FRANCE - SERBIA

Scientific impact of the program PAVLE SAVIC (2006-2020)

MESRI-DAEI / MEAE

2021

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



GENERAL PRESENTATION OF THE PROGRAM

Creation: 2003

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

Total budget (France + Serbia): around 80 000 € / year

>> French budget : around 40 000 € / year

>> Serbian budget : around 40 000 € / year

Average budget per project (France + Serbia) : around 4 000 € / year

Average number of new funded projects per year: around 17

From 2006 to 2020:

353 applications submitted

134 projects funded



DATA SOURCES

Campus France (2006-2020)

- Information about the PHC Pavle Savic applications
- List of mobilities (from France to Serbia and from Serbia to France)

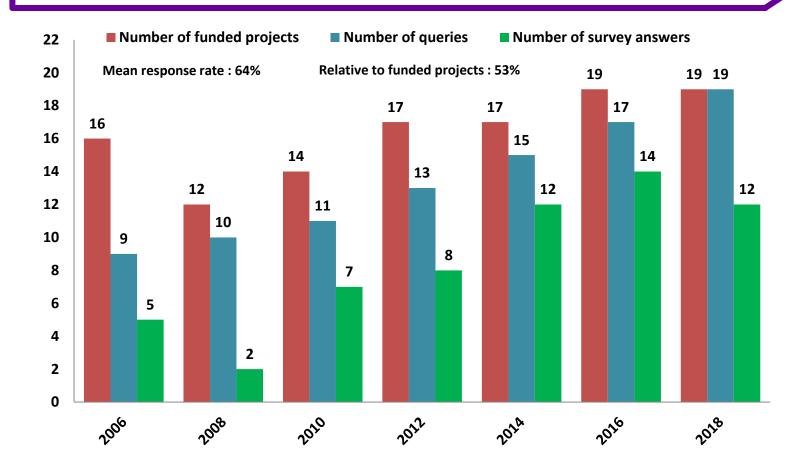
Survey (2006-2018)

- Target: French Principal Investigators of selected projects between 2006 and 2018
- Survey duration: 7 weeks between November 2020 and January 2021
- 64% response ratio (60 respondents for 94 queries)



ANSWERS TO THE SURVEY

Average response rate to the survey: 64 % (60 answers)



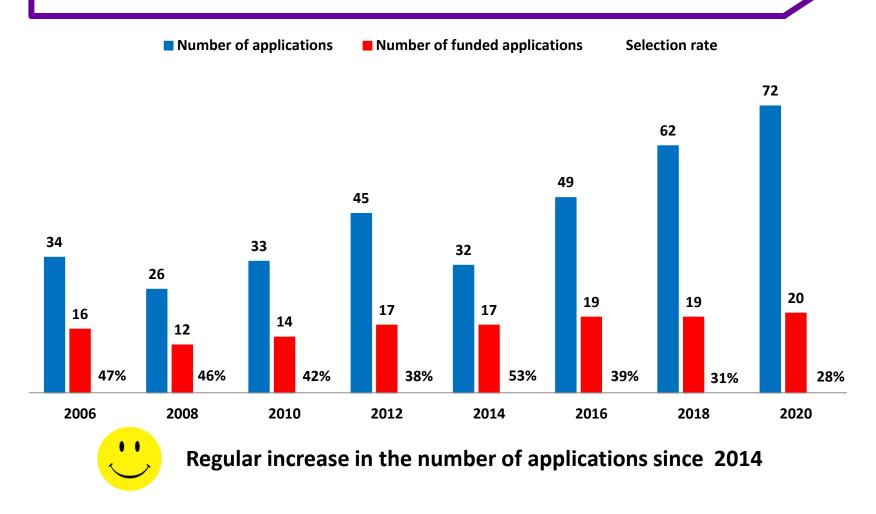
114 funded projects between 2006 and 2018, 94 valid email adresses



2006-2020 Key Points

NUMBER OF APPLICATIONS AND SELECTION RATE

Average selection rate from 2006-2020: 38%

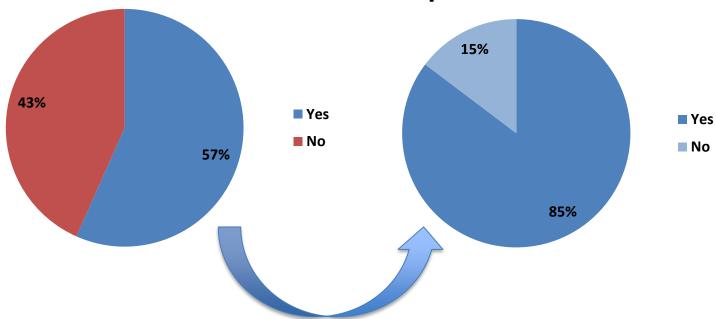




BEFORE THE PAVLE SAVIC PROJECT (1/2)

Did you already cooperate with Serbia in the past?

If yes, was it with the same partner?



Data from 60 responses

Data from 34 responses



BEFORE THE PAVLE SAVIC PROJECT (2/2)

With which scientific collaboration program ?			
PHC Pavle Savic	53%		
CNRS Joint Research program (PRC)	8%		
French Government grants	4%		
Cofunding with serbian institutions	2%		
CNRS Scientific Coperation International Programme (PICS)	2%		
European 7th PCRD	2%		
Other	29%		

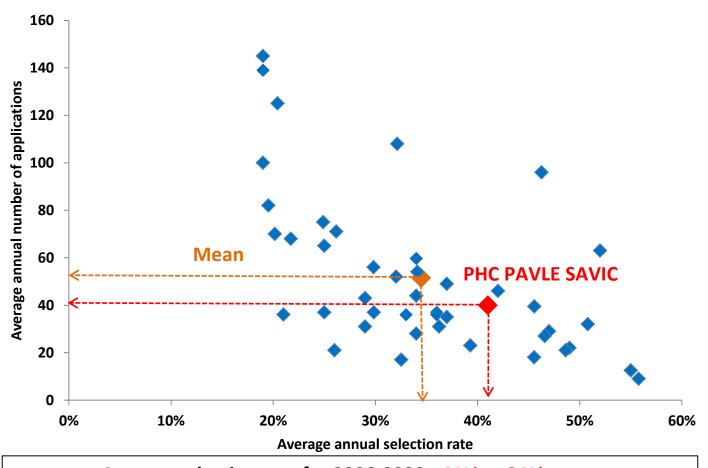
Plus 41 previous cooperations based on other exchanges (co-publication, meetings, joint PhD...)

Data from 51 responses



NUMBER OF APPLICATIONS VS SELECTION RATE

(COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)

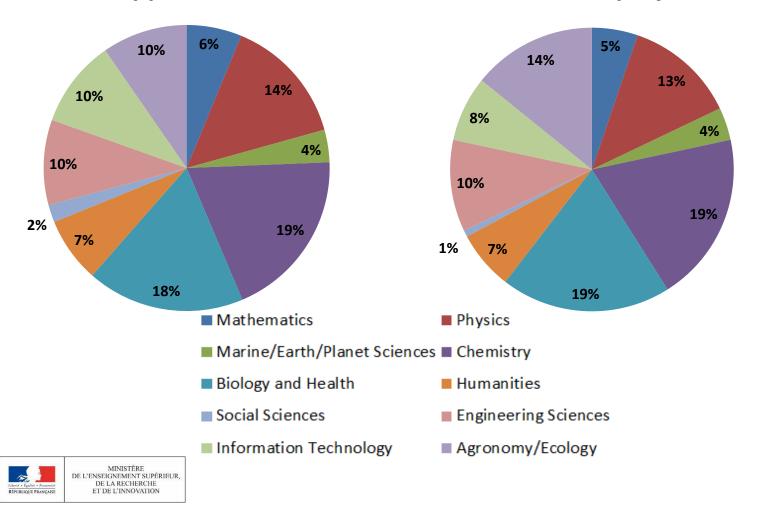


Average selection rate for 2006-2020 : 41% vs 34% mean Average annual number of applications 2006-2020 : 40 vs 51 mean



SCIENTIFIC DOMAINS OF PROJECTS 2006-2020

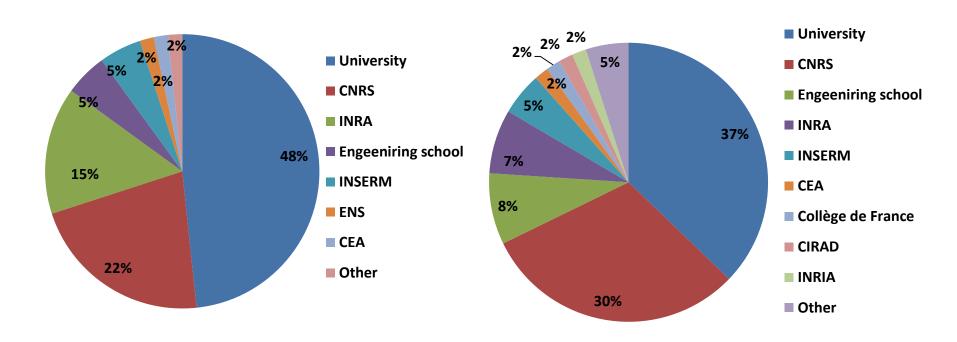
Number of applications: 353 Number of funded projects: 134



FRENCH PARTICIPATING INSTITUTIONS 2006-2018

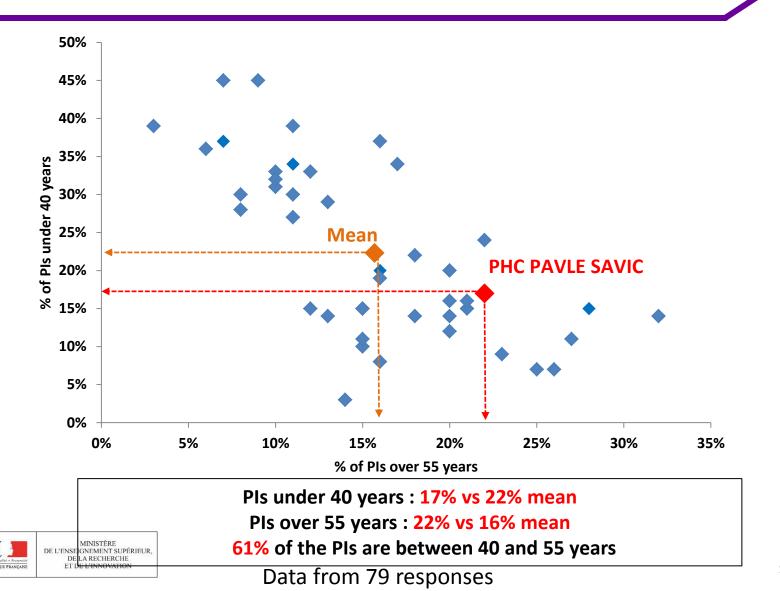
PI's employers

Laboratories authorities



AGE OF PRINCIPAL INVESTIGATORS (PI)

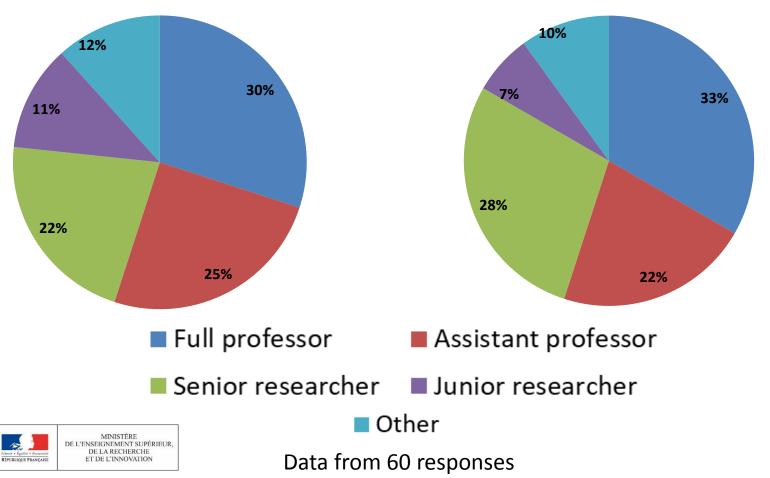
(COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)



FRENCH PIS (PRINCIPAL INVESTIGATORS): STATUS

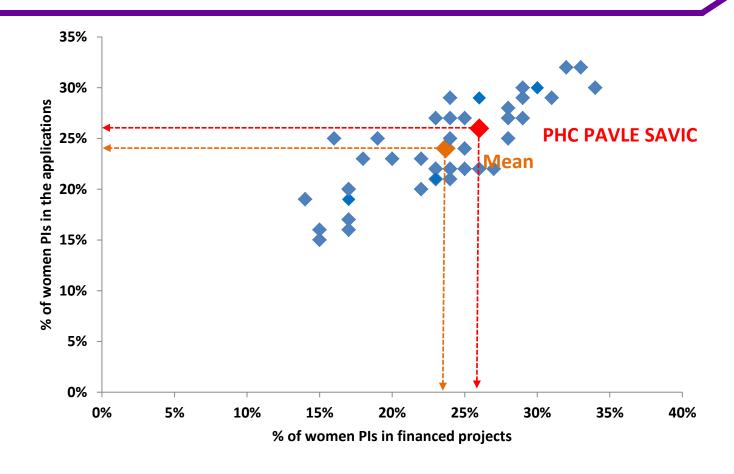
Previous professional status (at the beginning of the project)

Current professional status



IMPLICATION OF WOMEN (FRANCE)

(COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)



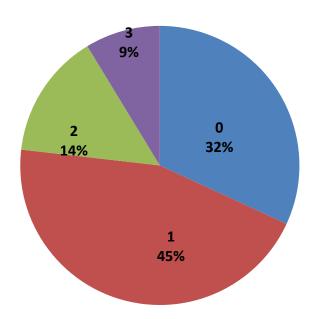
% of women PIs in the applications: 26% vs 24% mean % of women PIs in the selected projects: 26% vs 24% mean



DE LA RECHERCHE

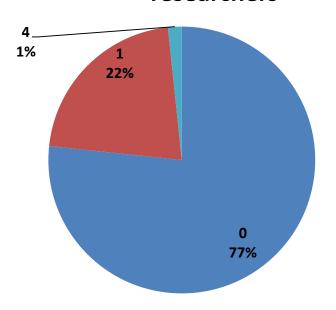
PARTICIPATION OF FRENCH YOUNG RESEARCHERS

Number of French PhD students



63% of projects involve at least one French PhD student

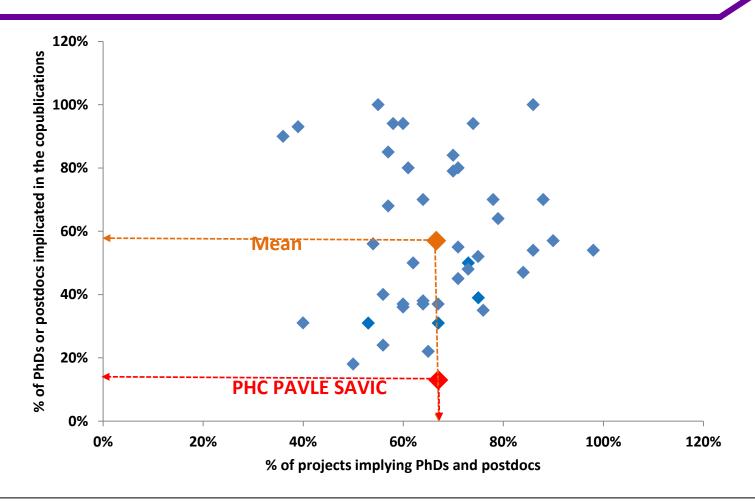
Number of French post-doctoral researchers



23% of projects involve at least one French post-doctoral researcher

IMPLICATION OF YOUNG RESEARCHERS

(COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)



% of projects implying young researchers: 67% vs 67% mean % of PhD or postdoc implicated in the copublications: 13% vs 57% mean

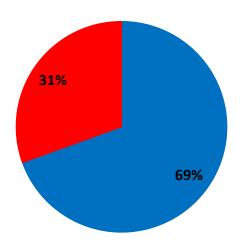


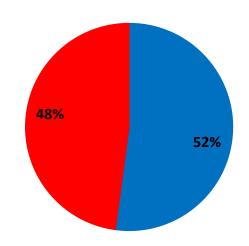
MOBILITY 2006-2019

MOBILITY: GENDER DISTRIBUTION

France → Serbia

Serbia → France





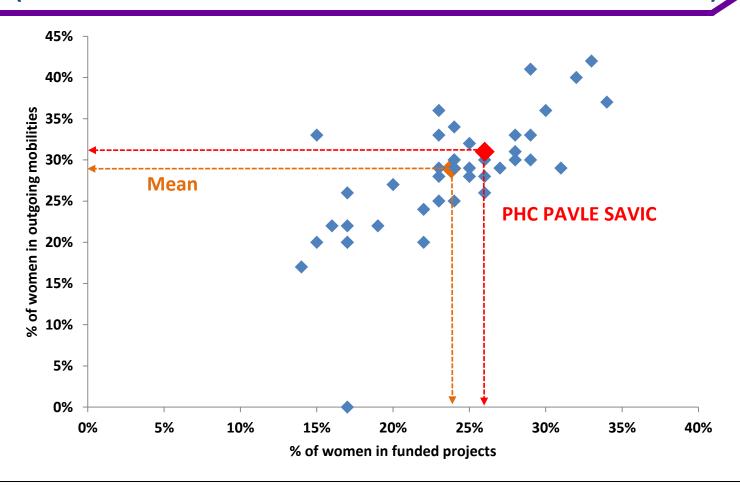
■ Men ■ Women

Data from 114 funded projects



FRENCH WOMEN MOBILITY FRANCE – SERBIA

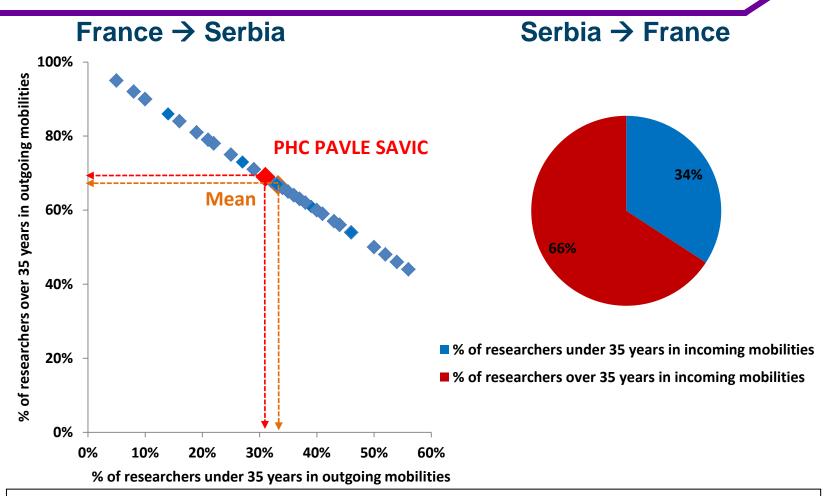
(COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)



% of women researchers in the selected projects: 26% vs 24% mean % of women researchers in outgoing mobilities: 31% vs 29% mean

YOUNG RESEARCHERS' MOBILITY

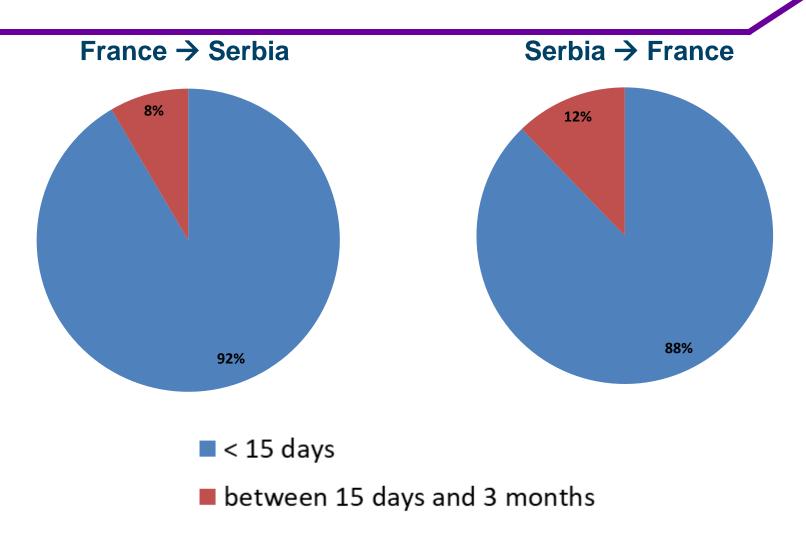
(COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)



% of French young researchers in outgoing mobilities: 31% vs 33% mean

of Serbian young researchers in incoming mobilities: 34% vs 44% (from 16 programs)

MOBILITY: DURATION



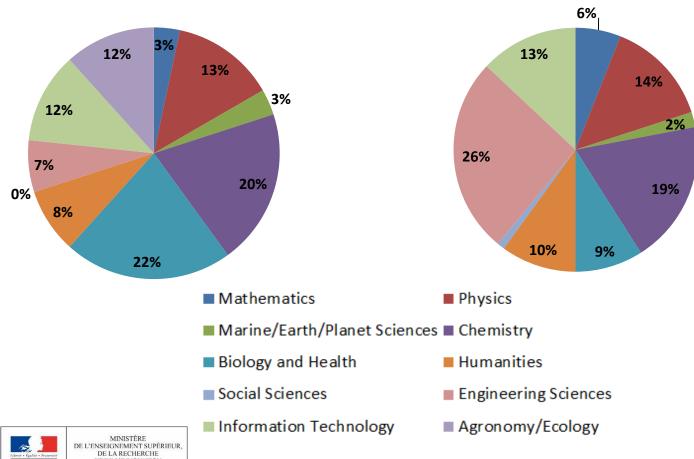


SCIENTIFIC PRODUCTION 2006-2017

SCIENTIFIC OUTPUT (1/2)

Funded projects with responses to the survey (60)

Percentage of copublications



SCIENTIFIC OUTPUT (2/2)

Data from 60 funded projects

	Number of financed projects in the survey	Average number of co-publications per project
Mathematics	2	3,00
Physics	8	1,75
Marine/Earth/Planet Sciences	2	1,00
Chemistry	12	1,58
Biology and Health	13	0,69
Humanities	5	2,00
Social Sciences	-	-
Engineering Sciences	4	0,25
Information Technology	7	3,71
Agronomy / Ecology	7	1,86
TOTAL	60	1,67

Overall average annual number of copublications per project: 0,83 vs 0,93 mean

57% of funded projects led to one co-publication at least 16% of copublications include at least 1 PhD or PostDoc

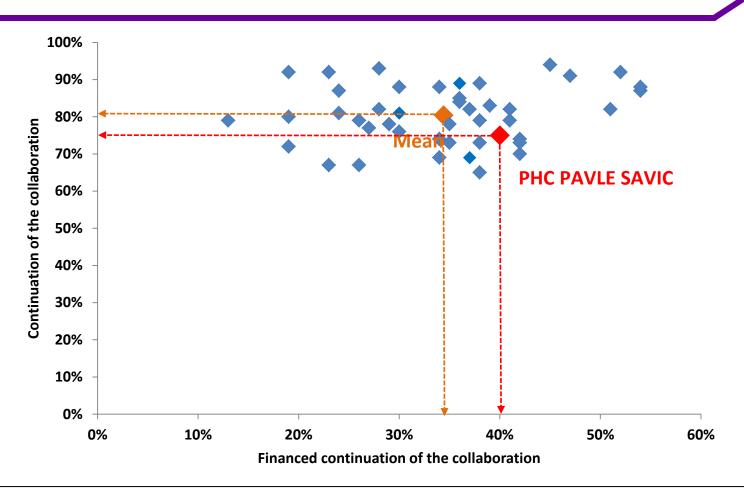
The average annual rate of publication for young researchers involved in the projects is 0,13

The average annual rate of publication for young researchers involved in the publications is 1,00



WHAT HAPPENS AFTER A PAVLE SAVIC PROJECT ?

CONTINUATION OF THE COLLABORATION (1/5) (COMPARISON BETWEEN 44 DIFFERENT BILATERAL PROGRAMS)



Continuation of the collaboration: 75% vs 80% mean

Continuation of the collaboration with other sources of subvention: 40% vs 34% mean



CONTINUATION OF THE COLLABORATION (2/5)

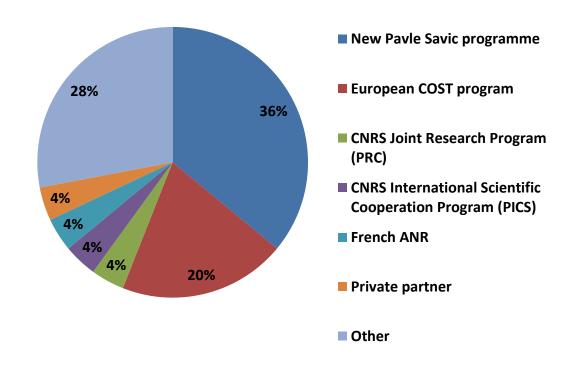
75% of the collaborations continued after the Pavle Savic project

Which activities?	
Collaborative research	70%
Co-publications	70%
Researchers' mobility	45%
Joint participation to conferences	43%
PhD mobility	30%
Co-organisation of scientific events	30%
Joint participation to PhD thesis	11%
Joint diplomas	2%
Other	11%



CONTINUATION OF THE COLLABORATION (3/5)

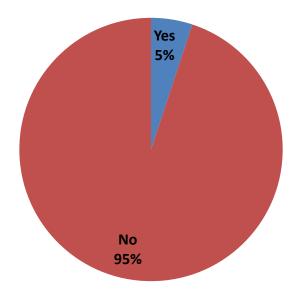
What kind of funded collaborations after the Pavle Savic project?





CONTINUATION OF THE COLLABORATION (4/5)

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

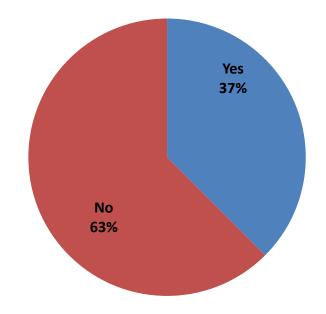


2 International Research Groups



CONTINUATION OF THE COLLABORATION (5/5)

Has the French-Serbian collaboration involved new partners?



For a total of 36 new partners from 18 different countries

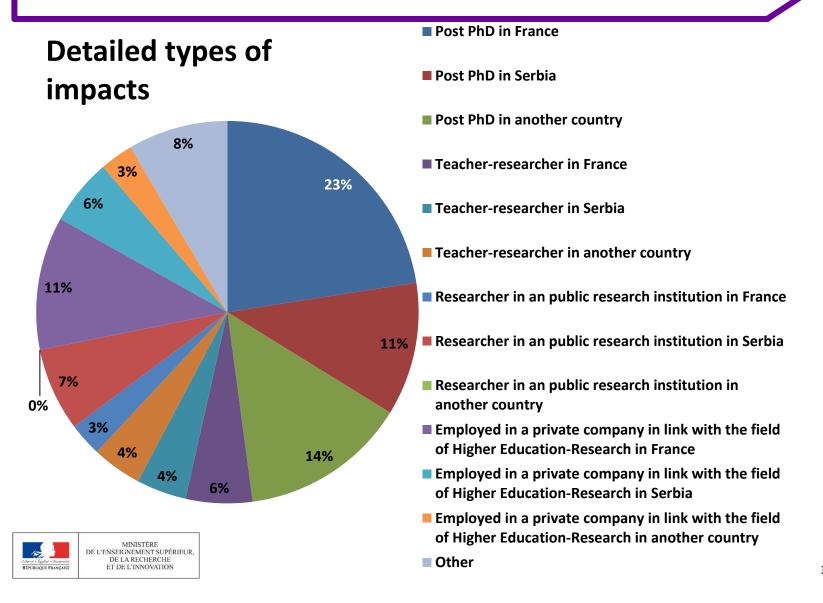


IMPACT ON YOUNG RESEARCHERS' CAREER (1/2)

Was french young researchers' career Type of impacts impacted by the Pavle Savic program? ■ Researcher in a public research institution 8% 10% (permanent position) I don't ■ Teacher/Researcher know 14% (permanent position) 27% 20% Yes 49% ■ Postdoc/Teacher/Resear cher (temporary position) No ■ Employed in a private 24% company in link with the field of Higher Education - Research 48% Other Data from 59 responses Data from 29 positive responses for a total of 71 young researchers

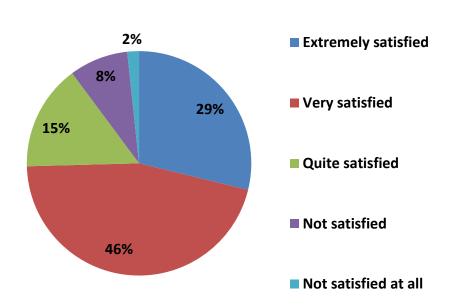
DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE

IMPACT ON YOUNG RESEARCHERS' CAREER (2/2)



GENERAL OPINION OF FRENCH PIS ON THE PROGRAM

90% of French principal investigators are satisfied





Data from 78 responses



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



SURVEY OF 59 FUNDED PROJECTS

Strengths of this program	Number of occurencies (out of 357)	% (out of 59)
Fostering researchers' mobility	45	75%
Fostering an international research collaboration	45	75%
Simplicity of the project application process	36	60%
Helping to know the partner country	36	60%
Fostering exchanges enabling scientific production	35	58%
Fostering the training of young researchers	31	52%
Easy implementation (administrative flexibility)	24	40%
Sufficient financial means for the mobility costs	18	30%
Good scientific-added value on financial investment	18	30%
Financial autonomy towards your institution	16	27%
Sufficient amount of mobility time given to collaborate	15	25%
Sufficiently long duration of the projects	13	22%
Helpful to initiate other fundraising	11	18%
Transparency of the selection process	5	8%
Timetable for implementation	4	7%
No strenght point	3	5%
Other	2	3%
Total number of occurencies		

ET DE L'INNOVATION

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



SURVEY OF 59 FUNDED PROJECTS

Weaknesses of this program	Number of occurencies (out of 149)	% (out of 59)
Insufficient financial means to cover a project	22	37%
Difficult to continue the collaboration	18	30%
Length of support too short	17	28%
Too short duration of mobilities	15	25%
Lack of transparency in the selection process	13	22%
Financial means insufficient for the expenditure of mobility (transport)	10	17%
Financial means insufficient for the expenditure of mobility (per diem)	9	15%
Too low number of mobilities	9	15%
No weakness	8	13%
Administrative heaviness of the missions management	8	13%
Heaviness of the process of applications	6	10%
Insufficient communication on the evaluation's results	4	7%
Financial autonomy towards your institution	1	2%
Timetable for implementation	1	2%
Flexibility of the program for actions co-financed with the partner	0	0%
Too long duration of mobilities	0	0%
Other	8	13%
Number of occurencies		

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".

Regular increase in the number of applications since 2014

Implication of women PIs in the applications (26%) and the selection (26%) slightly better than the general mean (24%)

Implication of French young researchers in 67% of the projects identical to the general mean Implication of French young researchers in the mobilities (31%) close to the general mean (33%) 75% of the projects led to a continued collaboration and 40% of them benefited from a sustained financing

57% of the PIs have already collaborated with Serbia and 85% of them have already benefited from a Pavle Savic program

17% of the applicants are under 40 years, a score lower than the general mean (22%)

43% of funded projects with no eligible co-publications

Only 13% of co-publications involve a french young researcher

Only 16% of the young researchers involved in the projects are also involved in the copublications

Annual rate of publication of young researchers involved in the projects too low (0,13) even though this rate of publication for young researchers involved in the co-publications is correct (1/year)





PRELIMINARY RECOMMENDATIONS

- Promote newer cooperations between France and Serbia
- Encourage young PIs to apply to the program
- Encourage French PIs to increase the implication of young researchers in the co-publications
- Increase the number of projects leading to co-publications
- Consider a "Pavle Savic +" program to help PIs at the end of their financing to continue the collaboration and to apply to international programs?



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

