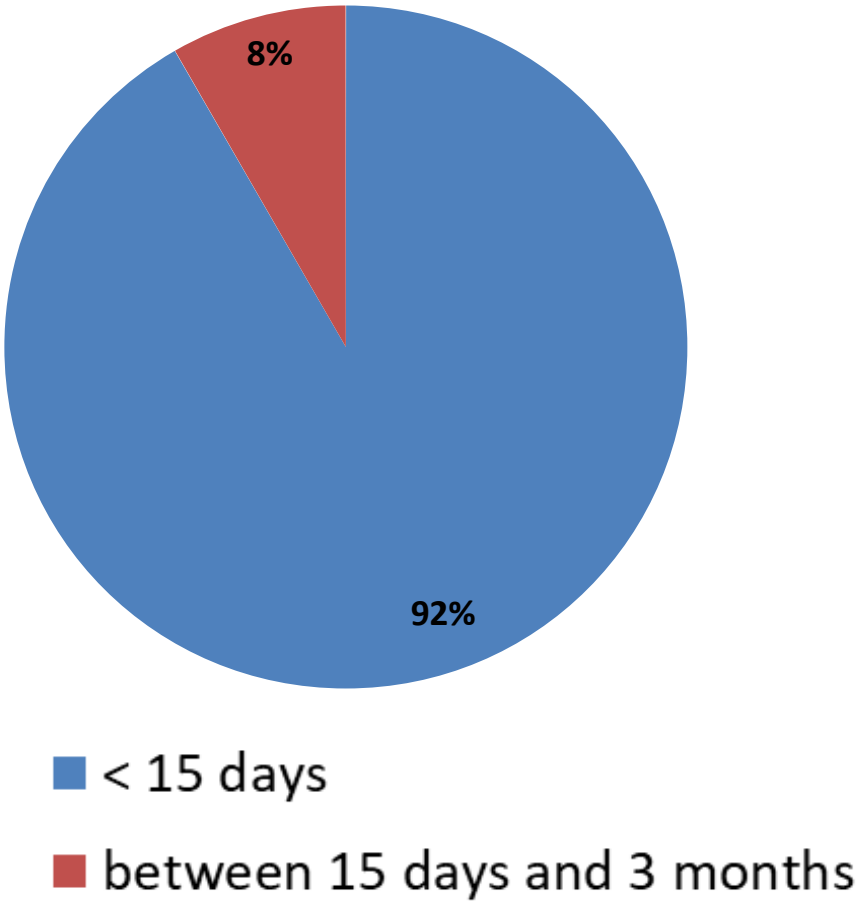
MOBILITY : DURATION

France → Estonia



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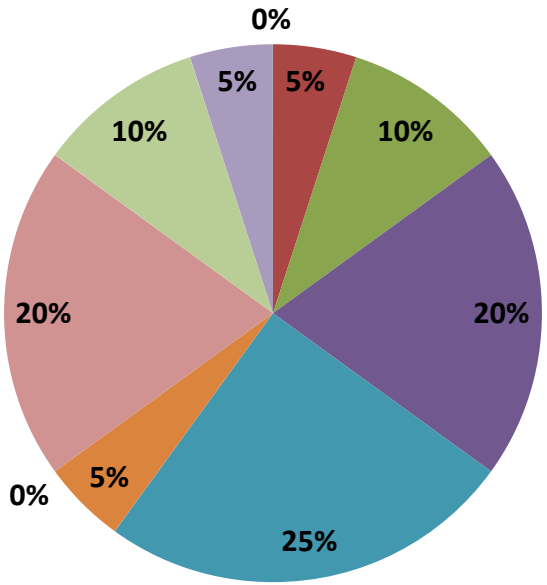
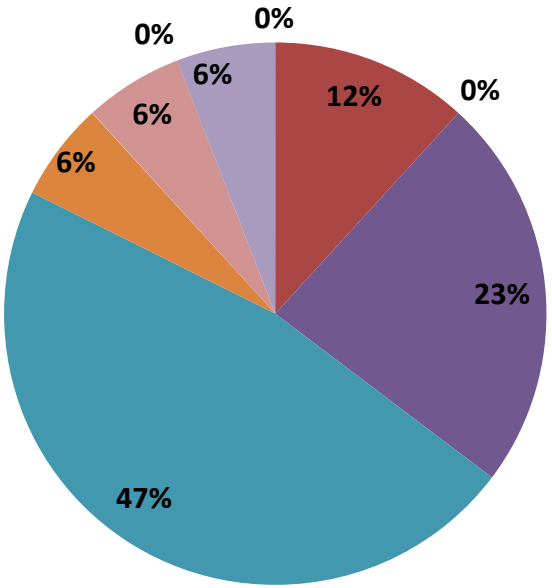
SCIENTIFIC PRODUCTION

SCIENTIFIC OUTPUT (1/2)

Number of funded projects in the survey: 20



Percentage of copublications



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

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SCIENTIFIC OUTPUT (2/2)

Data from 20 funded projects

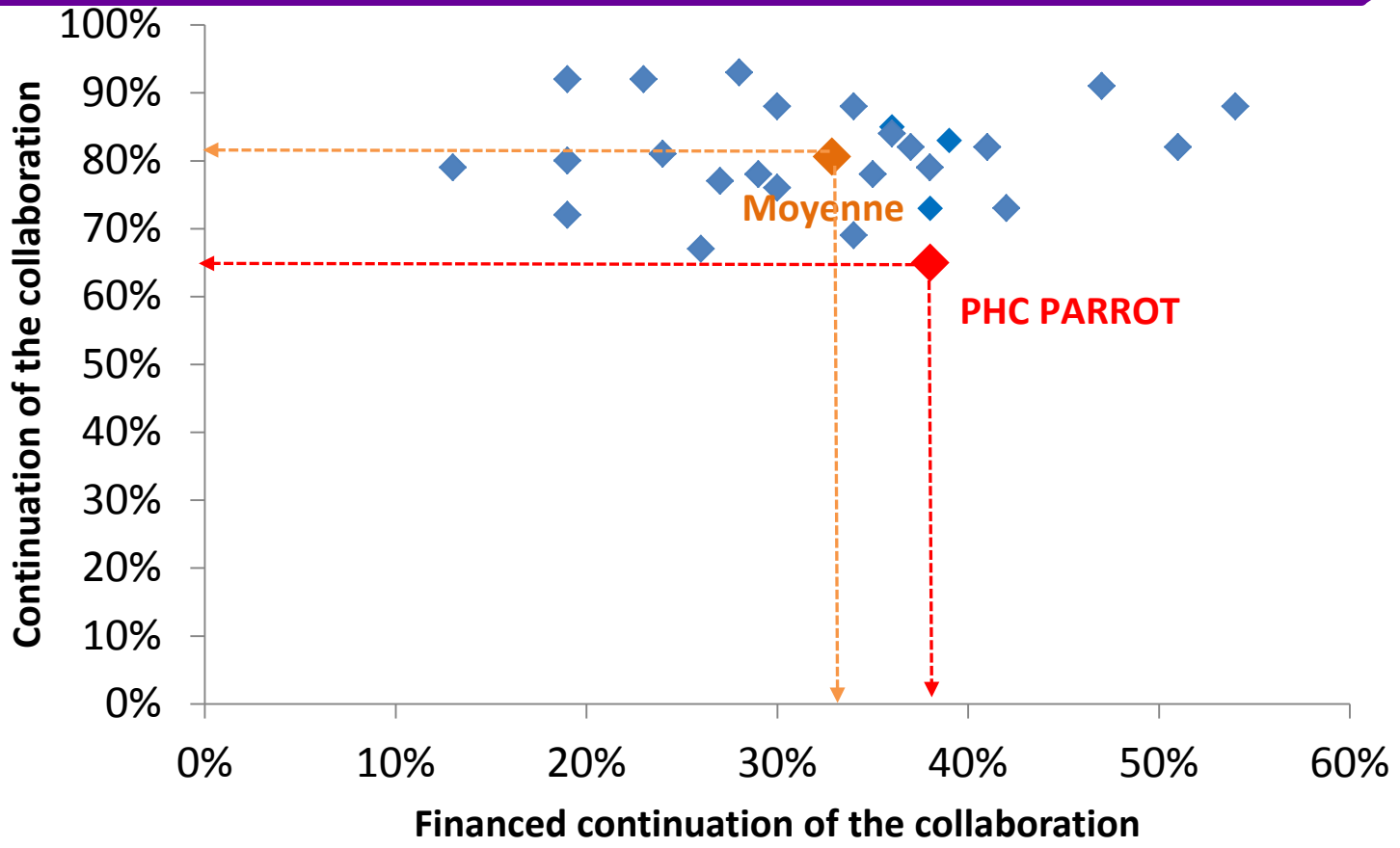
	Number of financed projects in the survey	Average number of co-publications per project
Mathematics	0	0
Physics	1	2
Marine/Earth/Planet Sciences	2	0
Chemistry	4	1
Biology and Health	5	1,6
Humanities	1	1
Social Sciences	0	0
Engineering Sciences	4	0,3
Information Technology	2	0
Agronomy / Ecology	1	1
TOTAL	20	0,9

Overall average annual number of coproduction per project : 0,45 vs 0,9 mean

45% of funded projects led to one co-publication at least vs 64% mean

WHAT HAPPENS AFTER A PARROT PROJECT ?

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



Continuation of the collaboration : 65% vs 81% mean
Continuation of the collaboration with other sources of subvention : 38% vs 33% mean

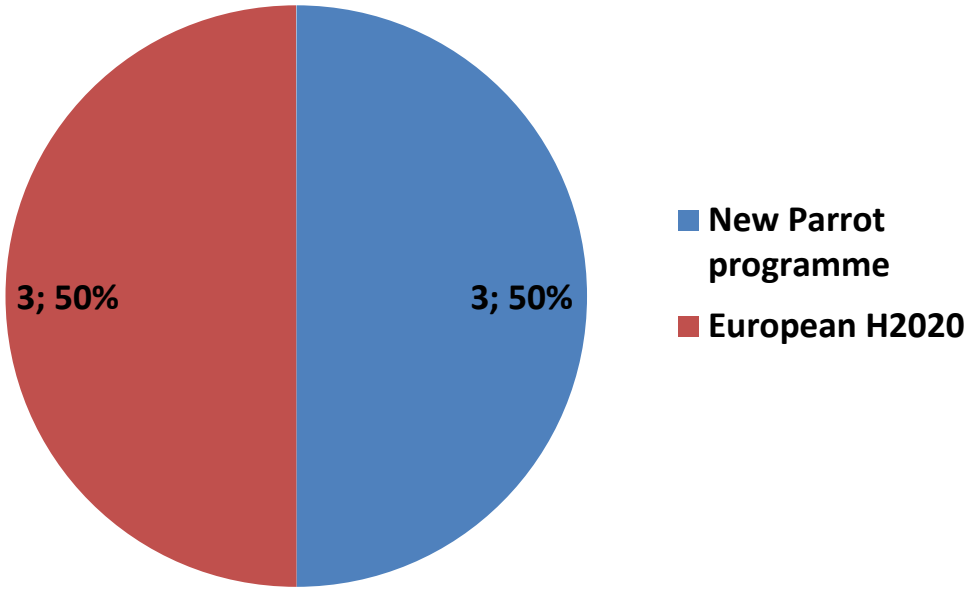
CONTINUATION OF THE COLLABORATION (2/5)

65% of the collaborations continued after the Parrot project

Which activities?	
Collaborative research	92%
Co-publications	54%
Researchers mobility	54%
Joint participation to conferences	38%
Co-organisation of scientific events	15%
PhD mobility	8%
Joint participation to PhD thesis jury	0%
Others	0%

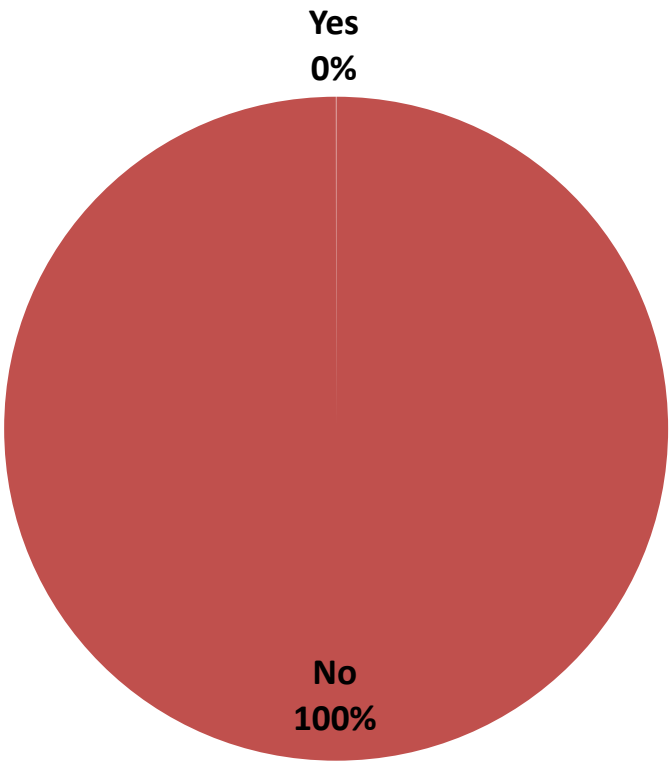
CONTINUATION OF THE COLLABORATION (3/5)

What kind of funded collaborations after the Parrot project ?



CONTINUATION OF THE COLLABORATION (4/5)

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



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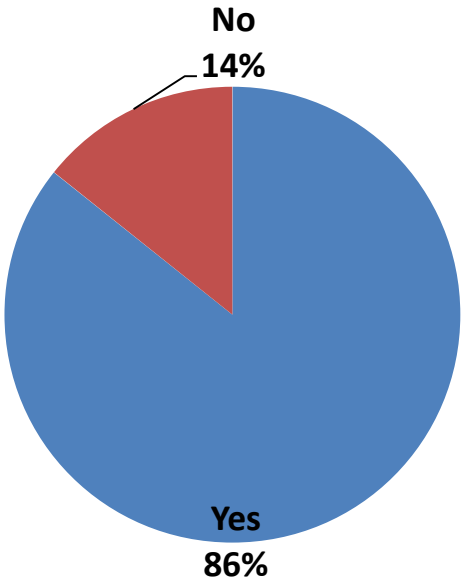
CONTINUATION OF THE COLLABORATION (5/5)

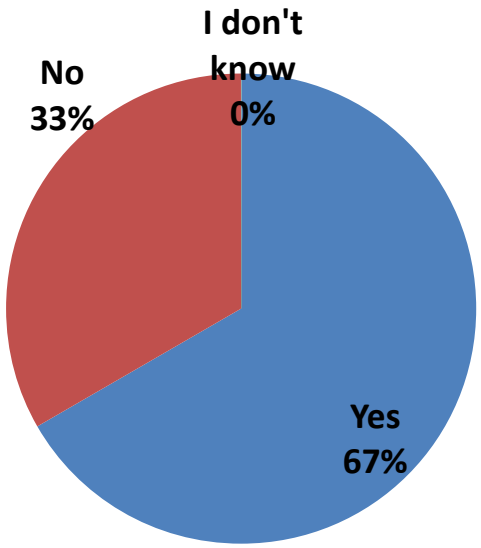
Has the French-Estonian collaboration involved new partners?



(7 respondents)

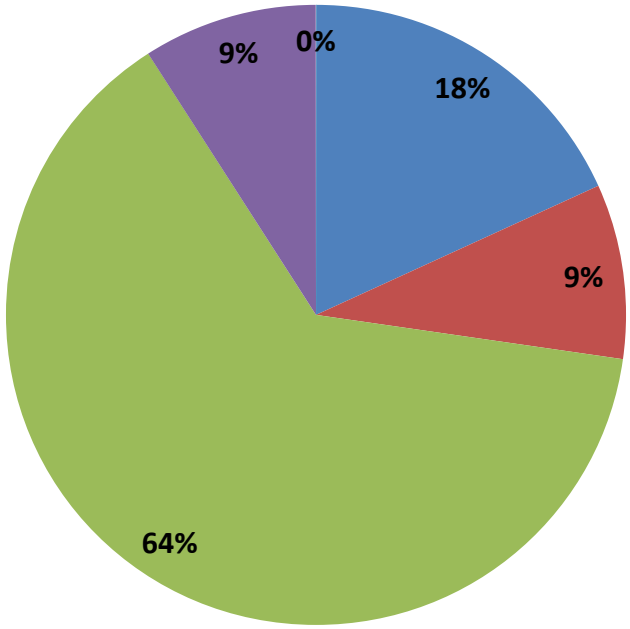
IMPACT ON YOUNG RESEARCHERS' CAREER (1/2)

Was young researchers career impacted by the Parrot programme ?



18 respondents

Type of impacts



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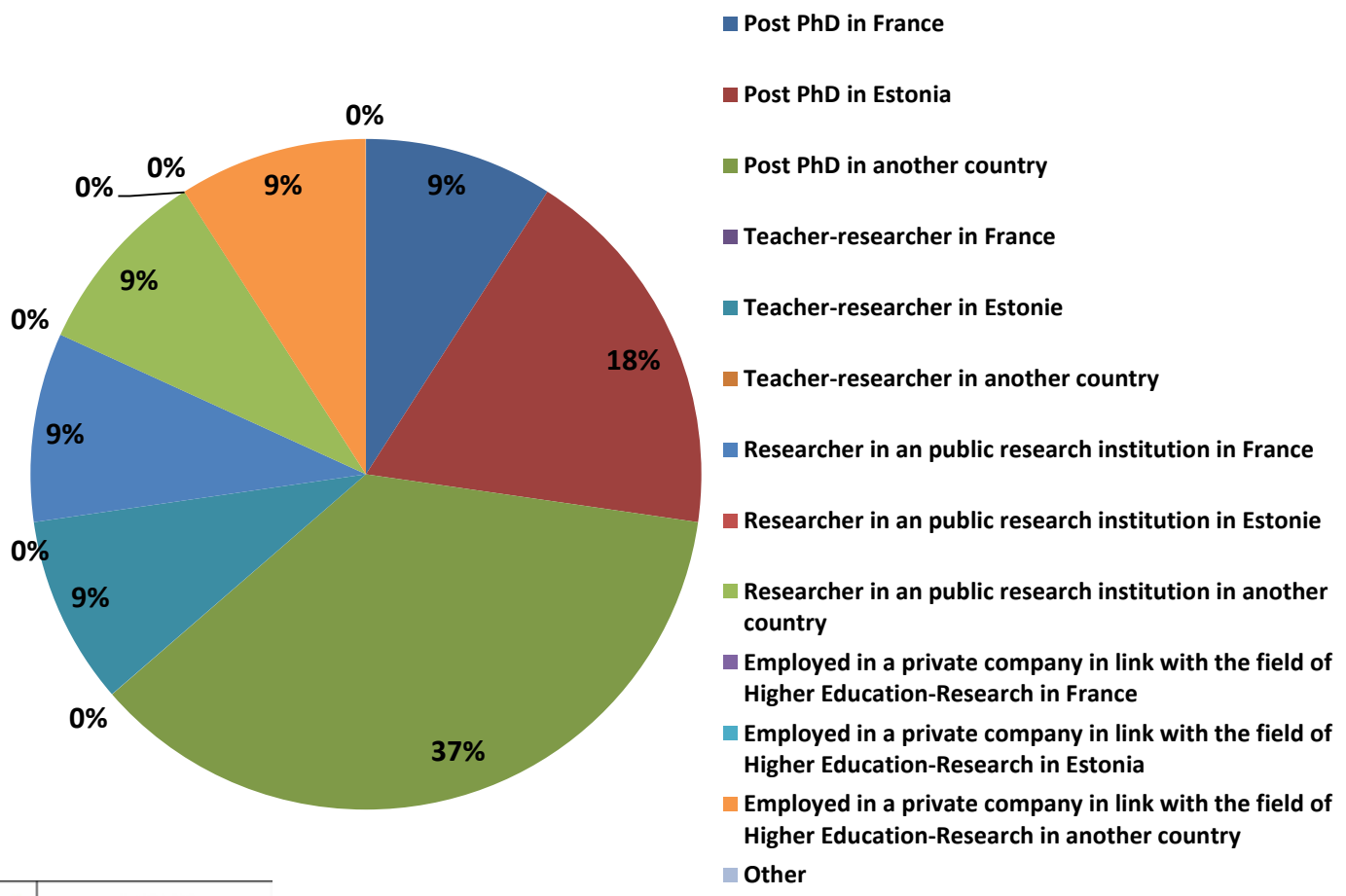
IMPACT ON YOUNG RESEARCHERS' CAREER (2/2)

Type of impacts



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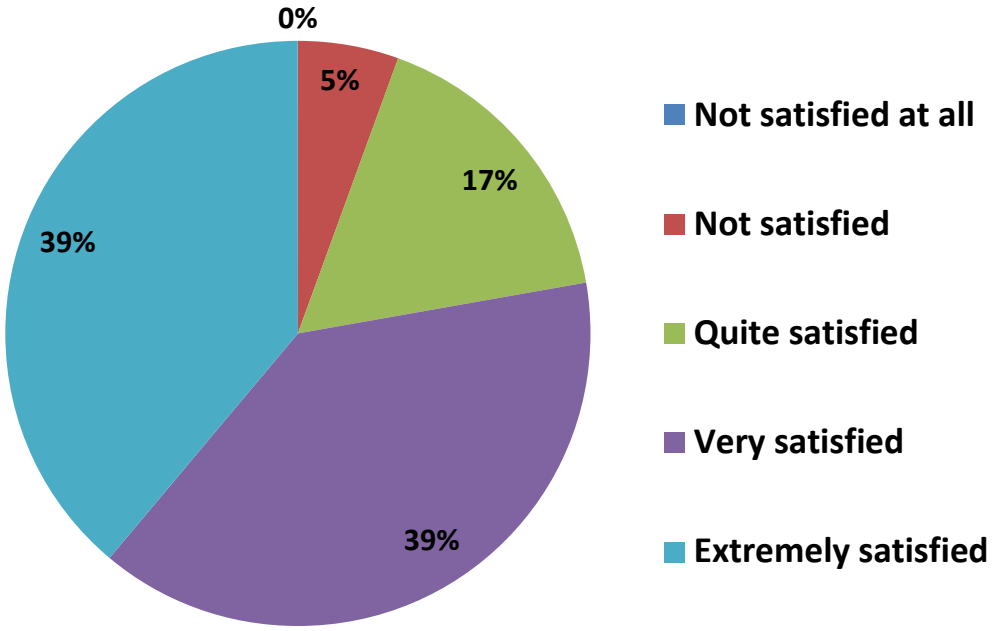
GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME

95% of French principal investigators are satisfied



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

SURVEY OF 18 RESPONSES

Strengths of this program	Number of occurencies	%
Easy implementation (administrative flexibility)	9	45%
Simplicity of the application process	7	35%
Allows exchanges which allow a scientific production	5	25%
Allows the mobility of the researchers	3	15%
Allows an international scientific collaboration	3	15%
Allows the training of the young researchers	3	15%
Financial means sufficient for the expenditure of mobility	3	15%
Good scientific appreciation compared to the financial investment	0	
Allows a knowledge of the country partner	0	
Is used as starting for raising other funds	0	
Duration of mobilities adapted to the needs	0	
Transparency of the methods for selecting the projects	0	
Sufficiently long duration of the projects	0	
Others	0	
Total number of occurencies	*33*	

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

SURVEY OF 15 RESPONSES

Weaknesses of this program	Number of occurencies	%
No funding of the operation and capital expenditures	4	20%
Financial means insufficient for the expenditure of mobility (per diem)	4	20%
Financial means insufficient for the expenditure of mobility (transport)	4	20%
Too short duration of the projects	3	15%
Too short duration of mobilities	2	10%
Other	2	10%
Difficult perpetuation of collaboration	1	5%
Administrative heaviness of the missions management	1	5%
Lack of transparency on the methods of projects selection	0	
Insufficient communication on the evaluation's results	0	
Too low number of mobilities	0	
Heaviness of the process of applications	0	
Too long duration of mobilities	0	
Total number of occurencies	*21*	

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".

- **75 % of the projects involve at least one PhD**
- **Excellent result for the number of young researchers involved in the copublications (75% vs 66%)**
- **50 % of the collaborations were pursued through an European programme**

- **Overall average annual number of coproduction per project is low (0,45 vs 0,9)**
- **Average rate of scientific production per PhD/post doc is low (0,52 vs 0,70)**
- **Only 25% of the projects involve a post doc student**
- **French PIs young researchers represent only 16 % of laureates**
- **Too low implication of women researchers**
- **Parrot programme should be an opportunity to initiate new collaborations (only 25%)**

PRELIMINARY RECOMMENDATIONS

RECOMMENDATIONS

- **Promote the programme to increase submissions**
- **Promote REAL new cooperations**
- **Promote co-publications (55% of projects with no co-publications)**
- **Promote number of co-publications per project**

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