



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

# FRANCE-NORWAY

## Scientific impact of the AURORA programme (2005-2015)

MESRI-MEIRIES / MEAE

2017



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# GENERAL PRESENTATION OF THE PROGRAMME

**Creation : 1998**

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

**Total budget (France + Norway, 2017) : around 152 000 € / year**

>> including budget from the French part : 70 000 € / year

>> including budget from the Norwegian part : 82 000 € / year

Average budget per project (France + Norway) : 5 385 € / year

**Number of new projects submitted per year : around 27**

**Number of new projects funded per year : around 12**

**From 2005-2015 :**

**292** applications submitted

**136** projects funded

# DATA SOURCES

## Campus France

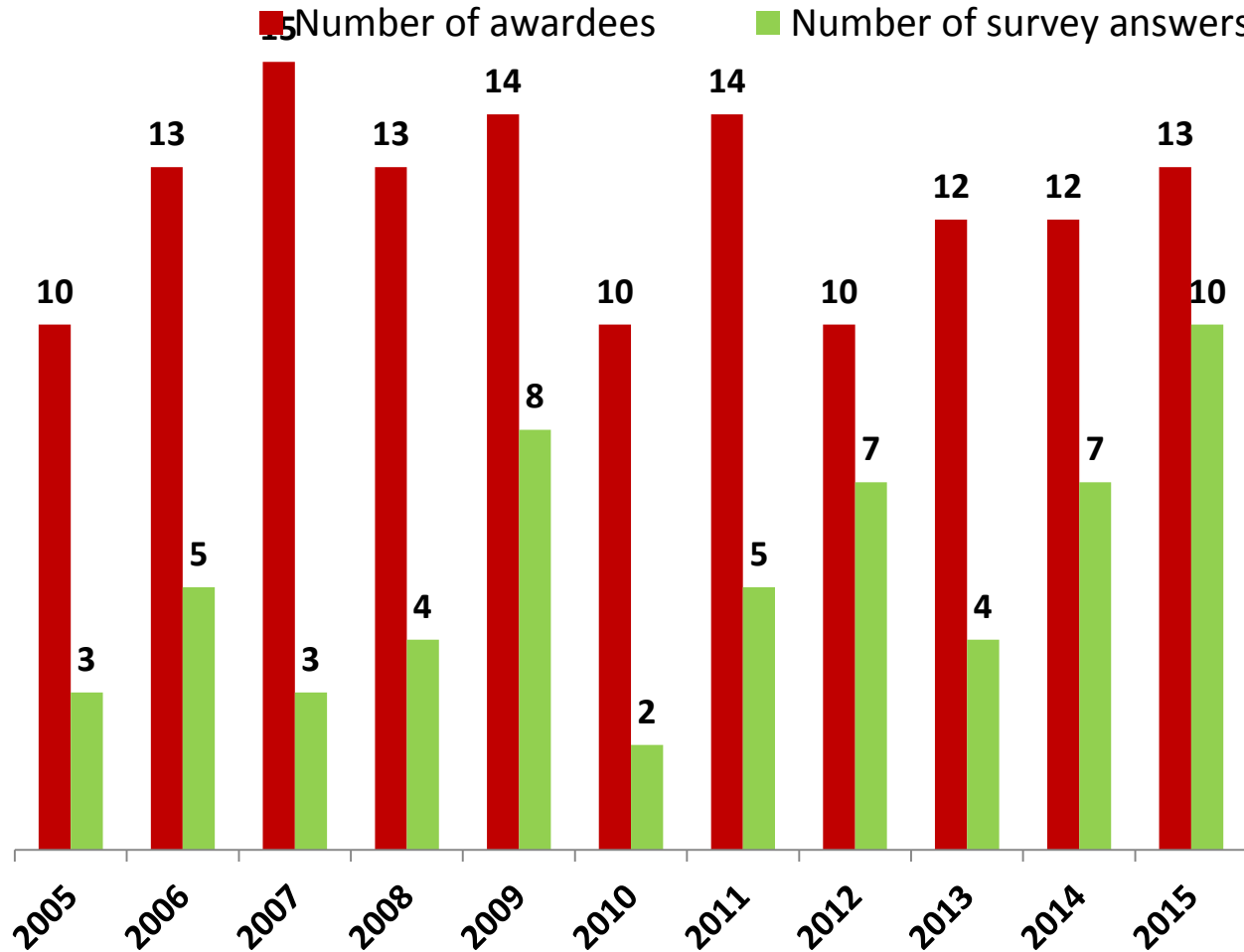
- Information about applications to the Programme Hubert Curien (PHC) Aurora
- List of mobilities (France to Norway)

## Survey *(conducted by the French Ministry of Higher Education, Research and Innovation)*

- Target : Principal Investigators of selected projects between 2005 and 2015
- Survey initiated in **April 2016** and ended in May 2016, focusing on the projects funded between 2005 and 2015
- **47%** response ratio *(70 respondents for 148 funded projects)*

# ANSWERS TO THE SURVEY

Average response rate to the survey : 43 % (58 answers)



# METHODOLOGY (ANALYSIS)

Common definition of an analysis framework with the Ministry for European and Foreign Affairs (MEAE) regarding:

- ✓ Scientific excellence
- ✓ Involvement in training through research
- ✓ Impact in terms of influence and international attraction
- ✓ Interactions with the social, economic and cultural environment
- ✓ Capacity building
- ✓ Governance and implementation of the programme

# METHODOLOGY (SURVEY)

Survey implemented jointly with the French embassy using the following structure:

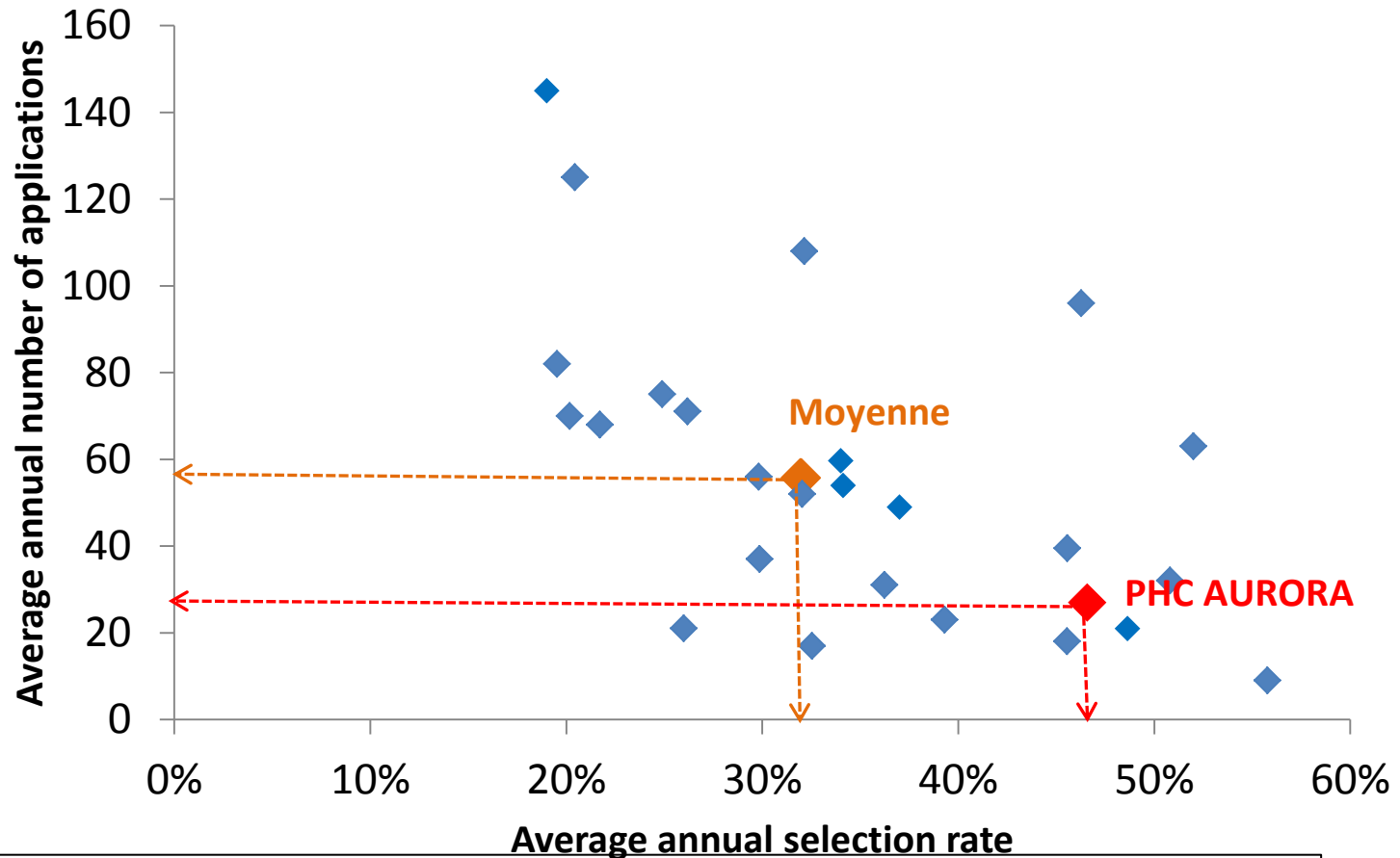
- ✓ General information
- ✓ Scientific production
- ✓ Involvement of young researchers
- ✓ Mobility
- ✓ Sustainability after the end of the project
- ✓ General opinion on the programme

**Respondents** : participants in the projects.

Data was collected from April-May 2016.

# 2005-2015 Key Points

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

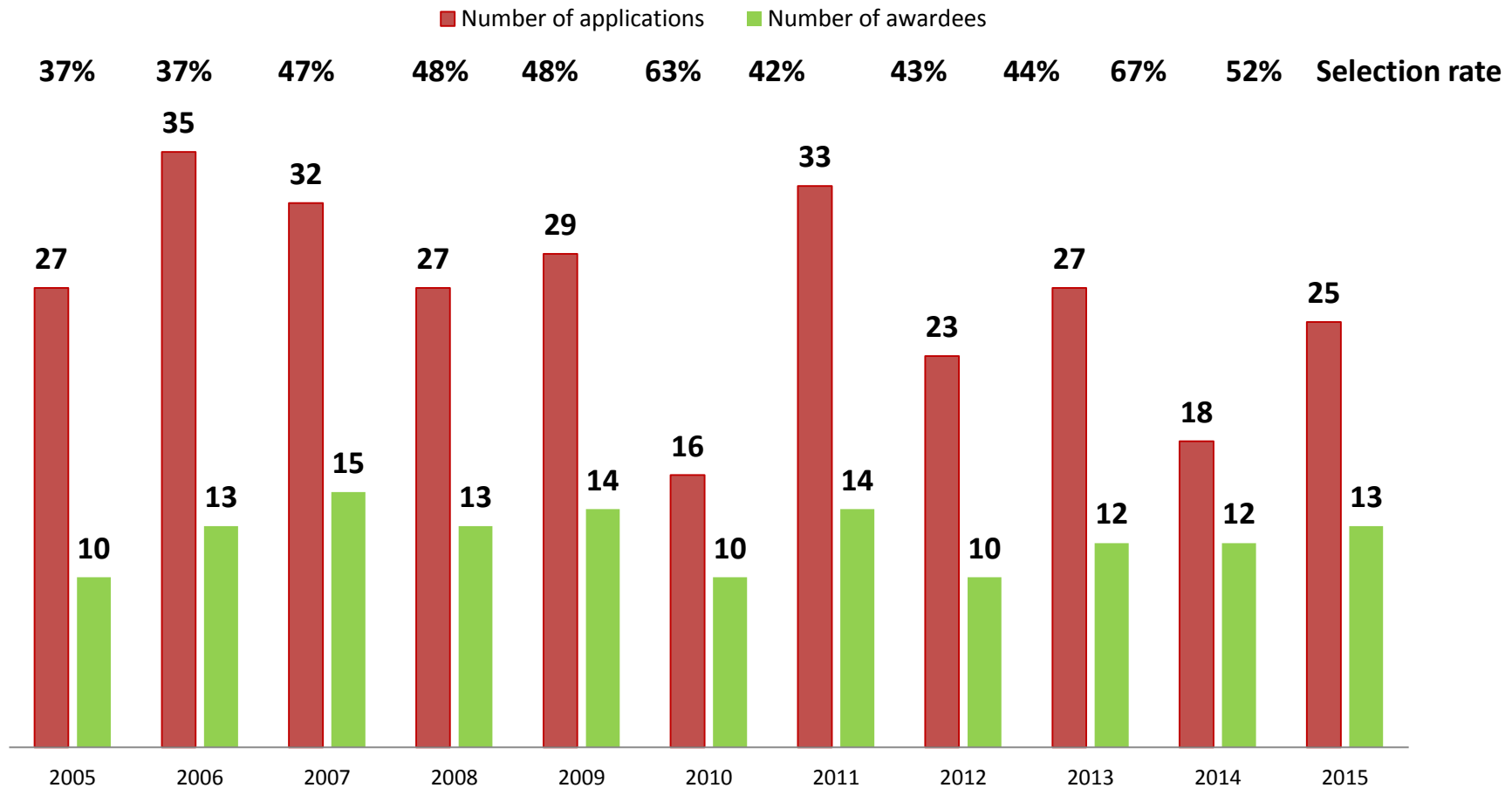


**Average selection rate for 2005-2015 : 47% vs 32% mean**  
**Average number of applications 2005-2015 : 27 vs 56 mean**



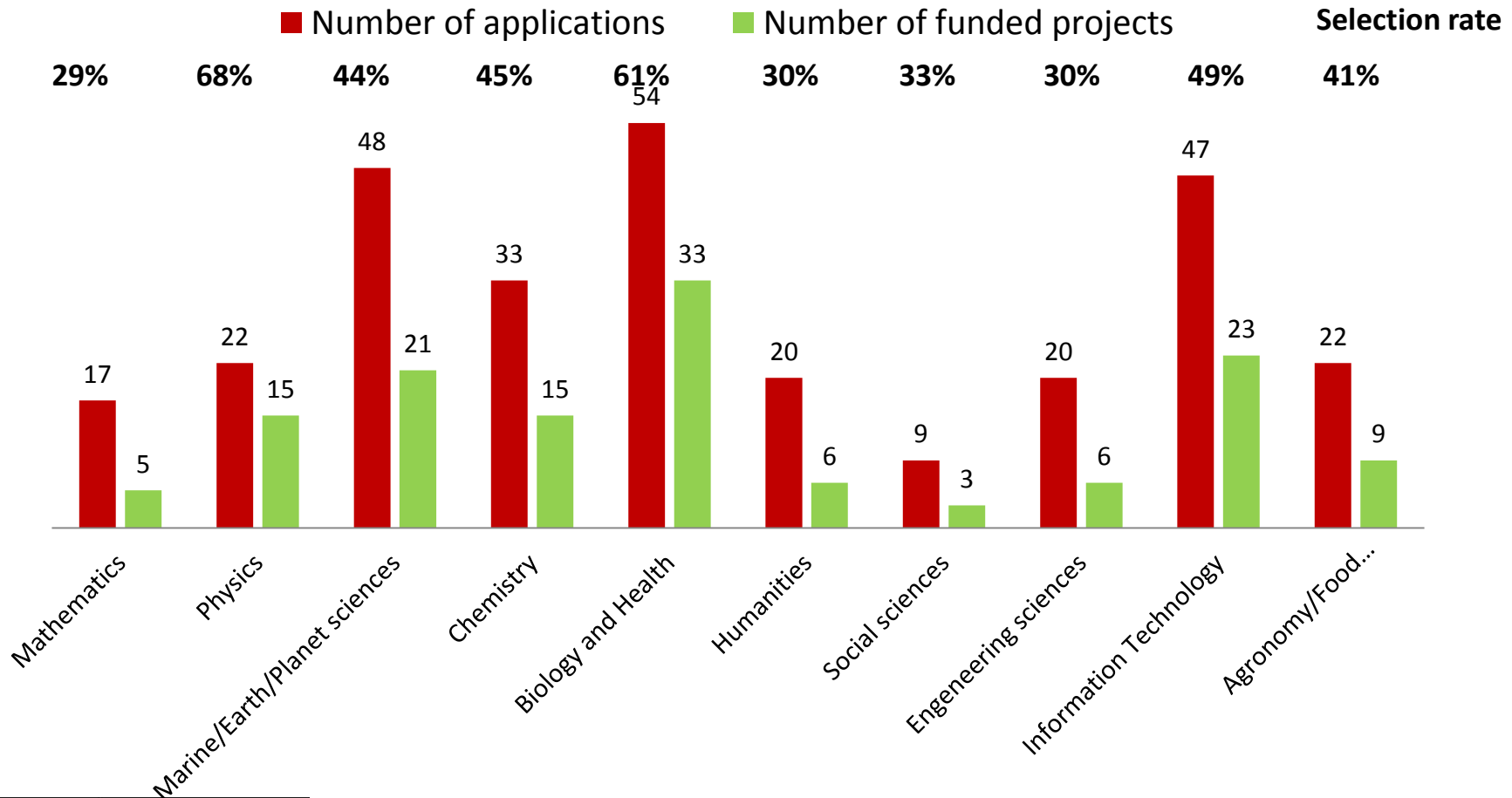
# NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2005-2015: 47 %

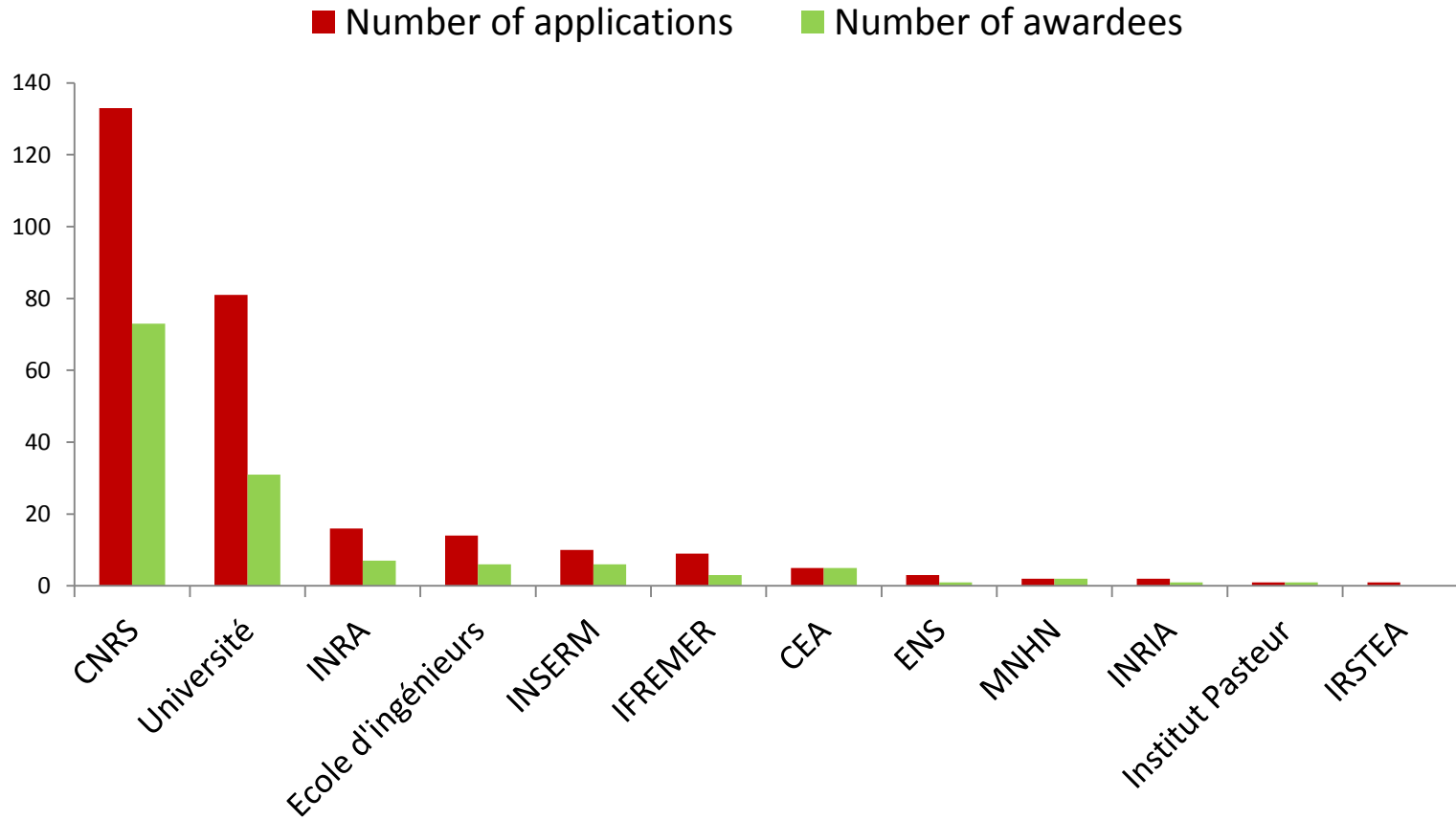


- Number of applications is fluctuant
- Number of funded participants remains constant

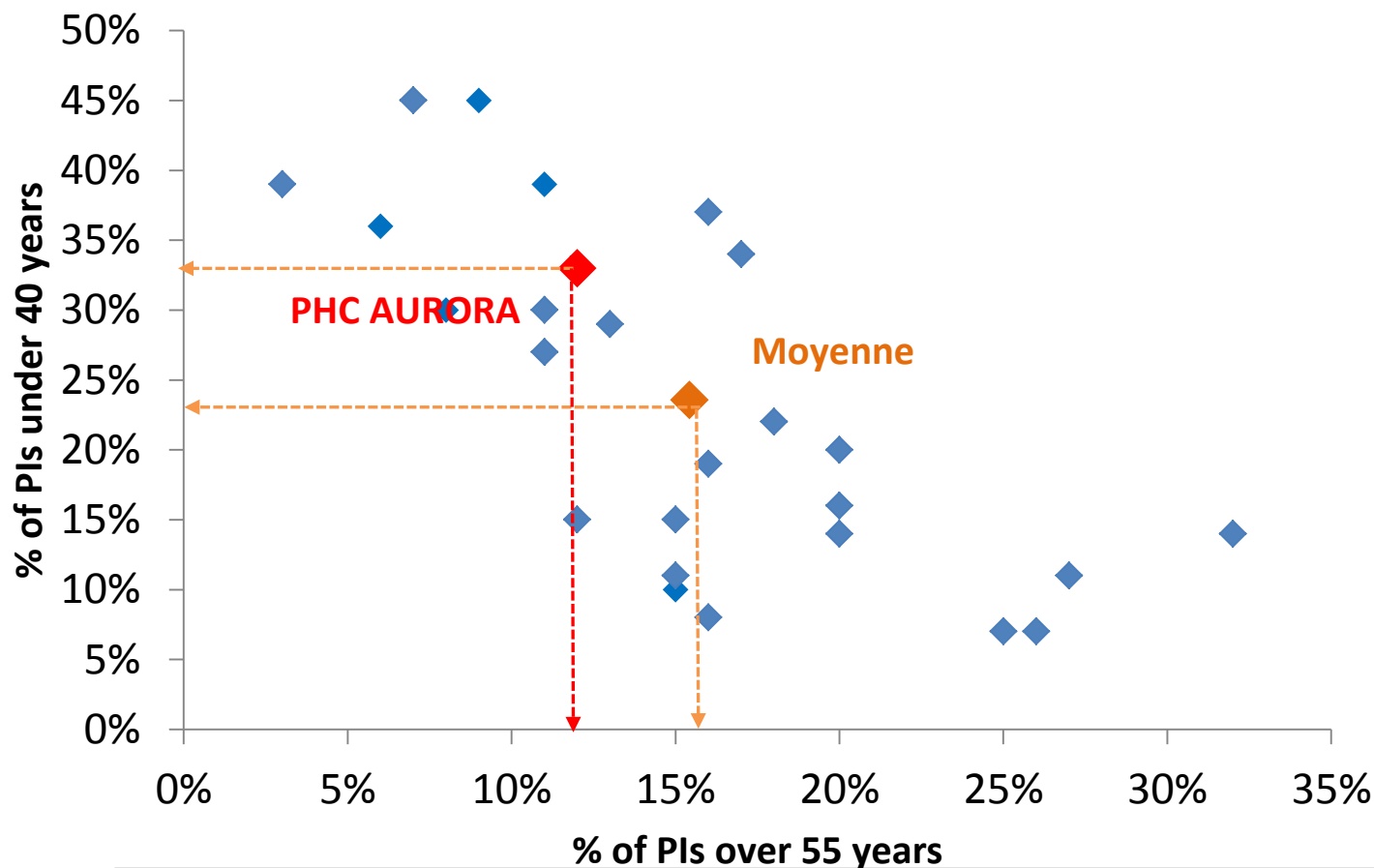
# SCIENTIFIC DOMAINS OF PROJECTS



# FRENCH PARTICIPATING INSTITUTIONS

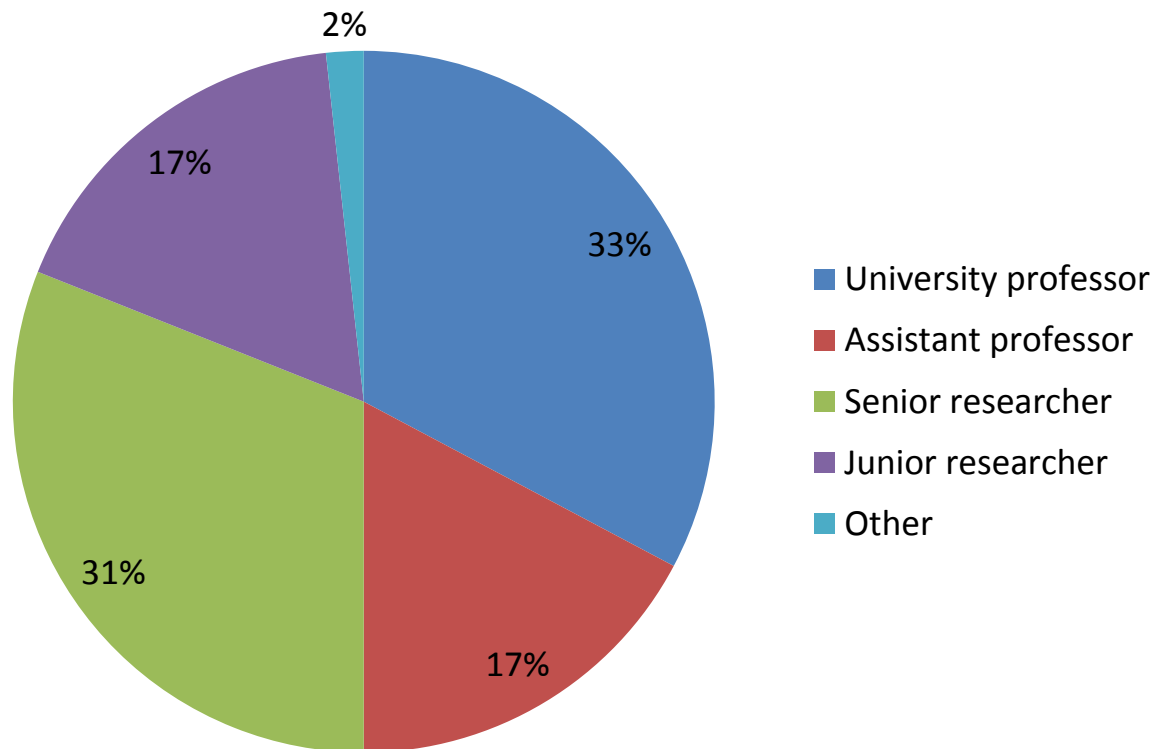


# AGE OF PRINCIPAL INVESTIGATORS (PI) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



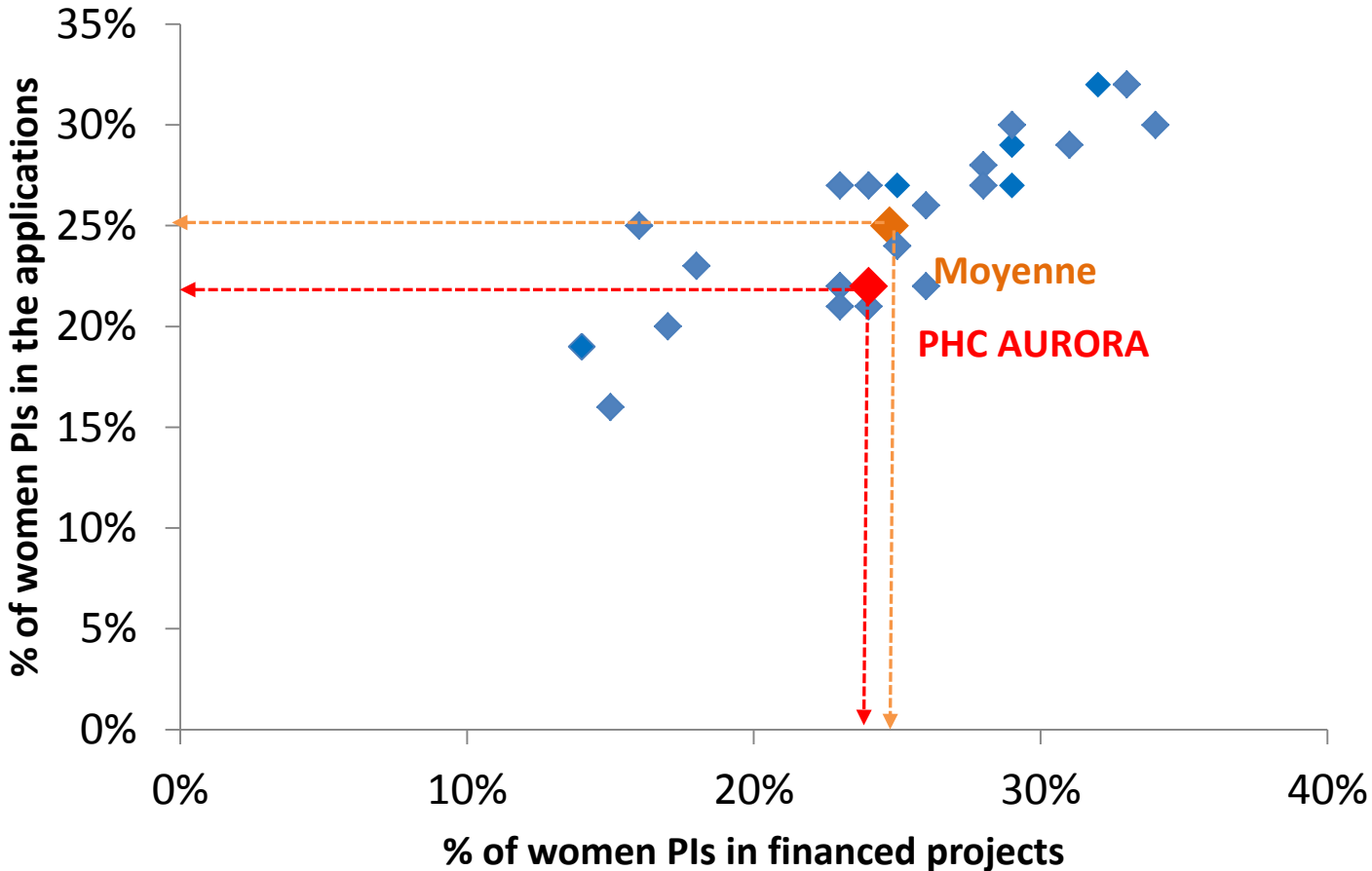
PIs under 40 years : **33% vs 24% mean**  
 PIs over 55 years : **12% vs 15% mean**  
**55% of the PIs are between 40 and 55 years**

# FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS



# IMPLICATION OF WOMEN (FRANCE)

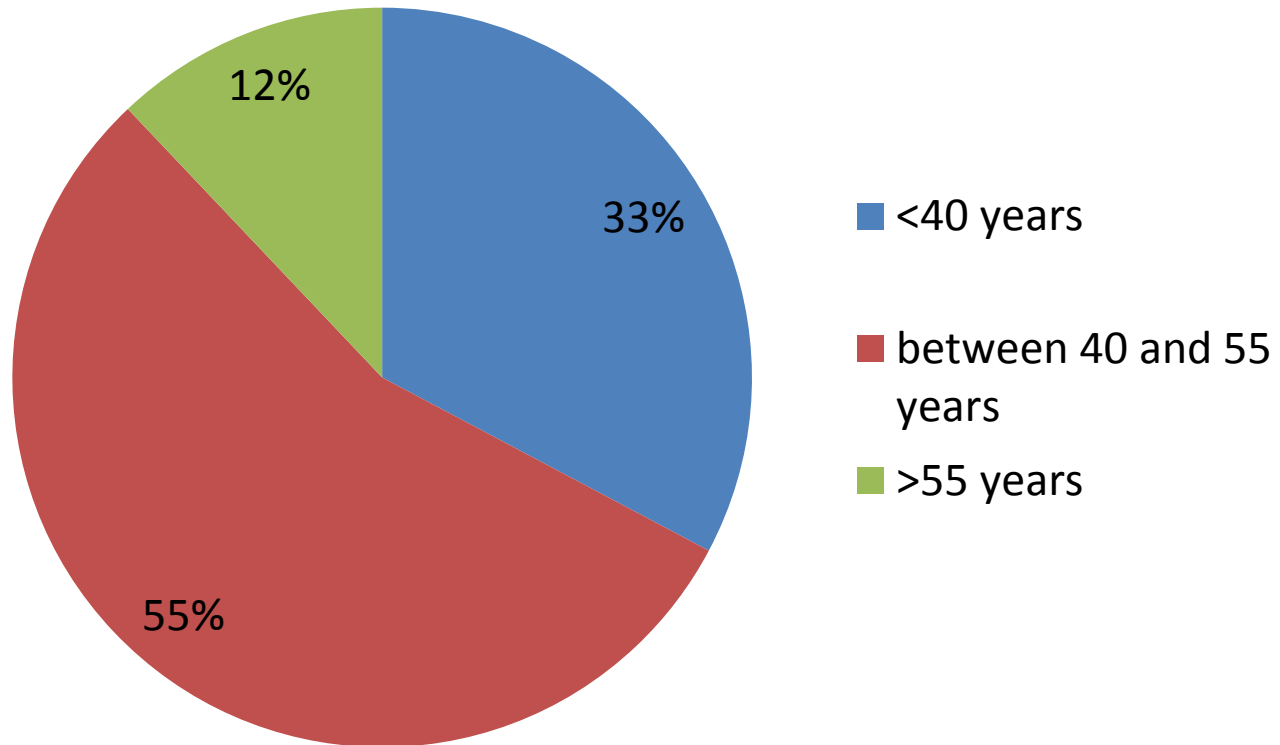
## (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



**% of women PIs in the applications : 22% vs 25% mean**  
**% of women PIs in the selected projects : 24% vs 25% mean**

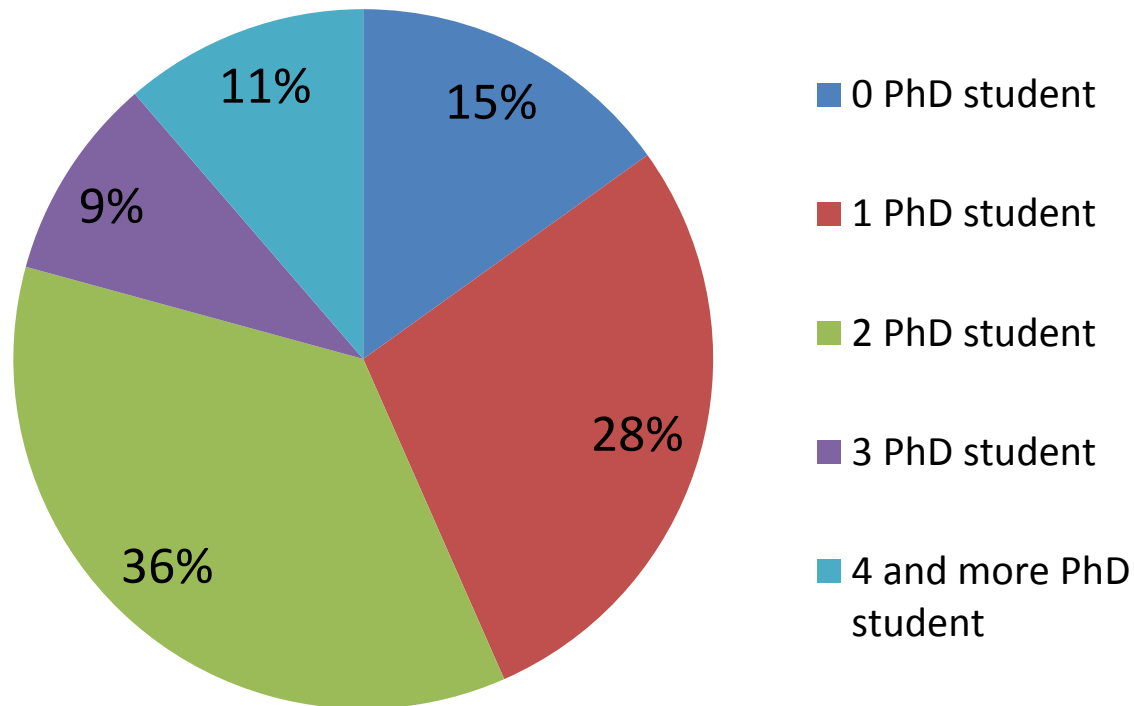
# PARTICIPATION OF FRENCH YOUNG RESEARCHERS

**33 %** of young researchers



# PARTICIPATION OF FRENCH YOUNG RESEARCHERS

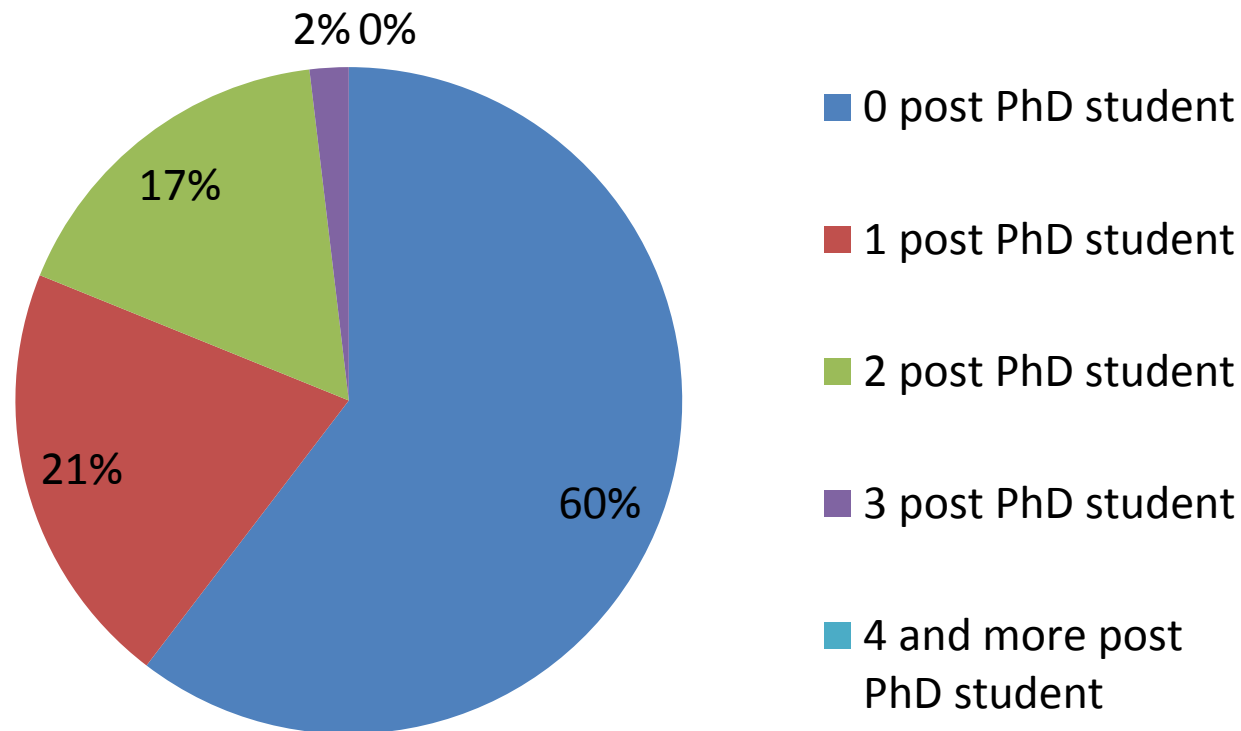
**85 %** of projects integrate PhD students



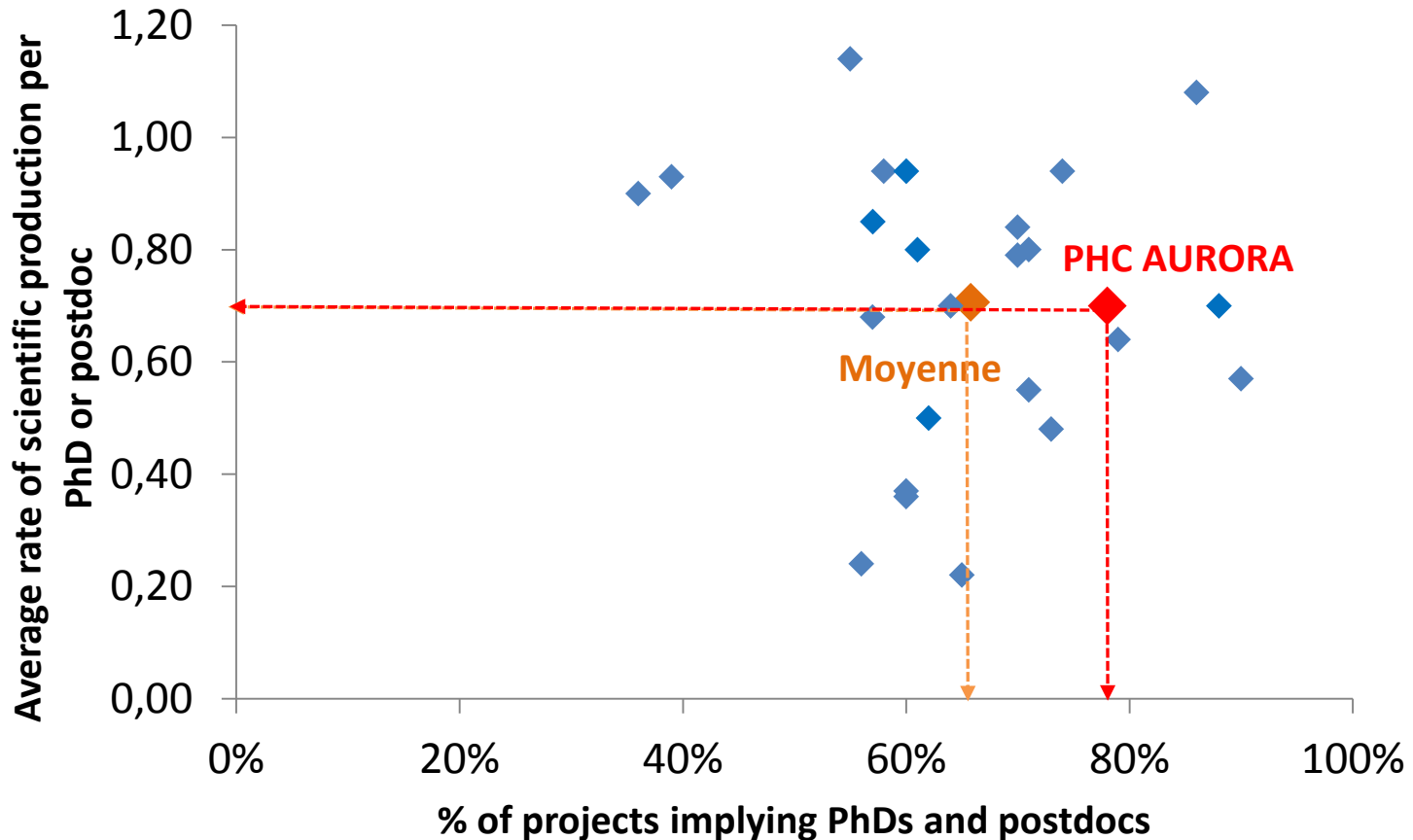


# PARTICIPATION OF FRENCH YOUNG RESEARCHERS

**40 %** of projects integrate post-doctoral researchers

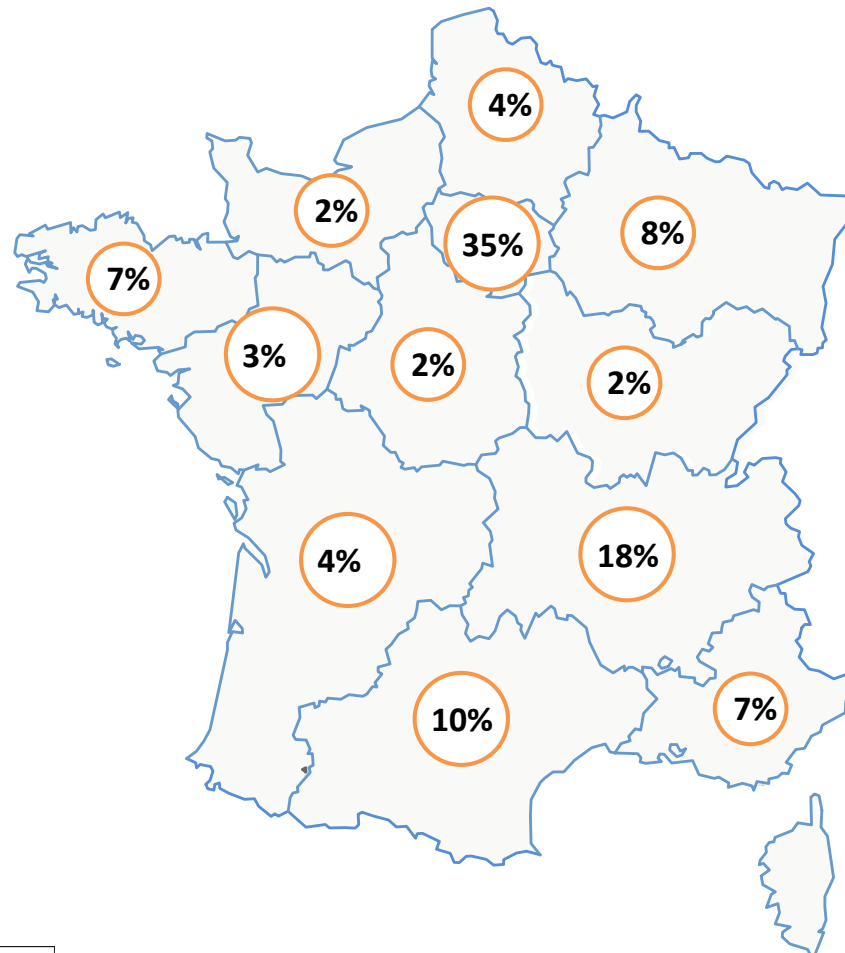


# IMPLICATION OF PhDs and Postdocs (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

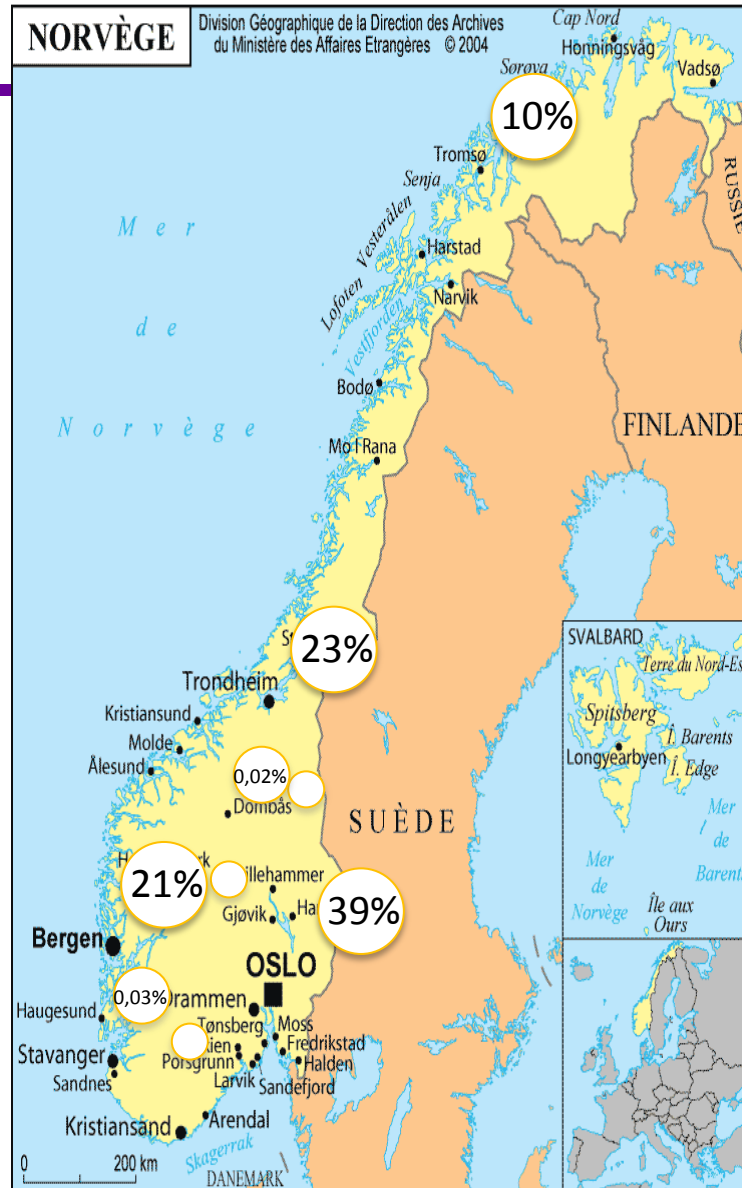


**% of projects implying PhDs and Post-doc : 78% vs 66% mean**  
**Average rate of scientific production per PhD : 0,70 vs 0,71**

# GEOGRAPHICAL DISTRIBUTION FRANCE



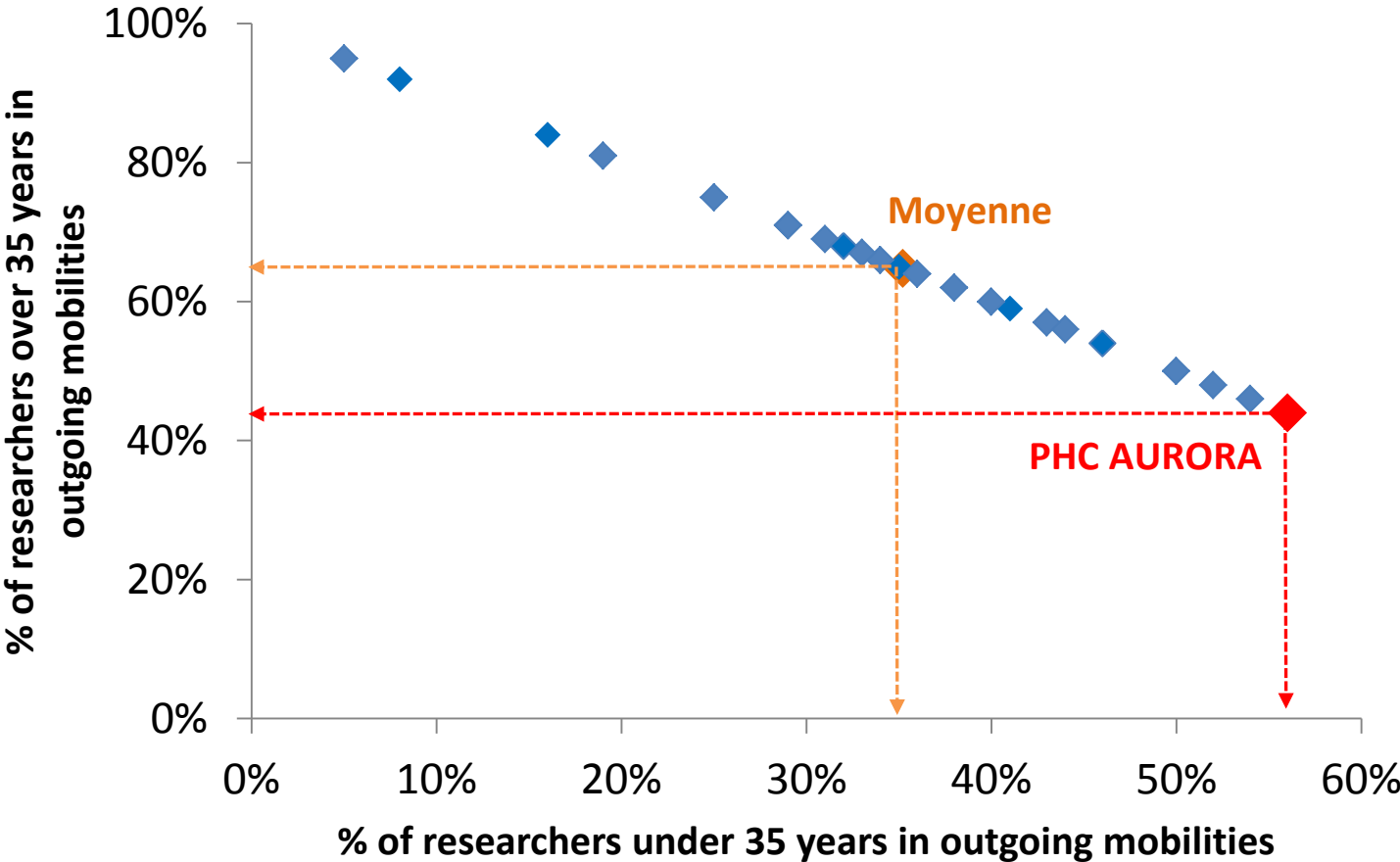
# GEOGRAPHICAL DISTRIBUTION NORWAY



# Mobility

# MOBILITY FRANCE – NORWAY

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

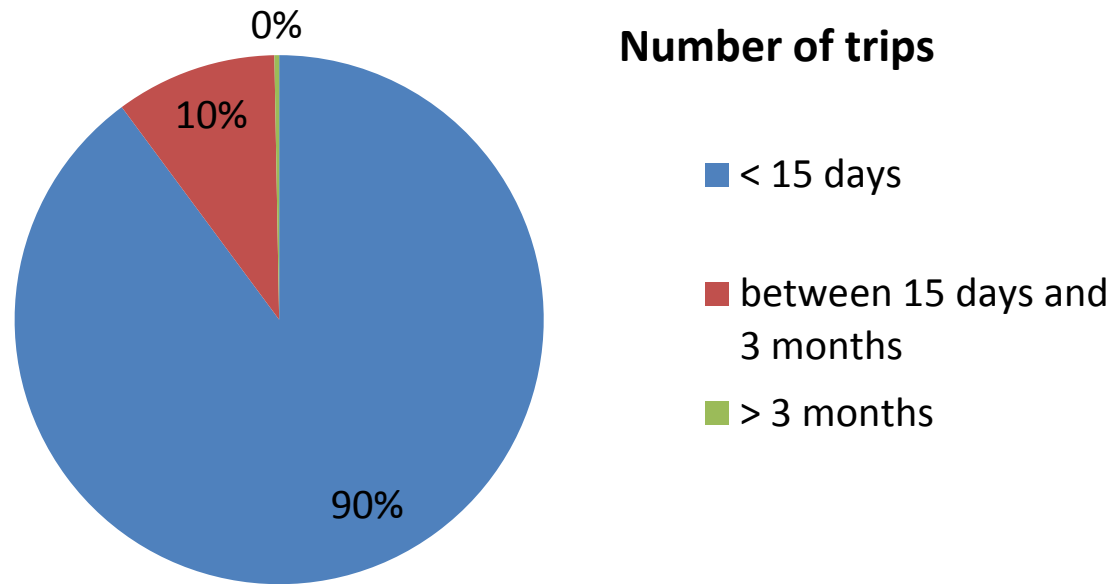


**% of french young researchers in outgoing mobilities : 56% vs 35% mean**

# MOBILITY : DURATION

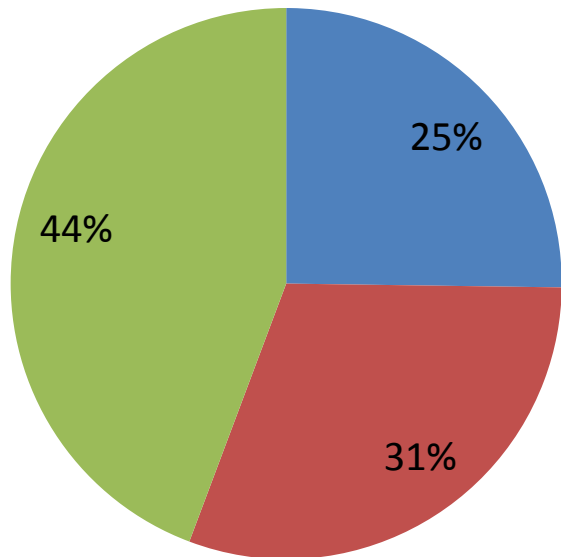
## From France to Norway

**345** trips from France to Norway (**3,4** trips / project)

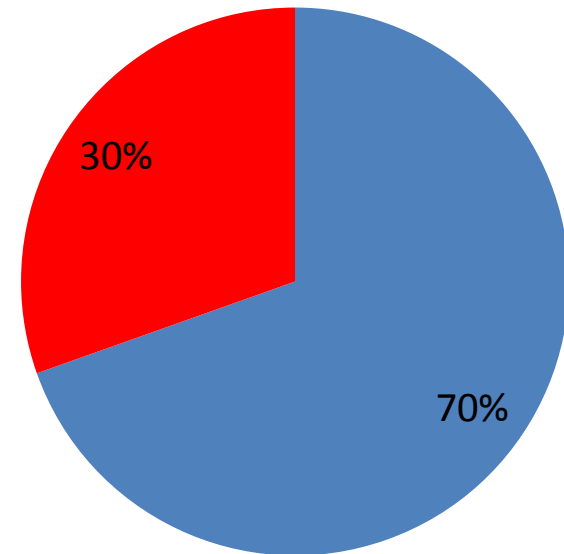


# MOBILITY – WHO'S TRAVELLING ?

## From France to Norway



- carried out by doctorants (<28 years old)
- carried out by young researchers (28<=age<=35 years old)
- carried out by permanent researchers (>35 years old)

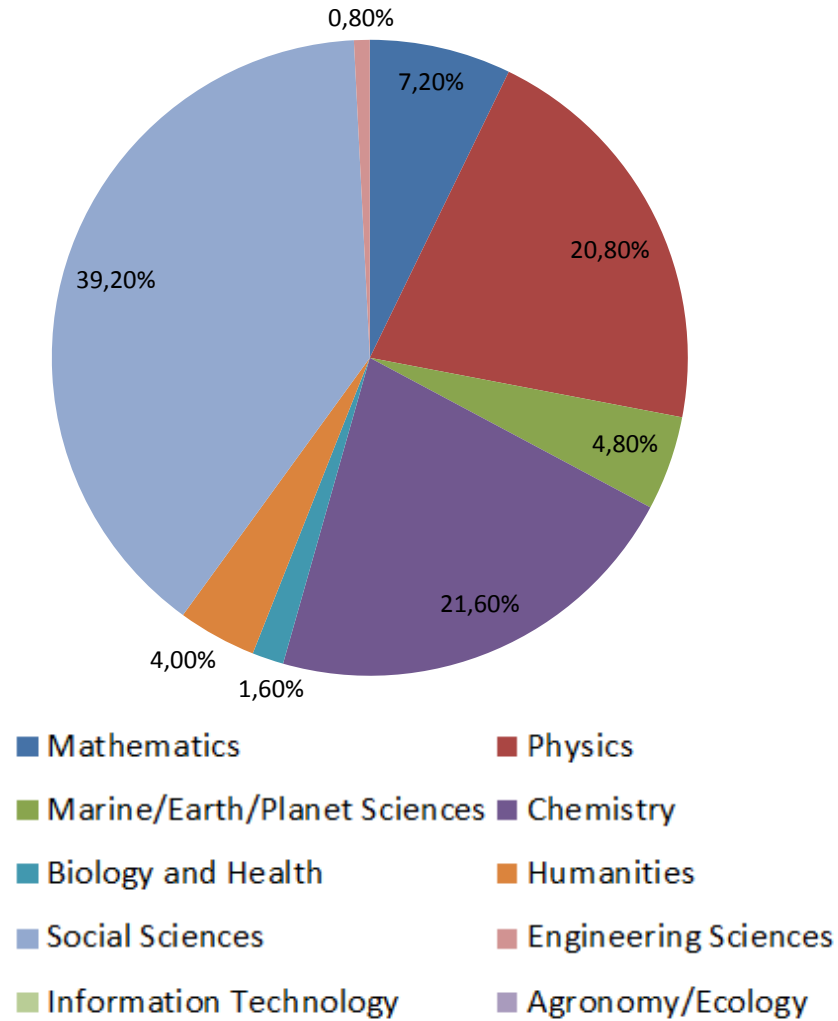


■ Men ■ Women



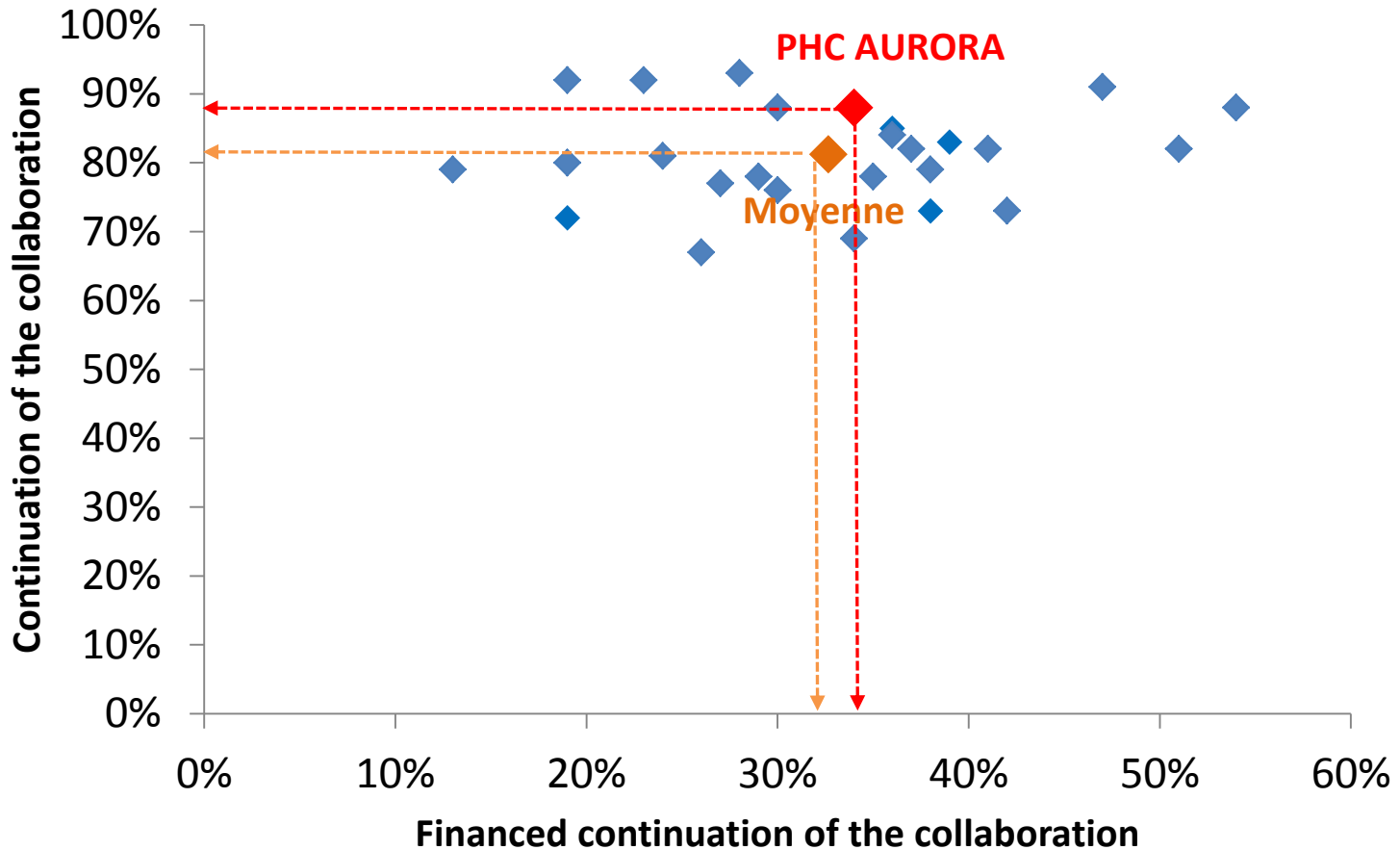
# Scientific production

# SCIENTIFIC PRODUCTION



# What happens after a AURORA project ?

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

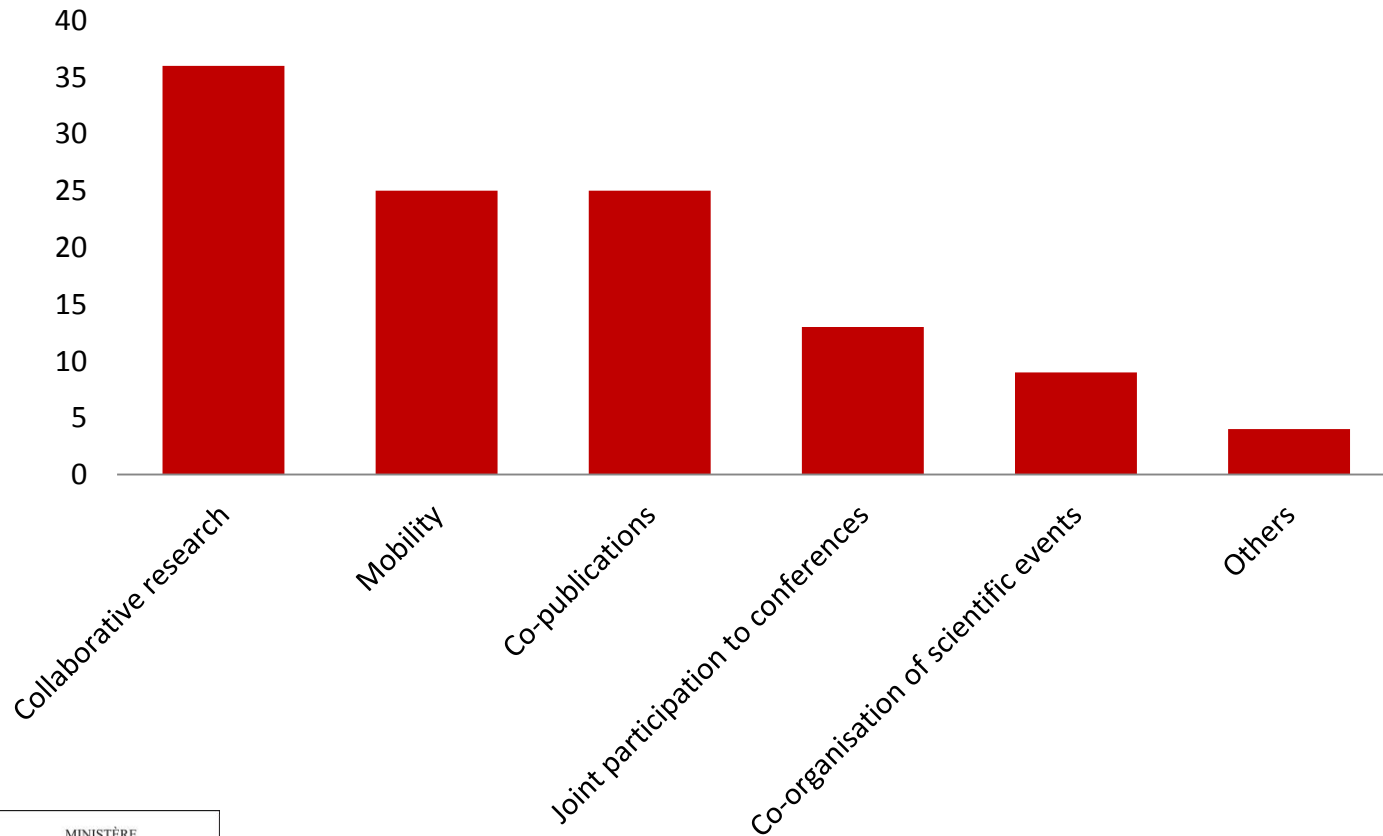


Continuation of the collaboration : **88% vs 81% mean**

Continuation of the collaboration with other sources of subvention : **34% vs 33% mean**

# CONTINUATION OF THE COLLABORATION (2/5)

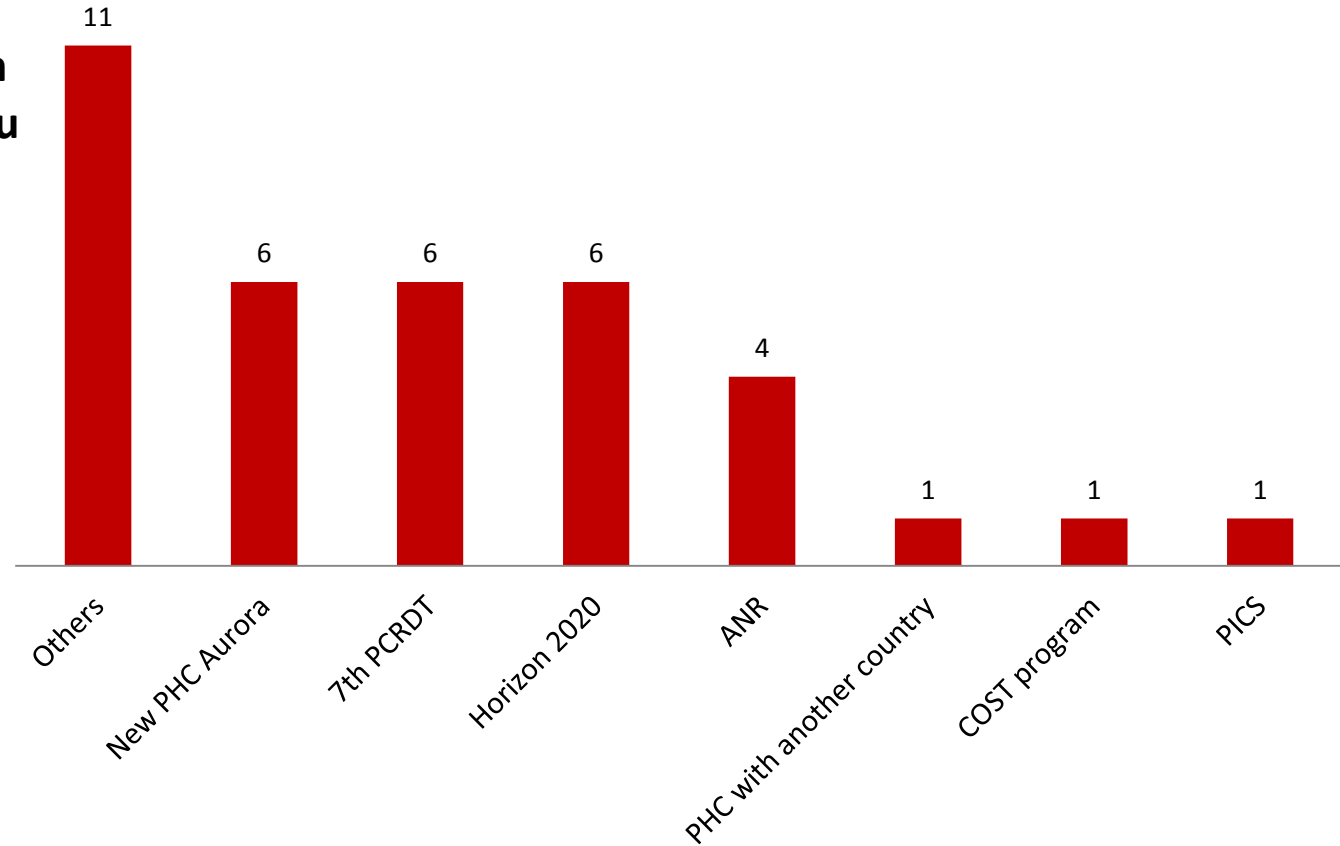
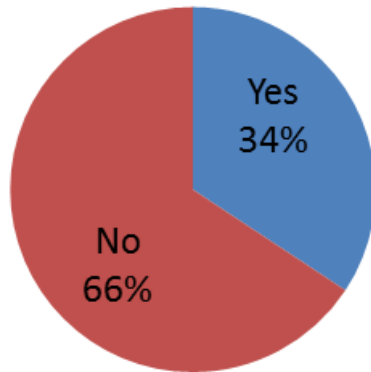
What kind of collaboration ?  
(number of collaborations)



# CONTINUATION OF THE COLLABORATION (3/5)

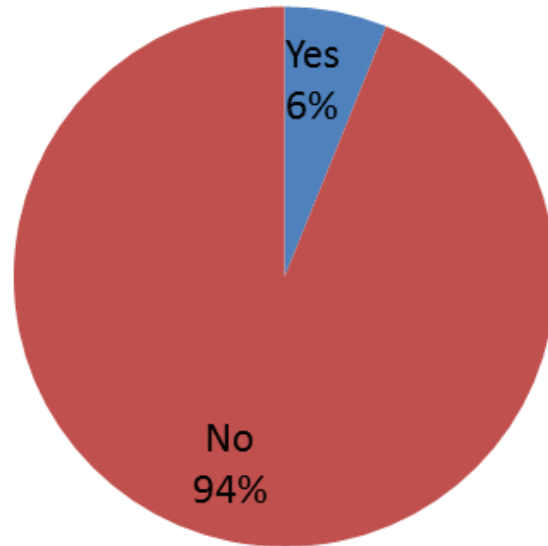
If yes, what kind of funding ? How many occurrences ?

If the collaboration continued, have you been funded ?



# CONTINUATION OF THE COLLABORATION (4/5)

**% of projects where joint structures were created on the basis of the PHC**



**Kind and number of structures**  
**1 Industrial chair (ANR : National Research Agency)**

# GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME

collaboration

scientifiques  
échanges  
projets  
financement  
bonne  
démarrer  
initier plus Norvège  
impression, collègues  
norvégiens



# PRELIMINARY CONCLUSIONS

**Preliminary conclusions suggest that the funding scheme is efficiently contributing to creating new fruitful and long term cooperations, involving young researchers, despite the relatively low financial support, which is to be considered as “seed money”**

# CONTACTS

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