

Principio científico, Empreendedorismo

## ***CIFRE-Internacional/Brasil***

***Foim National CONSECTI - CONFAP***

***1 e 2 de dezembro 2011***

# *Dispositivo CIFRE internacional, objetivos*

- *Posicionar os doutorandos em condições de emprego científico multicultural e torna-los potencias profissionais internacionais de alto nivel*
- *Contribuir ao desenvolvimento de colaborações e parcerias de pesquisa entre as empresas e os laboratorios estrangeiros*

# Princípio do dispositivo CIFRE

**ANRT, em nome do  
Ministério da Pesquisa**

Avalia as condições  
de formação do  
doutorado

Avalia o  
compromisso da  
empresa

Financia a  
empresa  
(14 000 €/ano)  
+  
CIR  
(crédito fiscal  
para pesquisa)

Trabalha em parceria/  
Contrato de colaboração

**EMPRESA**

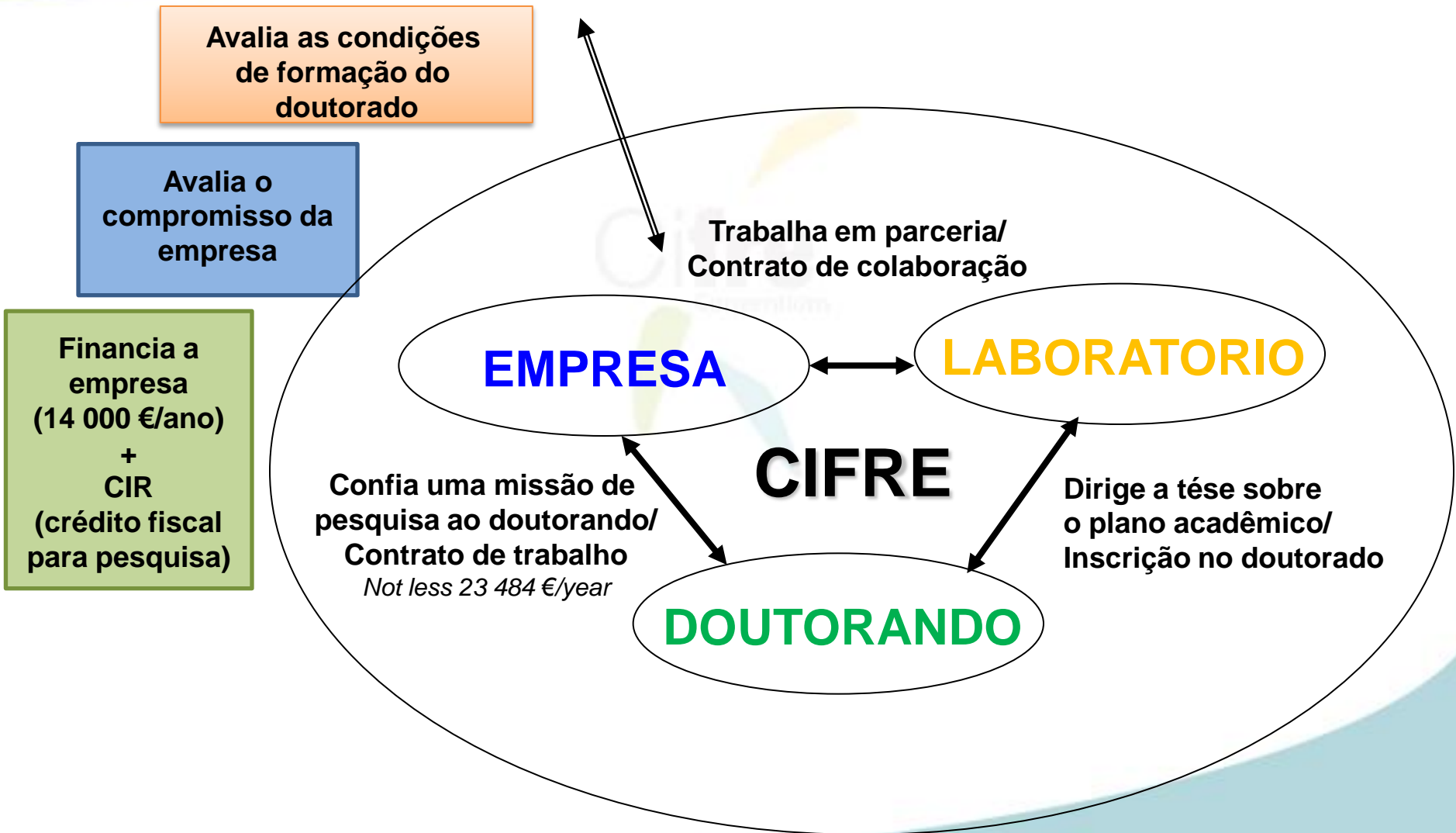
**LABORATORIO**

**CIFRE**

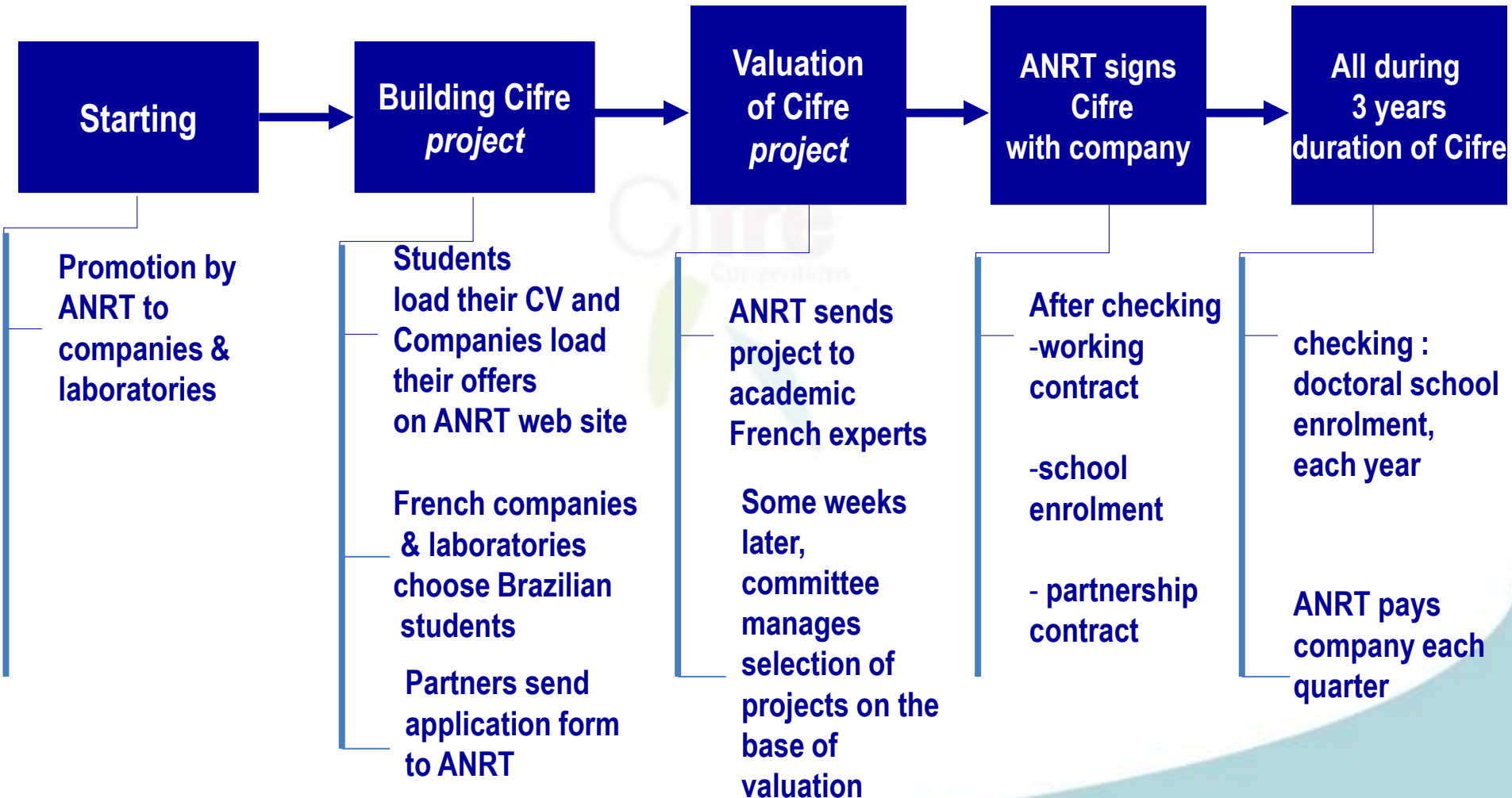
Confia uma missão de  
pesquisa ao doutorando/  
Contrato de trabalho  
*Not less 23 484 €/year*

Dirige a tese sobre  
o plano acadêmico/  
Inscrição no doutorado

**DOUTORANDO**



# Process organisation



# O dispositivo **CIFRE** em 30 anos

- Uma comunidade de **13 000 doutores**, dirigentes, pesquisadores, professores,...
- Um dispositivo :
  - ✓ para todos os tamanhos de empresa
  - ✓ para todos os setores de atividade
  - ✓ para todas as disciplinas científicas
- **3600 doutorandos**
  - 2 600 publicações internacionais em 2010
  - 270 patentes em 2010
- Taxa de defesa de tese: 90% em 2010



# Um pool internacional de 13 000 doutores Cifre

http://www.cifre.org/ - Windows Internet Explorer

http://www.cifre.org/#annuaire/atlas/

Fichier Edition Affichage Favoris Outils ?

Google Recherche Partager Mes favoris Orthographe Traduire Saisie automatique Connexion


http://www.cifre.org/

Clarisse Angelier : Déconnexion Administration

Cifre Conventions

Annuaire Atlas Mon profil

Relief Satellite Plan



The map displays a world map with numerous red pins indicating the locations of Cifre doctors. The pins are concentrated in Europe, particularly in France, Spain, Italy, and the UK, with other pins scattered across North America, South America, Africa, and Asia. Country names are labeled in both French and English. The map interface includes navigation controls on the left and a style selector (Relief, Satellite, Plan) in the top right.

démarrer

Boîte de réception - ... 24h chrono Doctoran... Google - Windows Int... http://www.cifre.org... 12:30

## Antônio Padilha L. Bó

### human-centered robotics at UnB

#### Main

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- [Contact info](#)
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#### Research

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  - [Videos](#)
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- [Past projects](#)
  - [3D heart motion estimation](#)
  - [Aerial robotics](#)
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#### Teaching

- [Dispositivos e circuitos eletrônicos](#)
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I am professor at the Electrical Engineering Department (ENE), Universidade de Brasília (UnB), Brazil, and a robotics researcher affiliated with the Laboratory of Automation and Robotics (LARA). Currently, my research interests are mainly concentrated on the fields of medical robotics, human-robot interaction, and applications of control and estimation theory to biomedical engineering.

My PhD studies were conducted at the Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier (LIRMM), France. The main goal of the thesis, supervised by Prof. Philippe Poignet, was to evaluate the use of Functional Electrical Stimulation (FES) to suppress pathological tremor on the upper limb. Some of the results of the project, which was developed under financial and technical support from MXM/Neuromedics, a biomedical company based at Sophia-Antipolis, France, is available within my publications.

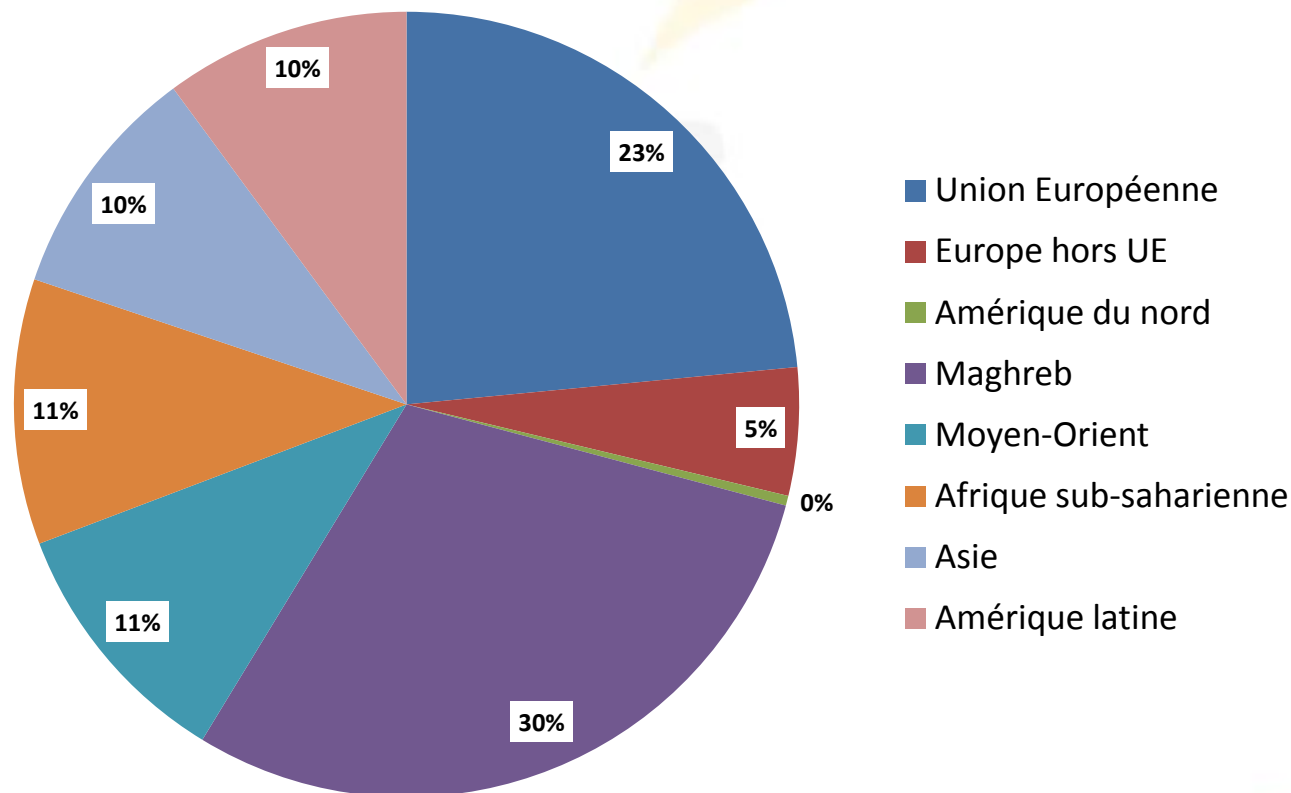
My undergraduate studies in control and automation engineering were conducted mainly at the Universidade de Brasília (UnB), Brazil, with an exchange period at the Kungliga Tekniska Högskolan (KTH), Sweden. During my master studies, also conducted at the Universidade de Brasília, I worked in an aerial robotics project, being responsible for the localization system based on multiple low cost sensors. This work was developed under the supervision of Prof. Geovany Araújo Borges.

Between 2004 and 2006, I organized robotics and technology courses in a high school in Brasília, which increased my interest in science education. I also worked as a technical analyst for the Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), a Brazilian science funding agency.

For further information, please access my CV ([pdf](#) in English, [online](#) in Portuguese).

# Um pool internacional de doutorandos

21% dos doutorandos 2010 tem como origem :

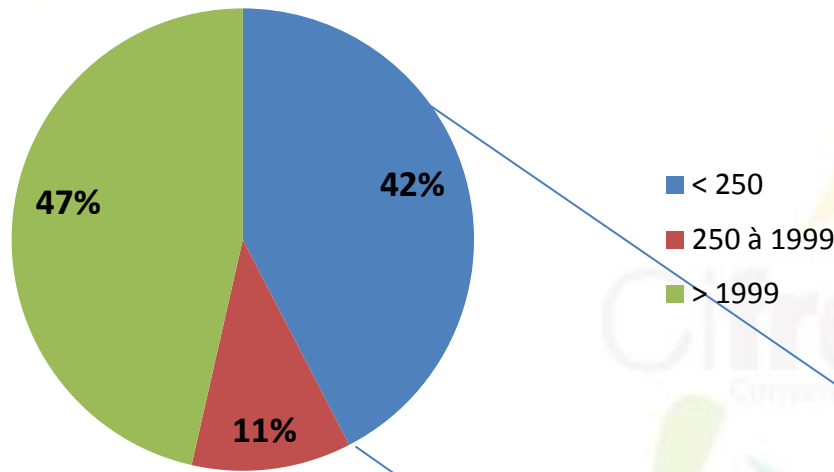


# O dispositivo **CIFRE** em 30 anos

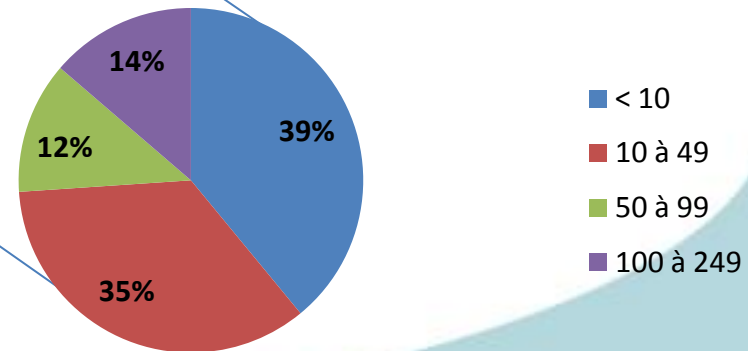
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# Todos os tipos de empresa utilizam as CIFRE

Distribuição das CIFRE 2010 pelo tamanho das empresas

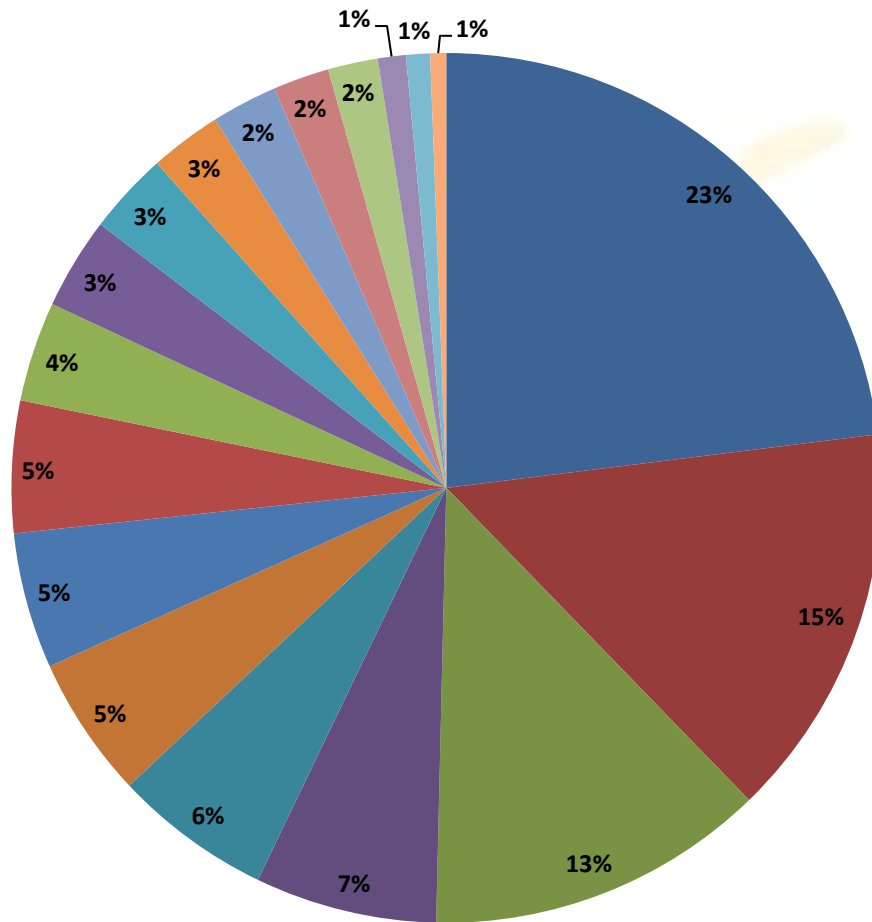


Distribuição das CIFRE 2010 pelo tamanho das empresas com menos de 250 pessoas



# Todos os setores de atividade utilizam as CIFRE

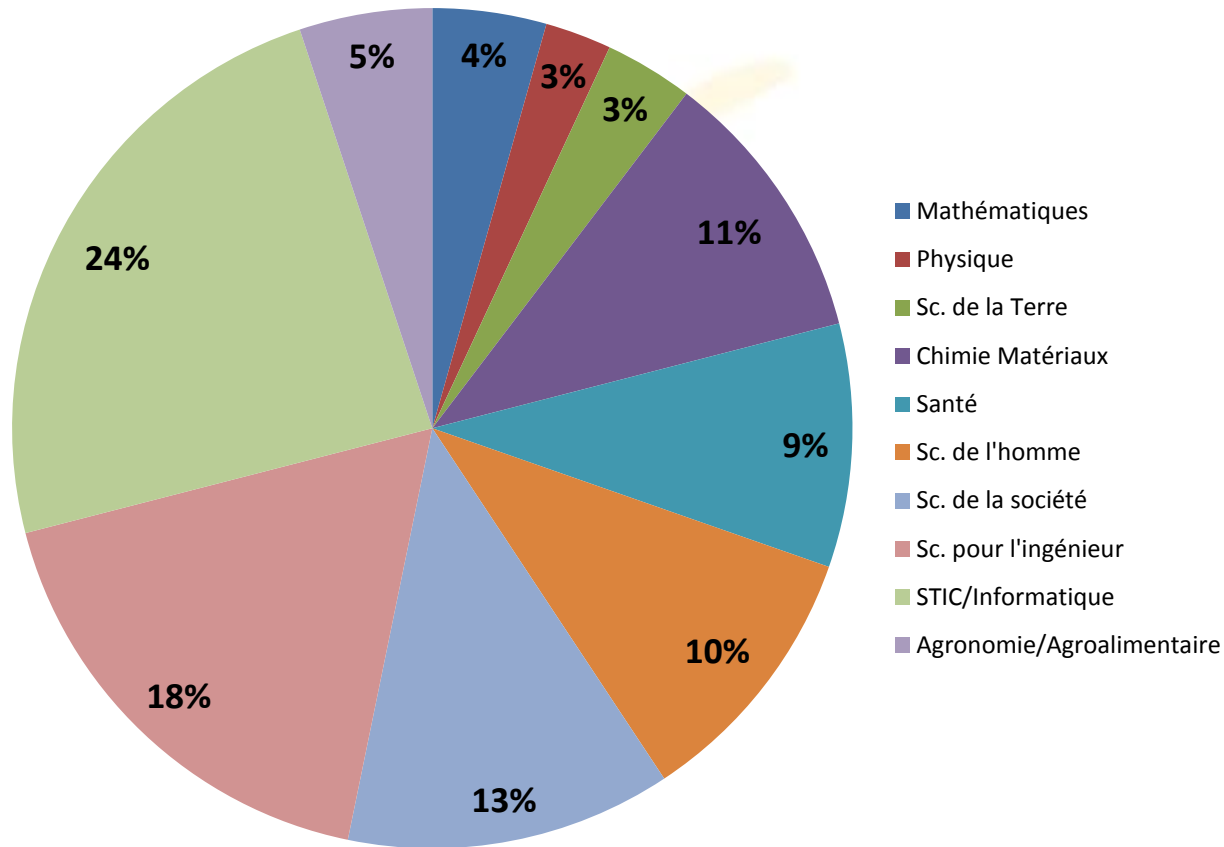
(valores 2010)



- Activité spécialisées, scientifiques et techniques
- Equipement électronique, mesure ...
- Télécommunications
- Production et distribution de fluide
- Industrie chimique & pharmaceutique
- Industrie automobile
- Construction aéronautique et spatiale
- Commerce & autres activités de service
- Administration publique
- Autres industries manufacturières
- Edition audiovisuel diffusion
- Agriculture & industrie alimentaire
- Activités financières et assurance
- Santé humaine et action sociale
- Transports
- Industrie extractive
- Arts, spectacles
- Caoutchouc et plastique

# As CIFRE em todas as disciplinas científicas

Valores 2010



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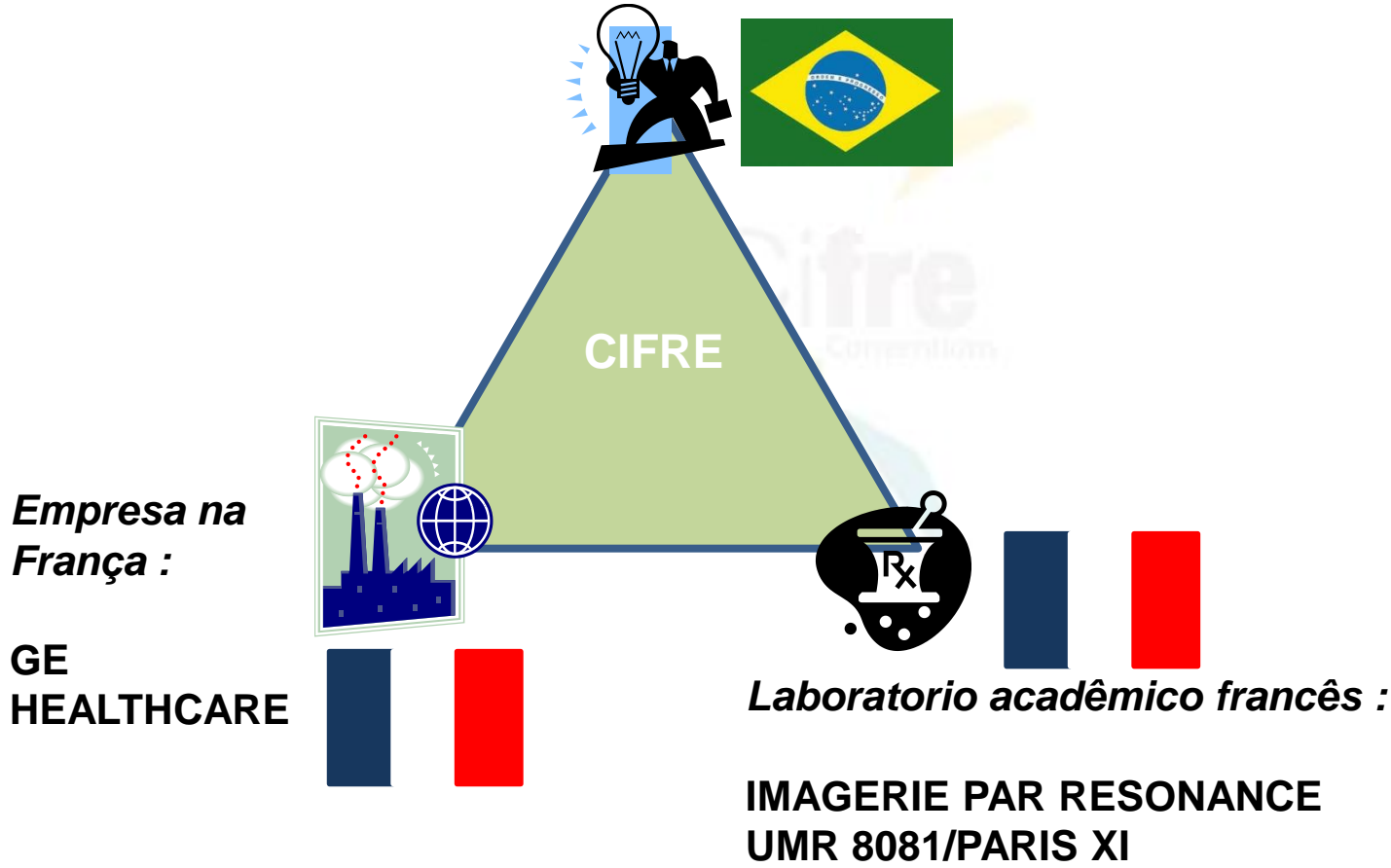
# International options

Relationships with Brazil and France in the framework of doctorate training to :

- develop links between French and Brazilian academic laboratories
- develop links between French or Brazilian companies with Brazilian or French academic laboratories
- allow Brazilian and French students to work for Brazilian or French companies as PhD-researcher
- built a pool of Brazilian and French managers who know and love the both countries and are able to reinforce links between our two countries
- have the same process to a best understanding and cooperation

# Possibilidade n°1 : Recepção de doutorando brasileiro

**Doutorando brasileiro : Pablo Milioni De Carvalho/ CIFRE n° 2010/756**



# Possibilidade n°2 : CIFRE em cotutela com o Brasil

*Doutorando brasileiro / CIFRE n°2010/1633*



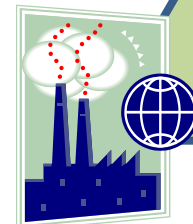
Laboratório acadêmico brasileiro :

Instituto de Macromoléculas UFRJ



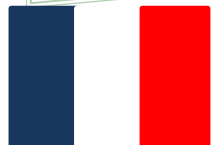
COTUTELA

CIFRE



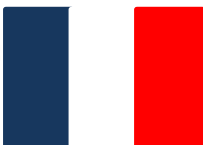
*Empresa na França :*

PSA



*Laboratório acadêmico francês :*

CEMEF  
UMR 7635 / PARIS TECH



# Possibilidade n°3 : CIFRE em colaboração com o Brasil

Doutorando CIFRE n° 2010/1065



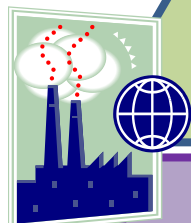
CIFRE

*Laboratorio acadêmico francês :*

**BIOLOGIE & CHIMIE DES PROTEINES  
UMR 5086 / LYON 1**

*Empresa na  
França :*

**NATURA France**

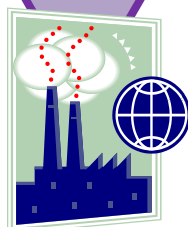


ACORDO  
DE  
COLABORAÇÃO



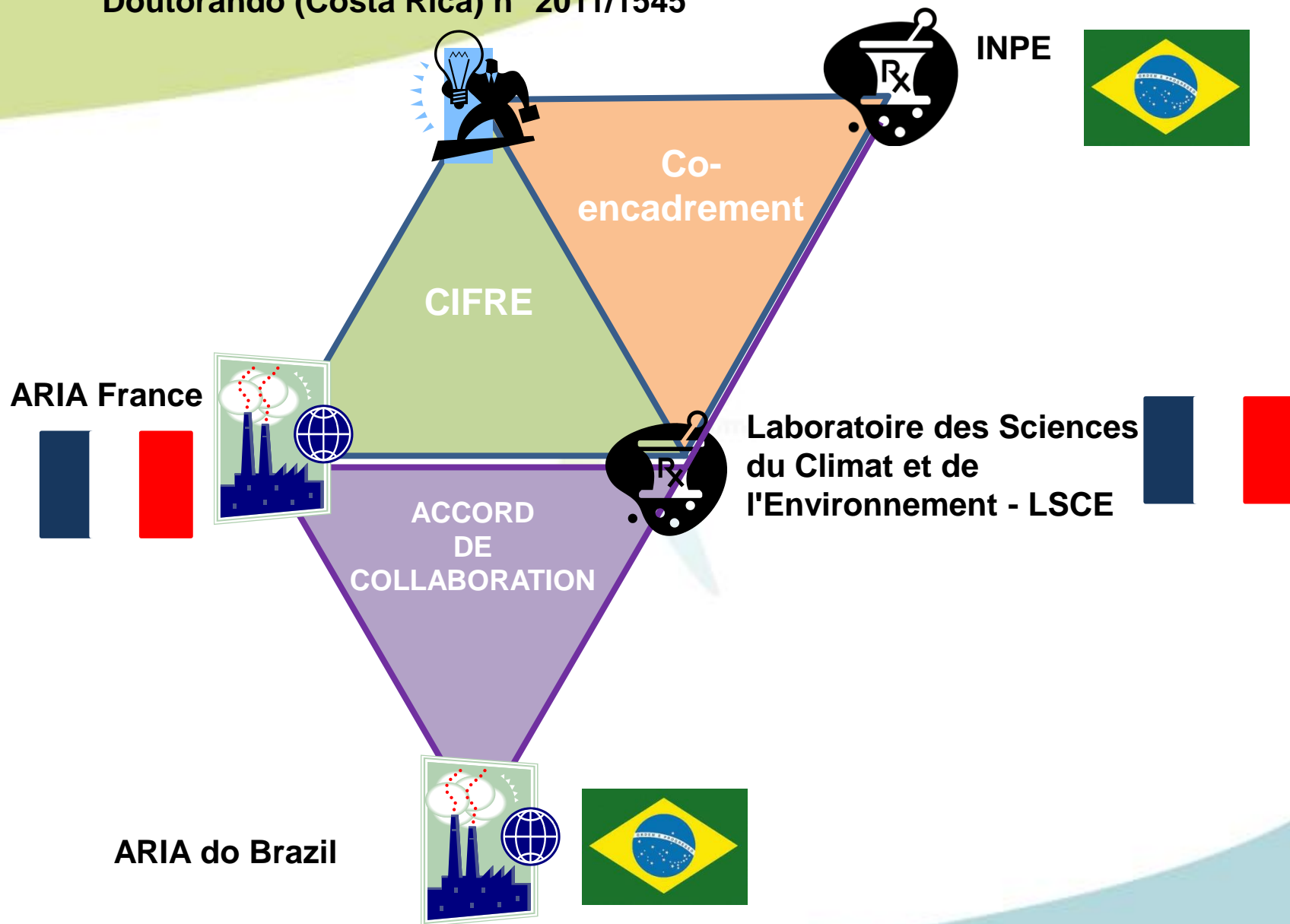
*Empresa  
brasileira :*

**NATURA**



# Possibilidade nº4 : CIFRE em cotutela em colaboração com o Brasil

Doutorando (Costa Rica) nº 2011/1545



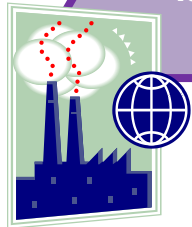
# Transposição do dispositivo CIFRE ?

Laboratório  
acadêmico  
francês

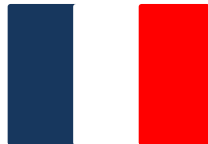


Cotutela

Acordo  
empresas  
F&B  
e  
laboratórios  
F & B



Empresa  
francesa  
na França



Doutorando



Financiamento  
brasileiro



CIFRE



Laboratório  
acadêmico  
brasileiro



Empresa  
brasileira

Principio científico, Empreendedorismo

Para saber mais :

[cifre@anrt.asso.fr](mailto:cifre@anrt.asso.fr)

[www.anrt.asso.fr](http://www.anrt.asso.fr)

# Cifre-International/ Brésil a answer for Sciences without borders program

## CNPq – MESR – ANRT

Aims :

- Go with Brazil to give to Brazilian PhD students international experience
- Help French companies to increase their links with future Brazilian managers
- Train high level future managers who know and love France
- Help French and Brazilian academic laboratories to work together

**Starting**  
**Year 1**  
**January 2012**



**Promotion by  
ANRT to French  
companies &  
laboratories**

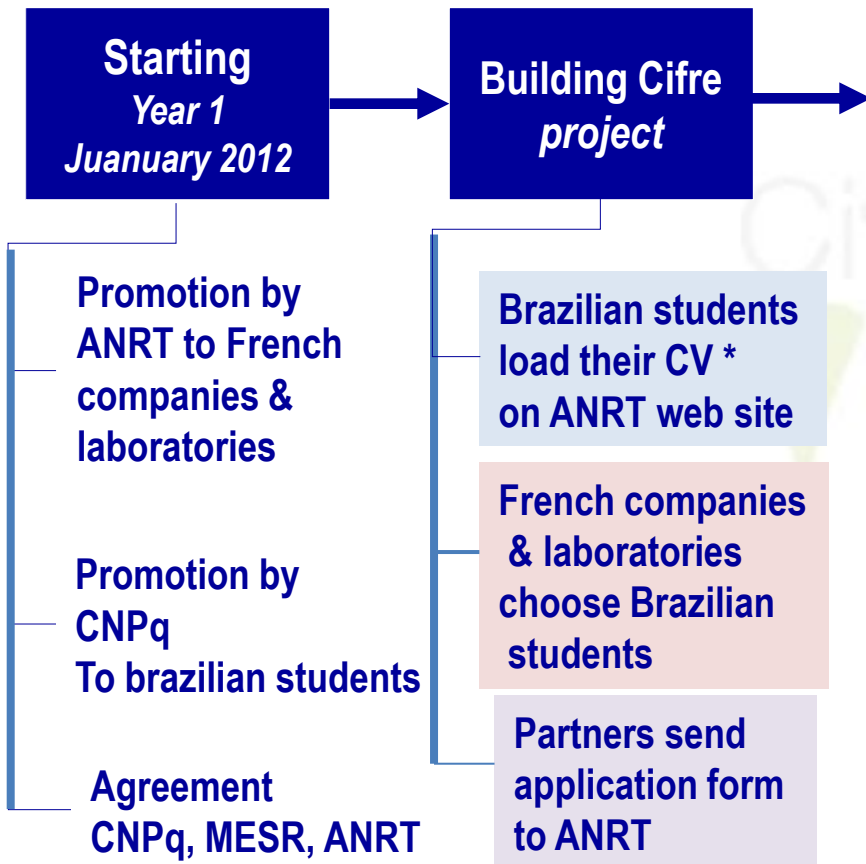
*All during the year :*  
By ANRT web site information  
By our network of companies and laboratories already interested  
They could put Cifre offers on ANRT web side : [www.anrt.asso.fr](http://www.anrt.asso.fr)

**Promotion by  
CNPq to Brazilian  
students**

By CNPq, Brazilian universities, ANRT web site information  
By your network of universities

**Agreement  
CNPq, MESR, ANRT**

Before the end of 2011



**Option 1 All during the year :**

Candidates allow to put their behaviours on ANRT web site :

- Name and first name
  - Email
  - Last diploma at the level (M .../University ...)
  - What PhD scientific thematic they look for
  - What activity field they prefer
- (answers among short list)*

+ : *get a large number of proposals without management*

- : *No CV checking by CNPq*

**Option 2 At regular periods :**

CNPq sends to ANRT the CV's students  
ANRT puts them on its web side

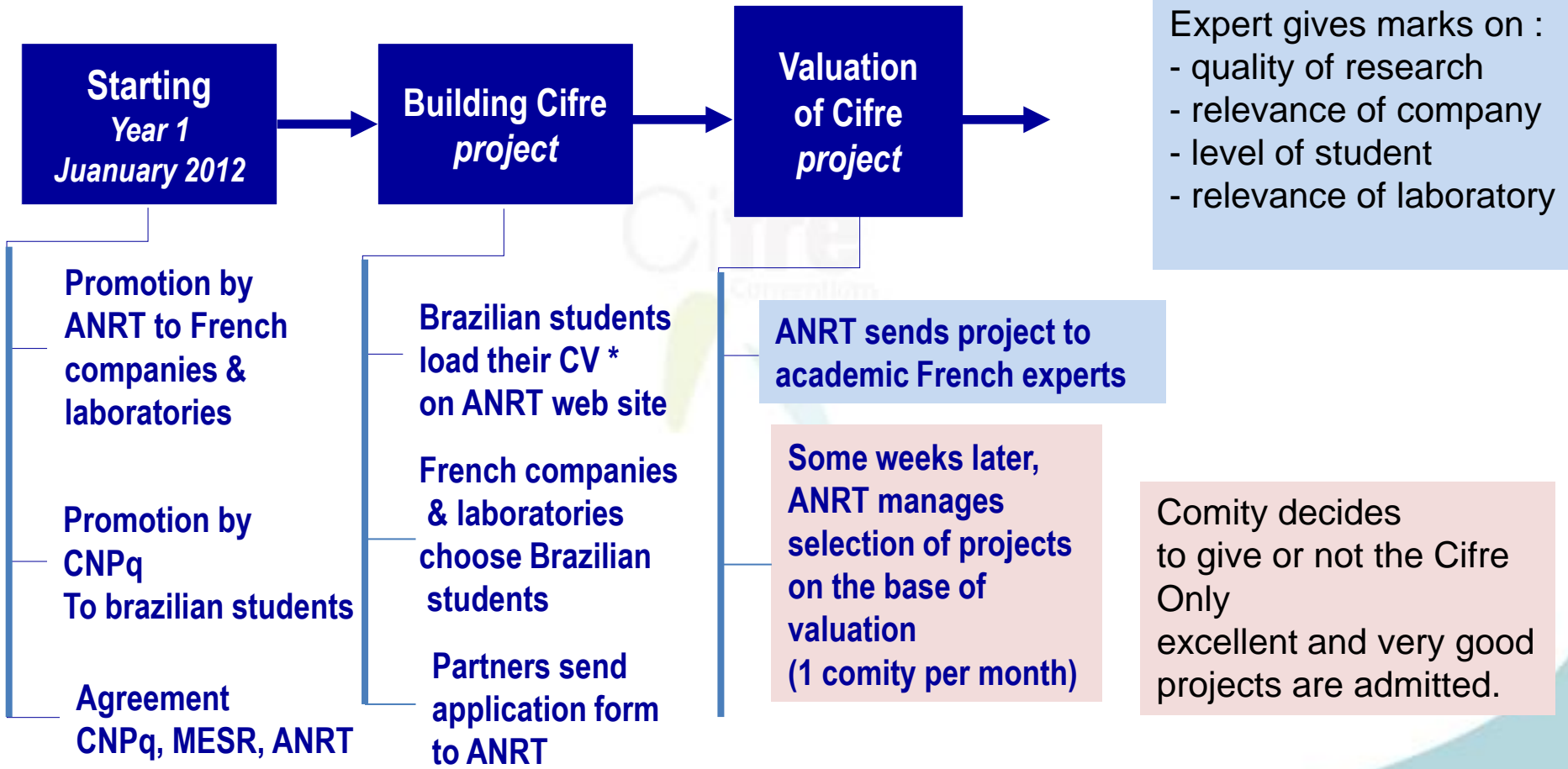
+ : *checking by CNPq*

- : *take more time, less fluid*

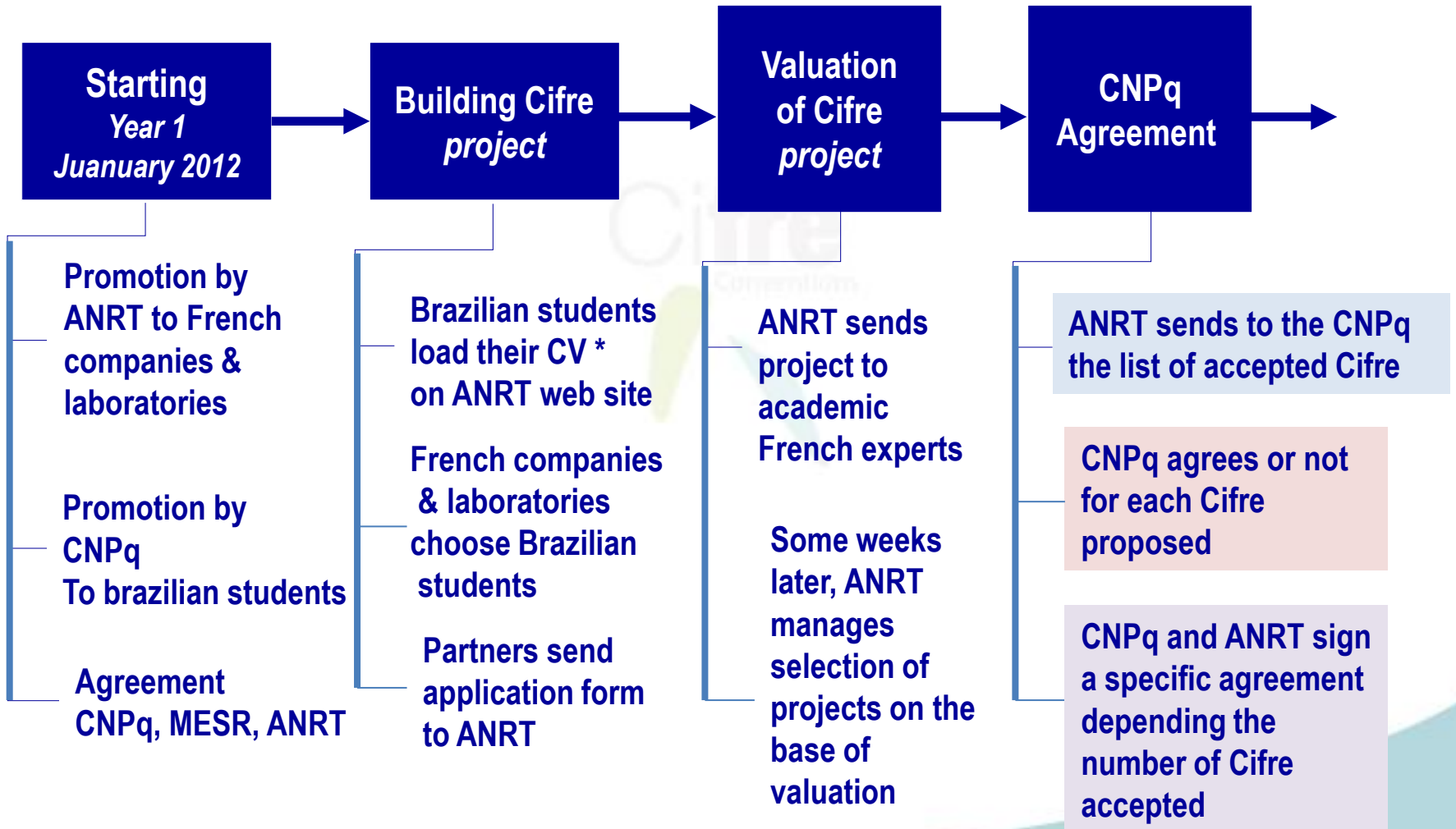
French company chooses itself and decides with academic laboratory.

It could take about 2 or 3 mouths

# CIFRE-International/Brazil **CNPq – ANRT- MESR**



# CIFRE-International/Brazil **CNPq – ANRT- MESR**



# CIFRE-International/Brazil **CNPq – ANRT- MESR**

