

Alexis Hannart
CNRS - UMI 3351

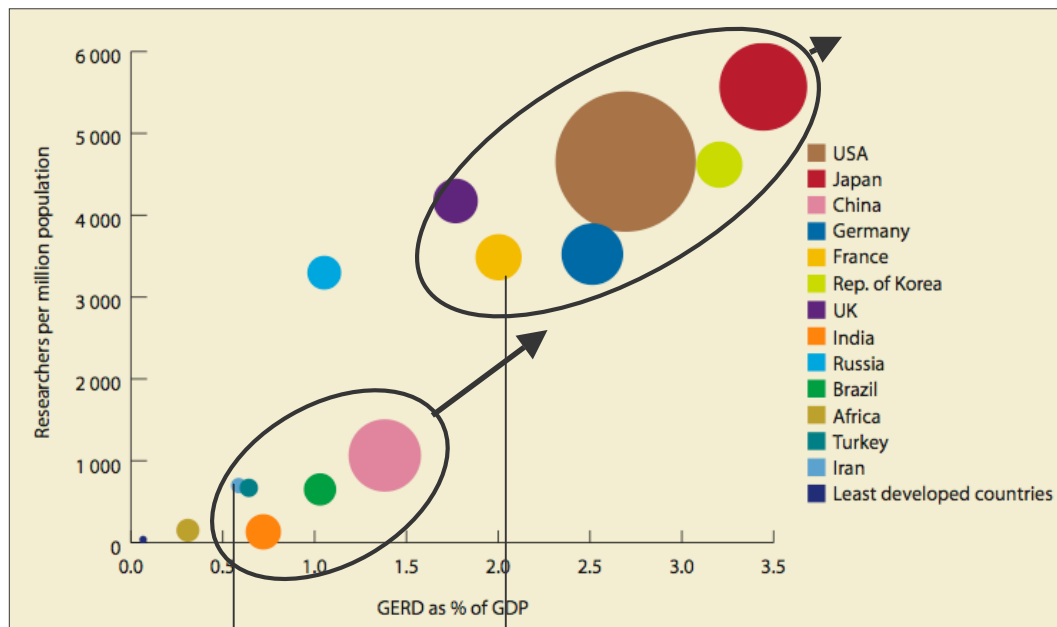
Overview of research funding opportunities in France

26/04/11

Scientific research expenditures globally : facts and figures



- Global competition heating up
- Emerging countries catching up fast
- Gap in expenditures remaining huge



Argentina

France

	Argentina	France	US
total spending	2,7 mm\$	42,3 mm\$	399,1 mm\$
N scientists	0.8	3.6	4.8
per scientist	90 k\$	200 k\$	240 k\$
growth rate	18%	2%	6%

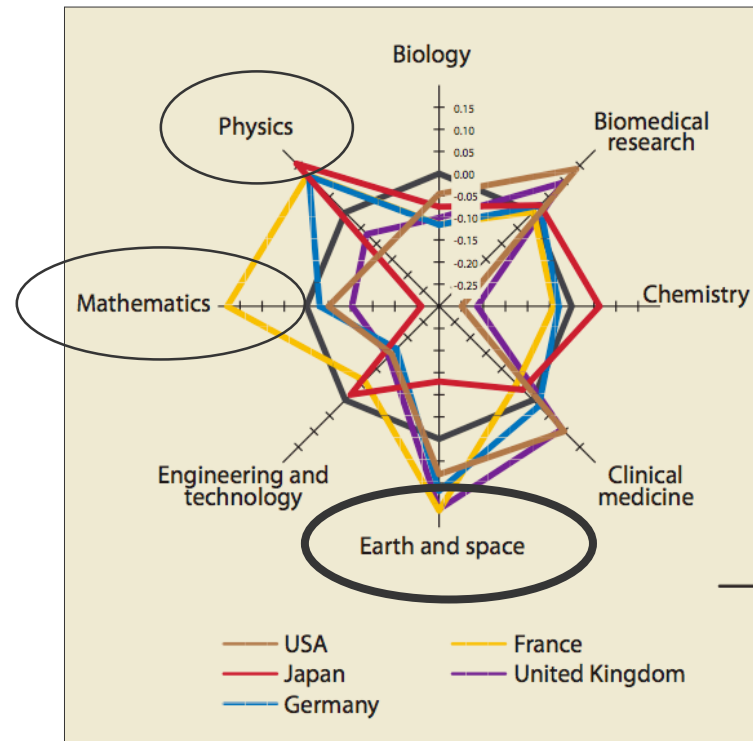
Source: UNESCO 2010 report



France is an attractive place to chase research funding

Scientific research spending : facts and figures

Country's scientific research profile



France is an attractive place to chase research funding

Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

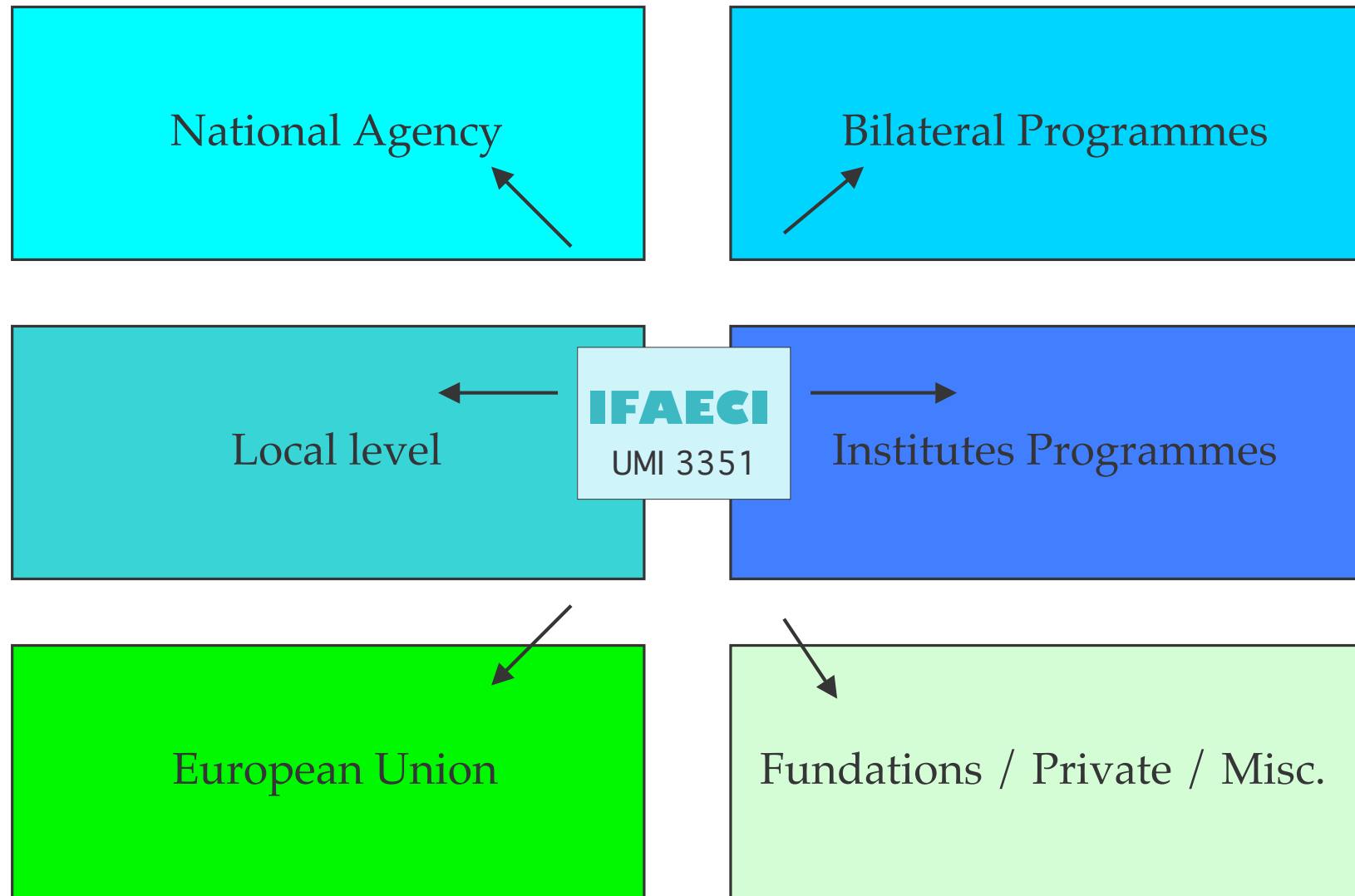
Local level

Institutes Programmes

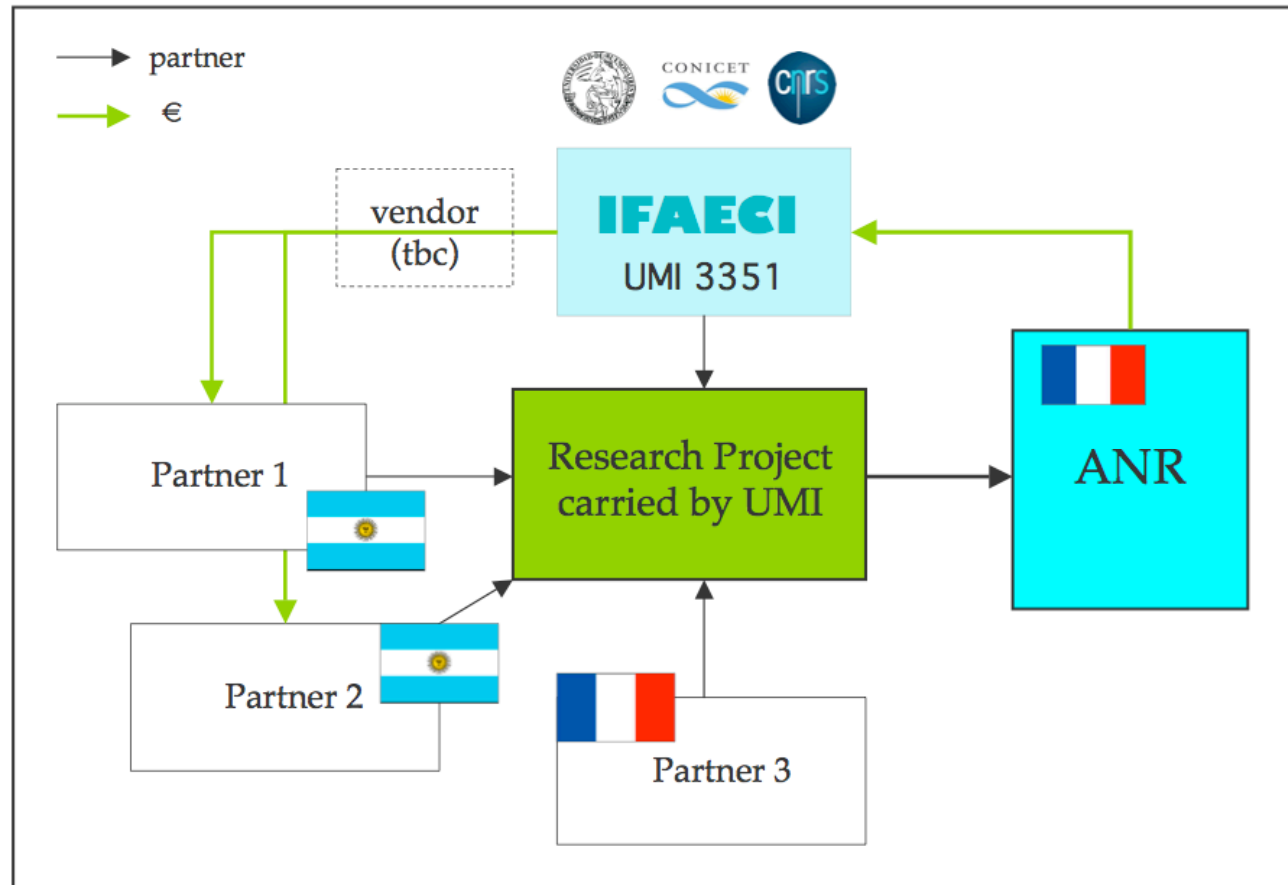
European Union

Fundations / Private / Misc.

The UMI as a vehicle to access funding opportunities



The UMI as a vehicle to access funding opportunities



- requirement for application:
« organization activities on the French territory »
- but international partners possible

Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

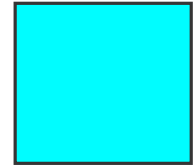
Local level

Institutes Programmes

European Union

Fundations / Private / Misc.

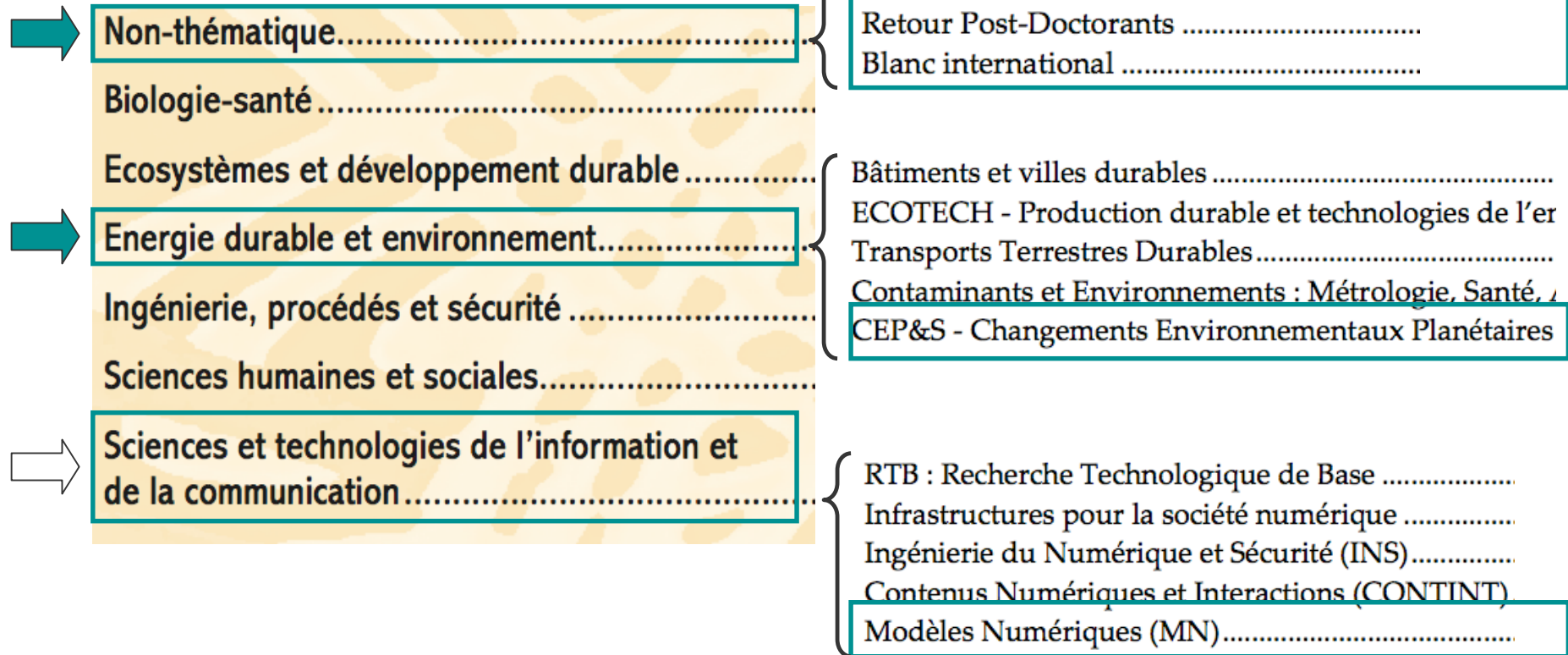
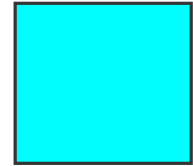
Agence Nationale de la Recherche



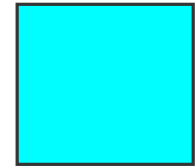
- creation: 2005
- mission:
 - funding research projects on a competitive basis
- budget: 720 m€ (2011)
- organisation:
 - government-set priorities
 - thematic calls (5 programmes): applied research - CEP / Numerical models ?
 - non-thematic calls (« white » calls, 4 programmes): fundamental research
- key figures:
 - ~25% average acceptance rate
 - ~300k€ per project - 3 yrs
 - ~50 projects / 23m€ in Earth Science



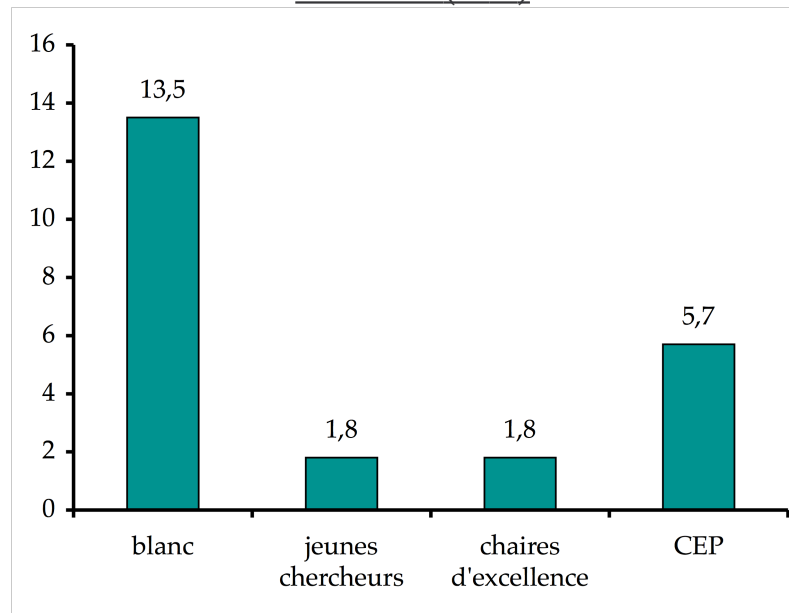
Agence Nationale de la Recherche



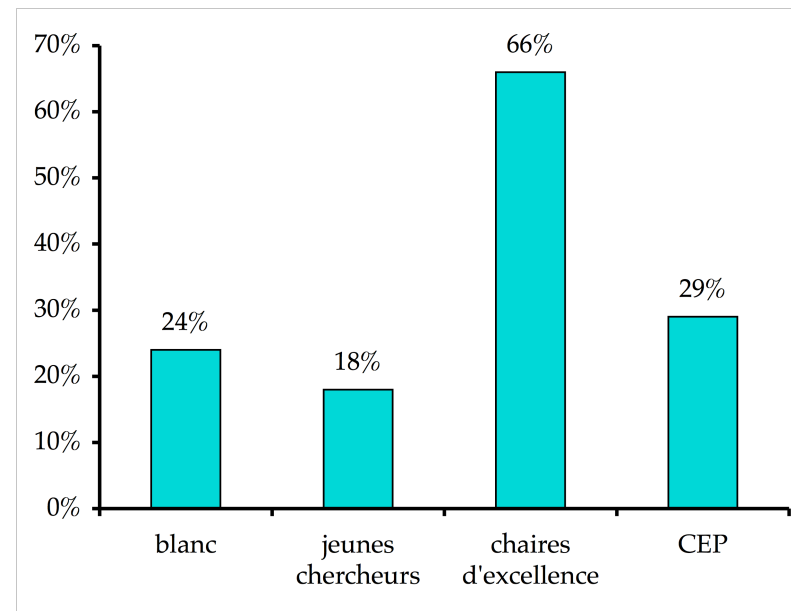
Agence Nationale de la Recherche



Amount (m€)



Acceptance rate



Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

Local level

Institutes Programmes

European Union

Fundations / Private / Misc.

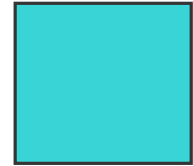
Local level



- Region Île de France (Greater Paris):
 - autonomous regional research policy
 - grants for : projects / equipment / post-doc / PhD / scientific events
 - thematic and non thematic calls
- Township of Paris:
 - grants 'research in Paris' for international PhD stays in Paris
 - non thematic calls
 - ~1m€ 2010 / ~80 PhD students



Local level



0	Hors DIM	
I	Cancérologie	Cancéropôle Ile-de-France pascale.gramain@canceropole-idf.fr
II	Neurosciences et maladies neuro-dégénératives	Neuropôle nerf@paris-neuroscience.fr
III	Médecine cellulaire et cellules souches	Stem-Pôle lgrannec@istem.genethon.fr
IV	Maladies cardiovasculaires, diabète et obésité	Inserm (à confirmer) tedgui@larib.inserm.fr
V	Maladies infectieuses, parasitaires, et nosocomiales émergentes	Institut Pasteur ptrieu@pasteur.fr
VI	Santé, environnement, toxicologie	A confirmer
VII	Atomes ultra-froids	Institut Francilien des Atomes ultra-Froids Michele.Leduc@lkb.ens.fr
VIII	Nanosciences	Centre de compétences C'nano Ile-de-France marjorie.thomas@lpn.cnrs.fr
IX	Logiciels et systèmes complexes	Digitéo Labs direction@digitéo.fr
X	Systèmes Complexes	Institut des systèmes complexes genevieve.tual@polytechnique.edu
XI	Problématiques du genre	Institut Emilie du Chatelet iec@mnhn.fr
XII	Sciences économiques	Ecole d'Economie de Paris hamid.ouahioune@parisschoolofeconomics.eu
XIII	Développement soutenable	Réseau francilien de recherche sur le développement soutenable boemare@centre-cired.fr
XIV	Agrosociétés et écologie des territoires et de l'alimentation	Réseau AgrCETerrA emmanuel.jolivet@jouy.inra.fr ou marianne.lefort@agroparistech.fr

Allocations doctorales
Allocations post-doctorales
Équipements
Réunions scientifiques
Collaborations internationales



Total for climate science
= ~2 m€

Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

Local level

Institutes Programmes

European Union

Fundations / Private / Misc.

Bilateral programmes



- Programme ECOS-Sud
 - MINCyT / Université de Nantes / Université Paris 13
 - Created 1997
 - 15 projects / yrs - 30% acceptance rate
 - 5 thematical fields
- Programme Bernardo Houssay
 - MINCyT / CONICET / MAEE / MESR
 - Created 2010
 - 4-12 months post-doctoral stays in France / Argentina
- Programme Saint-Exupéry
 - MINCyT / CONICET / MAEE / MESR
 - 2-3 months doctoral stays in France
- Programme Math-AmSud
 - Regional programme
 - Theoretical & Applied Mathematics
 - stays in France / Argentina



Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

Local level

Institutes Programmes

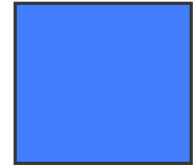
European Union

Fundations / Private / Misc.

INSU programmes



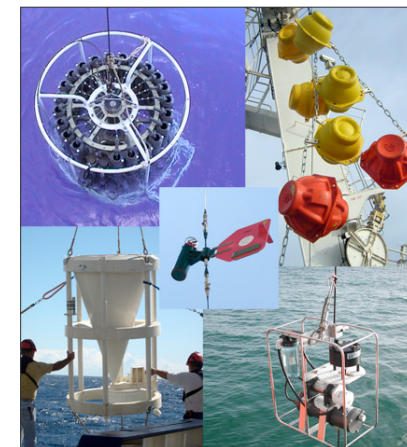
INSU
Observer & comprendre



- Programme LEFE
 - thematic call OA / 5 sections
 - 1 to 3 yrs projects / 10k€ to 250k€ per project
 - 30 to 60 projects / 2m€
 - ~40% acceptance rate`
 - future role : labelization for ANR

- Programme PNTS
 - thematic call spatial teledetection
 - 3 sections

- Equipment and Fleet
 - coastal vessels / 2 aircrafts
 - national fleet
 - large range of equipments
 - yearly call for proposals



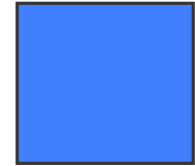
INSU programmes



- LEFE : Les enveloppes fluides et l'environnement
 - CHAT : Chimie atmosphérique
 - CYBER : Cycles biogéochimiques, environnement et ressources
 - EVE : Evolution et variabilité du climat à l'échelle globale
 - IDAO : Interactions et dynamique de l'atmosphère et de l'océan
 - ASSIM : Assimilation de données

- PNTS : Programme national de télédétection spatiale
 - Physique de la mesure
 - Traitement du signal
 - Instrumentations et missions spatiales

Non INSU - CNRS programmes



- Programme PICS
 - CNRS Department of International Affairs
 - 2 teams in each country / 3 years
 - Grants for stays, workshops, meetings
 - 2 steps selection process
- Programme PEPS
 - CNRS cross-institute
 - Managed by one or several institutes
 - Exploratory and multidisciplinary
 - Short / small / Light procedure
 - Thematical calls : Theoretical Physics and Interfaces / ...

Institut des sciences biologiques
(INSB)

Institut de chimie
(INC)

Institut écologie et environnement
(INEE)

Institut des sciences humaines
et sociales (INSHS)

Institut des sciences informatiques
et de leurs interactions (INS2I)

Institut des sciences de l'ingénierie
et des systèmes (INSIS)

Institut national des sciences mathéma-
tiques et de leurs interactions (INSMI)

Institut de physique
(INP)

Institut national de physique nucléaire
et de physique des particules (IN2P3)

Institut national des sciences
de l'Univers (INSU)



IPSL internal call for proposals

- Short and small projects (1 year renewable)
- Total : 120k€ yearly
- Light procedure / managed internally at IPSL
- Criteria
 - Innovative, in particular in the instrumental/ technological area
 - Ability to renew the objectives of an IPSL group
 - ➔ Ability to generate new collaborations within IPSL



Institut
Pierre
Simon
Laplace

Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

Local level

Institutes Programmes

European Union

Fundations / Private / Misc.

Fundations & Miscellaneous programmes



- Programme GIS Climate, Environment and Society (CES)
 - thematic call : climate and societal impacts
 - multidisciplinary, medium size projects

- Programme Gestion et Impacts du Changement Climatique
 - thematic call : climate change and societal impacts / targeted

- Programme GIS R2DS
 - thematic call : environment and sustainable development / targeted

- Programme Fondation de France
 - thematic call : coastal ecosystems and societal impacts



Landscape of competitive funding opportunities in France

National Agency

Bilateral Programmes

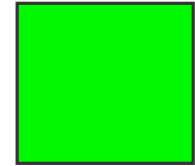
Local level

Institutes Programmes

European Union

Fundations / Private / Misc.

European Union Framework Programme



- Programme Ideas : European Research Council
 - individual, bottom-up programme
 - all thematic
 - advanced grant = 2m€/ starting grant = 1m€
 - 10% acceptance rate
 - France : 1 to 5 grants in climate science

- Programme Capacities :
 - Research infrastructures
 - Eurofleet Programme : call for ship time (176 days)

- Programme Cooperation :
 - Involve various European partners
 - Thematical call 'Environment' : ~300m€/year

- Programme People :
 - Marie Curie Actions
 - PhD, fellowships, mobility, training



Calendar

- July-August :
 - French summer vacation

- September :
 - INSU calls

- January to April :
 - most calls
 - Argentinean summer vacation (Jan-Feb)

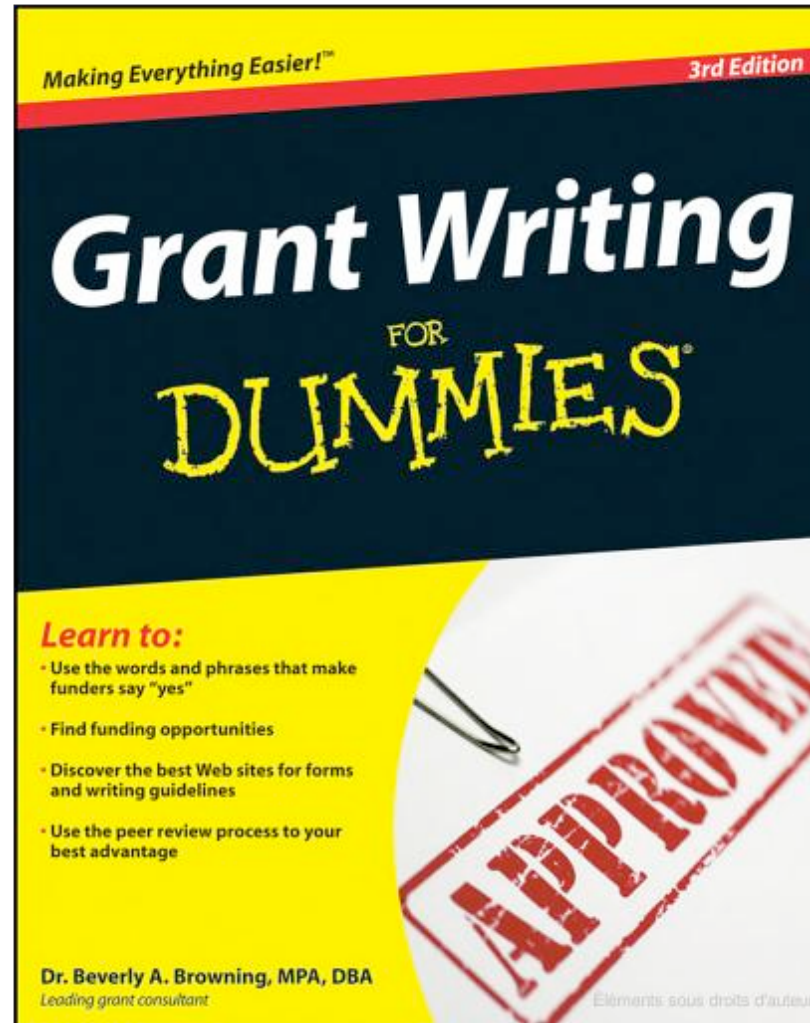
- April to September :
 - few calls
 - evaluation and funding decisions



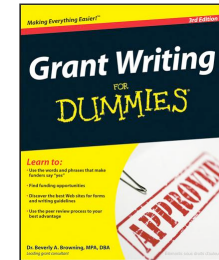
Two key periods
for preparation :

- April to June (2 months)
- September to December (3 months)

Group session kick-off: sketching grant proposals



Group session kick-off: sketching grant proposals



1. Proposal scope

- What don't we know that matters ?
- What is the relevance of the question ?
- What is the extent and scope of the proposal ?

2. Proposal organisation and needs

- What is the method followed ?
- Who are the participants and partners ?
- Who leads the proposal ?
- What are the resources needed ?

3. Fund seeking plan

- What are the suitable calls ?
- What is the primary target ? the back-up targets ?
- What is the application calendar and resulting action plan ?

4. Proposal writing plan

- What is the outline and structure of the proposal ?
- What are the appropriate steps to get the writing done ?
- Who does what, when ?