



Intellectual Capital for Communities
In the Knowledge Economy

Intellectual Capital for Communities in the Knowledge Economy Nations, Regions, Cities and Emerging Communities



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Observatory for Intellectual Property

**French Public Research as patent
applicant**

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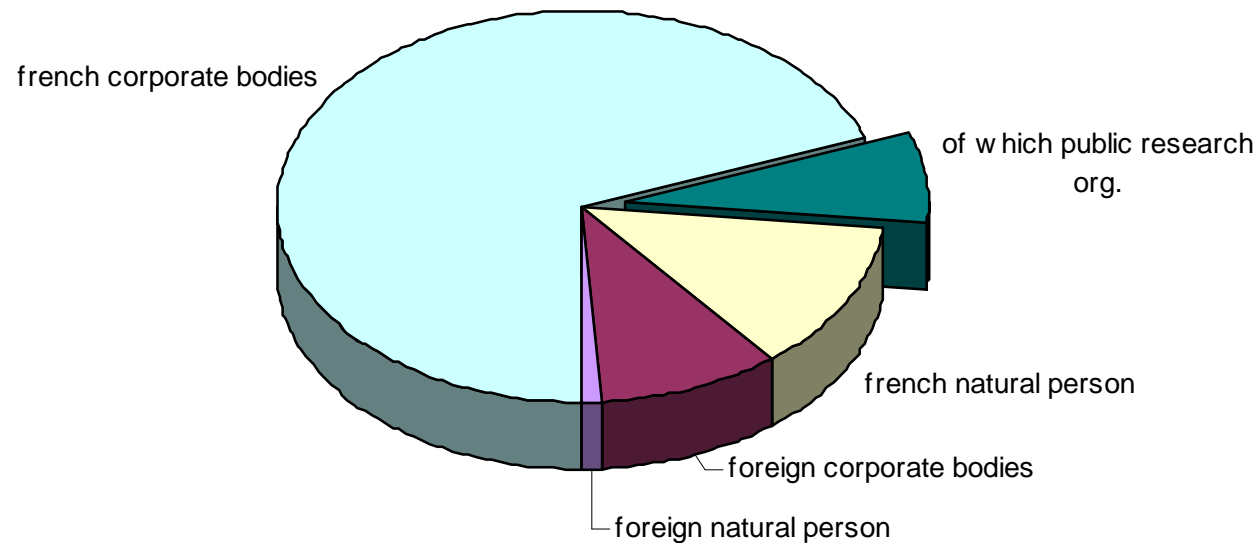
Observatory for Intellectual Property :

Direction of economic studies of the French Patent Office (INPI) created in 2001.

Objectives : a centre of expertise, analysis and reflection for all economic issues related to intellectual property

Patent applications published in 2010 (French national route)

→ 14 463 patent applications published in 2010 via the national route including 10,826 (71%) by French corporate bodies and 1,192 (8%) by public research



Specificities of patenting by Public Research

- **Less first applications filed by the French national route :**
- for INSERM, less than 10% of first filing with the INPI,
 - for the CNRS, 58 % of first filing via the French national route.

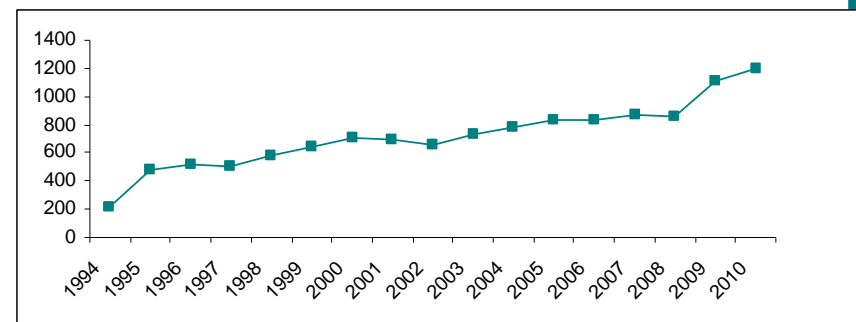
For the inventions of French origin, 86% of first filing are filed with the INPI, 6% with the EPO, 3% with the USPTO.

- **More joint patents :** for the French patent applications filed by corporate bodies, 5% have several applicants. For the patent applications filed by Public Research organizations, 18% have several applicants.

Development of patents from Public Research (French national route)

Year of pub.	Nb. of patent from public research organizations	% of public research in total published patents
2000	701	4,7%
2001	688	4,5%
2002	658	4,2%
2003	727	4,9%
2004	786	5,1%
2005	838	5,4%
2006	827	5,4%
2007	869	5,7%
2008	861	5,8%
2009	1,104	7,4%
2010	1,192	7,4%

➔ growth in patents is not always synonymous with the pace of innovation : there is a political will for patents to be filed on behalf of research organizations



Source INPI/OPI – 05/2010

Research organization in patent top applicants

Classement des principaux déposants par la voie nationale
selon le nombre de demandes de brevets publiées en 2010 -
source INPI (OPI) 2011

Rang 2010	Nom du déposant	Publiées
1	PSA PEUGEOT CITROEN*	1152
2	GROUPE RENAULT*	562
3	L'OREAL*	496
→ 4	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES*	495
5	GROUPE SAFRAN*	426
6	EADS (incluant Airbus)*	405
→ 7	CNRS	380
8	GROUPE VALEO*	363
9	GROUPE THALES*	352
→ 10	IFP ENERGIES NOUVELLES*	176
10	ROBERT BOSCH*	176
12	GROUPE SAINT GOBAIN*	169
13	GROUPE ARKEMA*	161
14	MICHELIN*	139
15	GROUPE STMICROELECTRONICS*	121
16	AIR LIQUIDE*	116
17	ALCATEL LUCENT*	102
18	GROUPE TOTAL*	90
19	GROUPE SEB*	82
19	SCHNEIDER ELECTRIC*	82

The 10 top applicants in Research organisation

(patent published in 2010 via the French national route)

COMMISSARIAT A L'ENERGIE ATOMIQUE*	495
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	379
INSTITUT FRANCAIS DU PETROLE	176
UNIVERSITE CLAUDE BERNARD LYON 1	33
GROUPE DES ECOLES DES TELECOMMUNICATIONS	24
UNIVERSITE JOSEPH FOURIER GRENOBLE I	24
UNIVERSITE PARIS 6 PIERRE ET MARIE CURIE	24
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE	21
ECOLE POLYTECHNIQUE	17
INSTITUT POLYTECHNIQUE DE TOULOUSE	14

Key stakeholders of the French Public Research

→ CNRS :

-The National Center for Scientific Research is a government funded research organization. Budget of 3.3 billion euros with 33,000 employees (of which 11,600 researchers), 1,100 research units mainly located in universities.

-CNRS's office for relations with industry, (« Direction de la Politique Industrielle »), oversees technology transfer for CNRS research

- results : 380 patents published in 2010 (+37%), 4 400 patents families, 860 licenses and other financially remunerating active acts, 58.2 million euros of royalties, 593 companies created with CNRS between 1999 and 2010

Key stakeholders of the French Public Research

→ CEA :

- The CEA is the French Atomic Energy and Alternative Energies Commission. It's a public body with a budget of 3.3 billion Euros, 15,000 employees, 9 research centres and 65 joint research units (UMR) linking The CEA and its Research partners.
- The CEA is active in 3 main fields : Energy, Information and health technologies, and Defence and national security.
- “Avenium Consulting”, consulting firm in intellectual property management and strategy
- results : 495 patent applications published in 2010, about 350 licensed patents.

Measures to encourage patenting

→ to encourage partnerships between public research and industry :

- Creation of competitiveness cluster : A competitiveness cluster is an initiative that brings together companies, research centers and educational institutions in order to develop synergies and cooperative efforts.
- doubling the research tax credit in case of research carried out by a public laboratory
- simplification of the management of patents with the sole mandate of management for joint research units, while over 70% of patents are held in public ownership
- facilitating the linkage between public and private laboratories, through a portal opened in 12/2009 : <http://www.lemoteurdelarecherche.fr>

Measures to encourage patenting

→ encourage researcher to patent

- Bonus : The law provides that for public researchers, authors of an invention, the additional bonus paid annually is equal to 50% of pre-tax net royalties received for the exploitation of the invention within a tier (currently around 65 000 euros annually) and, beyond that amount, 25% of the same product. This system is often considered more favorable than in industry and than in other countries
- to value patents in the career of researchers : for many, a scientific publication is more important than a patent. Each year the INPI organizes around 4,700 hours of training and awareness of industrial property per year for researchers

A project to support the exploitation of public R&D

- Caisse des Dépôts, the French development bank, has been commissioned by the government to support the exploitation of public R&D by creating France Brevets
- France Brevets will be a public fund of 100 M€ with the mission to put together large portfolios of intellectual property by acquiring licensing rights on patents from universities and research institutions
- Discussions have started on the feasibility of an IP transactions marketplace in Europe

Conclusion

- The number of patents from public research has expanded rapidly in recent years particularly because there is political will that patents are filed on behalf of research organizations
- However, there remains much progress to make, especially in organizing the exploitation of these patents. This task is complicated by the many partnerships and the multiplicity of actors and their status

Thank you for your attention.

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