## FRANCE – HUNGARY PHC BALATON - 25th ANNIVERSARY

Scientific impact of the program (2005-2017)

**MESRI-DAEI / MEAE** 

2018

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



## GENERAL PRESENTATION OF THE PROGRAMME

**Creation: 1993** 

Total budget (France + Hungary): around 100 000 € / year

>> including budget from the French part : 50 000 € / year \*

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

Number of new funded projects per year: around 11 since

2013, around **21** between 2005 and 2012

From 2005-2016:

474 applications submitted

216 projects funded



### **DATA SOURCES**

## **Campus France**

- Informations about the PHC Balaton program applications
- List of mobilities (from France to Hungary)

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

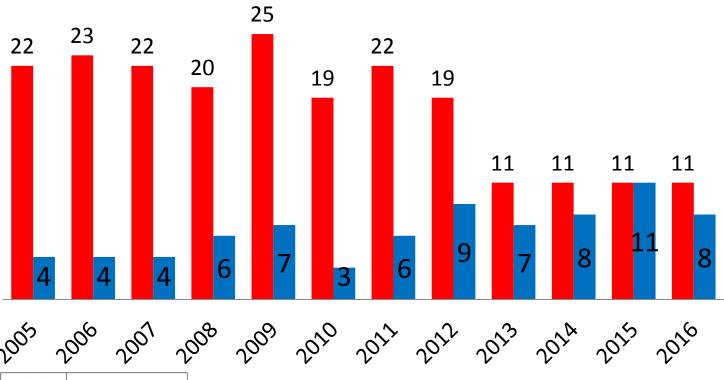
- Target: Principal Investigators of selected projects between 2005 and 2016
- Survey duration: 6 weeks between June and July 2018
- 36% response ratio (77 respondents for 216 funded projects)



## **ANSWERS TO THE SURVEY**

Average response rate to the survey: 36 % (77 answers)

- Number of funded projects
- Number of survey answers



Campus France & Survey data

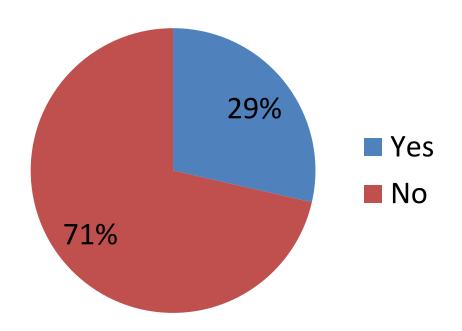
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# **2005-2017 KEY POINTS**

## **BEFORE PHC BALATON PROJECT**

### Have you ever worked with this Hungarian partner?

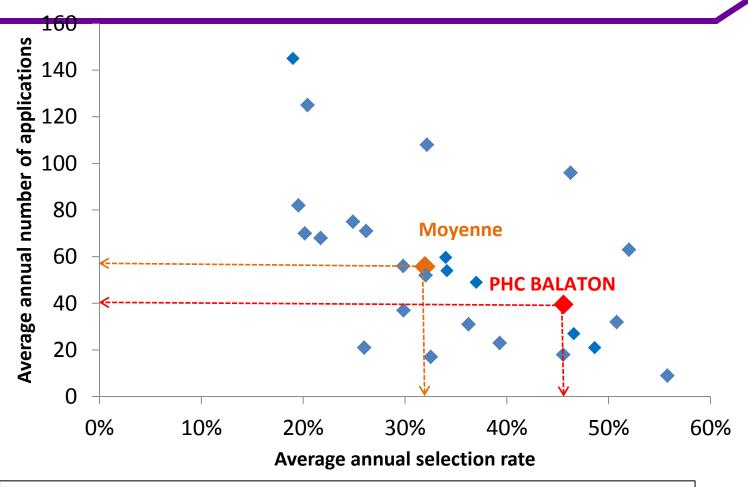


Survey data



### **NUMBER OF APPLICATIONS VS SELECTION RATE**

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

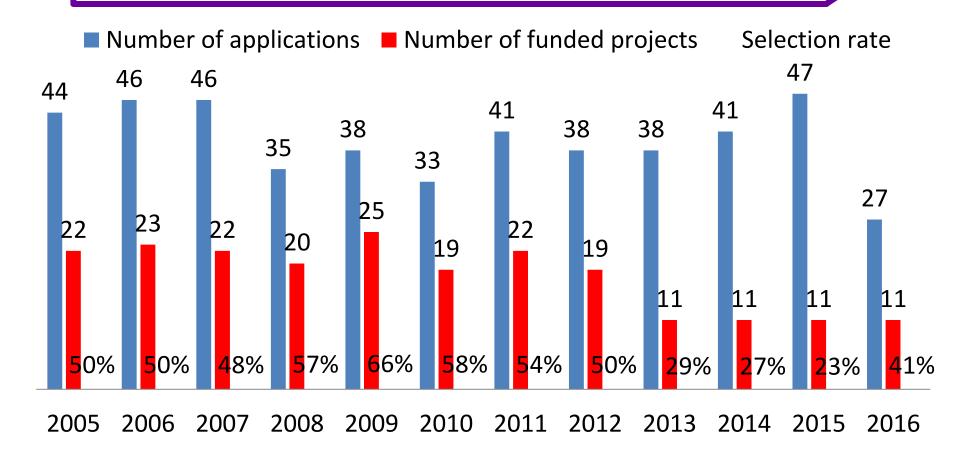


Average selection rate for 2005-2017 : 46% vs 32% mean Average number of applications 2005-2017 : 40 vs 56 mean



### **NUMBER OF APPLICATIONS AND SELECTION RATE**

### Average selection rate from 2005-2016: 46 %

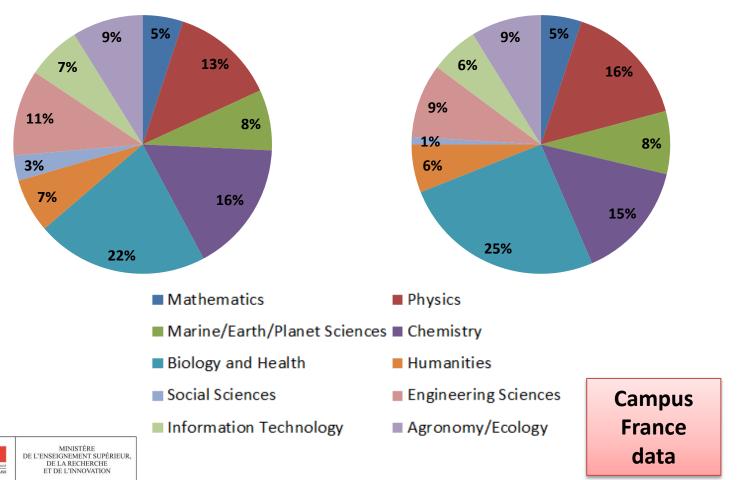




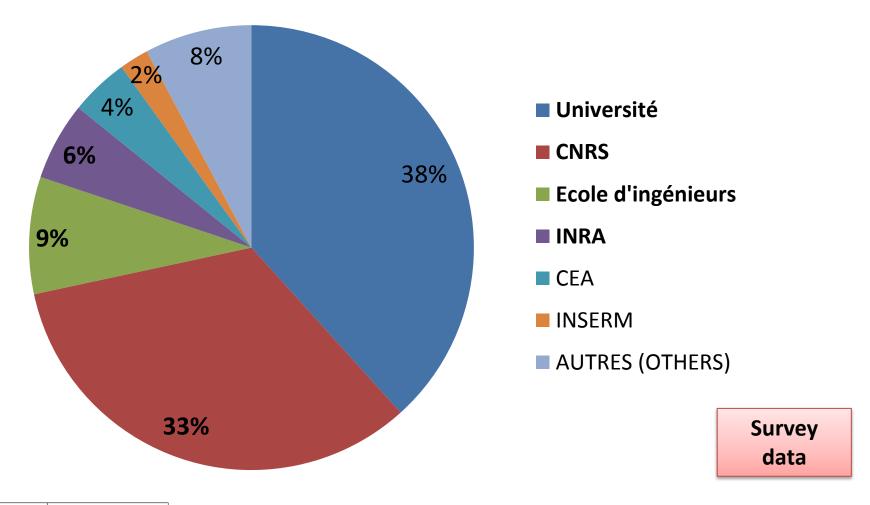
#### **SCIENTIFIC DOMAINS OF PROJECTS**

#### Number of applications: 474

#### Number of funded projects: 216

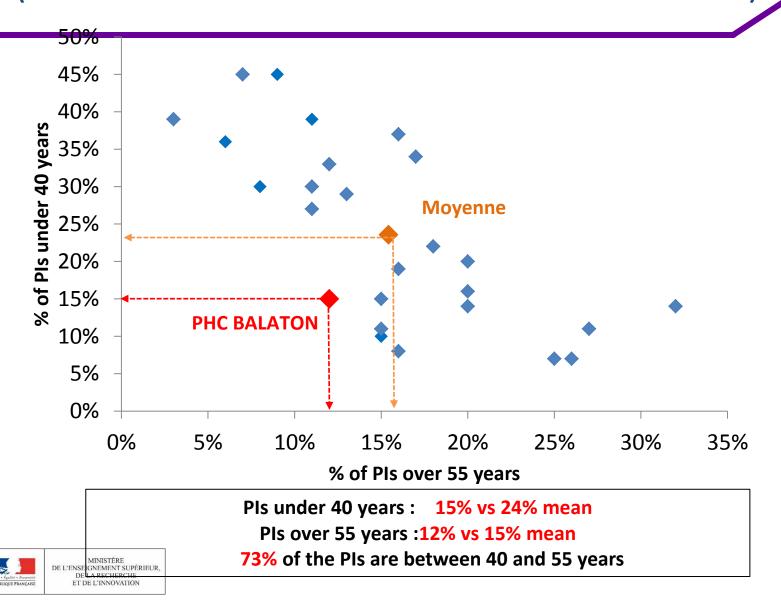


### FRENCH PARTICIPATING INSTITUTIONS



### AGE OF PRINCIPAL INVESTIGATORS (PI)

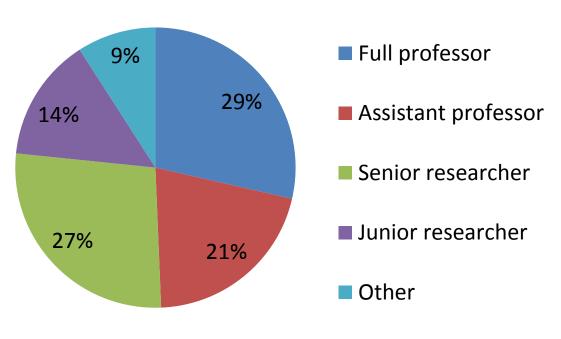
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

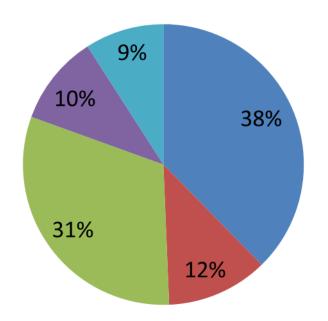


# FRENCH PIS (PRINCIPAL INVESTIGATORS): STATUS

Previous professional status (at the beginning of the project)



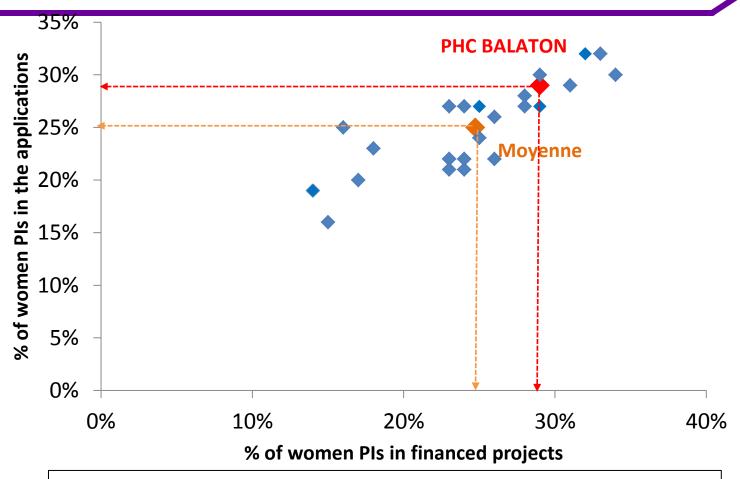




Survey data

### **IMPLICATION OF WOMEN (FRANCE)**

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

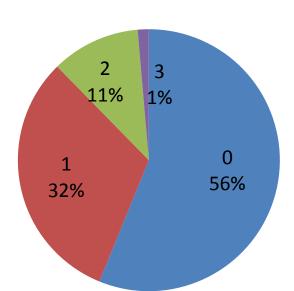


% of women PIs in the applications : 30% vs 25% mean % of women PIs in the selected projects : 29% vs 25% mean



## PARTICIPATION OF YOUNG RESEARCHERS

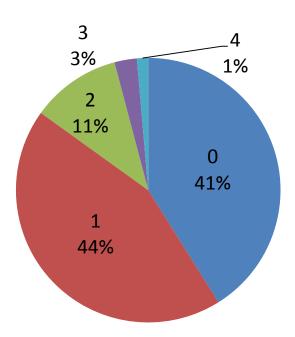
## Number of Master degree students



44 % of projects involve at least 1 Master degree student



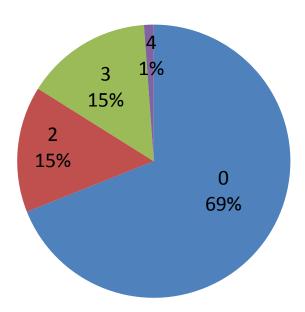
#### **Number of PhD students**



59 % of projects involve at least one PhD student



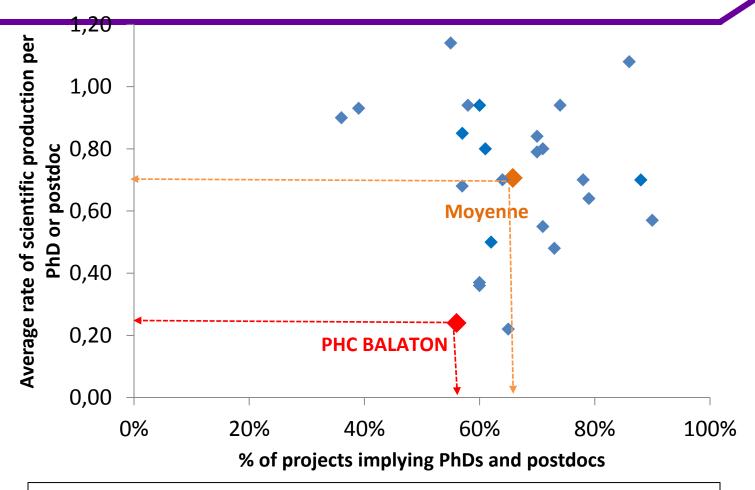
Number of postdoctoral researchers



31 % of projects involves at least 1 post-doctoral researcher

#### **IMPLICATION OF PhDs**

#### (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



% of projects implying PhDs and Post-doc: 56% vs 66% mean Average rate of scientific production per PhD: 0,24 vs 0,71 mean



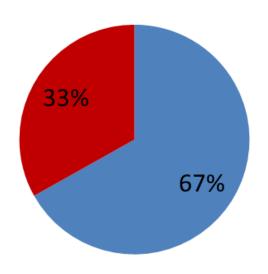
## Mobility

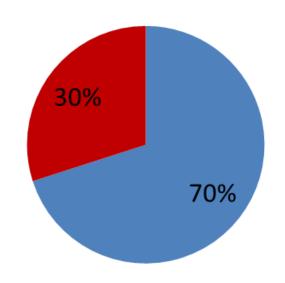


## **MOBILITY: GENDER DISTRIBUTION**

France → Hungary







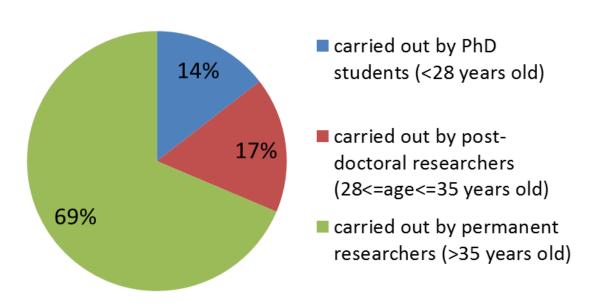
■ Men ■ Women

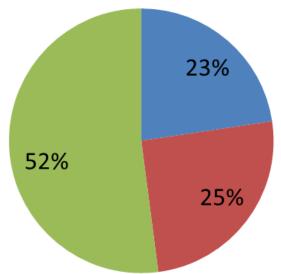
Campus France data

## **MOBILITY: STATUS**

#### France → Hungary

## Hungary → France



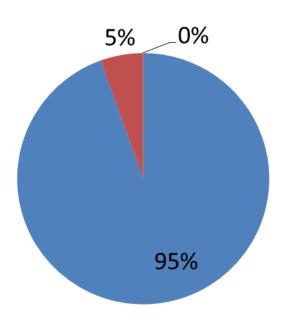


Campus France data

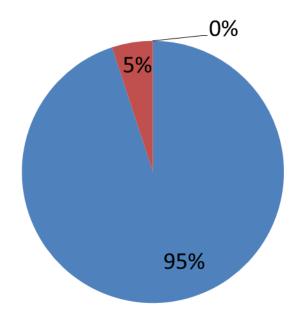


## **MOBILITY: DURATION**

#### France → Hungary



### **Hungary** → France



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

Campus France data



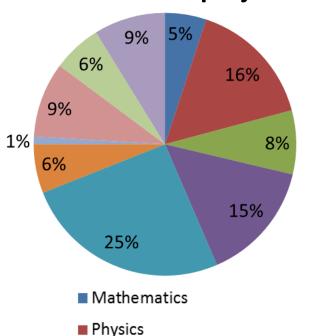
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# Scientific production



## SCIENTIFIC OUTPUT (1/2)

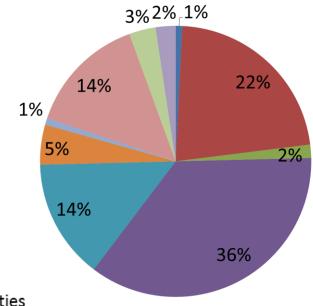
#### Number of funded projects: 216





- Marine / Earth / Planet Sciences
- Chemistry
- Biology and Health

#### **Percentages of co-publications**



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



Survey

data

## SCIENTIFIC OUTPUT (2/2)

52% of funded projects led to one co-publication at least

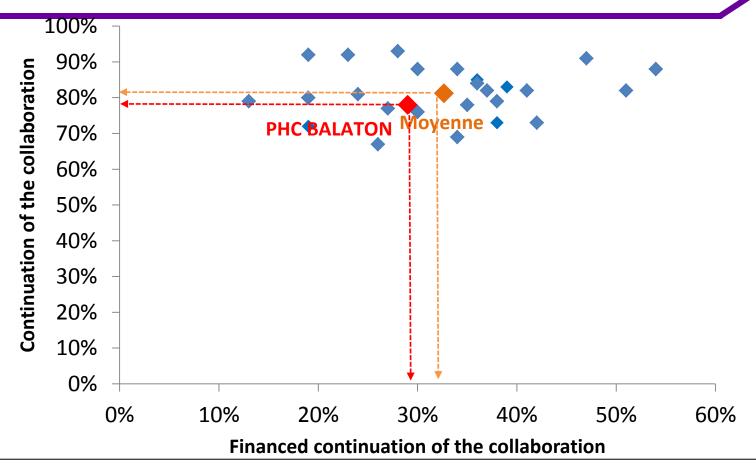
25% of copublications include at least 1 PHD or PostDoc

	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	3	4%	1	1%	33%	0,3
Physics	10	14%	28	22%	80%	2,8
Marine / Earth / Planet Sciences	3	4%	2	2%	33%	0,7
Chemistry	14	20%	45	36%	64%	3,2
Biology and Health	15	22%	18	14%	53%	1,2
Humanities	5	7%	6	5%	20%	1,2
<b>Social Sciences</b>	3	4%	1	1%	33%	0,3
<b>Engineering Sciences</b>	5	7%	18	14%	60%	3,6
Information Technology	4	6%	4	3%	25%	1,0
Agronomy / Food Science / Environment / Biodiversity	7	10%	3	2%	43%	0,4
TOTAL	69	100%	126	100%	52%	1,8
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September 27 & 28th, 2018, Budapest

# What happens after a PHC Balaton project?

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

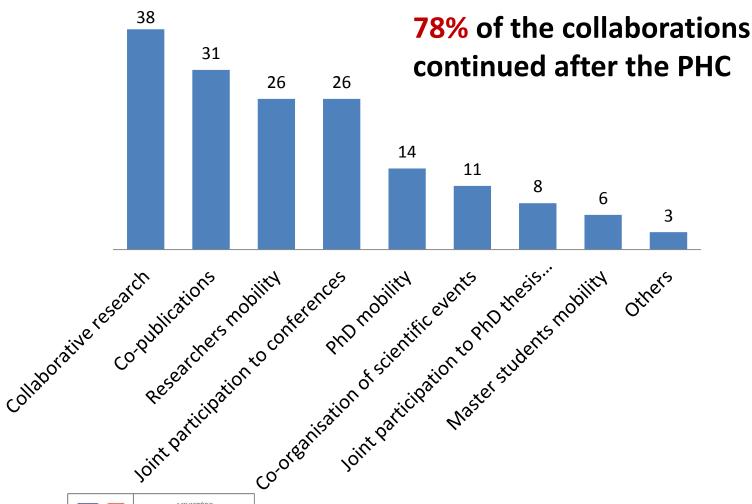


Continuation of the collaboration: 78% vs 81% mean

Continuation of the collaboration with other sources of subvention: 29% vs 33% mean



# CONTINUATION OF THE COLLABORATION (2/5)

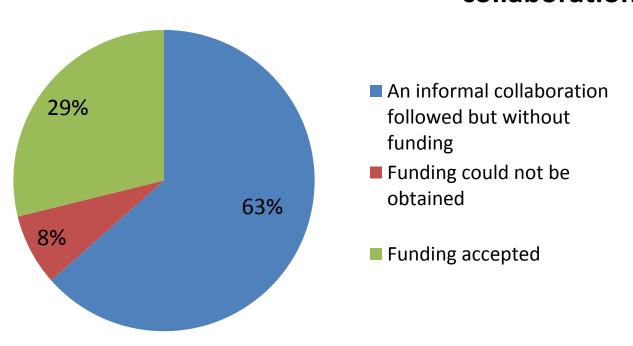


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# CONTINUATION OF THE COLLABORATION (3/5)

## **29%** of funded collaborations after the PHC

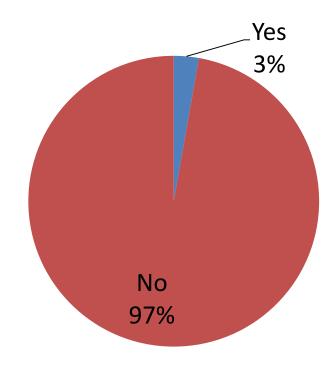


Survey data



# CONTINUATION OF THE COLLABORATION (4/5)

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



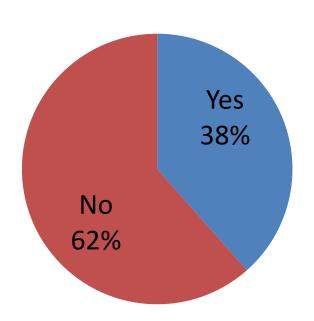
- 1 CNRS / LIA (international associated laboratory)
- 1 CNRS / International research network (IRN ex GDRI)

Survey data



# CONTINUATION OF THE COLLABORATION (5/5)

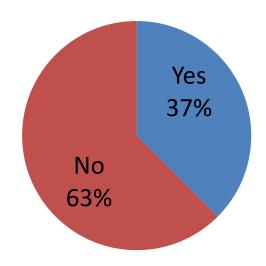
Has the French-Hungarian collaboration involved new partners?



Survey data

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

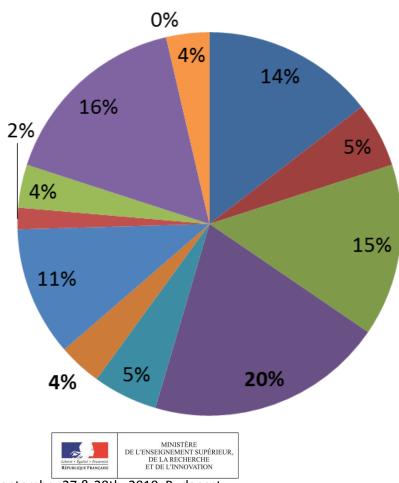
% of young researchers whose career was impacted by the PHC program



Survey data

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

### **Type of impacts**



■ Post PhD in Hungary

Post PhD in France

■ 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

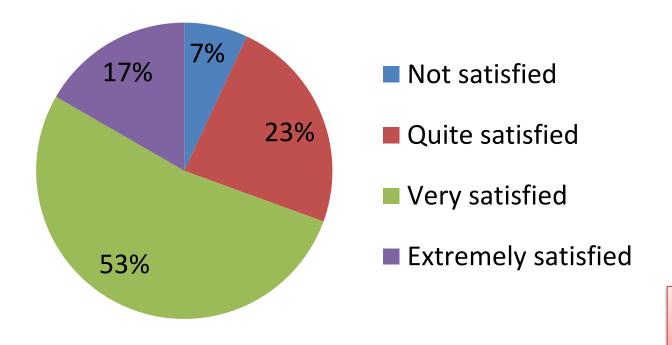
■ Employed in a private company in link with the field of Higher Education-Research in France

■ 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

### 93% of French principal investigators are satisfied



Survey data

### 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". Involvement of young researchers and co-publication rate could be improved.

## PRELIMINARY RECOMMENDATIONS

- Promote scientific co-publications (48% of projects with no copublications)
- Promote young French Pls (15 % of young researchers)
- Promote PHD students involvement (59 %)
- Promote project selection in Social Science domain (13% Success rate)
- Promote the set-up of joint structures
- Thoughts about new schemes for collaboration sustainability

French national ministries (MESRI / MEAE) will provide a complete analysis of the survey (incl. scientific impact). Il will be sent to the recipients of the funding and participants in this symposium.

#### **Contacts**

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