

Welcome to Bretagne land of excellence..

**Prix Bretagne
jeune chercheur**

2005
appel à candidatures

Prix: 6000 €

Dépôt des dossiers de
candidature avant le
30 septembre 2005

Sciences humaines
et sociales

Sciences de la vie
et de l'environnement

Structure et propriétés
de la matière

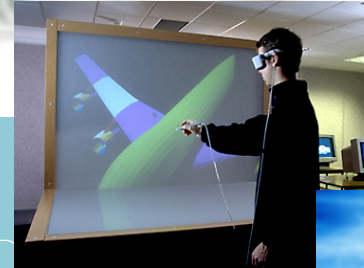
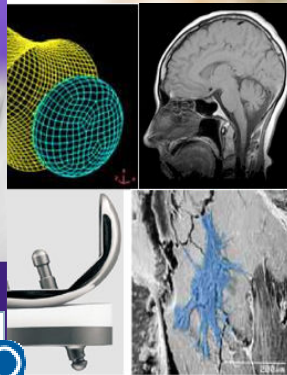
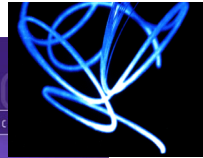
Sciences et technologies
de l'information et
de la communication
& Mathématiques

Président du jury:
Philippe Busquin
Ancien commissaire européen
chargé de la recherche

Conditions:
• Avoir obtenu son diplôme depuis moins de 5 ans
• Avoir travaillé dans un laboratoire situé en Bretagne
• Avoir travaillé en Bretagne et obtenu une mention
à l'obtention d'un diplôme ou concours dans une université
française ou étrangère de niveau international.

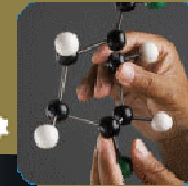
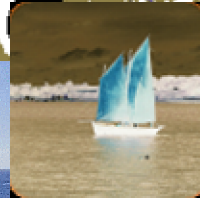
RENSEIGNEMENTS:
recherche@region-bretagne.fr

Mission pour
le développement européen
en Bretagne



ESPACE EUROPÉEN
DE LA RECHERCHE

Bretagne overview



Bretagne today, at a glance



ä 3,12 million in habitants – 5% of the french population
+ 23 000 per year, + 6,6% between 2000 and 2007

ä A strategic location in Western Europe with access to the most affluent consumer and industrialised markets on the continent

ä GDP of 82 billion € - rank 7 (4,4% of French GDP)

ä Unemployment rate below national average (7,8%)

ä Young population : 25% under age 20, 112 000 students

ä A labour force of 1.256.000 employees : growth of 6,3% from 1999, higher than the French average

ä Strong growth of the service sector (> national average)

ä More than 150 000 firms - A leading region in many sectors, in both manufacturing and research & development :

→ Some international references were born in Bretagne :
PiNAULT, BOLLORE, GUILLEMOT (Ubisoft), Yves Rocher ...

Bretagne - 5th innovative region in France



à high-ranking public and private research, with international renowned centers of excellence, 4 th french region in européen pattent.

à High qualified brainforce

Larger proportion of population with higher education than the European average (23,3% against 20,6%)

5 Universities (Colleges) and 14 "Grandes Ecoles", 117 technician Training Institutes

à 4 economic sectors, with international « leader » companies

4 leading innovative clusters, several emerging industries, Strong technological transfert and spin-off activity

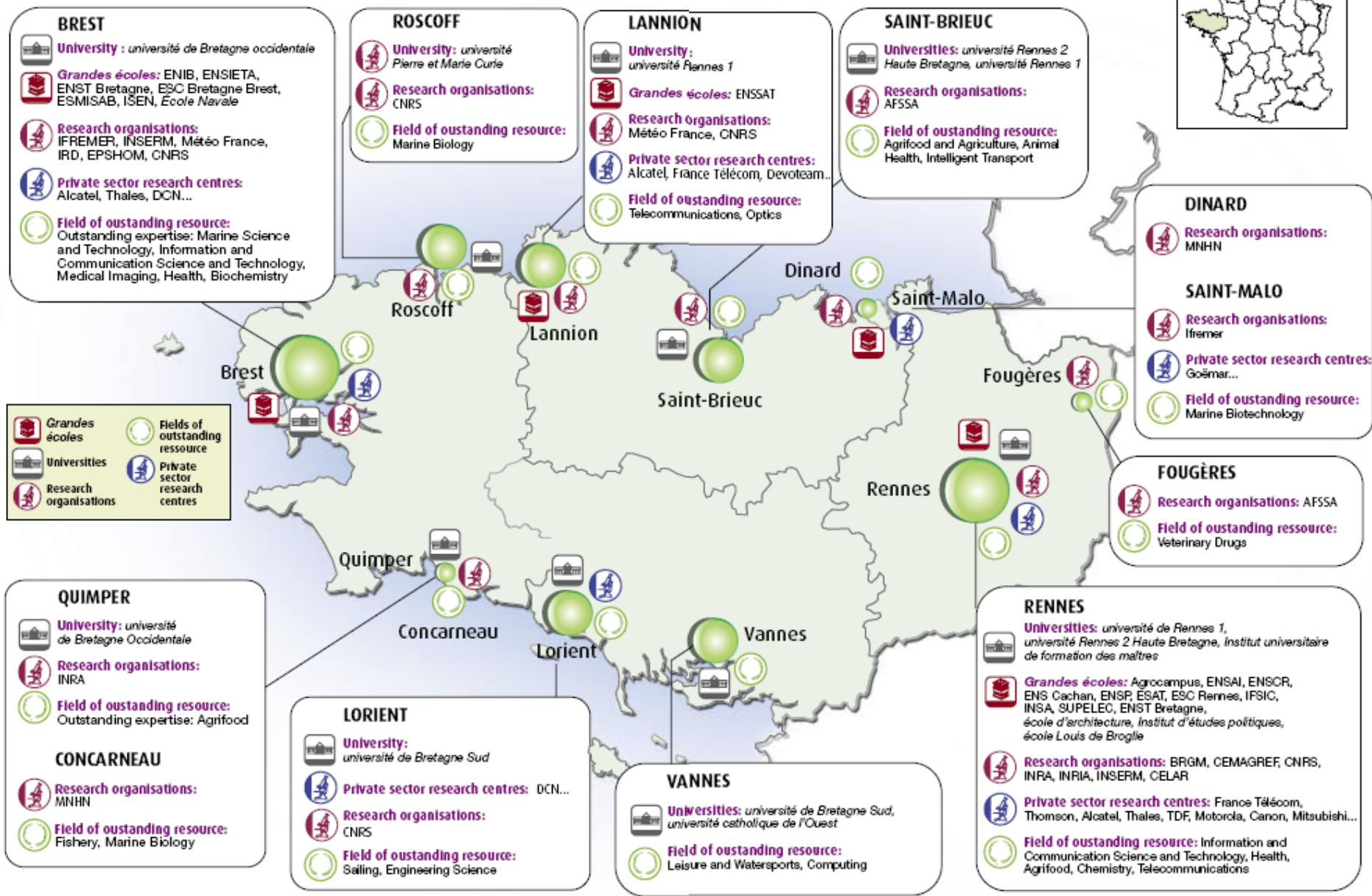
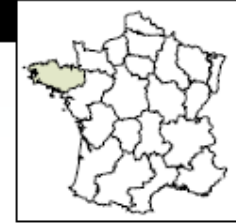
à A network to accompagny innovation project

à Strong commitment of public authorities into innovation funding

à Strong regional identity & values

à high-ranking public and private research, with international renowned centers of excellence

RESEARCH AND INNOVATION INVIGORATING THE REGIONS OF BRITTANY



MAJOR ECONOMIC & RESEARCH SECTORS



ICT

- 45 000 employees
- 2nd french region for R&D
- 650 companies
- World leaders
- Innovative SMI's
- International schools : Telecom Bretagne, Insa, ...
- A world leading innovative cluster: « Pôle Images et Réseaux »
- A RFID cluster



Car industry Defense aeronautics

- 90 000 jobs
- 900 companies
- a leading innovative cluster: ID4Car cluster
- Cluster IEF Aero



Sea

- Shipbuilding industry/ nautical industry
- Marine Sciences & technologies –leading french region, 28500 employees, 2900 researchers
- A world leading innovative cluster: « Pôle Mer Bretagne »
- A regional business network : Bretagne Pôle Naval



Food industry

- 1st french region
- 70 000 employees
- An innovative cluster: Valorial
- Leaders

Innovation clusters in Bretagne



4 renowned competitiveness clusters :

ICT – MARINE TECHNOLOGIES – AUTOMOTIVE – FOOD



« Images anytime, anywhere and for everyone »



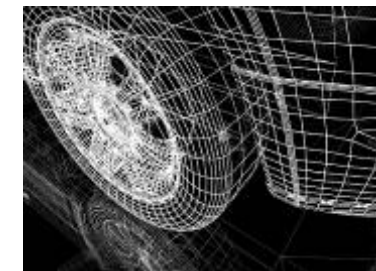
« The maritime cluster »



« The food for tomorrow »



« Mainspring of ideas for specific vehicles »





“Sea the future” : marine technologies, one of the main field of excellence in *Bretagne*

- 2 900 public & private researchers (50% of French force),
- 2 800 companies, 28 500 emp
- 2000 graduates / year in sea sciences or related jobs

The innovative cluster

- The “Brittany Maritime Cluster” brings together major companies, SMEs, public and private research laboratories, universities and selective higher education institutions located in *Bretagne*, particularly along its coastal fringes. 304 members.
- **Projects on the move : 87 cooperation projects** are planned over 5 themes:
 - ⇒ Maritime safety and maritime security
 - ⇒ Shipbuilding and leisure boatbuilding
 - ⇒ Marine, fossil and renewable energy resources
(inc. ocean energy-renewable energy)
 - ⇒ Marine biological resources
 - ⇒ Coastal environment planning and development
- International cooperations : UK, Canada, Germany, Norway...

A regional strategy for european development of research and innovation ?



A regional plan to develop a regional strategy of innovation in Brittany : SRI voted in December 2008

IMPACTSCAN :

⇒ 6^e PCRDT project, co-founded UE – CRB

Durée : 32 mois (Juin 2005 – Février 2008)

Partenaires :

- ✚ Les Flandres (Belgique) – IWT est Coordinateur
- ✚ Limburg et Noord-Brabant (Pays-Bas)
- ✚ Madrid (Espagne)
- ✚ Niederösterreich (Autriche)
- ✚ Ljubljana (Slovénie)
- ✚ Basse Silésie (Pologne)

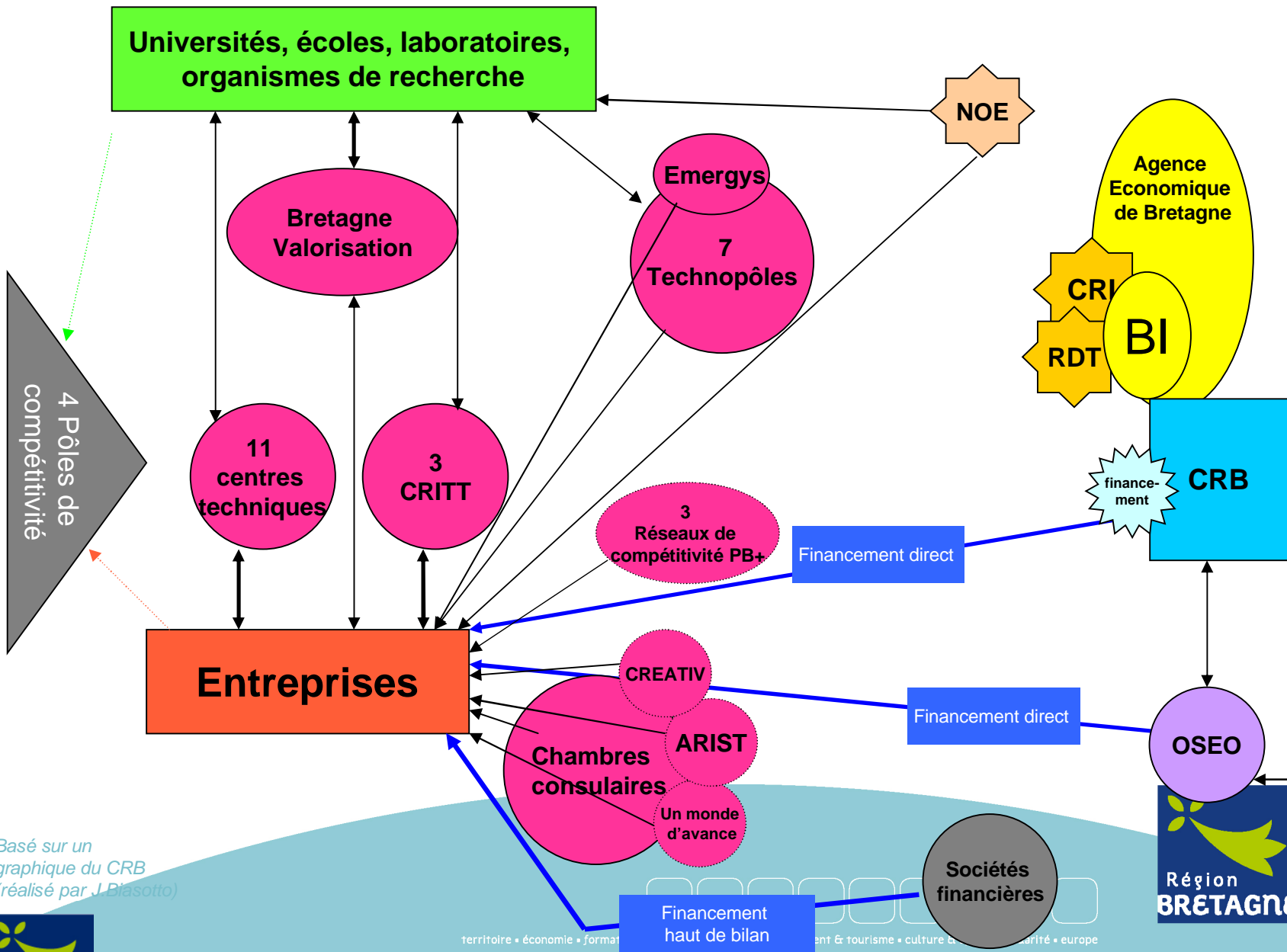


IMPACTSCAN - objectifs



- Develop a methodology and instruments of evaluation
Regional systems of support for the research & innovation
- Make a relevant decision-making tool for an
optimization of the plans of support for the innovation
- Succeed, via an interregional comparison of the
performances various systems and exchanges on our
practices, in recommendations and proposals for an
improvement of the regional system

Innovation system in 2007



- Villes Com. communes
- Dptmt
- Autres institutions intervenant dans le soutien à l'innovation
- Etat. DRIRE, DRRT, SGAR
- CE

Basé sur un graphique du CRB (réalisé par J. Biasotto)



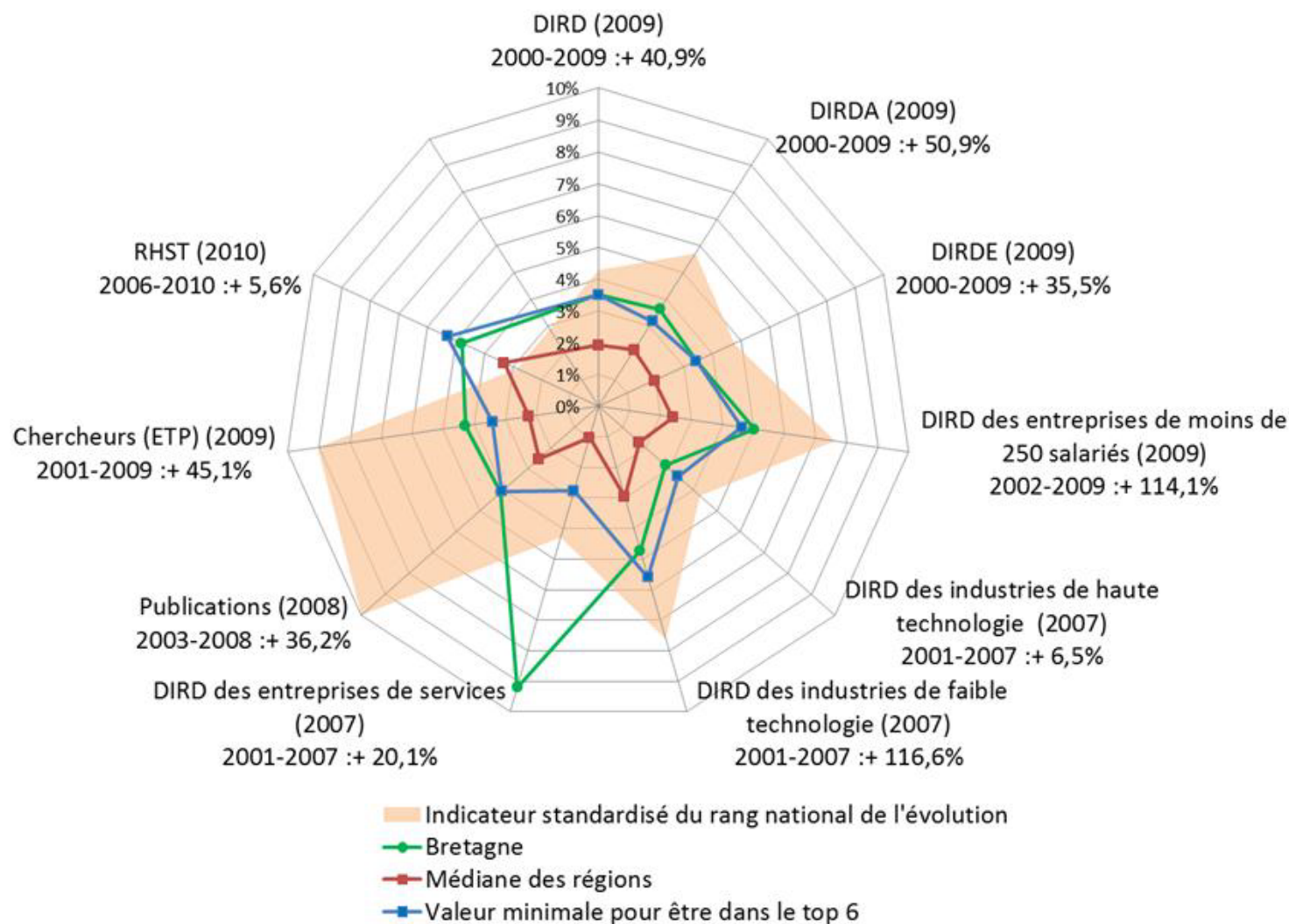
territoire • économie • formation • innovation • tourisme • culture • sport • jeunesse • emploi • égalité • europe

Innovation Index 2012



Les indicateurs de positionnement national de la Bretagne en matière de R&D

Parts nationales (%) et évolution des volumes (%)

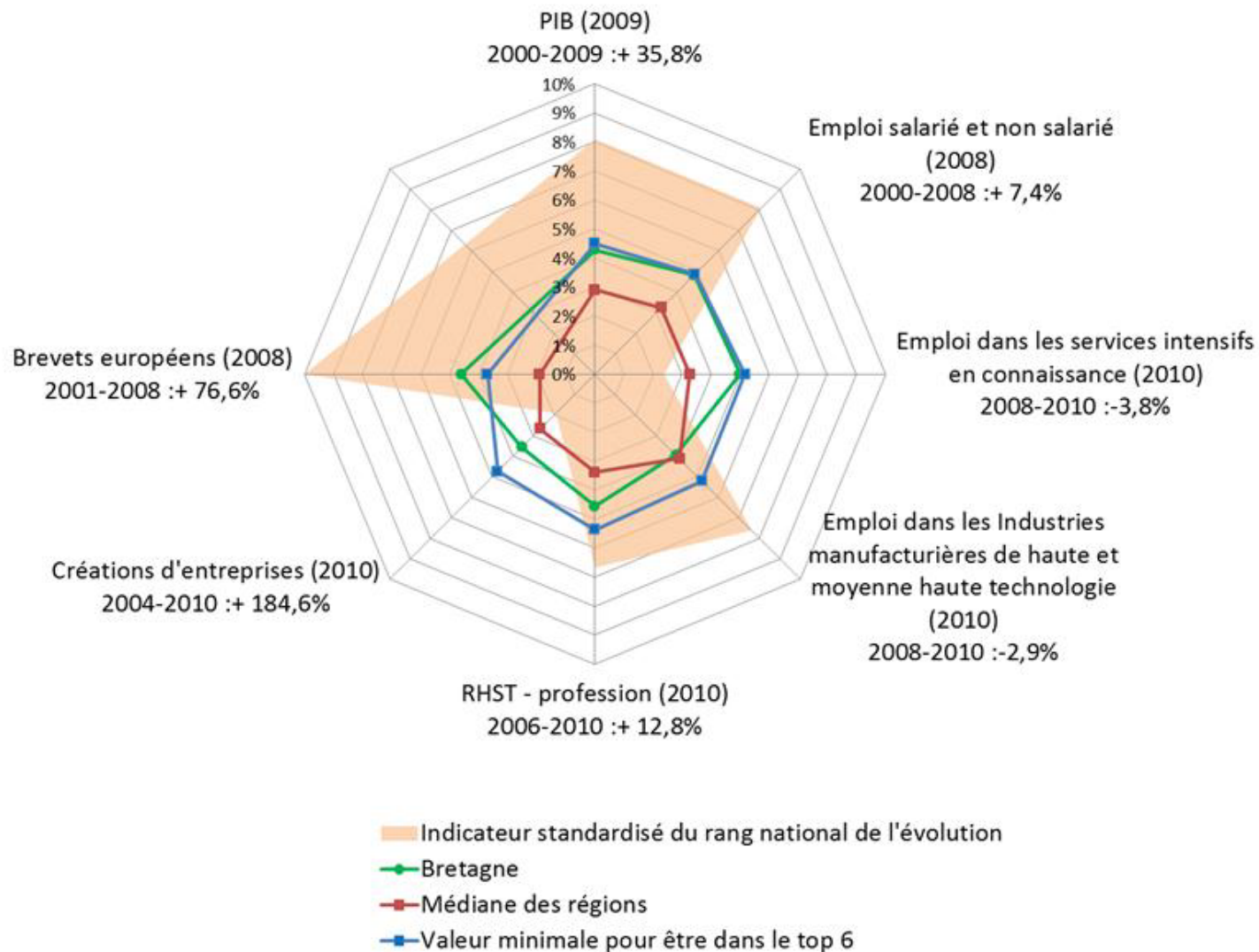


Les données 2009 de DIRD, DIRDA, DIRDE et DIRD des entreprises de moins de 250 salariés et chercheurs sont semi-définitives ; Les évolutions sont calculées sur les volumes, sur les années de référence indiquées

Indicateur standardisé du rang national de l'évolution : 10% = 1er rang national, 0% = 21e rang national

Les indicateurs de positionnement national de la Bretagne

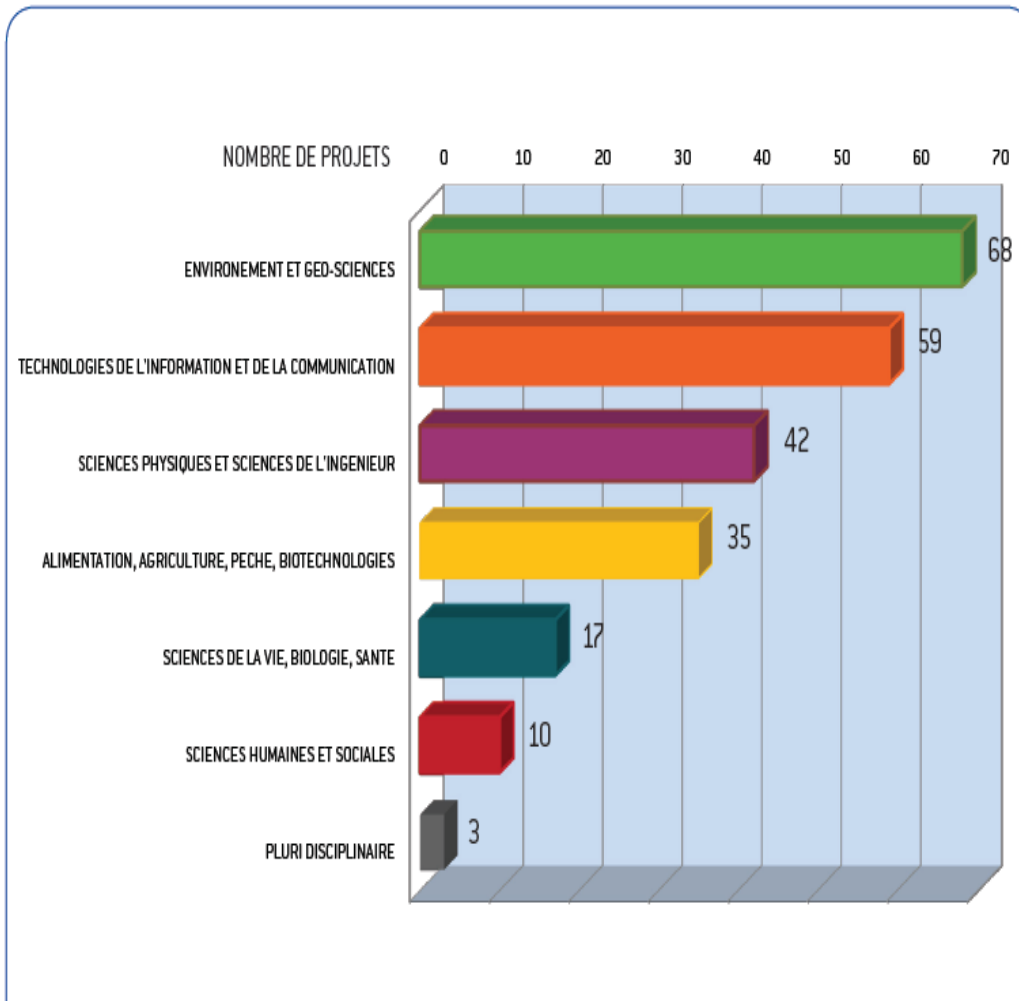
Parts nationales (%) et évolution des volumes (%)



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RÉPARTITION DES PARTICIPATIONS PAR THÉMATIQUE



A regional observatory
centralised the résultats
obtained in 2007-2011

- 254 participations
- 5.5 % of french participations

A regional strategy for european development of research and innovation ?



- With a vision of our environment in research, innovation and competitiveness, brittany invested in R&D projects
- The region of Brittany signed a CPER 2007-2013 contract with the french national authorities MENSUR. The projects were expertised and granted. Total amount = 480 M€
- In the mean time, FEDER 2007-2013, was mobilised
 - 100 M€ on TGV
 - 120 M€ research, innovation and competitiveness (in total management for brittany region)
 - 60 M€ environnement and other policies

A regional strategy for european development of research and innovation ?



Exemples of marine Infrastructures the region granted since 2007 (some of them, since long time but there were not infrastructure !)

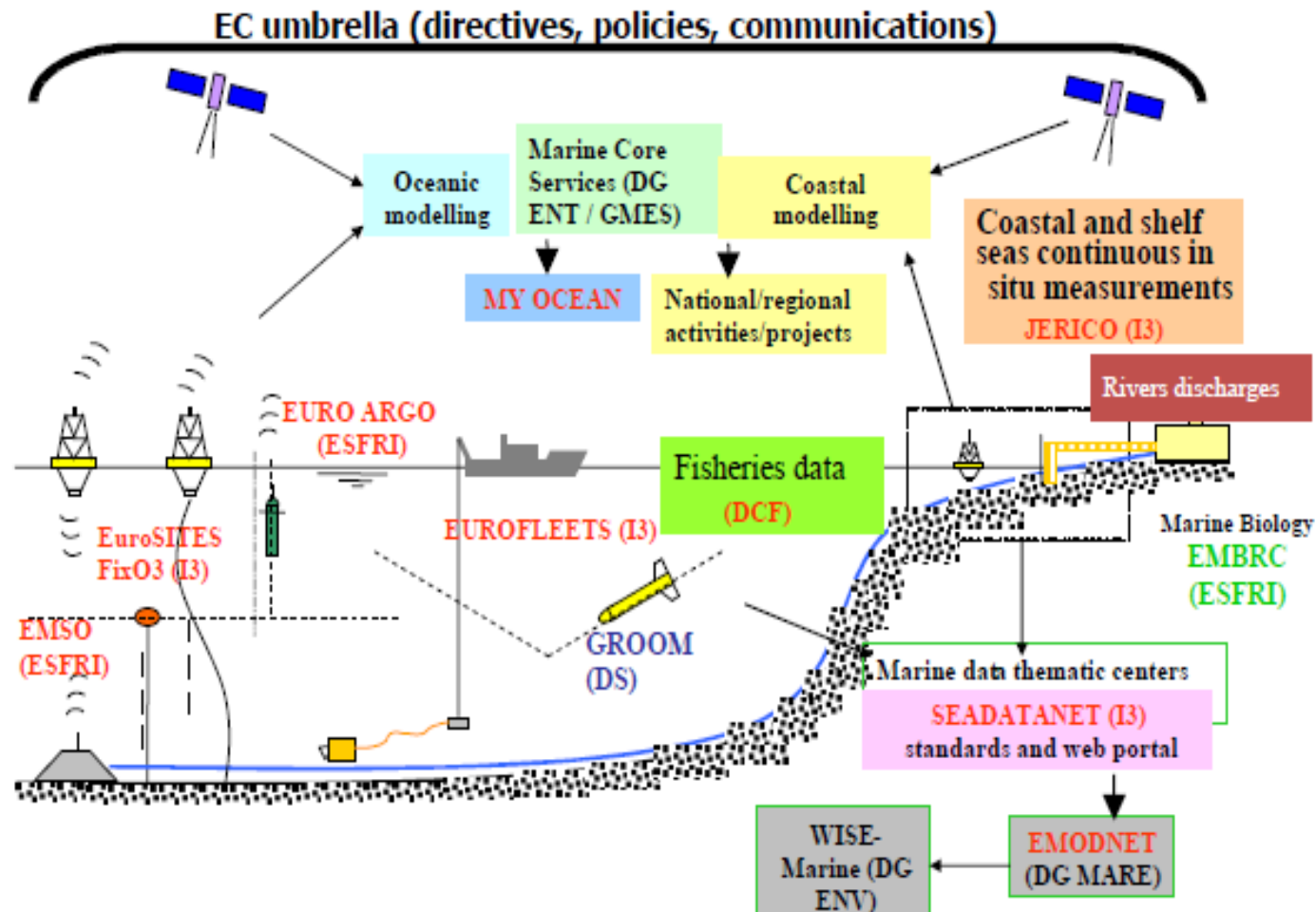
- Euro argo , Previsat, Prévimer and Vigisat in Brest (télécommunication/satellite/survey/GIZC...)
- EMBRC and marine station development in Roscoff (marine biodiversity, biotechnologies, Genomic and Post genomic activities, aquarium ...)



Les Infrastructures de Recherche marines soutenues par la Commission Européenne

European Strategy Forum on Research Infrastructures –ESFRI

Integrated Infrastructure Initiatives – I3



Cf Programme National Mer - Groupe Mer ALLENI

A regional strategy for european development of infrastructure ?



1. The first defi of this new facilities :
to be part of a community of research and european training,
2. The second defi : to create strong links with the local economic ecosystems
3. The third defi : Integrated the regional level in the future gouvernance

