

Scientific impact of the program (2003-2018)

MESRI-DAEI / MEAE

2019

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



GENERAL PRESENTATION OF THE PROGRAM

Creation : 1979

The purpose of this program is to start or develop the scientific cooperation and the relations between the research centres and the universities of the two countries, through the support for research joint projects of excellence, implying the mobility of researchers by giving a priority to the formation on the levels doctoral and post-doctoral.

Total budget (France + Brazil) : around 1 130 000 € / 4 years >> including budget from the French part : 565 000 € / 4 years >> including budget from the Brazilian part : 565 000 € / 4 years

Average budget per project (France + Brazil) : 12 300 € / year Number of new projects per year : around 35



From 2005-2016 :

1 291 applications submitted

415 projects funded

DATA SOURCES

Campus France

• List of mobilities (from France to Brazil and Brazil to France)

CAPES-COFECUB committee

• Informations about the CAPES COFECUB program applications

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

- Target : French Principal Investigators of selected projects between 2003 and 2015
- Survey duration : 7 weeks between January and March 2019
- 42% response ratio (192 respondents for 462 funded projects)

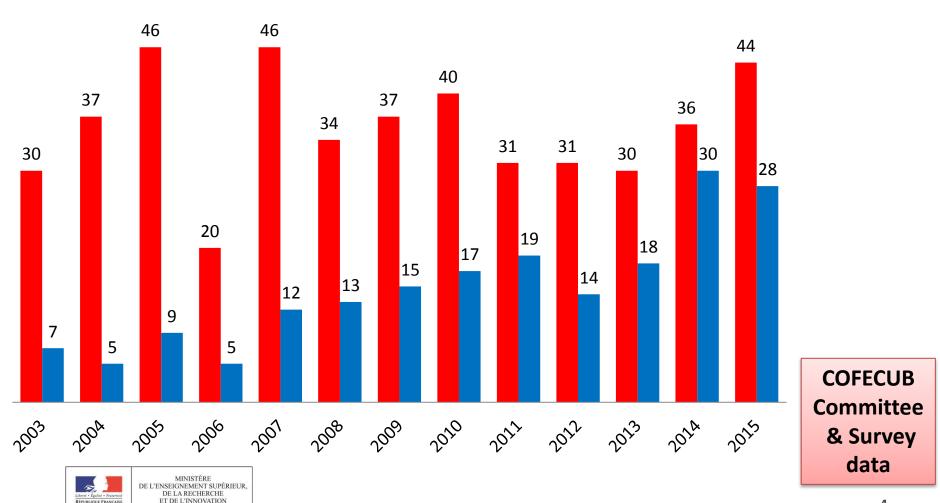


ANSWERS TO THE SURVEY

Average response rate to the survey : 42 % (192 answers)

Number of survey answers

Number of funded projects



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2003-2018 KEY POINTS



BEFORE CAPES-COFECUB PROJECT (1/3)

69% of French PIs have already collaborated with the same Brazilian partner

Which history of that collaboration	
Stay of a researcher in the laboratory partner	39%
Co-publication	35%
Management of students or trainees	25%
Former Project CAPES-COFECUB	22%
Joint supervision of PhD thesis	15%
Joint project funded by another way	15%
Other	11%
CNRS CNPQ	4%
Former project USP-COFECUB	3%

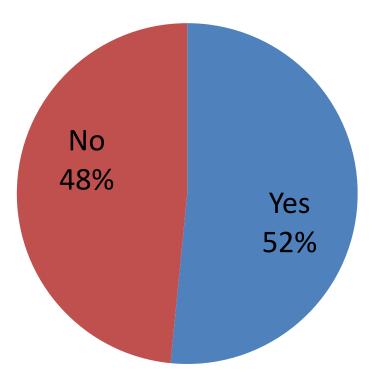


Survey

data

BEFORE CAPES-COFECUB PROJECT (2/3)

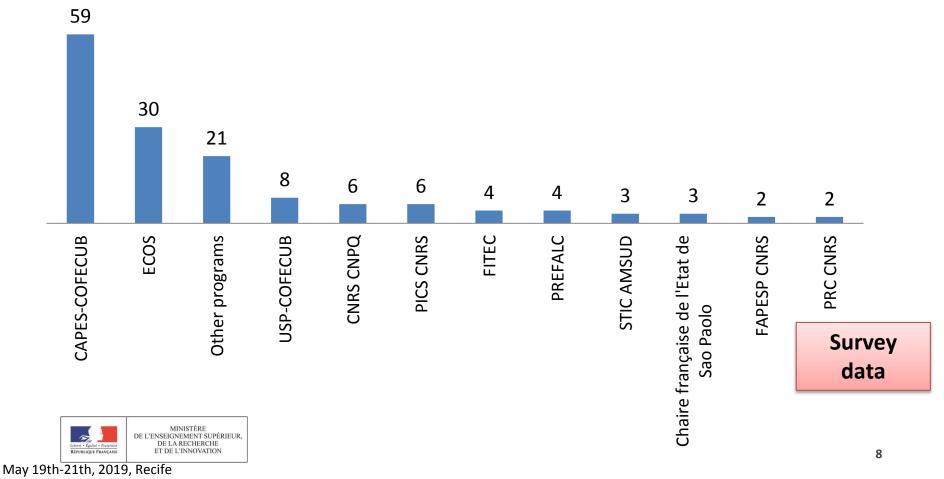
Previous participation to another funded cooperation program supported by France in Latin America





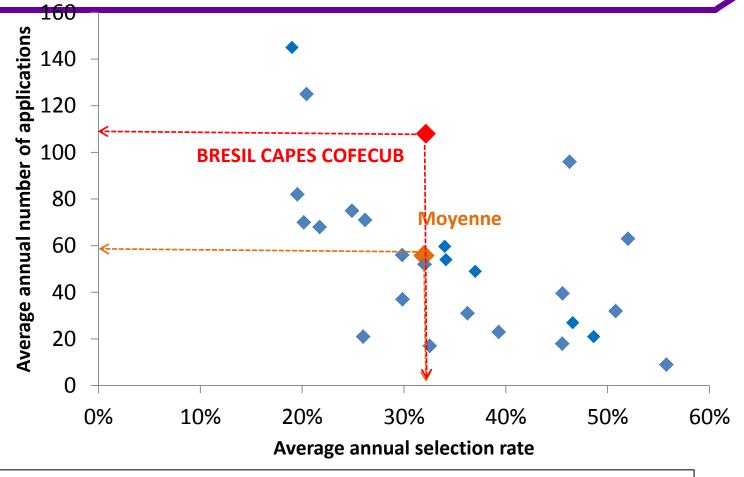
BEFORE CAPES-COFECUB PROJECT (3/3)

Previous participation to another funded cooperation program supported by France in Latin America



NUMBER OF APPLICATIONS VS SELECTION RATE

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



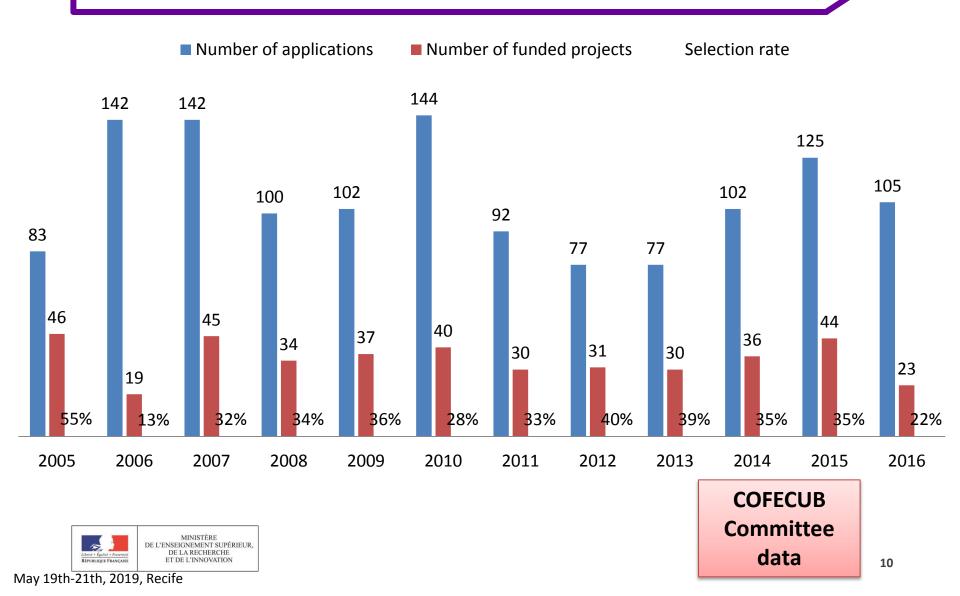
Average selection rate for 2005-2017 : 32% vs 32% mean Average number of applications 2005-2017 : 108 vs 56 mean

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ÉPUBLIQUE FRANCA

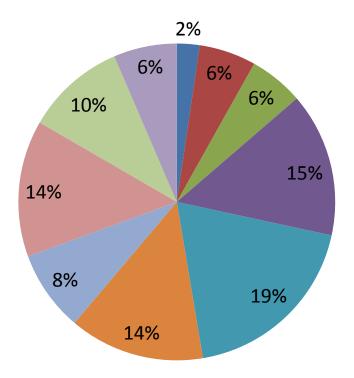
SUCCESS RATE

Average selection rate from 2005-2016: 32 %



SCIENTIFIC DOMAINS

Applications



Mathematics

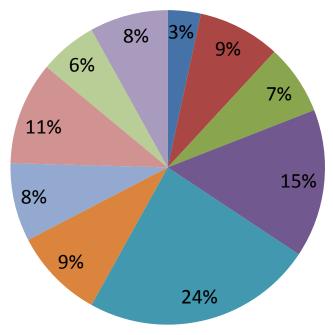
Physics

- Marine / Earth / Planet
 Sciences
- Chemistry
- Biology and Health
- Humanities
- Social Sciences
- Engineering Sciences
- Information Technology

COFECUB Committee data



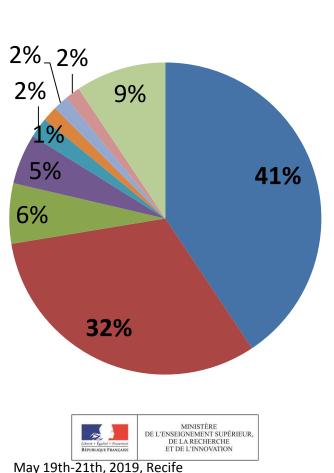
Funded projects

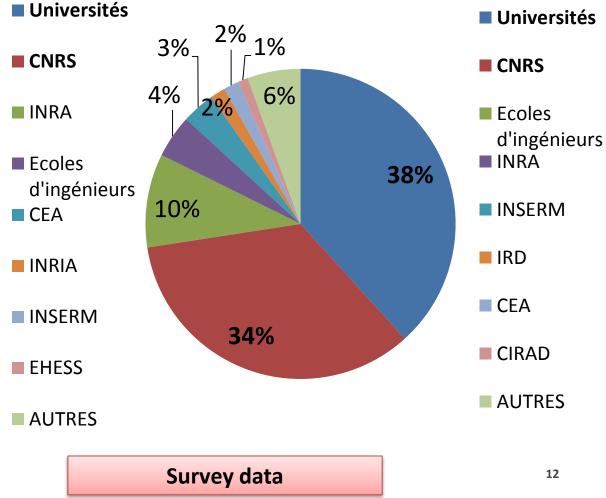


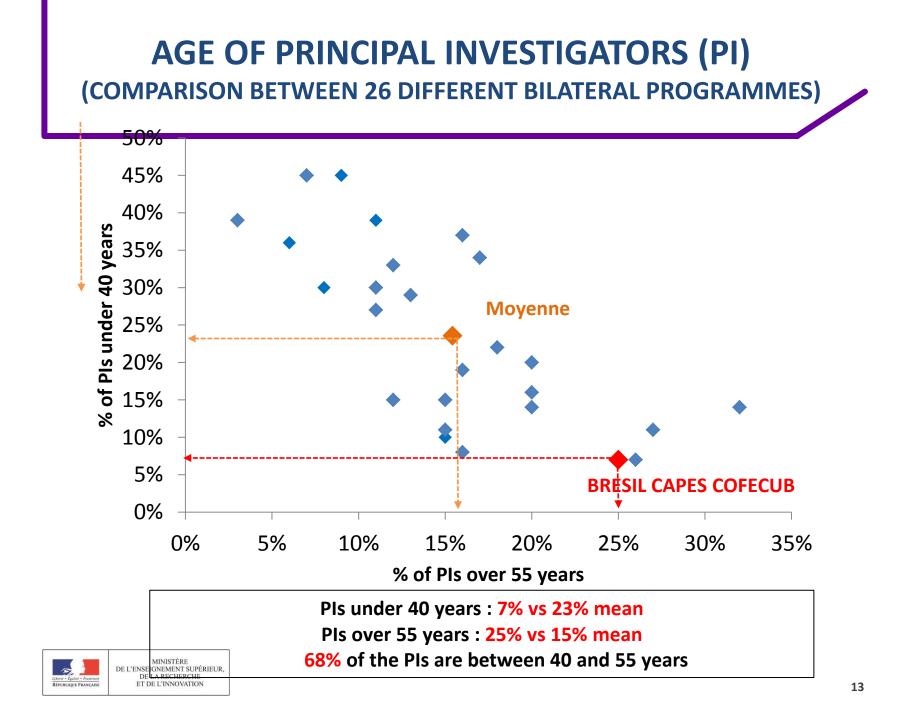
FRENCH PARTICIPATING INSTITUTIONS

PI's employers

Laboratories authorities

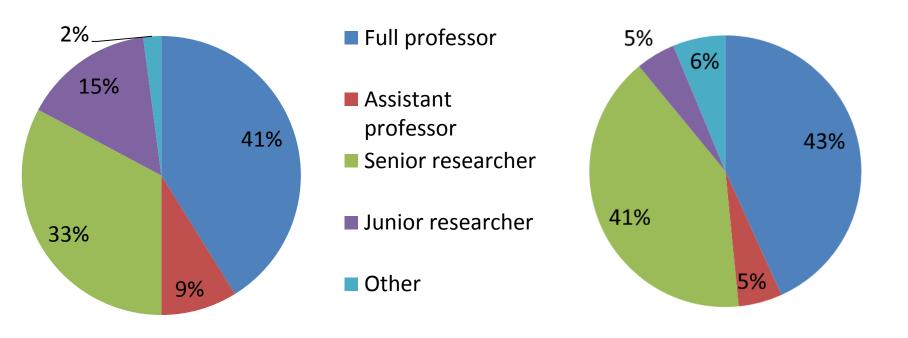




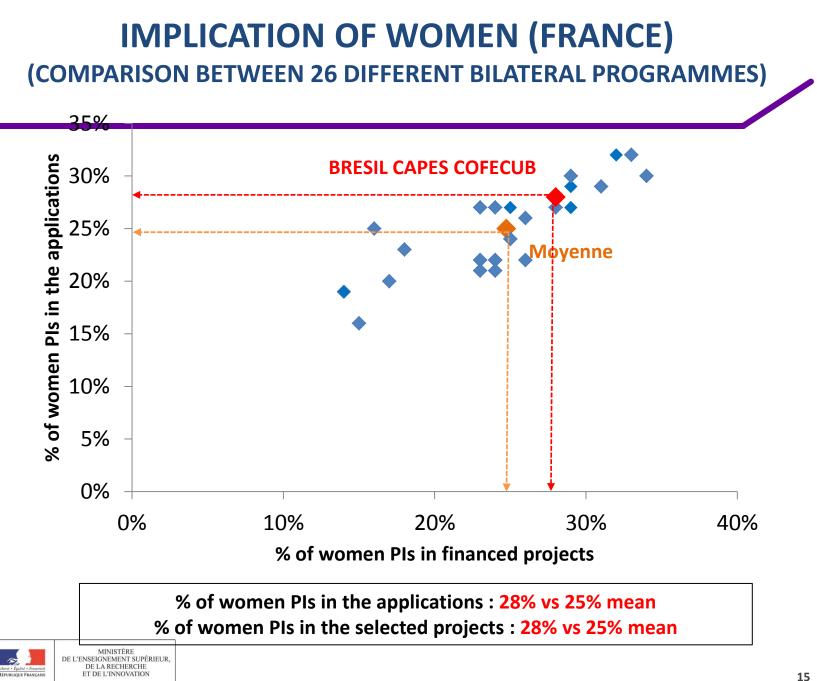


FRENCH PIS (PRINCIPAL INVESTIGATORS) : STATUS

Previous professional status (at the beginning of the project) **Current professional status**

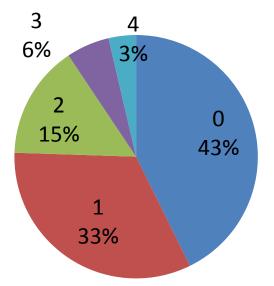






PARTICIPATION OF FRENCH YOUNG RESEARCHERS

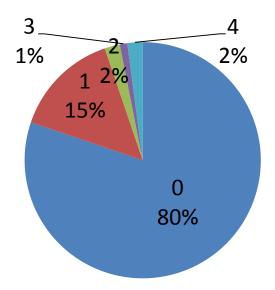
Number of PhD students



57% of projects involve at least one PhD student



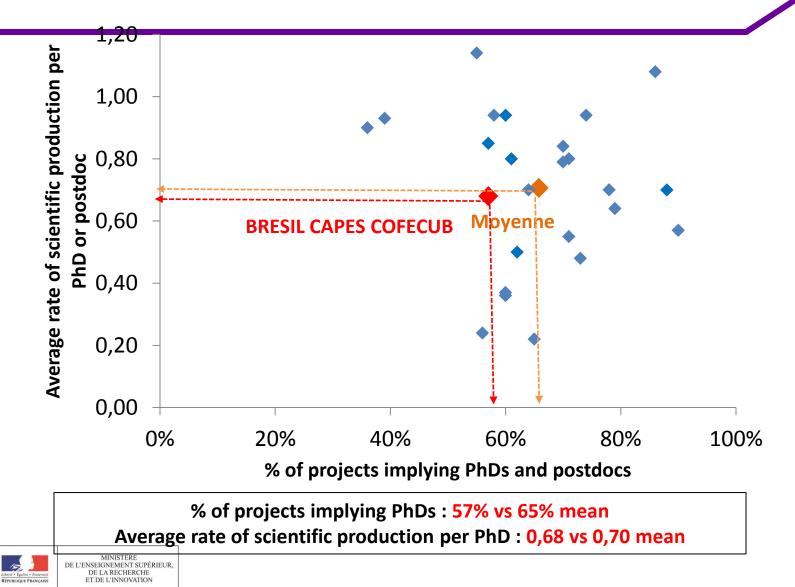
Survey data Number of postdoctoral researchers

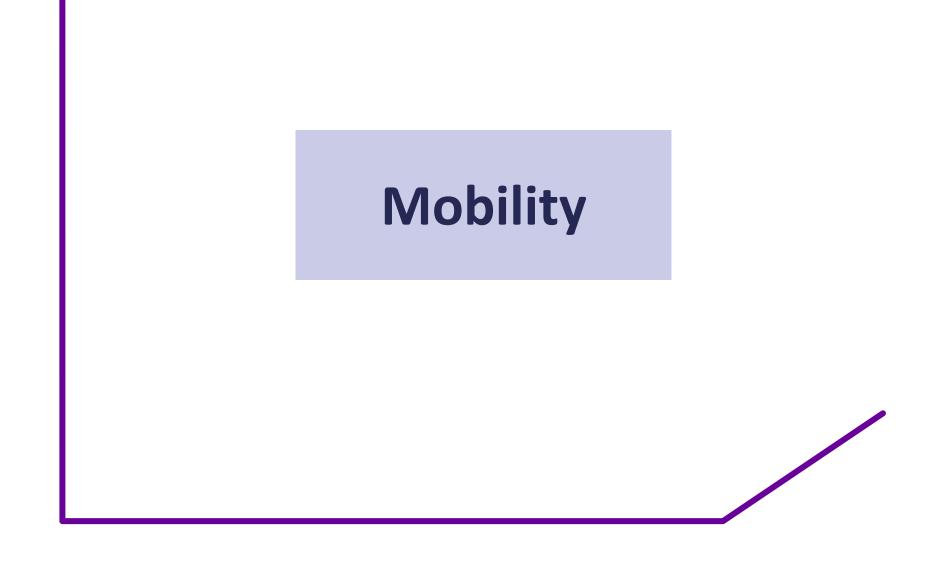


20% of projects involve at least 1 post-doctoral researcher

IMPLICATION OF PhDs

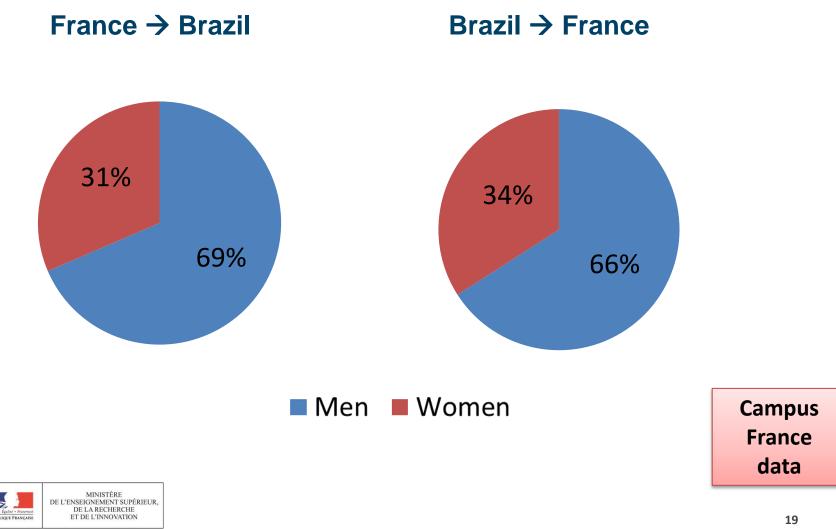
(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)







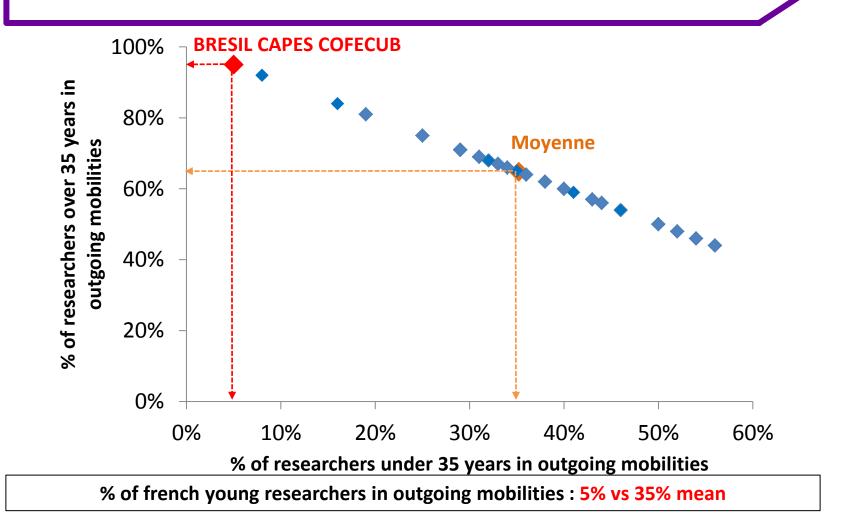
MOBILITY : GENDER DISTRIBUTION



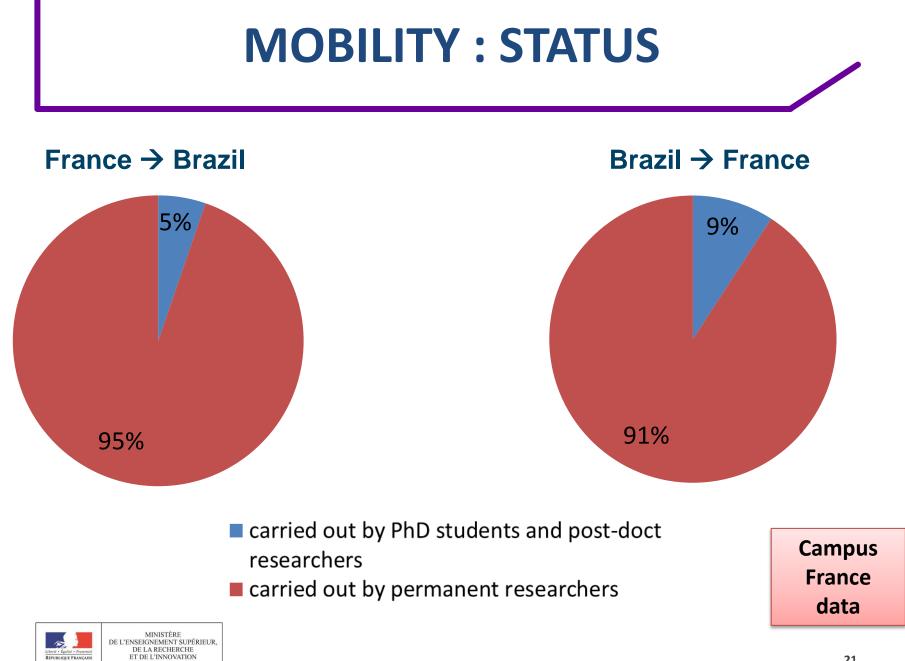
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MOBILITY FRANCE – BRAZIL

(COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)

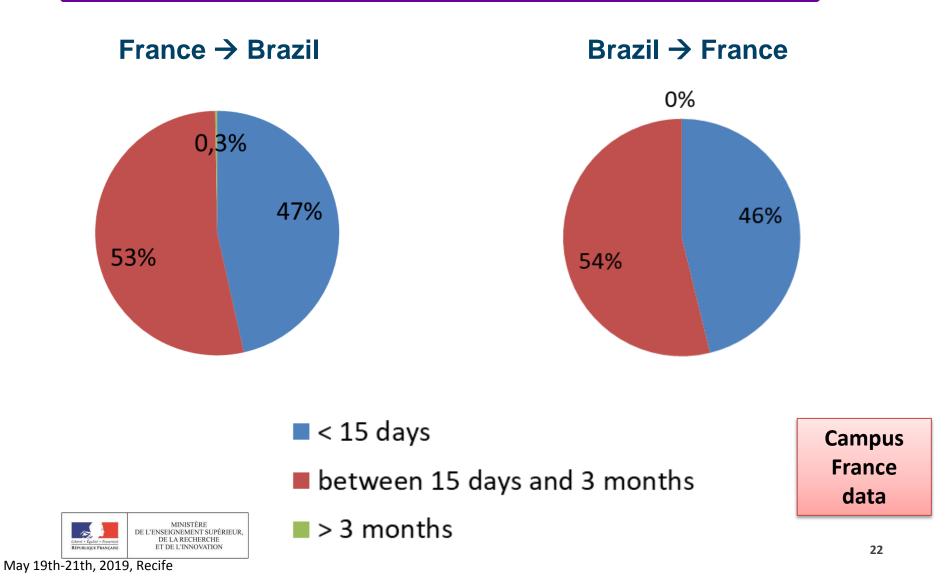




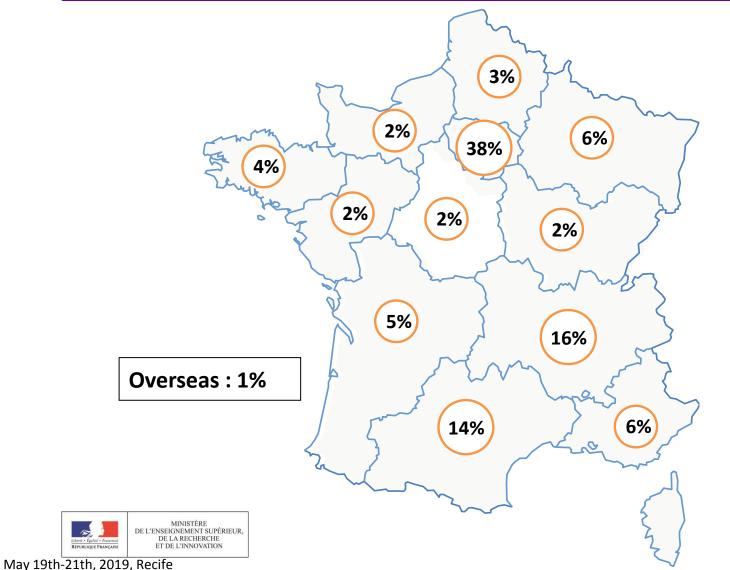


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MOBILITY : DURATION

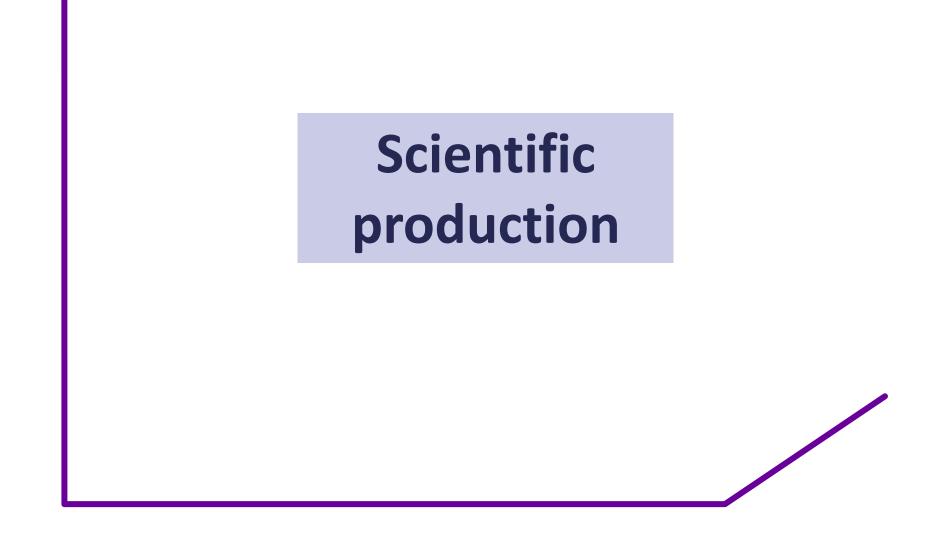


DISTRIBUTION OF PROJECTS ACROSS FRENCH REGIONS



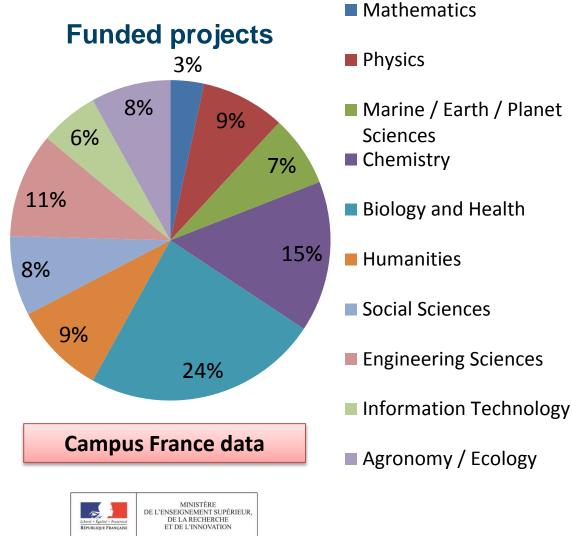
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Campus France data

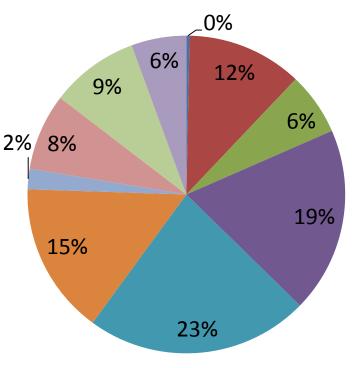




SCIENTIFIC OUTPUT : % OF FUNDED PROJECTS AND CO-PUBLICATIONS



Co-publications



SCIENTIFIC OUTPUT

74% of funded projects led to one co-publication at least 15% of copublications include at least 1 PHD or PostDoc

	Number of funded projects by thematic area	maniante hu	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	Average number of co- publications per project
Mathematics	6	3%	3	0%	50%	0,5
Physics	23	12%	107	12%	74%	4,7
Marine / Earth / Planet Sciences	18	9%	58	6%	67%	3,2
Chemistry	25	13%	172	19%	88%	6,9
Biology and Health	42	22%	207	23%	83%	4,9
Humanities	26	14%	141	15%	58%	5,4
Social Sciences	9	5%	19	2%	44%	2,1
Engineering Sciences	20	10%	71	8%	80%	3,6
Information Technology	13	7%	82	9%	69%	6,3
Agronomy / Ecology	10	5%	51	6%	100%	5,1
TOTAL	192	100%	911	100%	74%	4,7



Survey

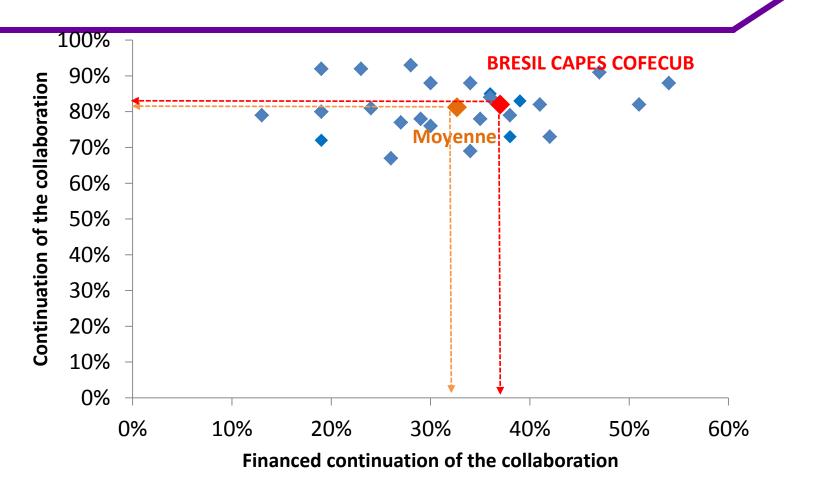
data

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What happens after a CAPES-COFECUB project?



CONTINUATION OF THE COLLABORATION (1/4) (COMPARISON BETWEEN 26 DIFFERENT BILATERAL PROGRAMMES)



Continuation of the collaboration : 82% vs 81% mean

Continuation of the collaboration with other sources of subvention : 37% vs 33% mean



CONTINUATION OF THE COLLABORATION (2/4)

82% of the collaborations continued after the project

Which activities?	
Collaborative research	55%
Co-publications	55%
Researchers mobility	49%
Joint participation to conferences	38%
PhD mobility	33%
Joint supervision of PhD thesis	30%
Co-organisation of scientific events	19%
Others	8%
International Associate laboratory	2%

RÉPUBLIQUE FRANÇAL May 19th-21th, 2019, Recife

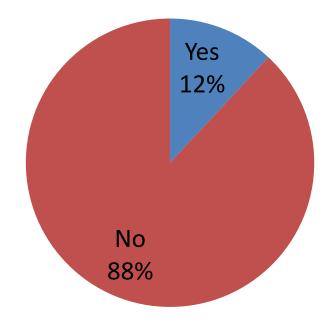
DE LA RECHERCHE

ET DE L'INNOVATION

CONTINUATION OF THE COLLABORATION (3/4)

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

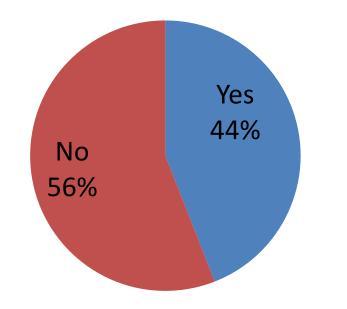
- 9 CNRS / LIA (international associated laboratory)
 3 CNRS International research network
 2 Mixt international laboratories
 1 CNRS / PRC (joint research project)
 1 CNRS / UMI (mixt international unit)
- + 9 other joint structures





CONTINUATION OF THE COLLABORATION (4/4)

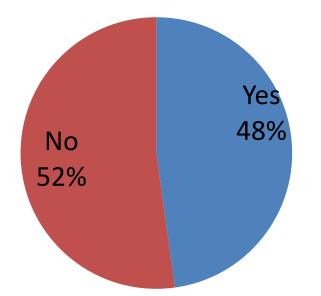
Has the French-Brazilian collaboration involved new partners?





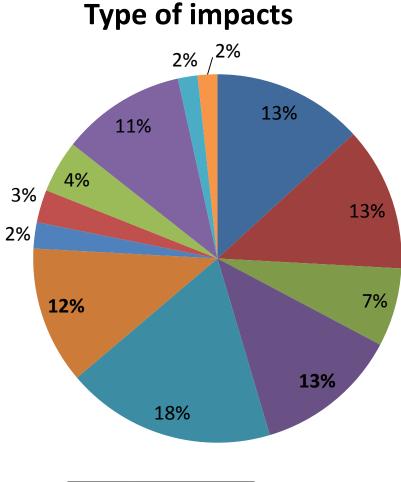
IMPACT ON YOUNG RESEARCHERS' CAREER (1/2)

% of young researchers whose career was impacted by the CAPES-COFECUB program





IMPACT ON YOUNG RESEARCHERS' CAREER (2/2)



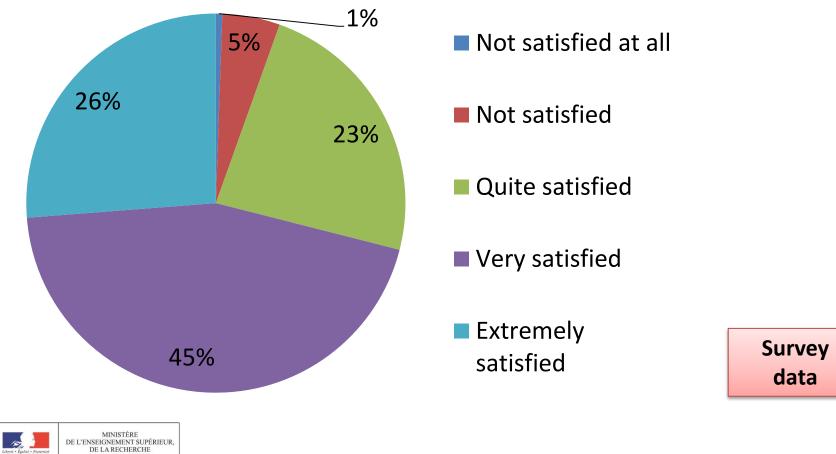


- Post PhD in Brasil
- Teacher-researcher in Brasil
- Researcher in an public research institution in France
- Employed in a private company in link with the field of Higher Education-Research in France
 Post PhD in France
- Post PhD in another country
- Teacher-researcher in another country
- Employed in a private company in link with the field of Higher Education-Research in Brasil
- Employed in a private company in link with the field of Higher Education-Research in another country
- Teacher-researcher in France

- Researcher in an public research institution in Brasil
- Researcher in an public research institution in another country

GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME

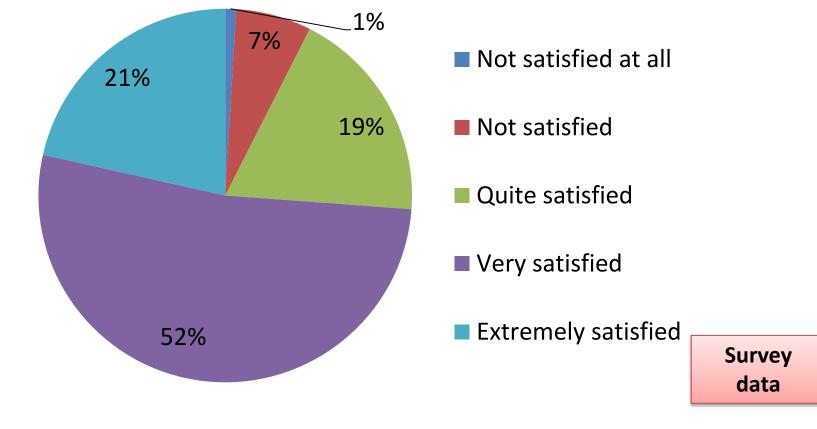
94% of French principal investigators are satisfied



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OPINION OF FRENCH PIS ABOUT FRENCH EMBASSY HELP

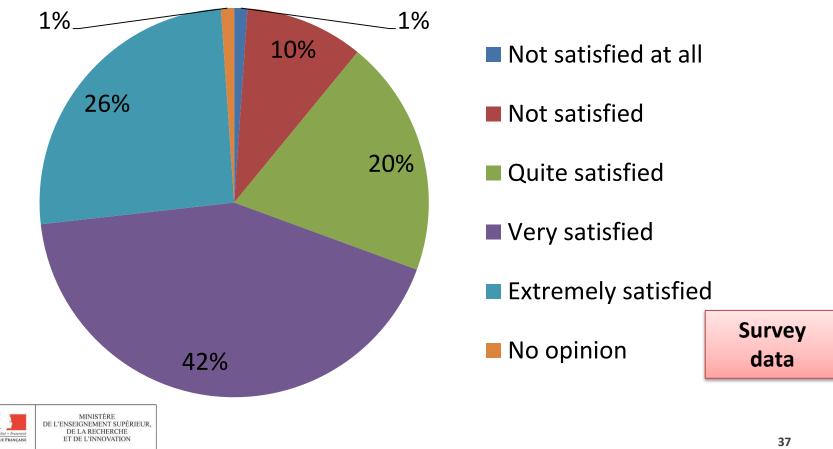
92% of French principal investigators are satisfied





OPINION OF FRENCH PIS ABOUT COFECUB COMITEE HELP

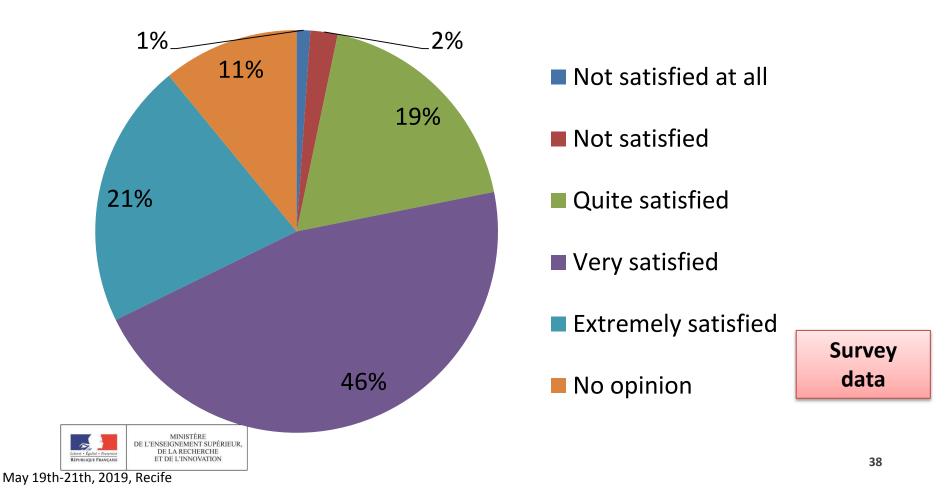
88% of French principal investigators are satisfied



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OPINION OF FRENCH PIS ABOUT CAMPUS FRANCE HELP

86% of French principal investigators are satisfied



GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (+)

Strengths of this program	%
Allows an international scientific collaboration	84%
Allows the mobility of the researchers	81%
Allows the training of the young researchers	70%
Allows exchanges which allow a scientific production	65%
A light/flexible application process	59%
Allows a knowledge of the country partner	46%
long-enough duration of the projects	44%
Easy setting-up (administrative flexibility)	39%
Duration of mobilities meeting the needs	32%
Good scientific added-value compared to the	
financial investment	30%
Sufficient financial means for the expenditure of mobility	/ 26%
Is used as a means for raising other funds	20%
Transparency of the methods for selecting the projects	9%
Other	3%

GENERAL OPINION OF FRENCH PIS ON THE PROGRAMME (-)

Weaknesses of this program	%
No funding for the operation and capital expenditures	56%
Deficit in communication about the evaluation's results Lack of transparency about the methods of projects	34%
selection	33%
Trouble in the collaboration sustainability	29%
Insufficient Financial means for the expenditure of mobility	
(per diem)	25%
Insufficient Financial means for the expenditure of mobility	
(flights)	16%
Heaviness of the process of applications	11%
Too short duration of mobilities	11%
Too low number of mobilities	11%
Other	10%
Too short duration of the projects	8%
Administrative heaviness of the missions management	8%
Too long duration of mobilities	5%

PRELIMINARY CONCLUSIONS

Preliminary conclusions suggest that the funding scheme has efficiently contributed to develop & 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 selection rate could be improved.



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PRELIMINARY RECOMMENDATIONS

- Promote NEW collaborations (69% of French PI have already collaborated before CAPES-COFECUB project
- Promote young french PIs (7 % of young researchers)
- Promote young researcher's mobilities (5% of the mobilities)
- Improve COFECUB committee feedback toward candidates
- Improve success rate (10,5% in 2018) Change the project duration ?
- Improve per diem's amount for staying in Paris, and also for staying in Brazil
- Soften the constraint of number of days for the missions



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.

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