



**MINISTÈRE  
DE L'ENSEIGNEMENT  
SUPÉRIEUR  
ET DE LA RECHERCHE**

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# **FRANCE – ISRAEL PHC MAIMONIDE**

## **Update of the scientific impact of the programme (2005-2021)**

### **MESR-DAEI / MEAE**

## **2023**

# GENERAL PRESENTATION OF THE PROGRAMME

**Creation : 2002**

**Maximum number of selected projects per year : 6**

**Duration of the projects : 2 years**

**Maximum annual budget per country: 480 K€**

**From 2010-2022:**

**287** applications submitted

**79** projects funded

## Campus France

- Information about the PHC Maimonide programme applications (2010-2022 period)
- List of mobilities (2012-2022 period)

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

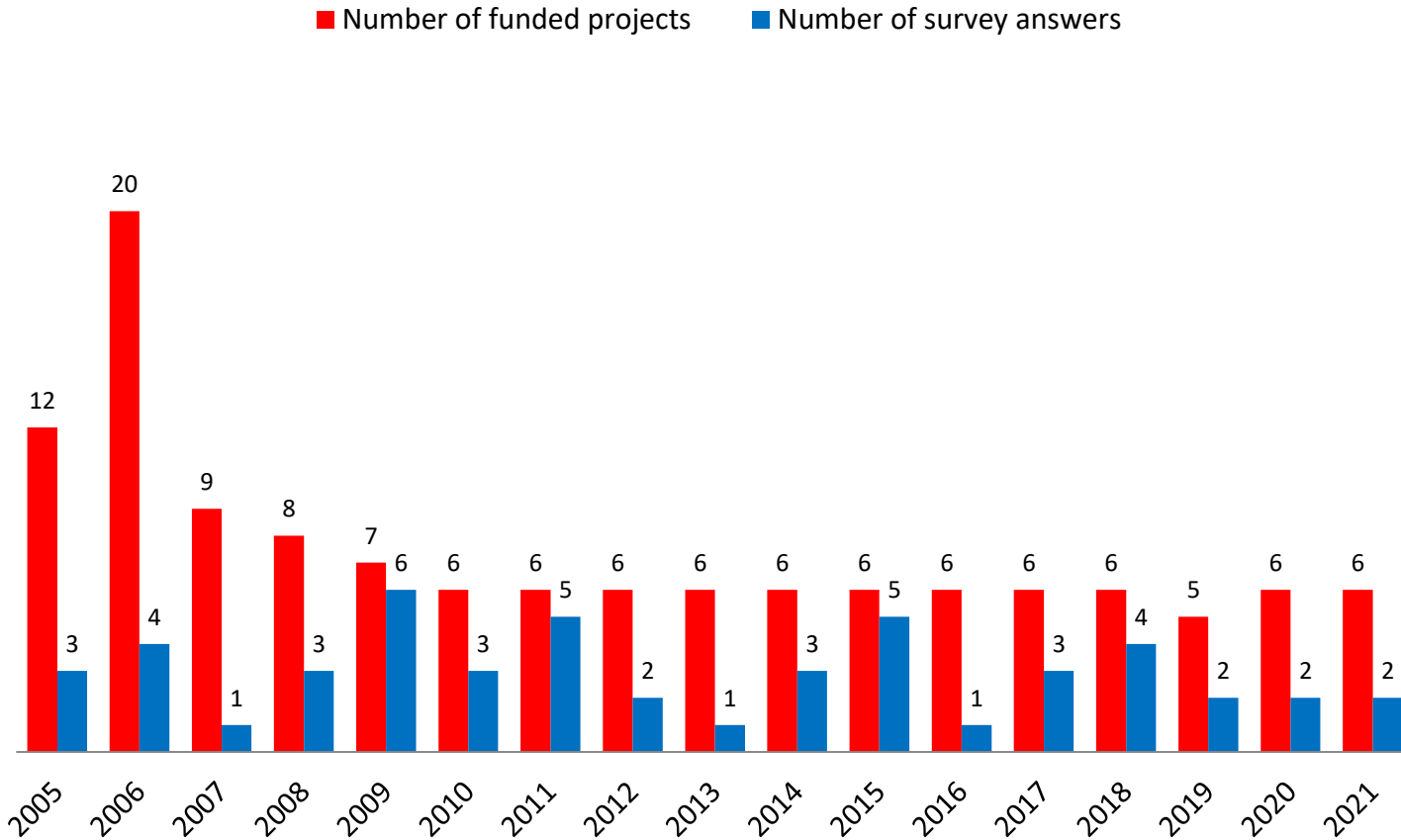
- Target : Principal Investigators of selected projects between 2005 and 2021
- Survey 1 duration : **March and April 2016** (2005-2014 period)
- Survey 2 duration : **June and July 2023** (2015-2021 period)
- **39%** mean response ratio *(50 respondents for 127 funded projects)*

## **Survey content :**

- General information
- Scientific production
- Involvement of young researchers
- Post project
- General opinion on the programme

# ANSWERS TO THE SURVEYS

Average response rate to the surveys : **39 % (50 answers)**





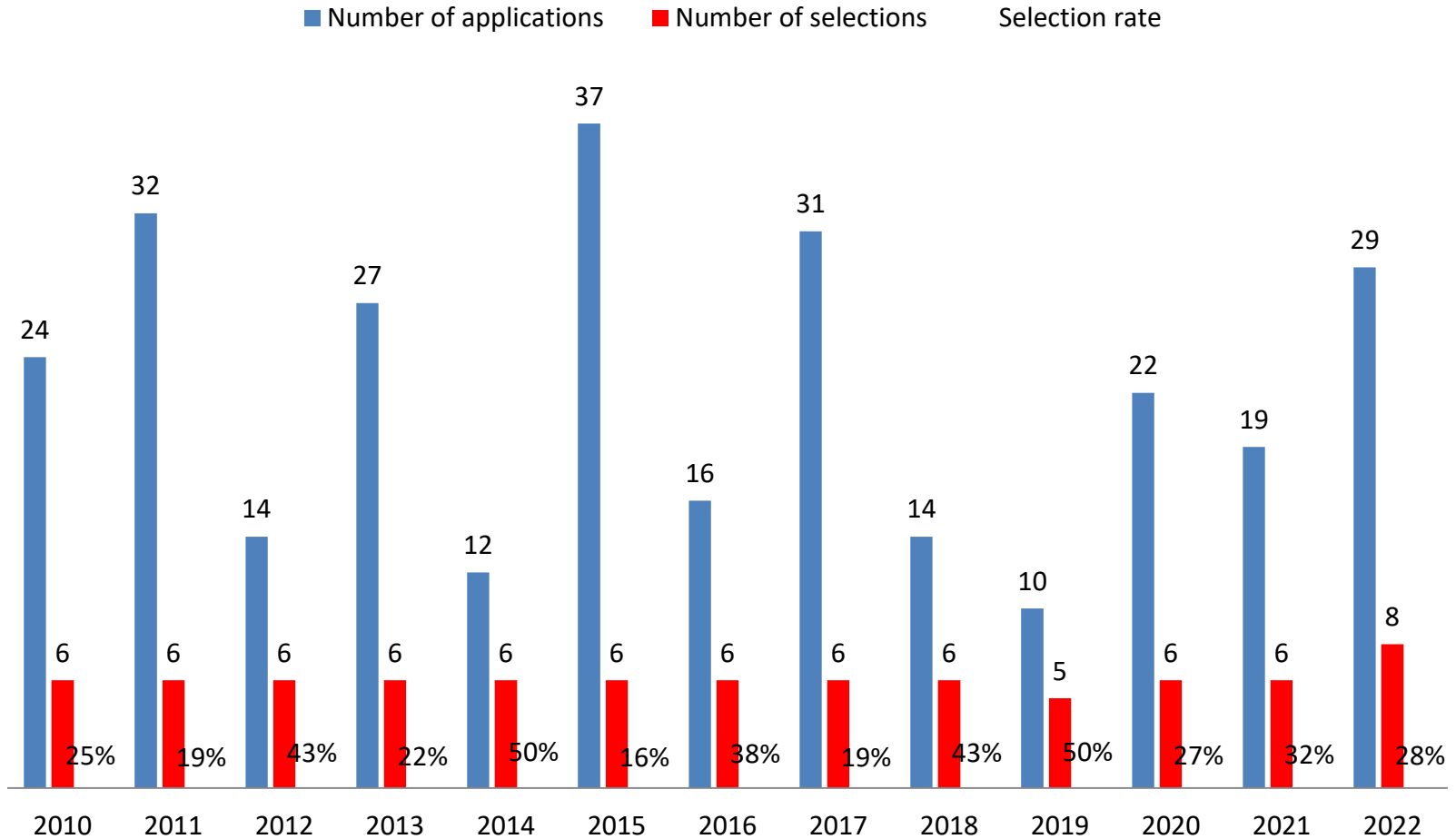
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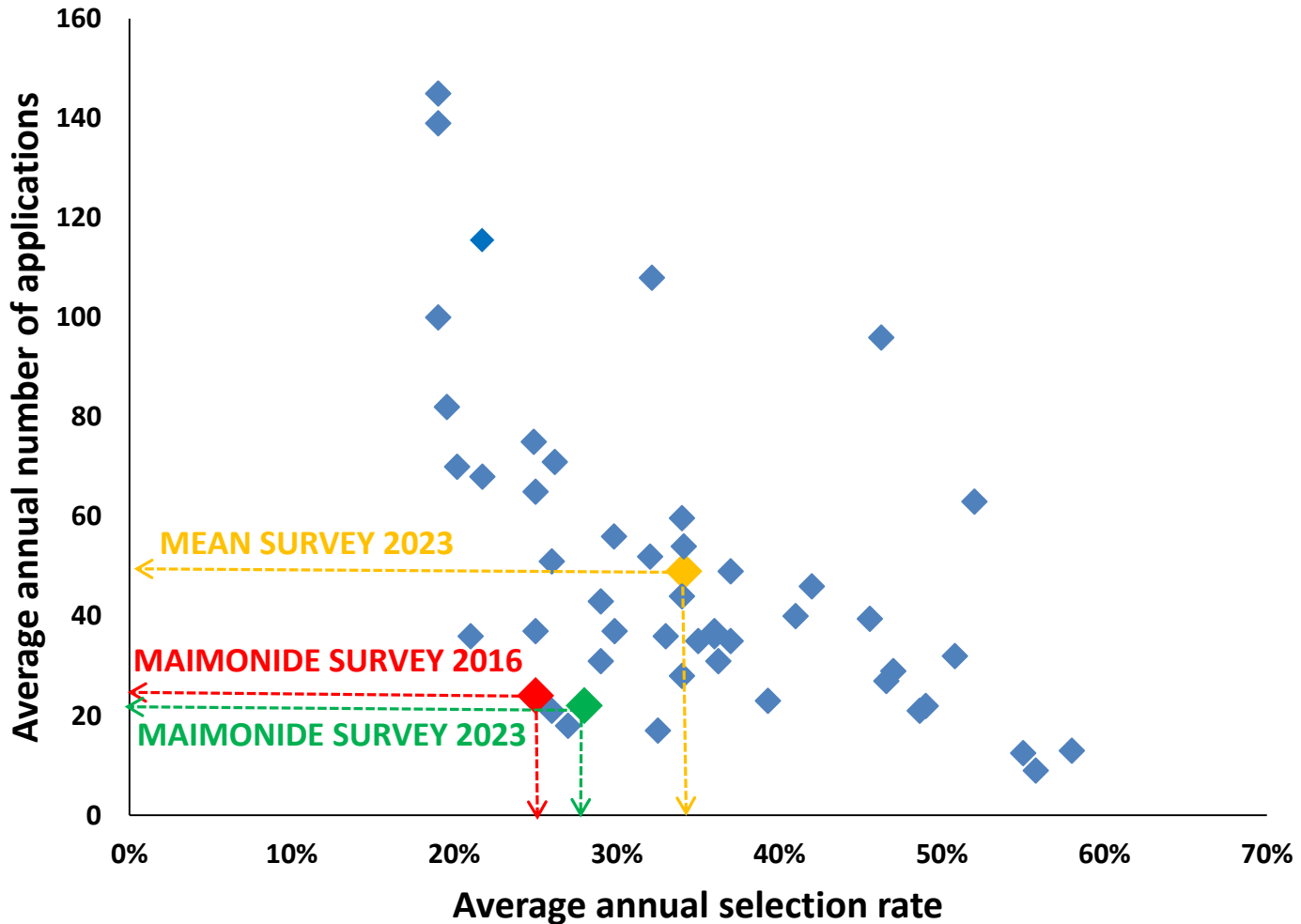
# 2005-2021 KEY POINTS

# SUCCESS RATE

Average selection rate from 2010-2022: **28 %**



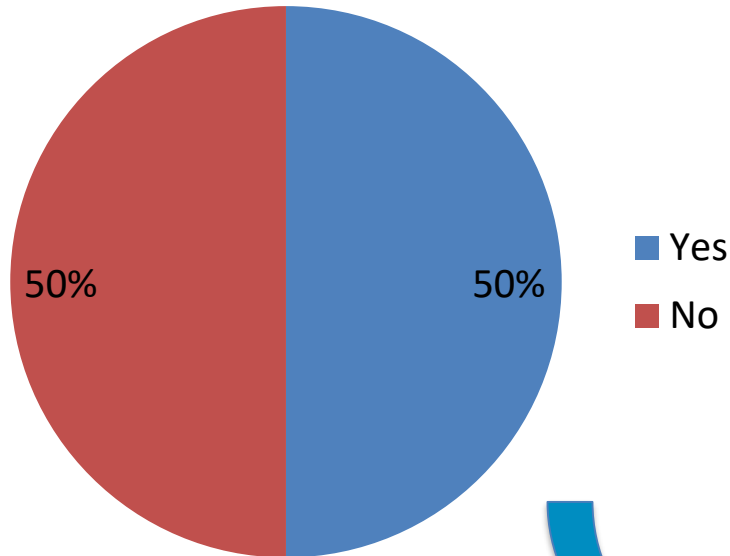
# NUMBER OF APPLICATIONS VS SELECTION RATE



Survey 2016 : 26 programmes  
Survey 2023 : 48 programmes

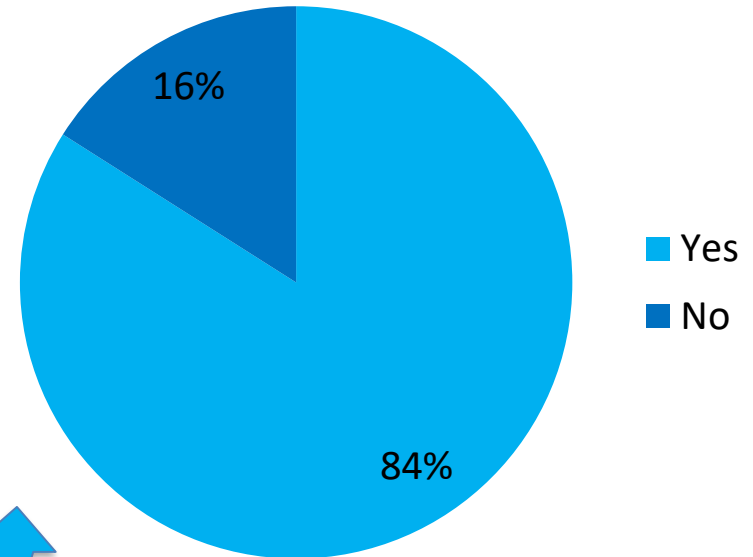
# BEFORE THE PHC MAIMONIDE PROJECT (1/2)

**Did you already cooperate with Israel in the past ?**



**Data from 50 responses**

**If yes, was it with the same partner?**



**Data from 25 responses**



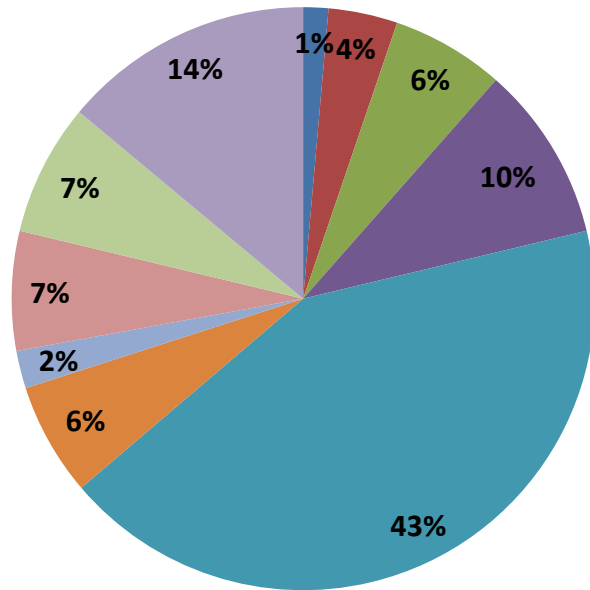
# BEFORE THE PHC MAIMONIDE PROJECT (2/2)

With which scientific collaboration program ?	
European project	40%
Programme MAIMONIDE	10%
INRIA Associated Team	10%
CNRS International Research Project	10%
CNRS International Research Laboratory	10%
Other	20%

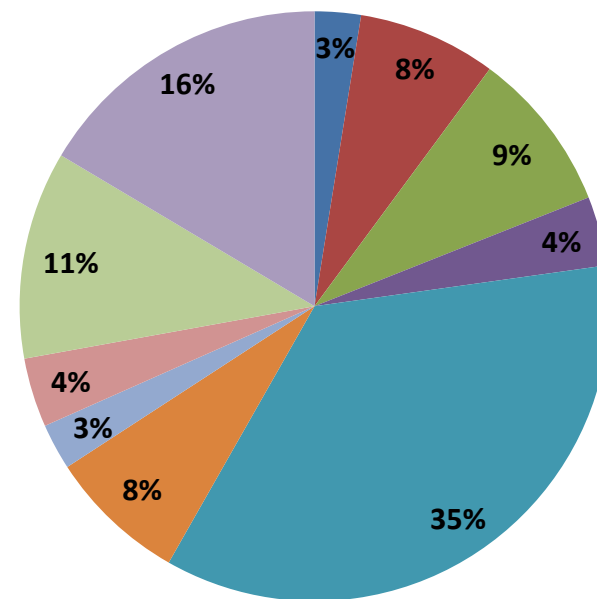
Data from 10 responses

# SCIENTIFIC DOMAINS OF PROJECTS

Number of applications : **287**



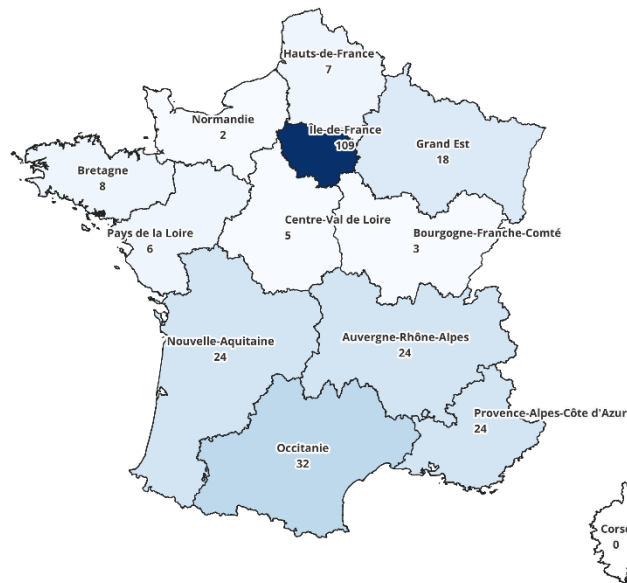
Number of funded projects : **79**



- |   |   |
|---|---|
| <span style="color: #0056b3;">■</span> Mathematics                  | <span style="color: #a52a2a;">■</span> Physics              |
| <span style="color: #70ad47;">■</span> Marine/Earth/Planet Sciences | <span style="color: #483d8b;">■</span> Chemistry            |
| <span style="color: #00838f;">■</span> Biology and Health           | <span style="color: #e69a00;">■</span> Humanities           |
| <span style="color: #6495ed;">■</span> Social Sciences              | <span style="color: #c06060;">■</span> Engineering Sciences |
| <span style="color: #90ee90;">■</span> Information Technology       | <span style="color: #9370db;">■</span> Agronomy/Ecology     |

# REGIONAL DISTRIBUTION OF SELECTED PROJECTS

## Programme Maimonide, Israel Regional numbers of applications and selections 2010-2022



Number of applications  
(all domains)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA



Number of selections  
(all domains)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA

The region Ile de France is the main contributor both for applications and selections

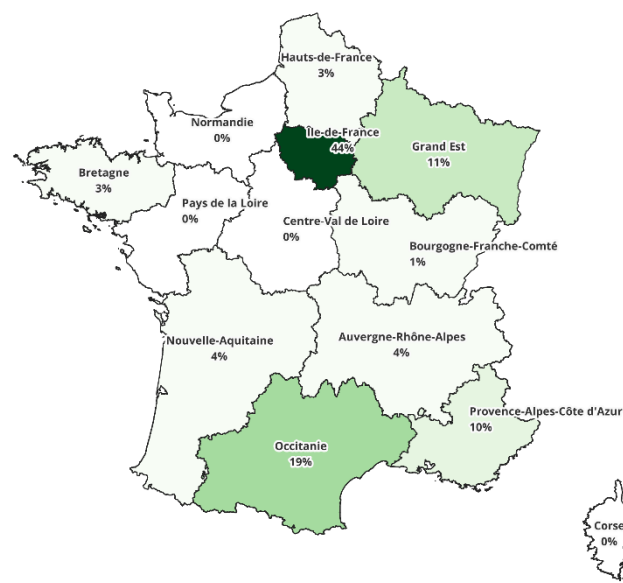
# REGIONAL DISTRIBUTION OF SELECTED PROJECTS

## Programme Maimonide, Israel Regional percentages of applications and selections 2010-2022



Source: Analyse d'impact PHC Maimonide, KSTOTSEVA

**% of applications  
(all domains)**



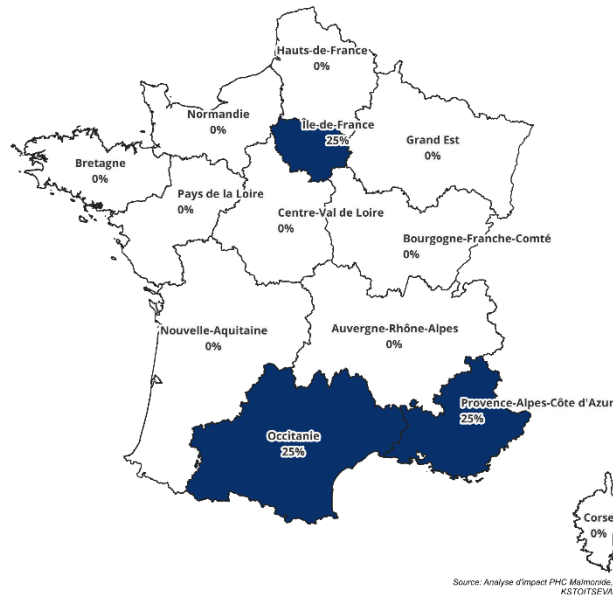
Source: Analyse d'impact PHC Maimonide, KSTOTSEVA

**% of selections  
(all domains)**

**The region Ile de France is the main contributor both for applications and selections**

# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Mathematics 2010-2022*



% of applications  
(DS1)



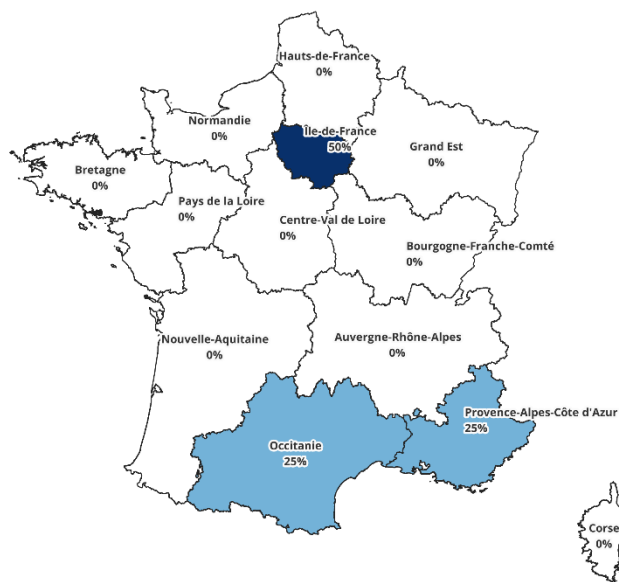
% of selections  
(DS1)

Occitanie and Guadeloupe (not shown) share 50% of selections each

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

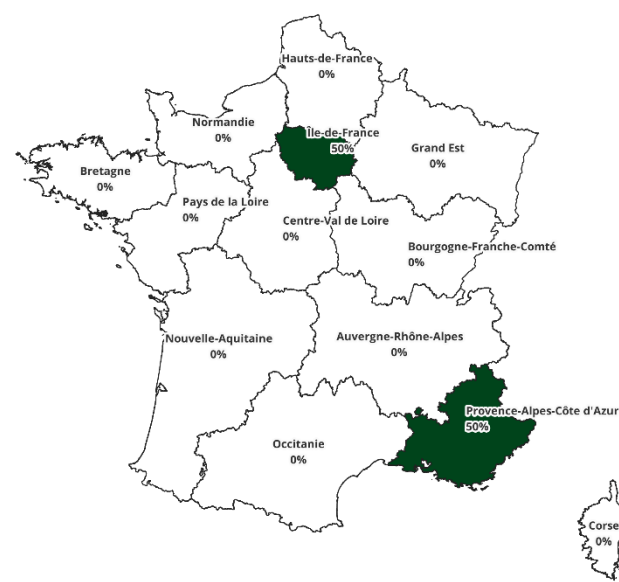
# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Physics 2010-2022*



% of applications  
(DS2)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA



% of selections  
(DS2)

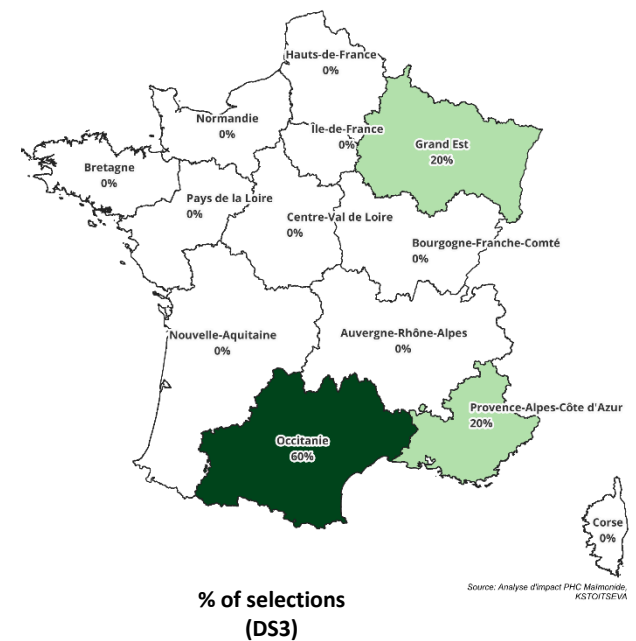
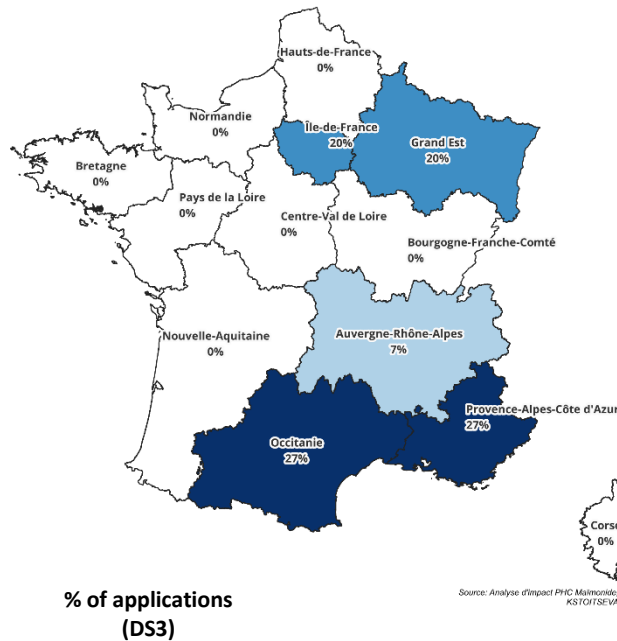
Source: Analyse d'impact PHC Maimonide, KSTOITSEVA

**Île de France and Occitanie share 50% of selections each**

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Marine, Earth, Planet sciences 2010-2022*

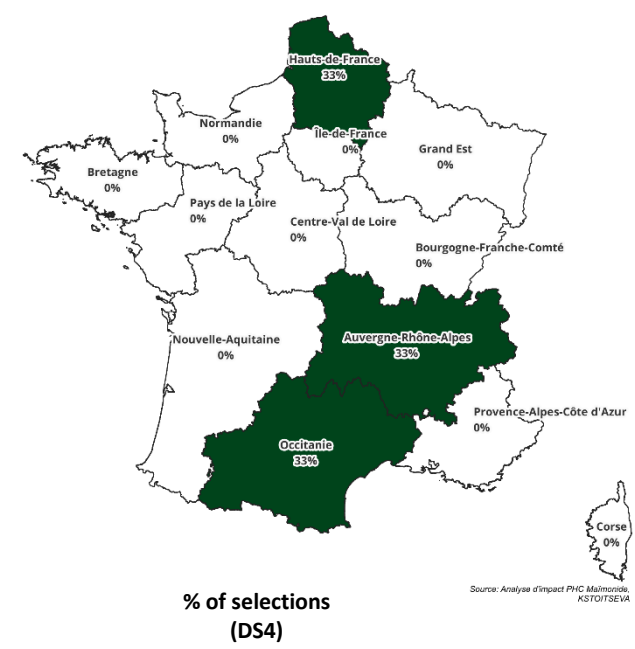
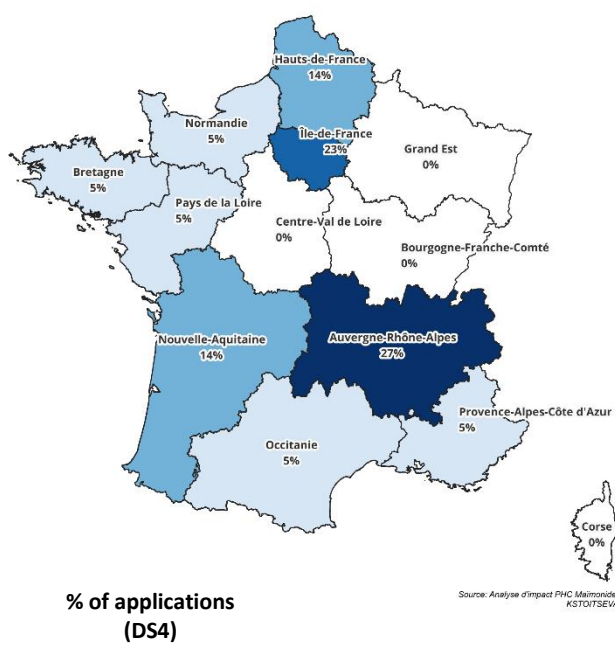


Three main regions for the selections : Occitanie (60%), Grand Est et Provence-Alpes-Côte d'Azur (20%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Chemistry 2010-2022*



Three regions share the selections : Auvergne Rhône Alpes, Hauts de France and Occitanie (33%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**



# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Biology and Health 2010-2022*



% of applications (DS5)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA



% of selections (DS5)

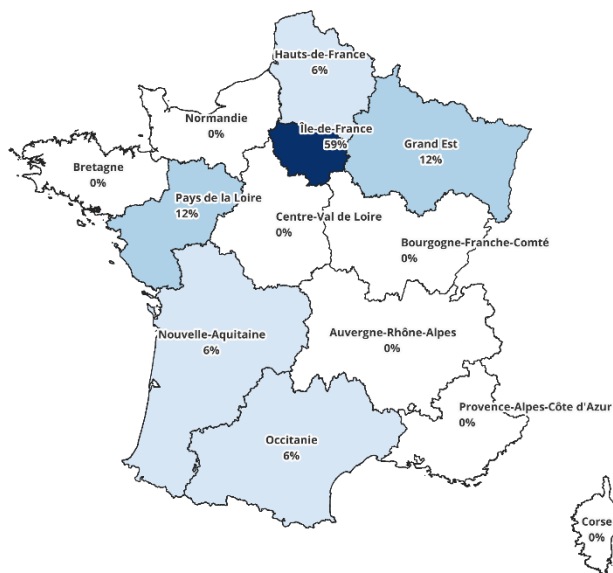
Source: Analyse d'impact PHC Maimonide, KSTOITSEVA

The region Ile de France is the main contributor both for applications (50%) and selections (61%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

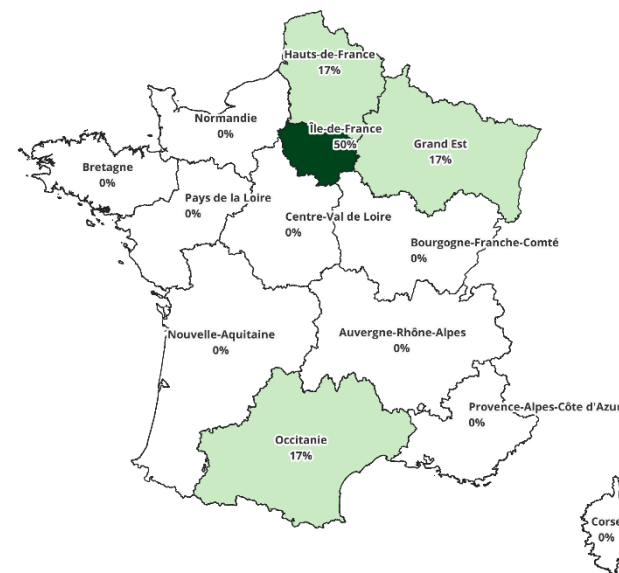
# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Humanities 2010-2022*



% of applications  
(DS6)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA



% of selections  
(DS6)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA

The region Ile de France is the main contributor both for applications (59%) and selections (50%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Social sciences 2010-2022*



% of applications  
(DS7)

Source: Analyse d'impact PFC Maimonide, KSTOITSEVA



% of selections  
(DS7)

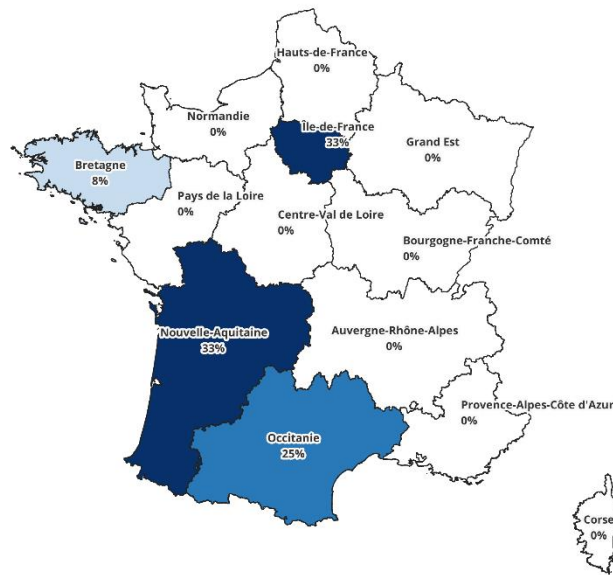
Source: Analyse d'impact PFC Maimonide, KSTOITSEVA

The region Ile de France is the main contributor both for applications (83%) and selections (100%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

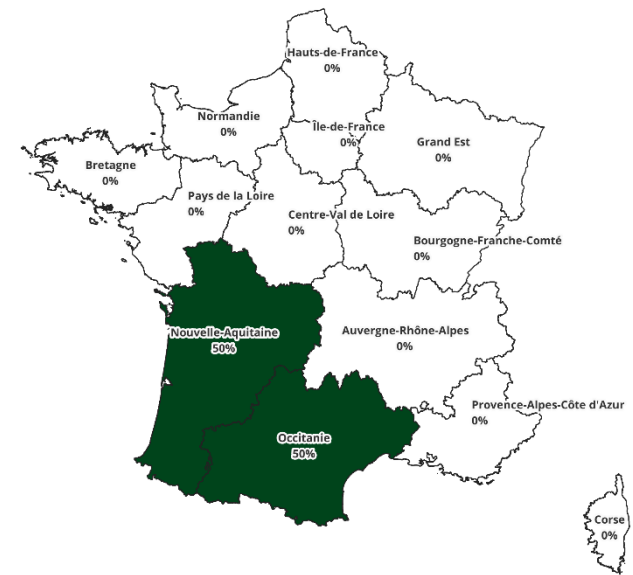
# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Engineering sciences 2010-2022*



% of applications  
(DS8)

Source: Analyse d'impact PHC Maimonide, KSTOITSEVA



% of selections  
(DS8)

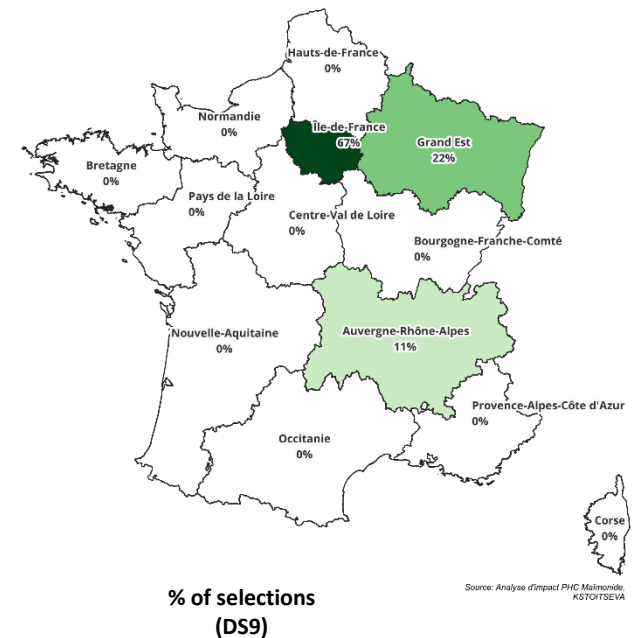
Source: Analyse d'impact PHC Maimonide, KSTOITSEVA

Two regions share the selections : Nouvelle Aquitaine and Occitanie (50%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections *Information technology 2010-2022*

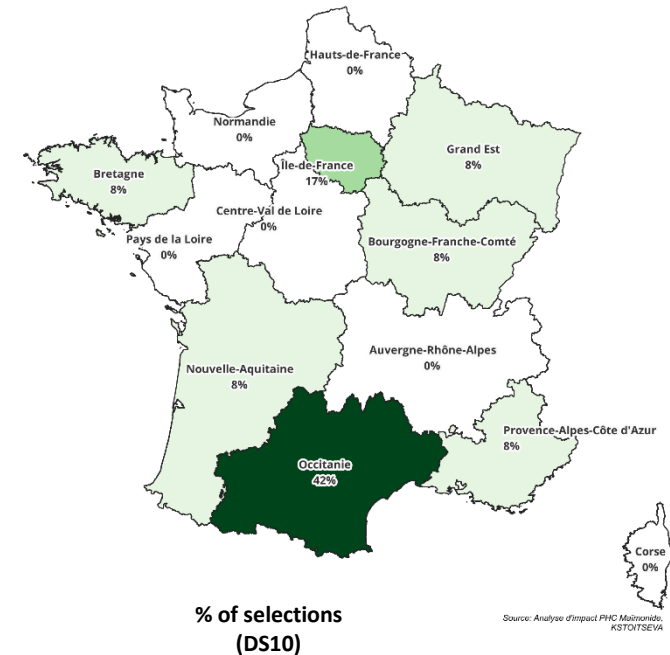
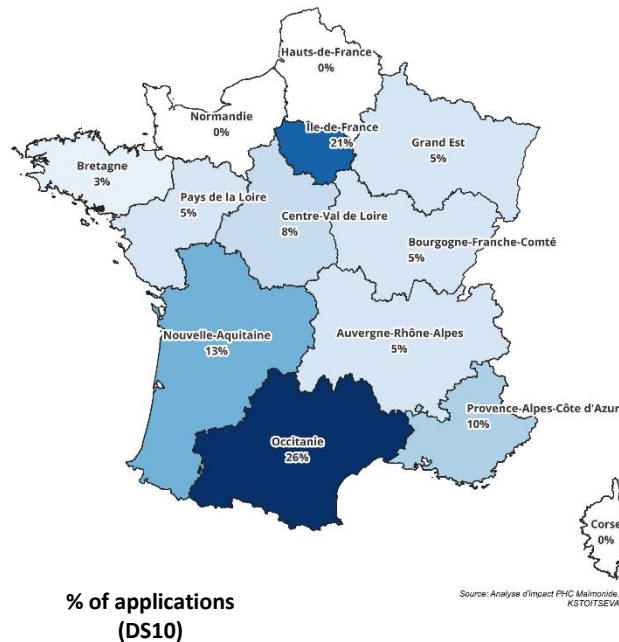


The region Ile de France is the main contributor both for applications (48%) and selections (67%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

# SCIENTIFIC DOMAINS : REGIONAL DISTRIBUTION

## Programme Maimonide, Israel Regional percentages of applications and selections Agronomy/Ecology 2010-2022



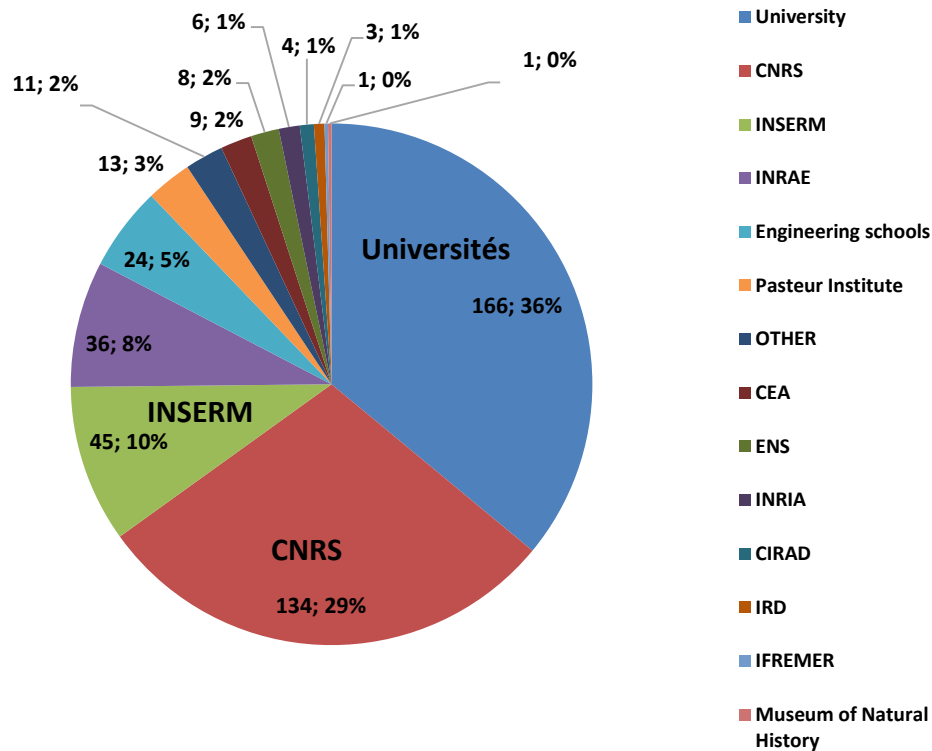
The region Occitanie is the main contributor both for applications (26%) and selections (42%)

**% OF REGIONAL APPLICATIONS/SELECTIONS FOR EACH SCIENTIFIC DOMAIN AS COMPARED TO THE TOTAL NUMBER OF APPLICATIONS/SELECTIONS IN THE SCIENTIFIC DOMAIN**

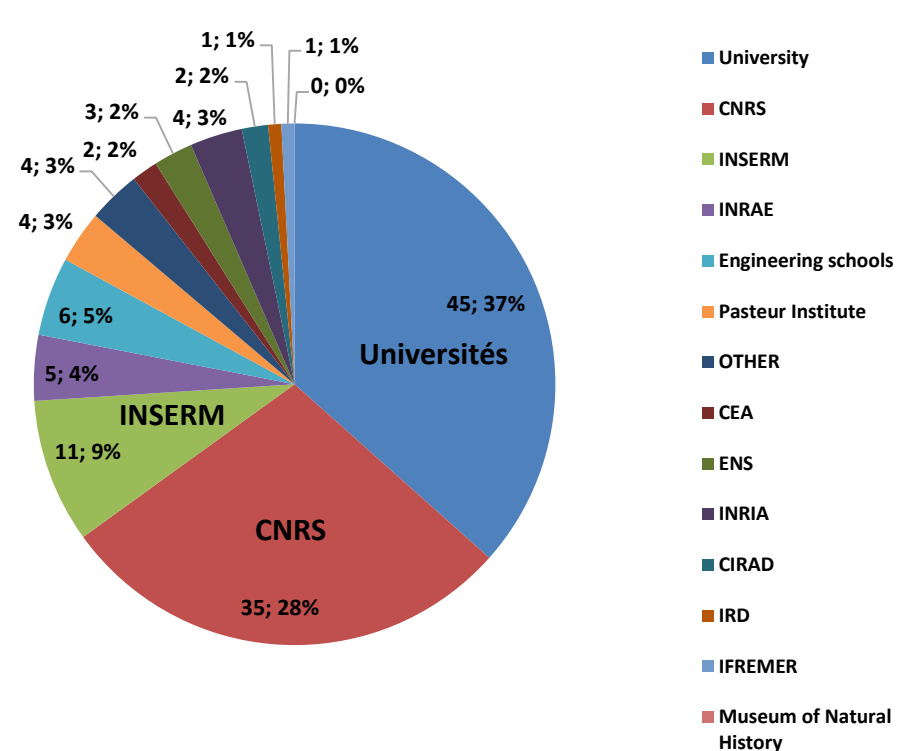
# FRENCH PARTICIPATING INSTITUTIONS

## (DATA FROM CAMPUS FRANCE)

Applications by Institutions



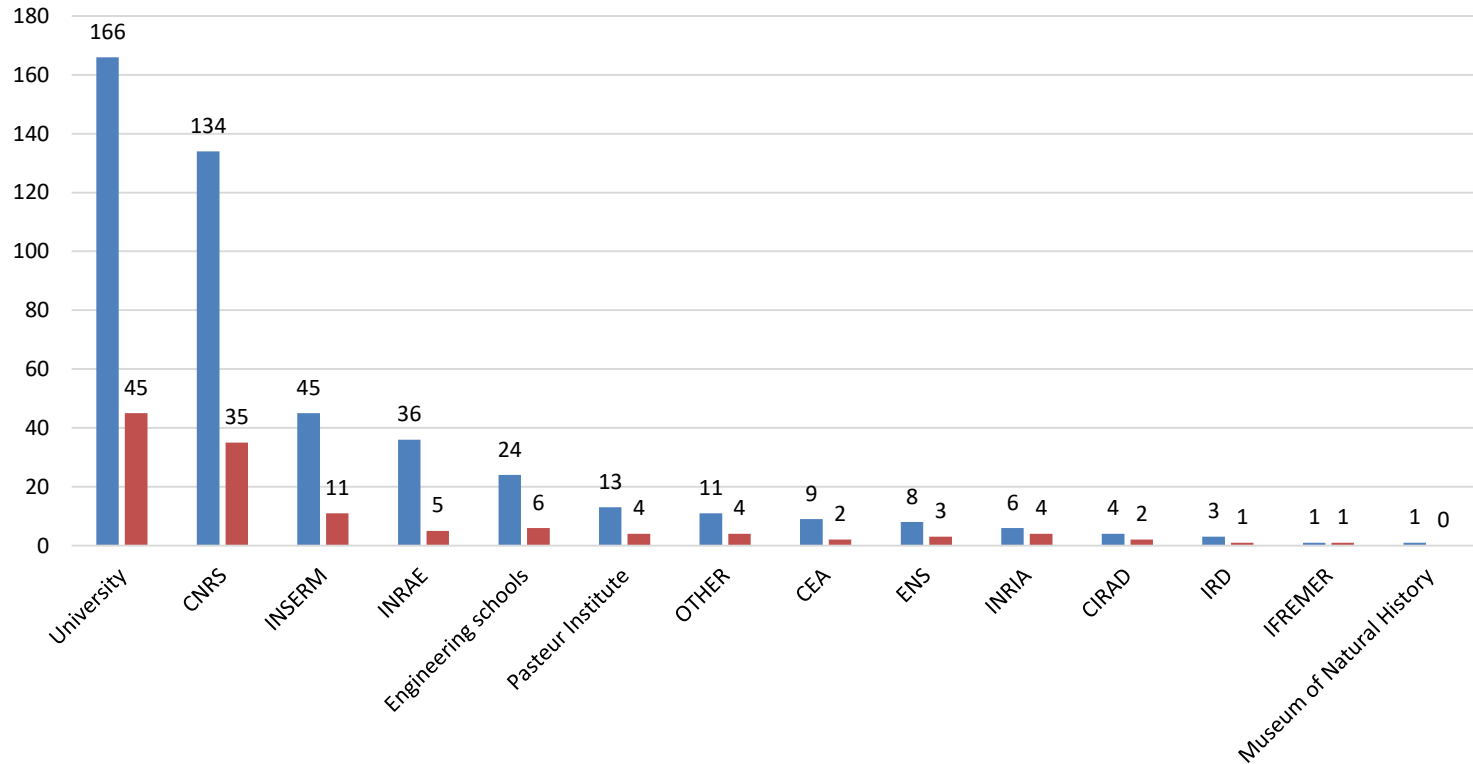
Selected applications by Institutions



# FRENCH PARTICIPATING INSTITUTIONS

## (DATA FROM CAMPUS FRANCE)

Number of occurrences for each institution  
(applications vs selections)

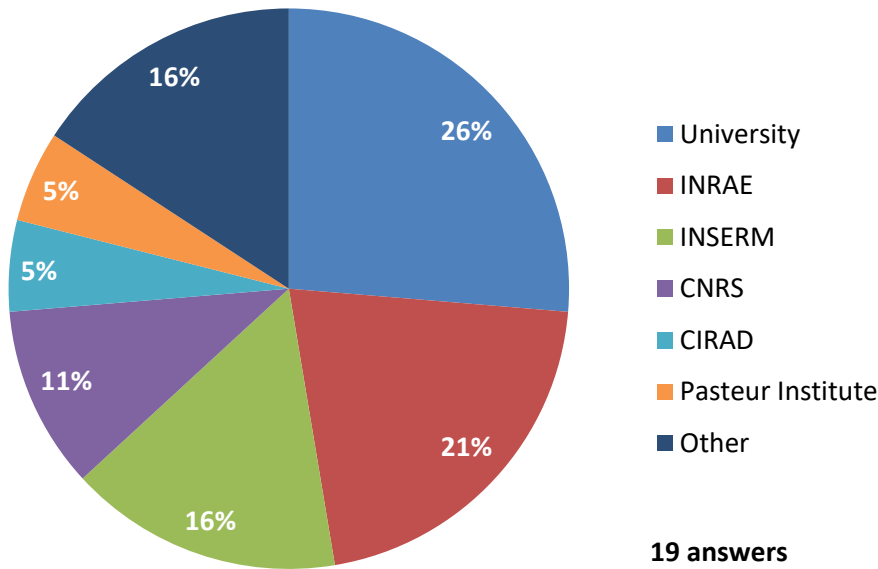




# FRENCH PARTICIPATING INSTITUTIONS

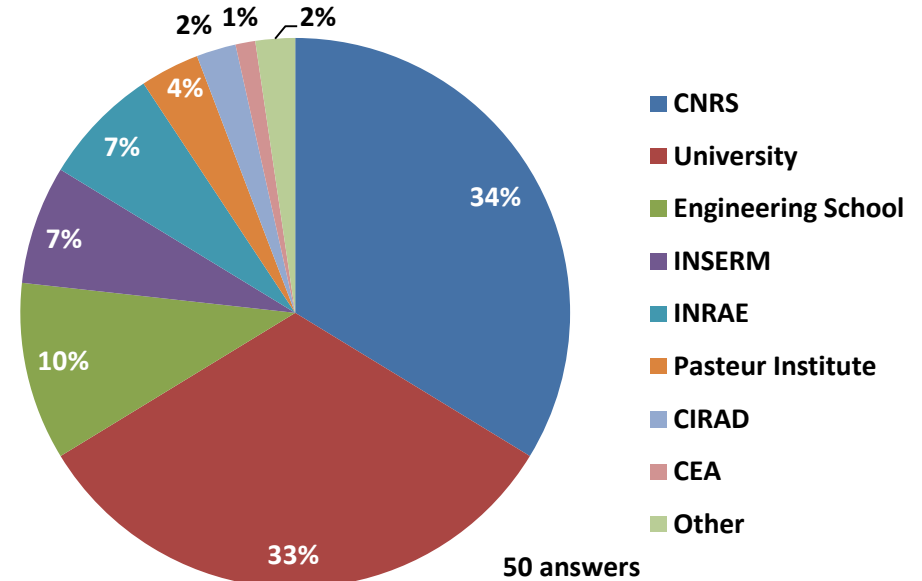
## (DATA FROM 2016 AND 2023 SURVEYS)

### PI's employers



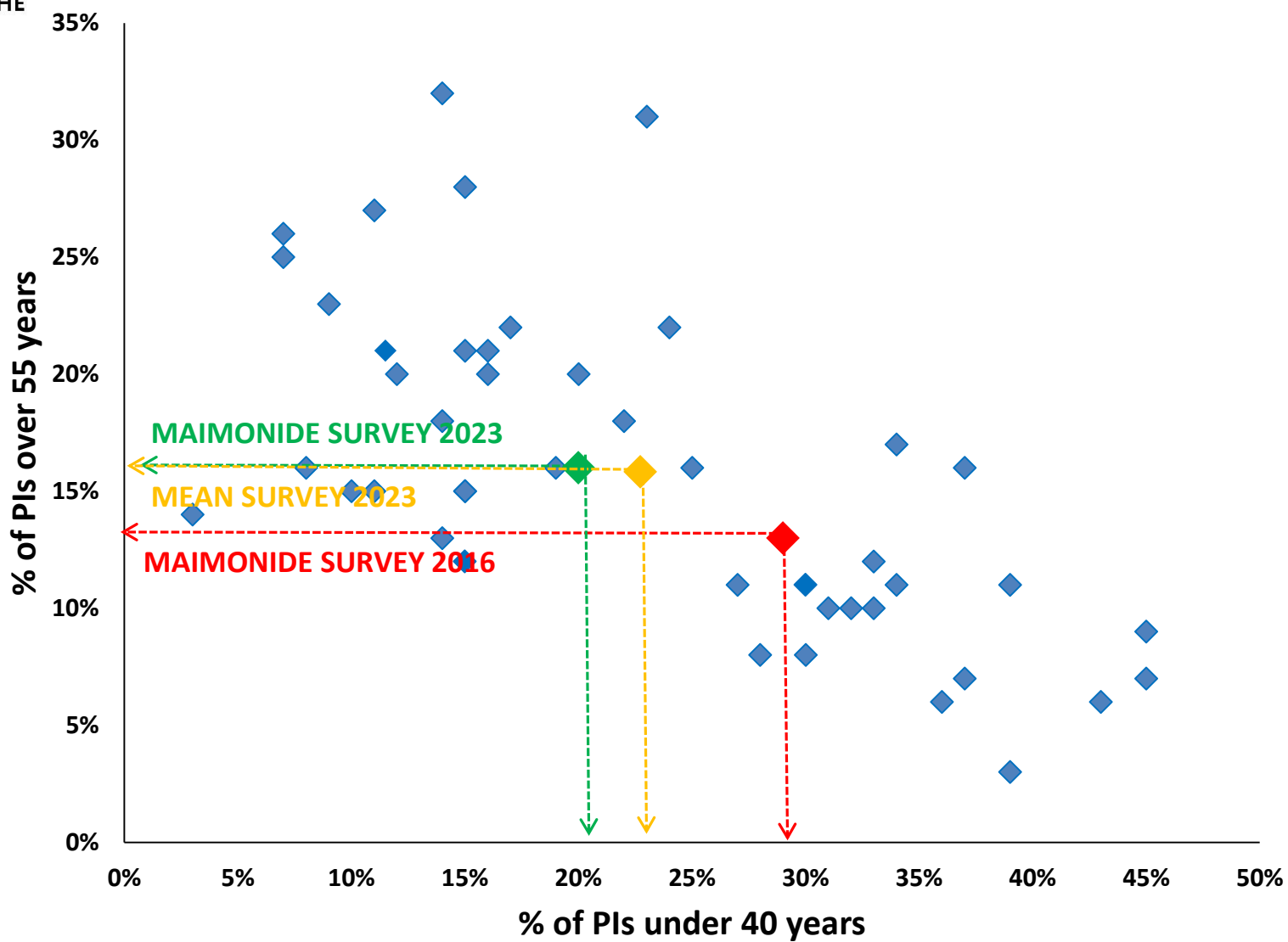
Data from 19 answers (survey 2023)

### Laboratories authorities



Data from 50 answers (surveys 2016 and 2023)

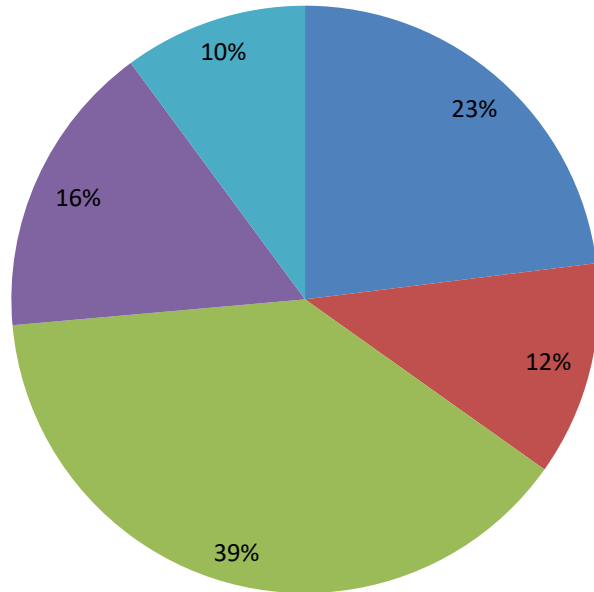
# AGE OF PRINCIPAL INVESTIGATORS (PI)



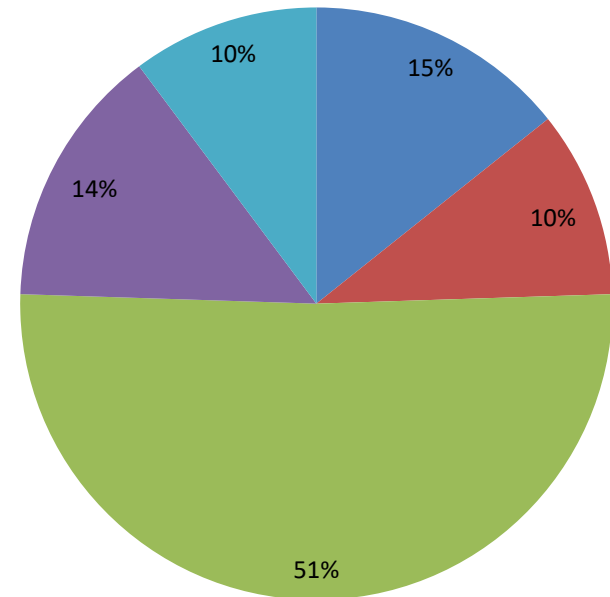
**Survey 2016 : 26 programmes**  
**Survey 2023 : 48 programmes**

# FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

## Applicants professional status



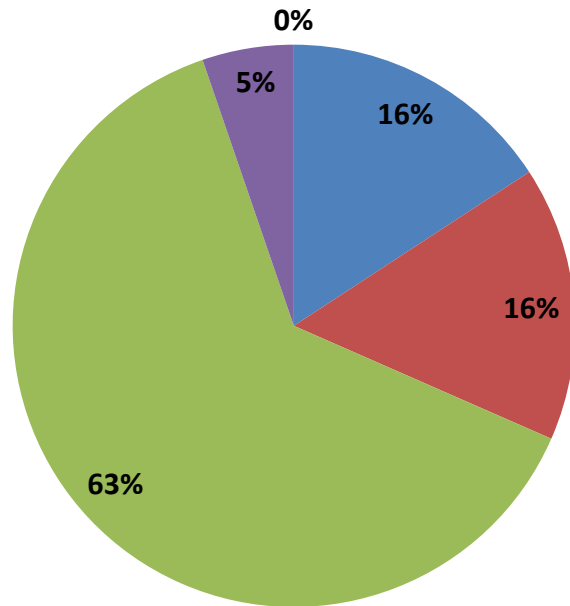
## Laureates professional status



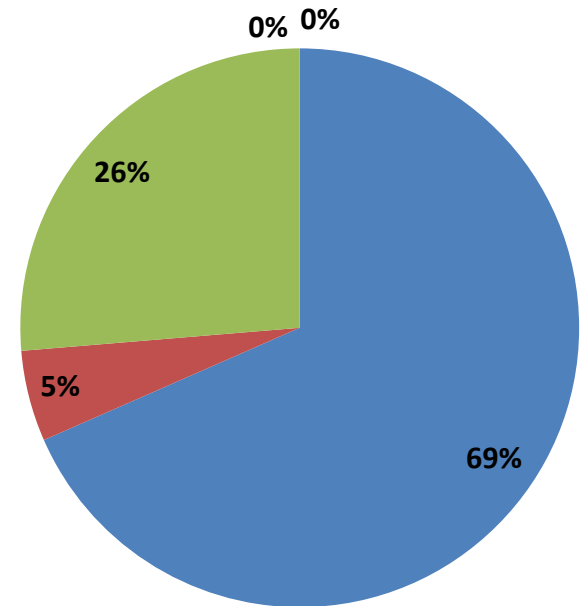
Data from 178 candidates and 49 laureates

# FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

## Previous professional status (at the beginning of the project)



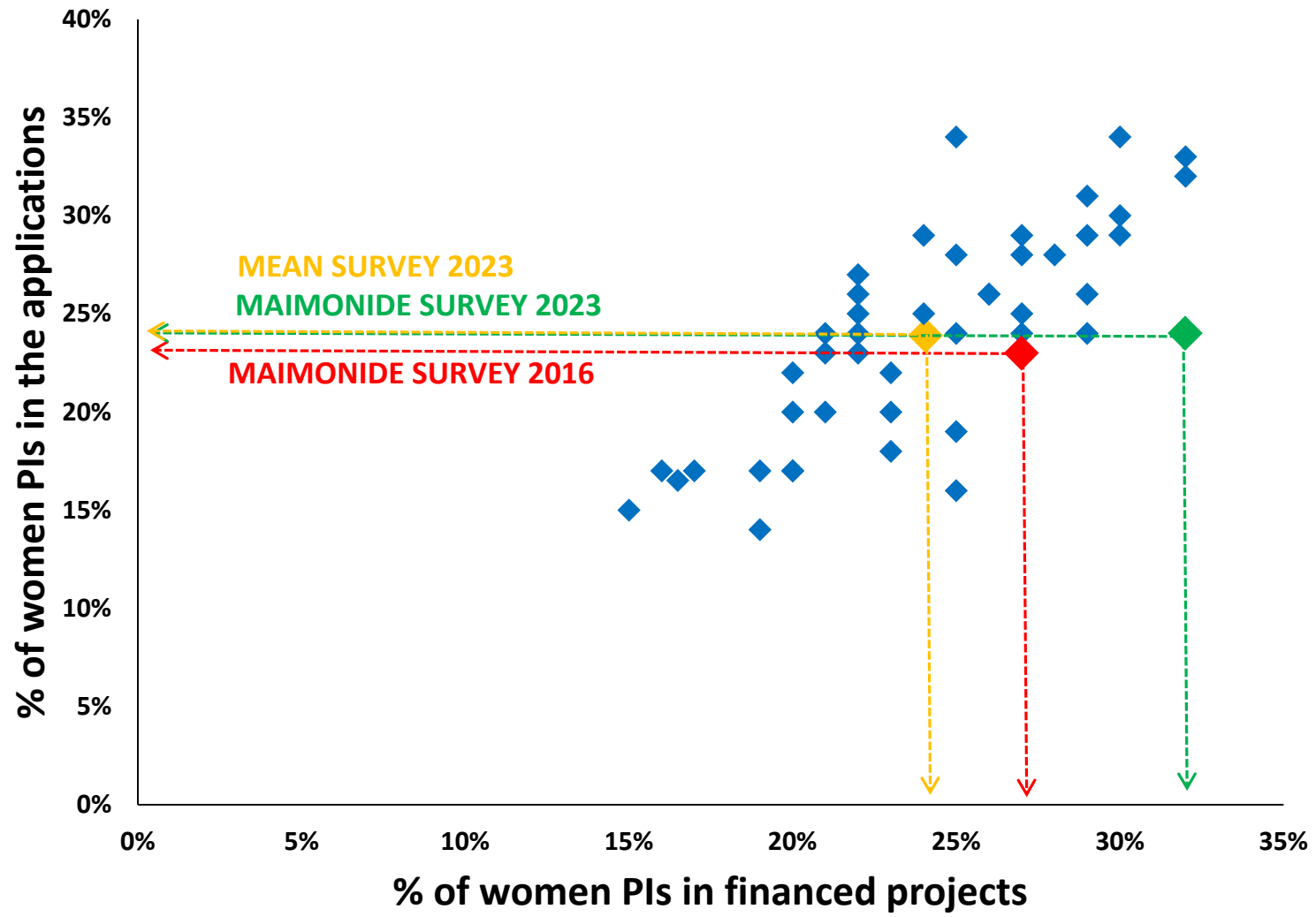
## Current professional status



- Full professor
- Assistant professor
- Senior researcher
- Junior researcher
- Other

Data from 19 answers (survey 2023)

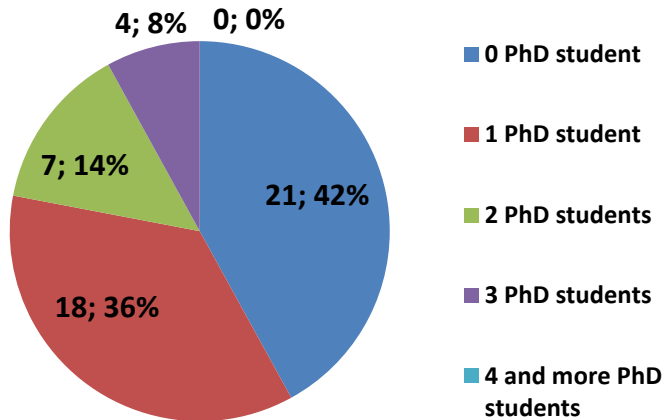
# IMPLICATION OF WOMEN (FRANCE)



Survey 2016 : 26 programmes  
 Survey 2023 : 48 programmes

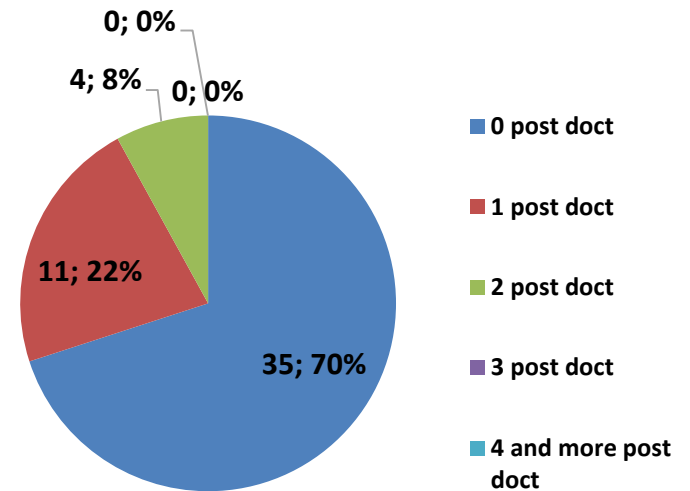
# PARTICIPATION OF FRENCH YOUNG RESEARCHERS

## Number of French PhD students



**58%** of projects involve at least one French PhD student

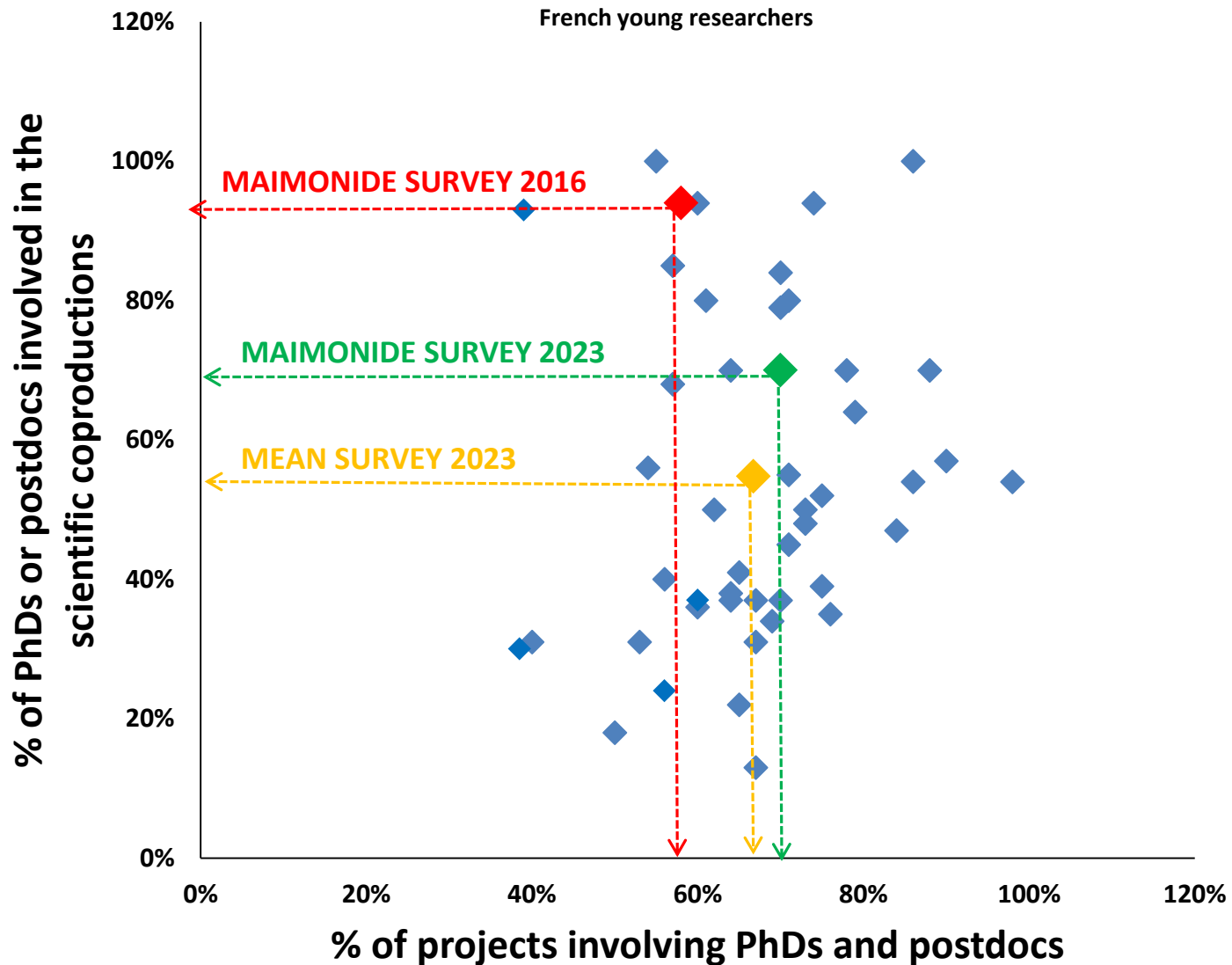
## Number of French post-doctoral researchers



**30%** of projects involve at least one French post-doctoral researcher

Data from 50 responses (surveys 2016 and 2023)

# IMPLICATION OF FRENCH YOUNG RESEARCHERS IN THE PUBLICATIONS

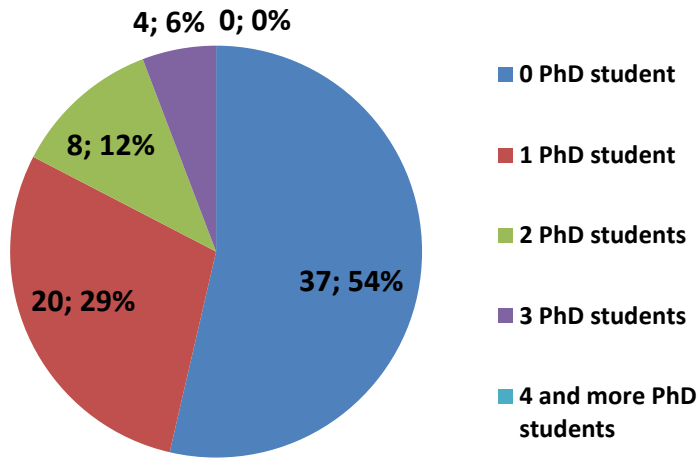


Survey 2016 : 25 programmes

Survey 2023 : 48 programmes

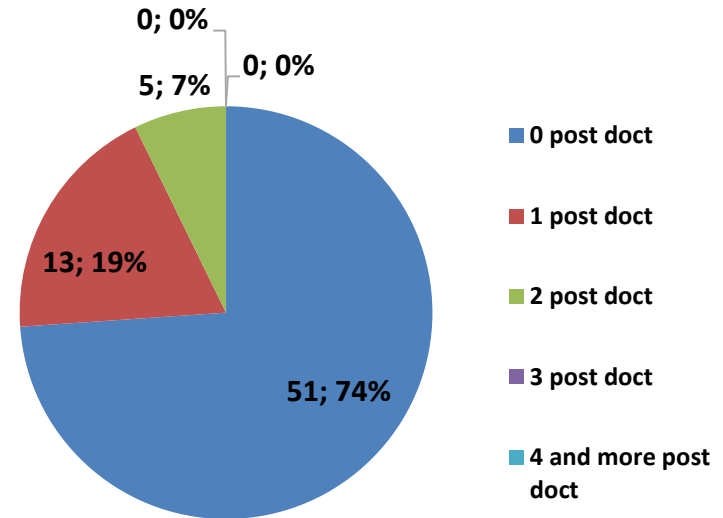
# PARTICIPATION OF BOTH FRENCH AND ISRAELI YOUNG RESEARCHERS

## Number of PhD students



**64%** of projects involve at least one PhD student

## Number of post-doctoral researchers

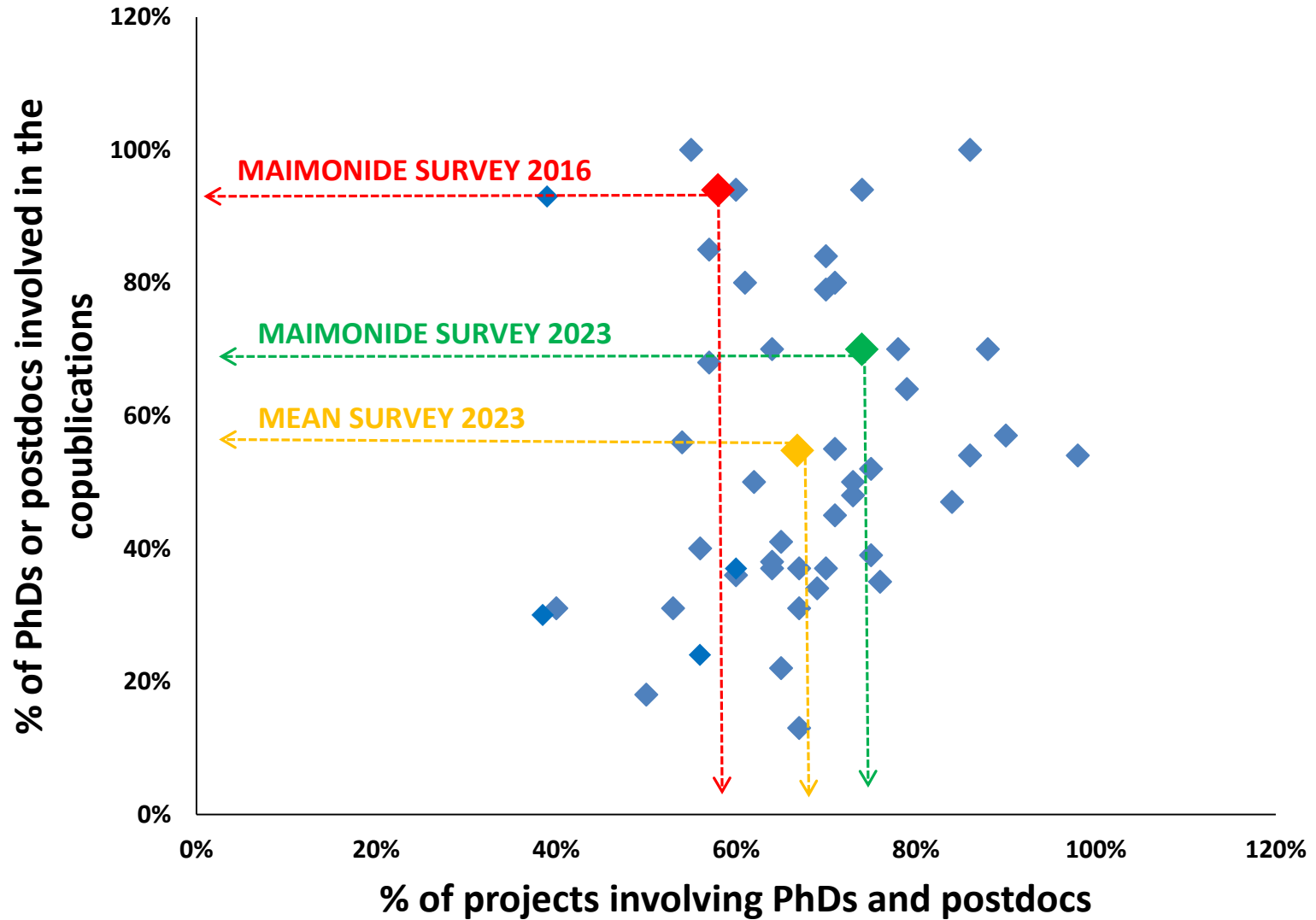


**34%** of projects involve at least one post-doctoral researcher

Data from 50 responses for french young researchers (surveys 2016 and 2023)  
Data from 19 responses for israelian young researches (survey 2023)



# IMPLICATION OF BOTH FRENCH AND ISRAELI YOUNG RESEARCHERS IN THE PUBLICATIONS

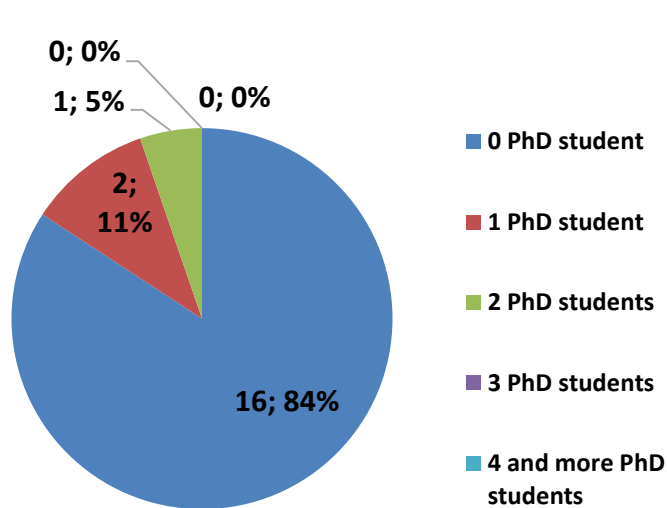


Survey 2016 : 25 programmes

Survey 2023 : 46 programmes

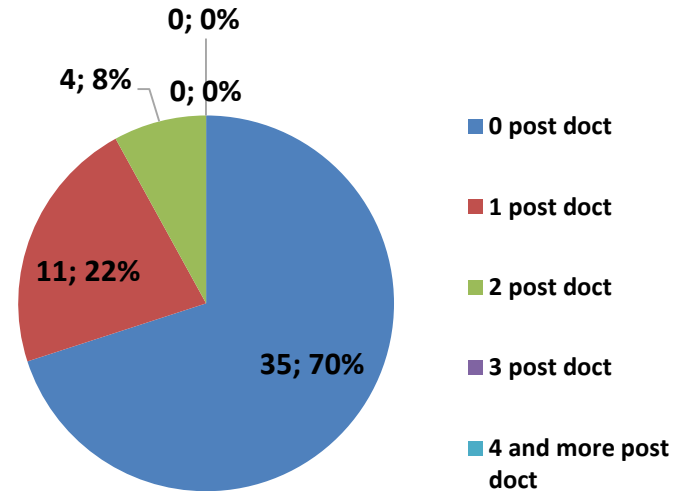
# PARTICIPATION OF ISRAELI YOUNG RESEARCHERS

## Number of Israeli PhD students



**21%** of projects involve at least one Israeli PhD student

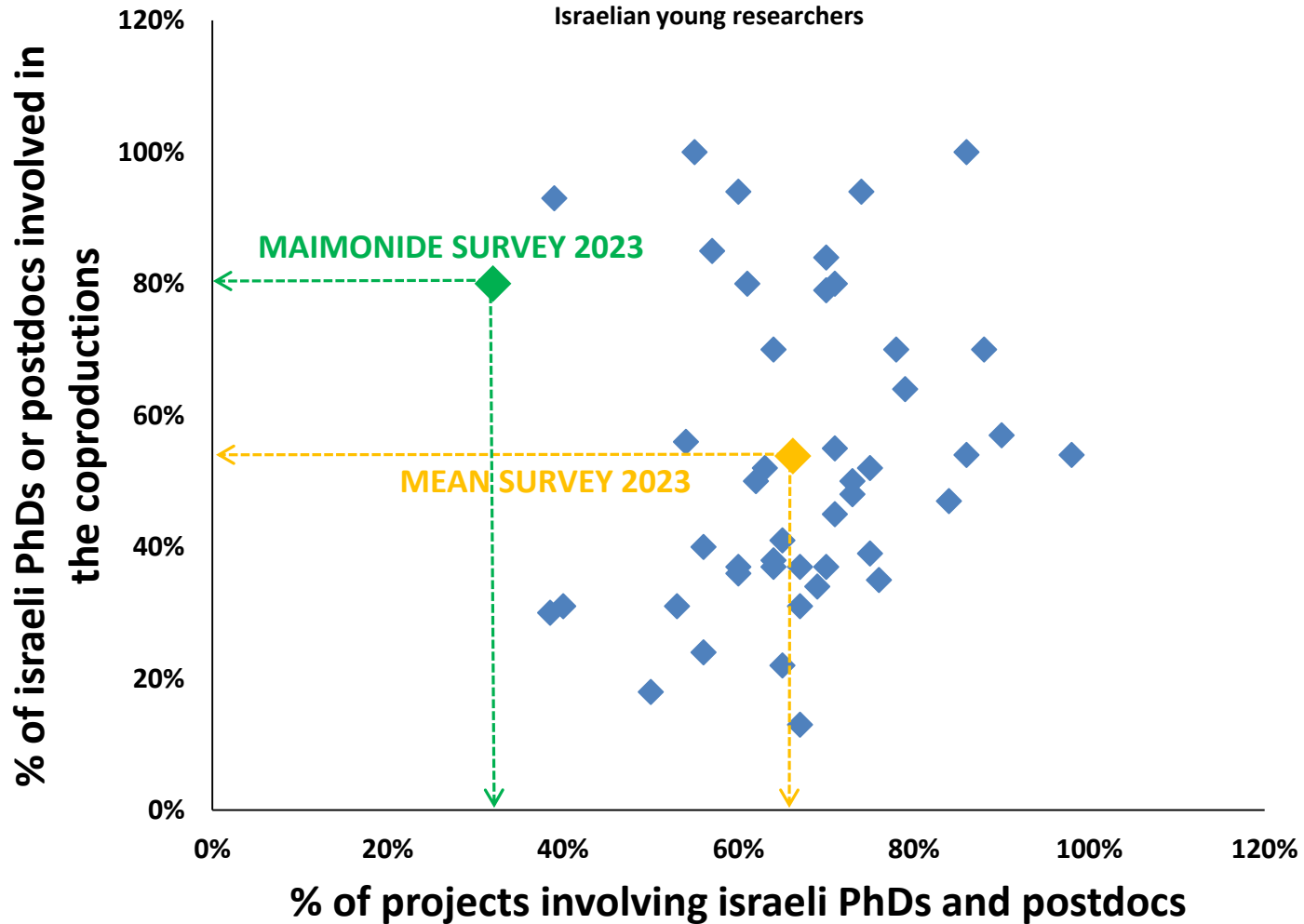
## Number of Israeli post-doctoral researchers



**21%** of projects involve at least one Israeli post-doctoral researcher

Data from 19 responses (survey 2023)

# IMPLICATION OF ISRAELI YOUNG RESEARCHERS IN THE PUBLICATIONS



Survey 2023 : 46 programmes



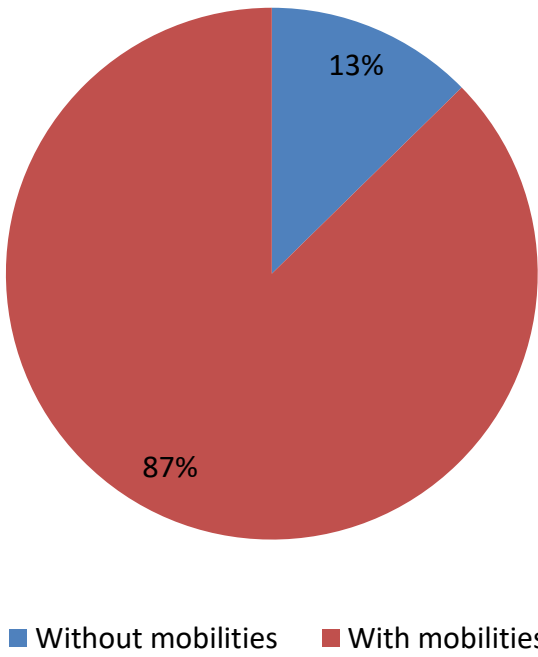
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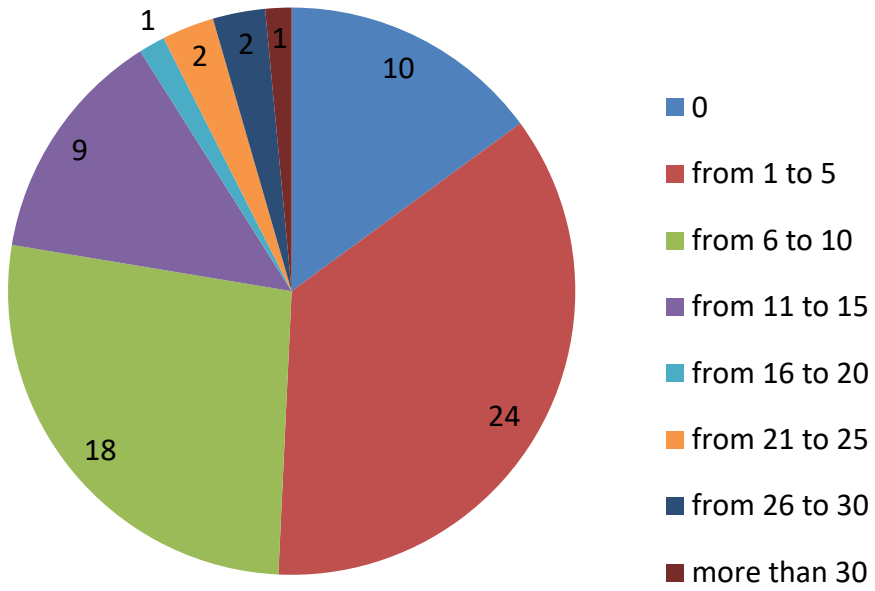
**MOBILITY**

# MOBILITIES

**Projects with/without mobilities  
(67 selected projects)**

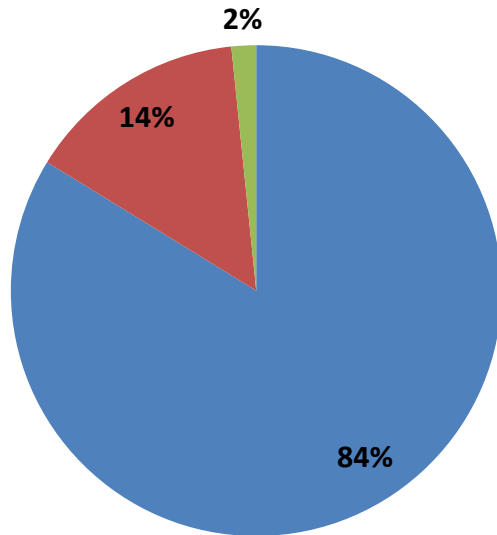


**Number of mobilities per project  
(67 selected projects)**

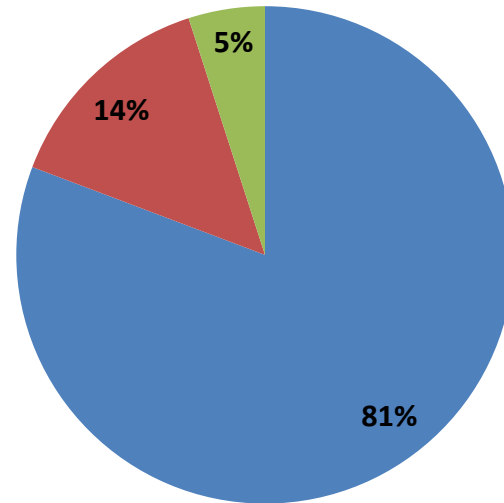


# MOBILITY : DURATION

## France → Israel



## Israel → France

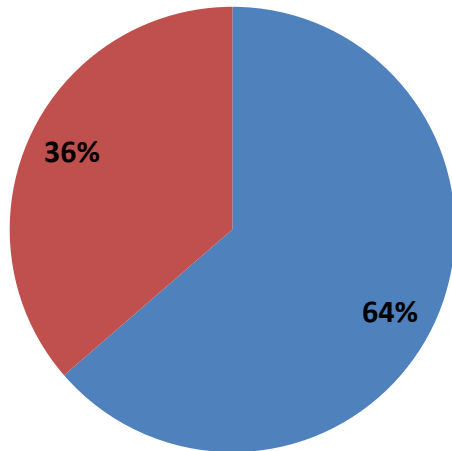


- < 15 days
- between 15 days and 3 months
- > 3 months

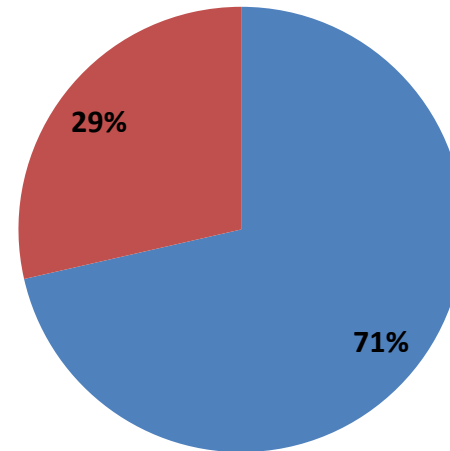
Data from 308 outgoing mobilities and 161 incoming mobilities

# MOBILITY : GENDER DISTRIBUTION

## France → Israel



## Israel → France

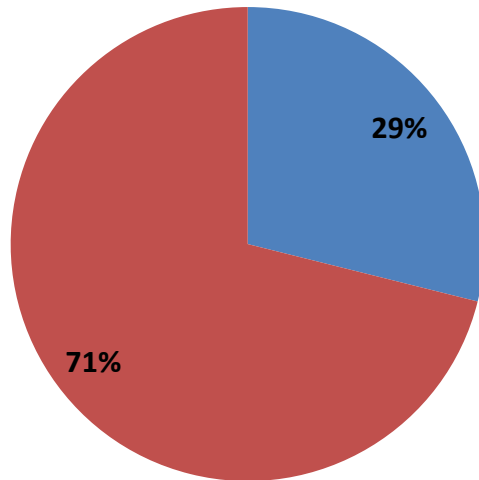


■ Men ■ Women

Data from 308 outgoing mobilities and 161 incoming mobilities

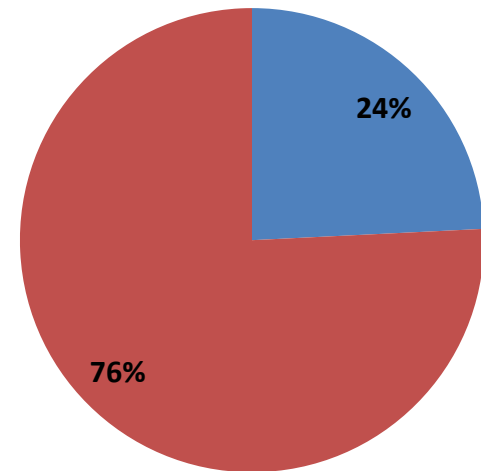
# MOBILITIES : STATUS

## France → Israel



- carried out by junior researchers (<35 years old)
- carried out by senior researchers (>35 years old)

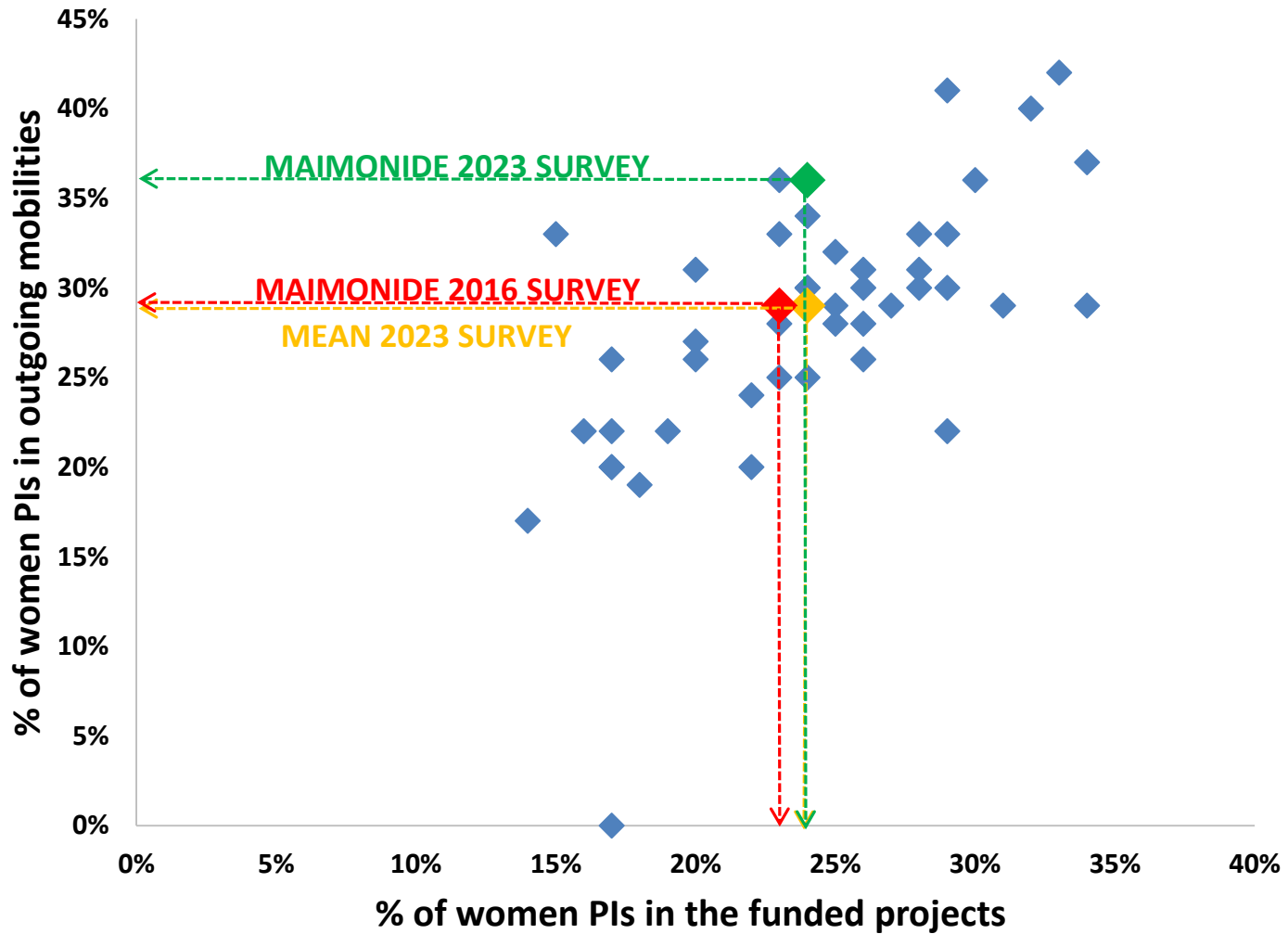
## Israel → France



Data from 308 outgoing mobilities and 161 incoming mobilities



# WOMEN MOBILITY FRANCE – ISRAEL

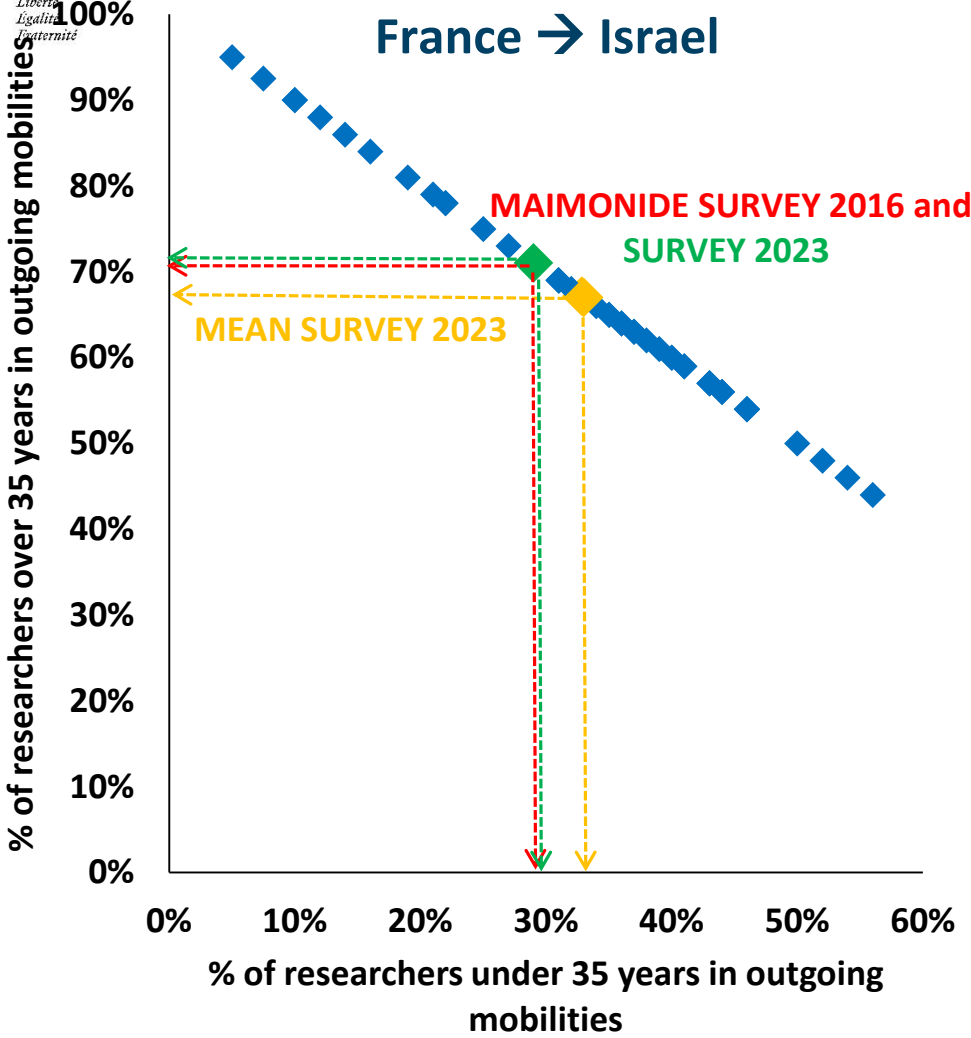


Survey 2016 : 25 programmes  
Survey 2023 : 46 programmes

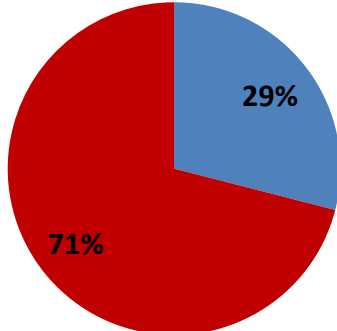
# YOUNG RESEARCHERS MOBILITY FRANCE – ISRAEL

France → Israel

Israel → France

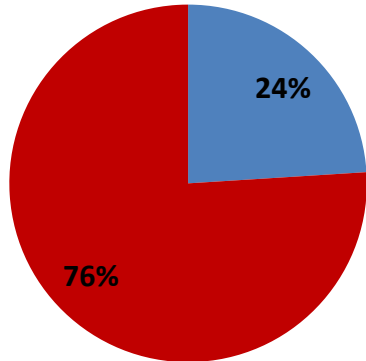


## MAIMONIDE SURVEY 2016



- % of researchers under 35 years in incoming mobilities
- % of researchers over 35 years in incoming mobilities

## MAIMONIDE SURVEY 2023



- % of researchers under 35 years in incoming mobilities
- % of researchers over 35 years in incoming mobilities

Survey 2016 : 26 programmes  
 Survey 2023 : 47 programmes



**MINISTÈRE  
DE L'ENSEIGNEMENT  
SUPÉRIEUR  
ET DE LA RECHERCHE**

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**SCIENTIFIC  
PRODUCTION  
(2005-2022)**

# SCIENTIFIC PRODUCTION (2/2)

## ENQUETE 2016+2023

	Number of funded projects 2016 survey	Number of funded projects 2016+2023 surveys	Average annual number of scientific coproductions per project 2016 survey	Average annual number of scientific coproductions per project 2016+2023 surveys
Mathematics	3	5	0,0	0,6
Physics	2	2	2,5	2,5
Marine/Earth/Planet Sciences	4	4	1,3	1,3
Chemistry	2	4	2,5	2,0
Biology and Health	8	16	3,1	2,4
Humanities	0	3		2,7
Social Sciences	0	0		
Engineering Sciences	3	3	3,3	3,3
Information Technology	3	6	1,7	1,8
Agronomy / Ecology	3	7	0,7	1,7
<b>TOTAL/MOYENNE</b>	<b>28</b>	<b>50</b>	<b>2,0</b>	<b>2,0</b>

**Overall average annual number of scientific coproductions per project 2016 : 1,0 vs 0,96 mean**  
**Overall average annual number of scientific coproductions per project 2016+2023 : 1,0**

### Enquête 2016+2023

**62%** of funded projects led to at least 1 scientific coproduction (vs 64% survey 2016)

**53%** scientific coproductions involve at least 1 young researcher (vs 44% survey 2016)

The average annual rate of publication of young researchers involved in the projects is **0,46** (vs 0,22 survey 2016)

The average annual rate of young researchers involved in the scientific coproductions is **0,66** (no data from survey 2016)

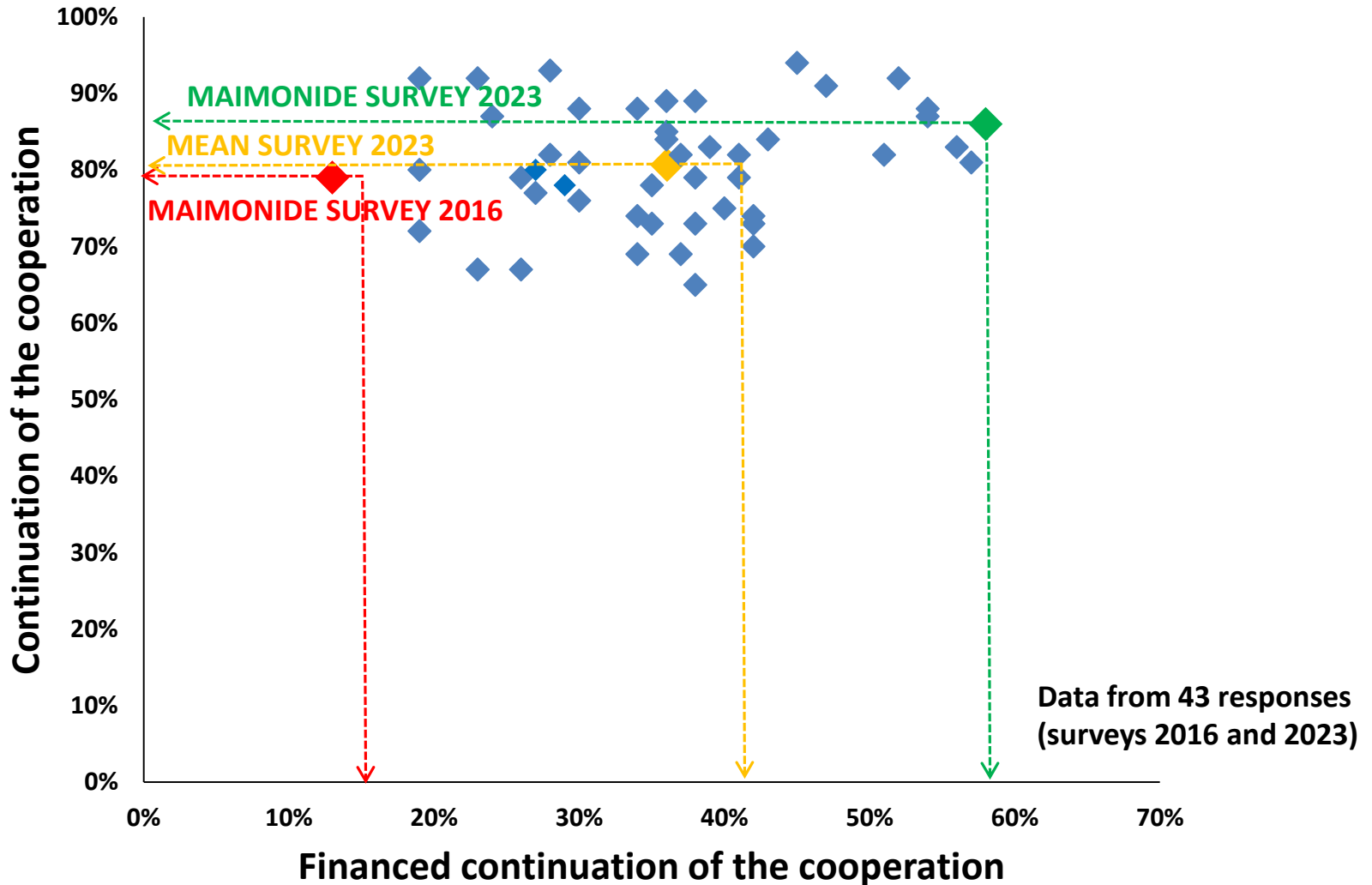


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# **WHAT HAPPENS AFTER A MAIMONIDE PROJECT ?**

# CONTINUATION OF THE COOPERATION (1/7)



**Survey 2016 : 26 programmes**  
**Survey 2023 : 47 programmes**

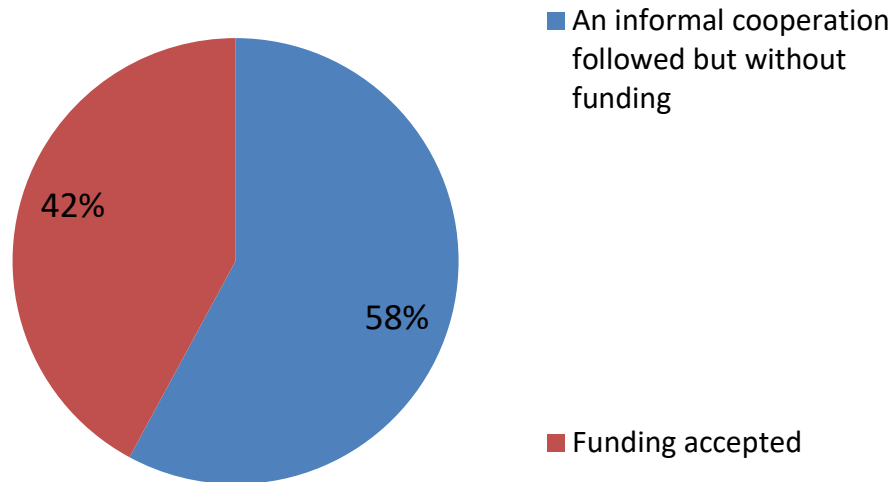
## CONTINUATION OF THE COOPERATION (2/7)

**86%** of the collaborations continued after the MAIMONIDE project

Which activities?	
Cooperative research	84%
Scientific co-productions	57%
Researchers mobilities	43%
Joint participation to conferences	32%
Co-organisation of scientific events	16%
PhD mobilities	5%
Joint diplomas (Master, PhD...)	3%
Other	19%

## CONTINUATION OF THE COOPERATION (3/7)

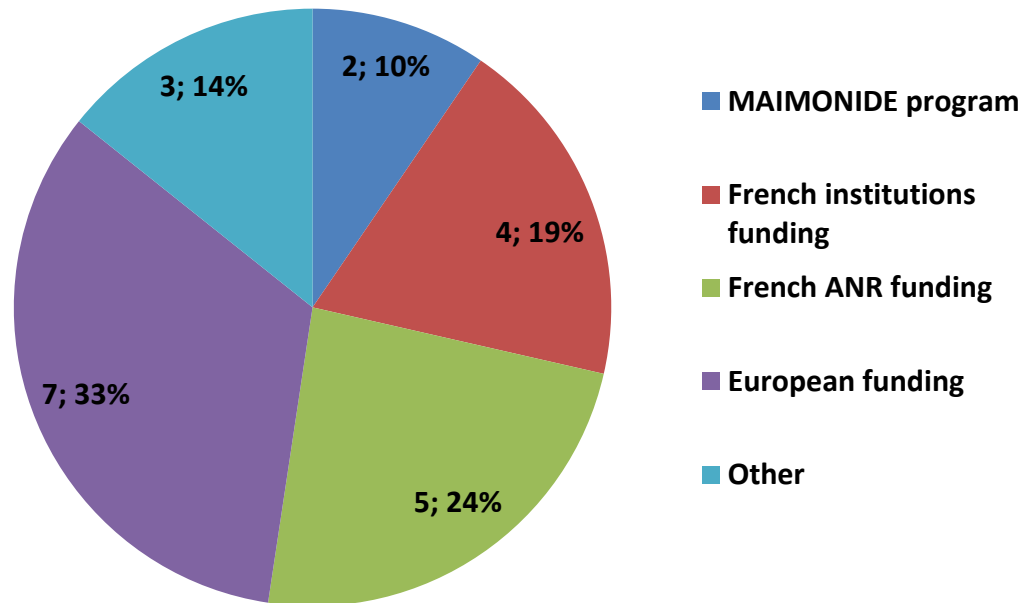
**42%** of cooperations have been funded following the project





## CONTINUATION OF THE COOPERATION (4/7)

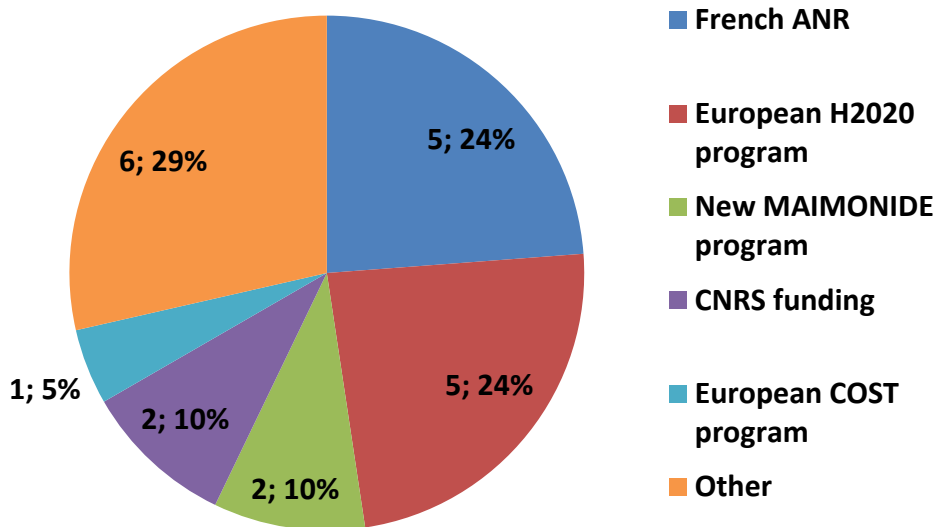
What kind of funded collaborations after the MAIMONIDE project ?



Data from 15 responses

# CONTINUATION OF THE COOPERATION (5/7)

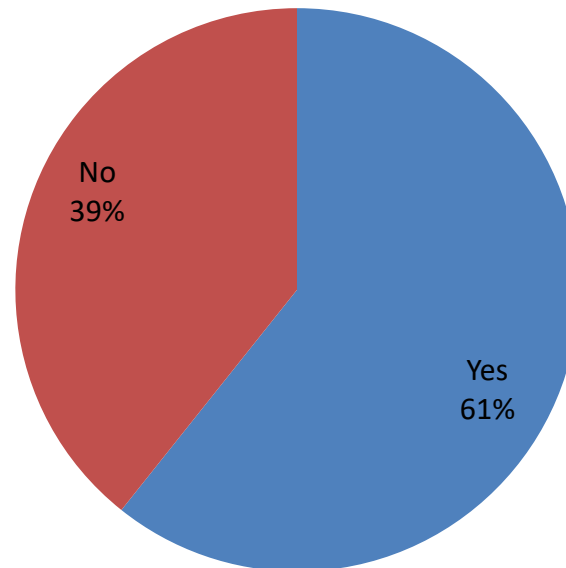
## Detailed fundings following the MAIMONIDE project



Data from 15 responses

## CONTINUATION OF THE COOPERATION (6/7)

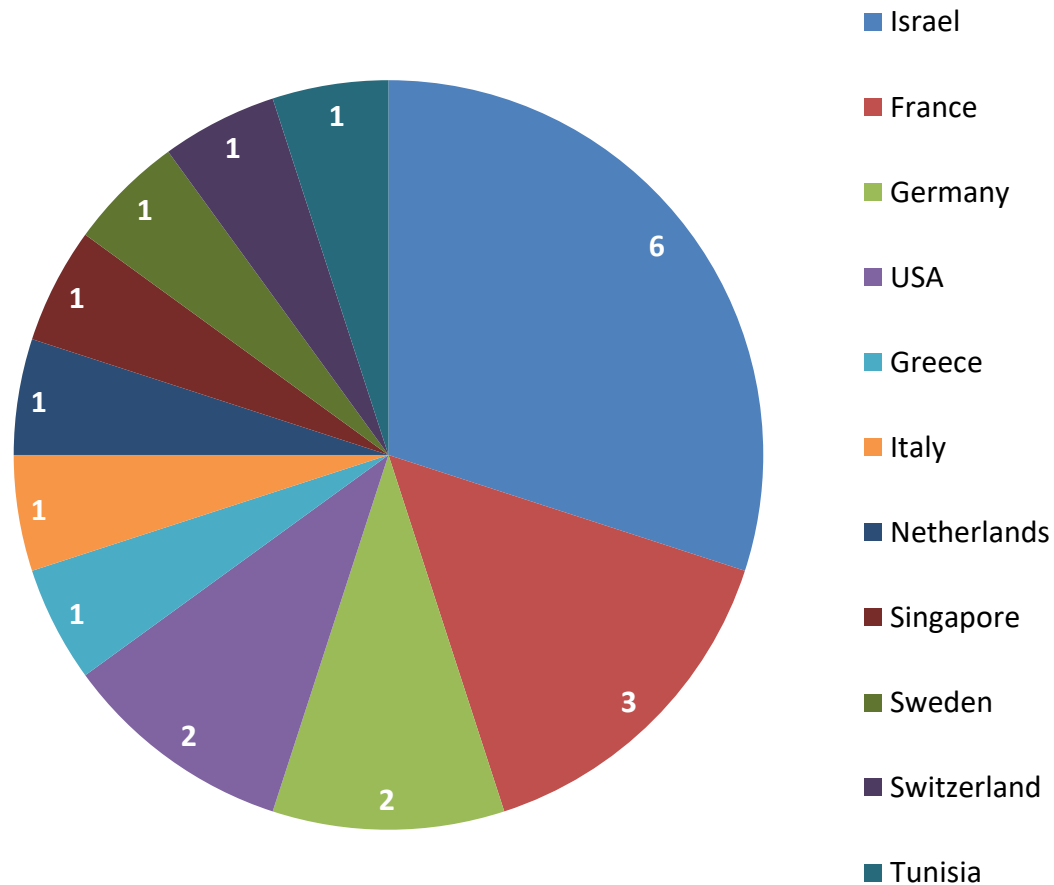
**Has the French-Israeli cooperation involved new partners?**



Data from 28 responses

# CONTINUATION OF THE COOPERATION (7/7)

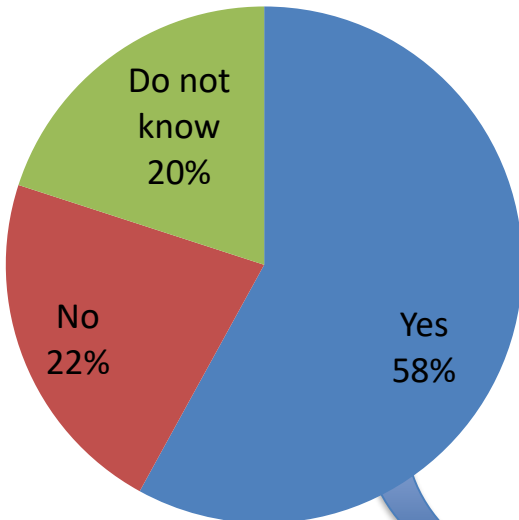
If the French-Israeli cooperation involves new partners, list with which countries



Data from 17 responses

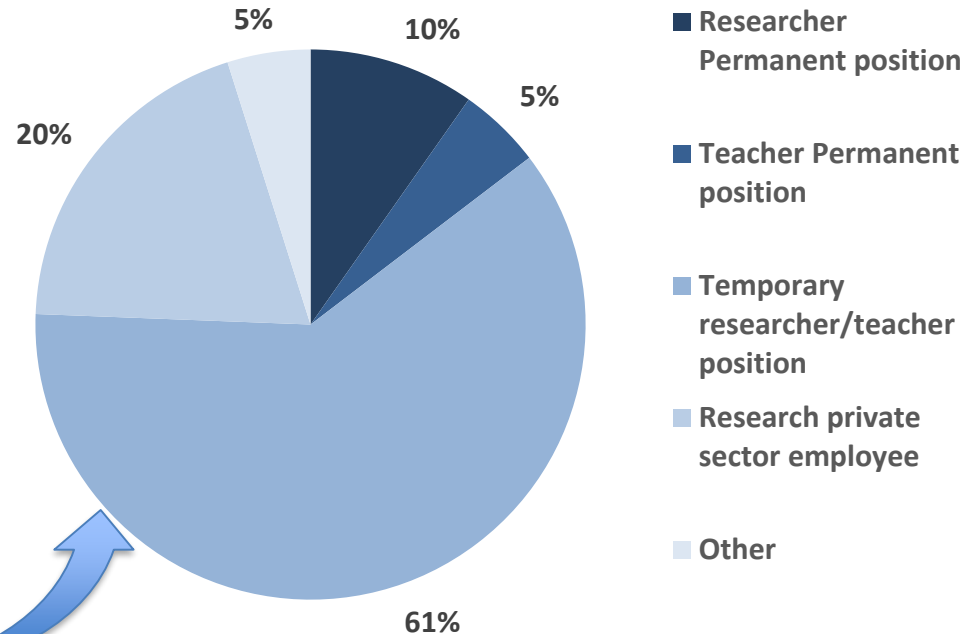
# IMPACT ON YOUNG RESEARCHERS' CAREER (1/2)

## Was young researchers' career impacted by the MAIMONIDE program ?



Data from 50 responses

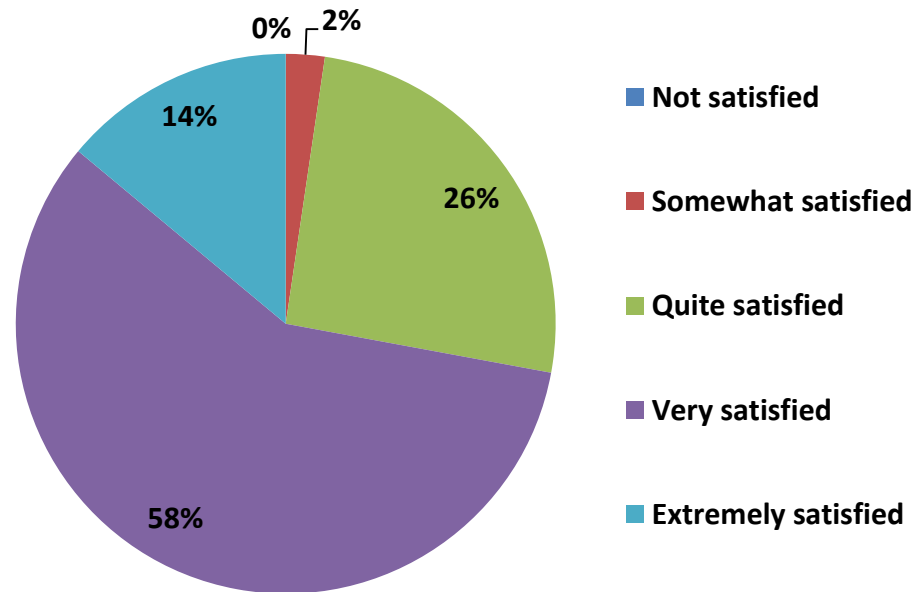
## Type of impacts



Data from 29 positive responses for a total of 41 young researchers

# GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME

**98%** of French principal investigators are satisfied



Data from 43 responses

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



Strengths of this program	Number of occurrences (out of 168)	% of funded projects
Fostering an international scientific cooperation	31	62%
Sufficient financial means for the mobility costs	27	54%
Easy implementation (administrative flexibility)	16	32%
Fostering researchers' mobility	15	30%
Flexibility of the programme for actions co-financed with the Israeli partner <b>Survey 2023</b>	5	26%*
Financial autonomy towards your institution <b>Survey 2023</b>	5	26%*
Fostering exchanges enabling scientific production	12	24%
Simplicity of the application process	11	22%
Fostering the training of the young researchers	9	18%
Helpful to initiate other fundraising	6	12%
Implementation schedule <b>Survey 2023</b>	2	11%*
Helping to know the partner country	5	10%
Good scientific-added value on financial investment	5	10%
Sufficient amount of mobility time given to collaborate	4	8%
Transparency of the selection process	3	6%
Sufficiently long duration of the projects	2	4%
Other	0	0%
<i>Total number of occurrences</i>	168	

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

## NEGATIVE COMMENTS



Weaknesses of this program	Number of occurrences (out of 75)	% of funded projects
Insufficient financial means to cover a project	15	30%
Financial means insufficient for the expenditure of mobility (transport)	13	26%
Financial means insufficient for the expenditure of mobility (per diem)	11	22%
Length of support too short	10	20%
Administrative complexity	9	18%
Difficult to continue the collaboration	5	10%
Heaviness of the process of applications	3	6%
Flexibility of the programme for actions co-financed with the Israeli partner	1	5%*
<b>Survey 2023</b>		
Financial autonomy towards your institution <b>Survey 2023</b>	1	5%*
Implementation schedule <b>Survey 2023</b>	1	5%*
Lack of transparency in the selection process	1	2%
Insufficient communication on the evaluation's results	1	2%
Too short duration of mobilities	0	0%
Too long duration of mobilities	0	0%
Too low number of mobilities	0	0%
Other	4	8%
<i>Total number of occurrences</i>	75	



# PRELIMINARY CONCLUSIONS

**Preliminary conclusions suggest that the funding scheme has efficiently contributed to create (or to maintain) fruitful and long-term cooperation.**

**Stable number of applications with a small increase over last years**

**50% of new cooperations**

**A good implication of french and israeli young researchers in the scientific coproductions**

**Scientific coproductions in the mean of the other programmes**

**Continuation of the cooperation in the mean of the other programmes but a better rate of financed continuation**

**33% of post-project fundings are european fundings**

**Ongoing cooperation involves new partners in 61% of the projects**

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**80% of applicants are older than 40 years**

**Rather low implication of young researchers in the mobilities**

# COMPARISON SURVEY 2016 – SURVEY 2023

- **Response rate : 2016 : 39% (31 responses), 2023 : 43% (19 responses)**
- **Stable average annual number of applications (-0,9%)**
- **Decrease in the number of selected projects carried by young researchers (-9%)**
- **Increase in the number of women applicants (+5%) and laureates (+1%)**
- **Clear progression of the participation of young researchers to the projects (+12%) but apparent decrease of their involvement in the scientific coproductions (-26%)**
- **No evolution in the mobilities of young researchers**
- **Stable average annual number of scientific coproductions per project (1,0)**
- **Very significant progression of cooperations continued with financing (+45%)**

## PRELIMINARY RECOMMENDATIONS

- **Encourage young researchers applications (only 20% of laureates under 40 years old)**
- **Encourage women researchers applications (only 32%)**
- **Enhance scientific coproductions (38% of projects with no scientific coproduction, 1.0 coproduction in average per project and per year)**
- **Promote both outgoing (29%) and incoming (24%) mobilities of young researchers**

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

## Contacts

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