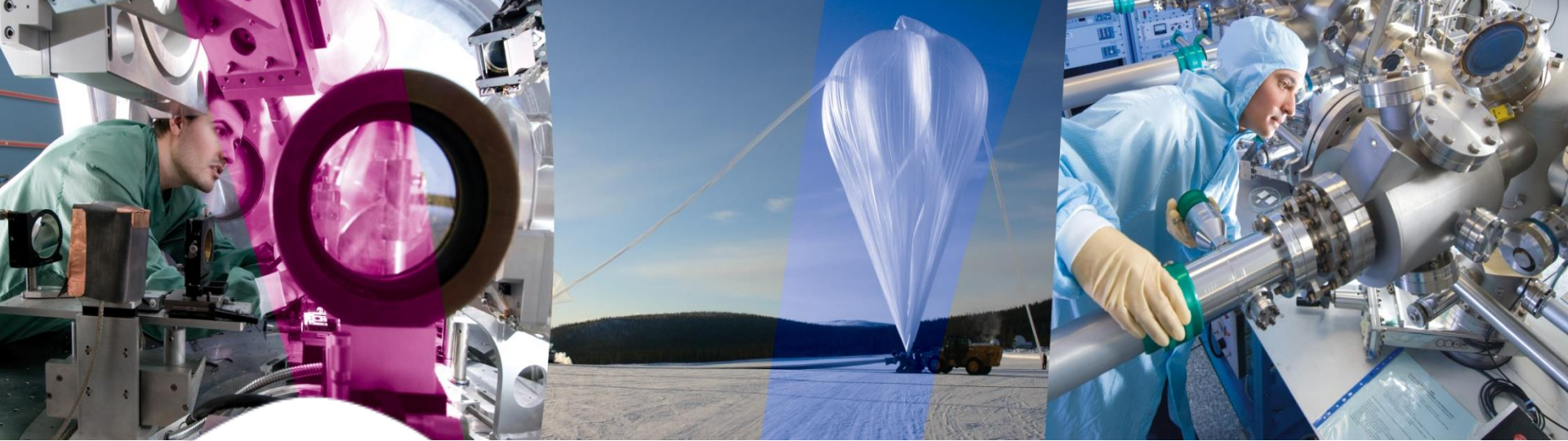




The National Center for Scientific Research

Japan at the heart of CNRS international cooperation





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CNRS IN BRIEF

ORGANISATIONAL DATA

| Organization type: **scientific & technological** public organization, under administrative authority of the French Ministry of National Education, Higher Education and Research

| Creation: **1939**

| CNRS is the largest fundamental research organization in Europe

| Research carried out in **all fields of knowledge**

| **Research performed in partnership** with universities and/or research organizations as well as private companies within **joint research units**

| number of research units (laboratories): **1,100**

| **95%** of research units are joint research units: **1,045**



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RESEARCH POLICY

- | Ten theme-based institutes and a mission for Interdisciplinarity
- | Important means dedicated to very large-scale research infrastructures
- | A policy of strengthening partnerships with higher education institutions
- | Active commitment in the setting up of a European research area
- | An ambitious international policy
- | Strong links with the business world



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THE TEN CNRS INSTITUTES



RESOURCES AND RESULTS UP TO OBJECTIVES

- | A **33,000**-strong workforce, including :
 - | **24,900** permanent personnel,
 - | **11,200** researchers and
 - | **13,700** engineers, technicians and administrative staff carrying out and supporting research
- | 2014 initial budget: **3.29** billion euros, including **722** million euros in CNRS-generated income
- | Over **1,100** research and service units
- | **43,000** publications each year on average for the period 2007-2011, according to the Global Scimago Institutions Rankings 2013
- | **20** Nobel prize laureates and **12** Fields Medal winners



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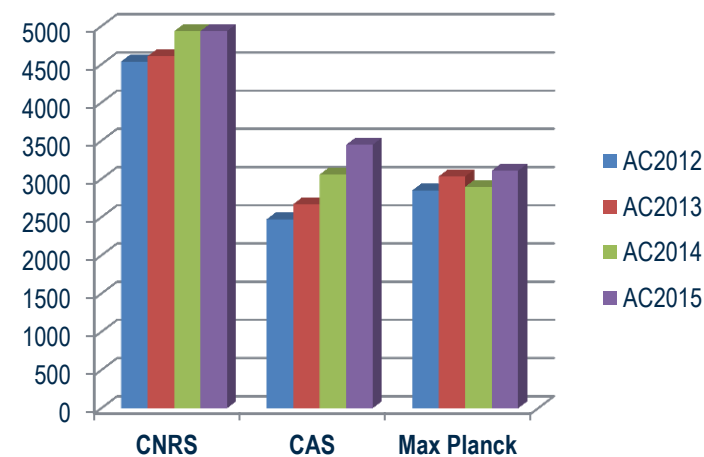
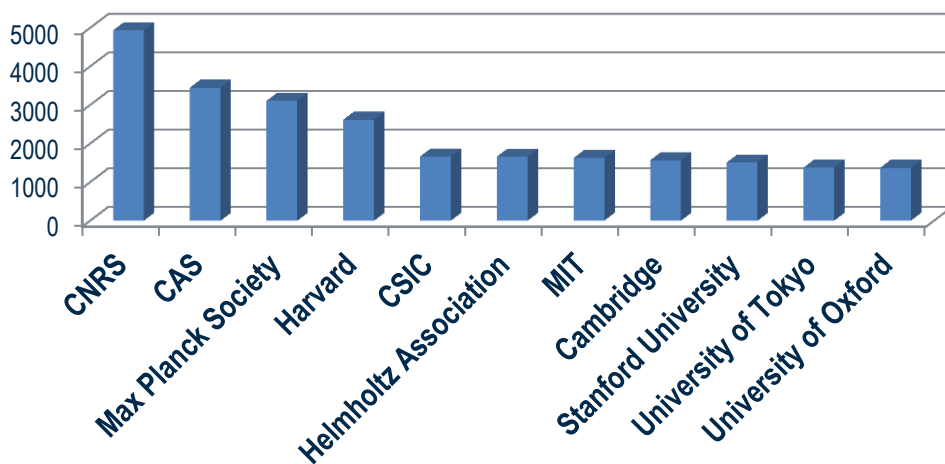
INTERNATIONAL RANKINGS



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nature Index 2016

Nature Index, Institution Output
Article Count February 2015 - January 2016





AN IMPORTANT ACTOR IN ECONOMIC LIFE



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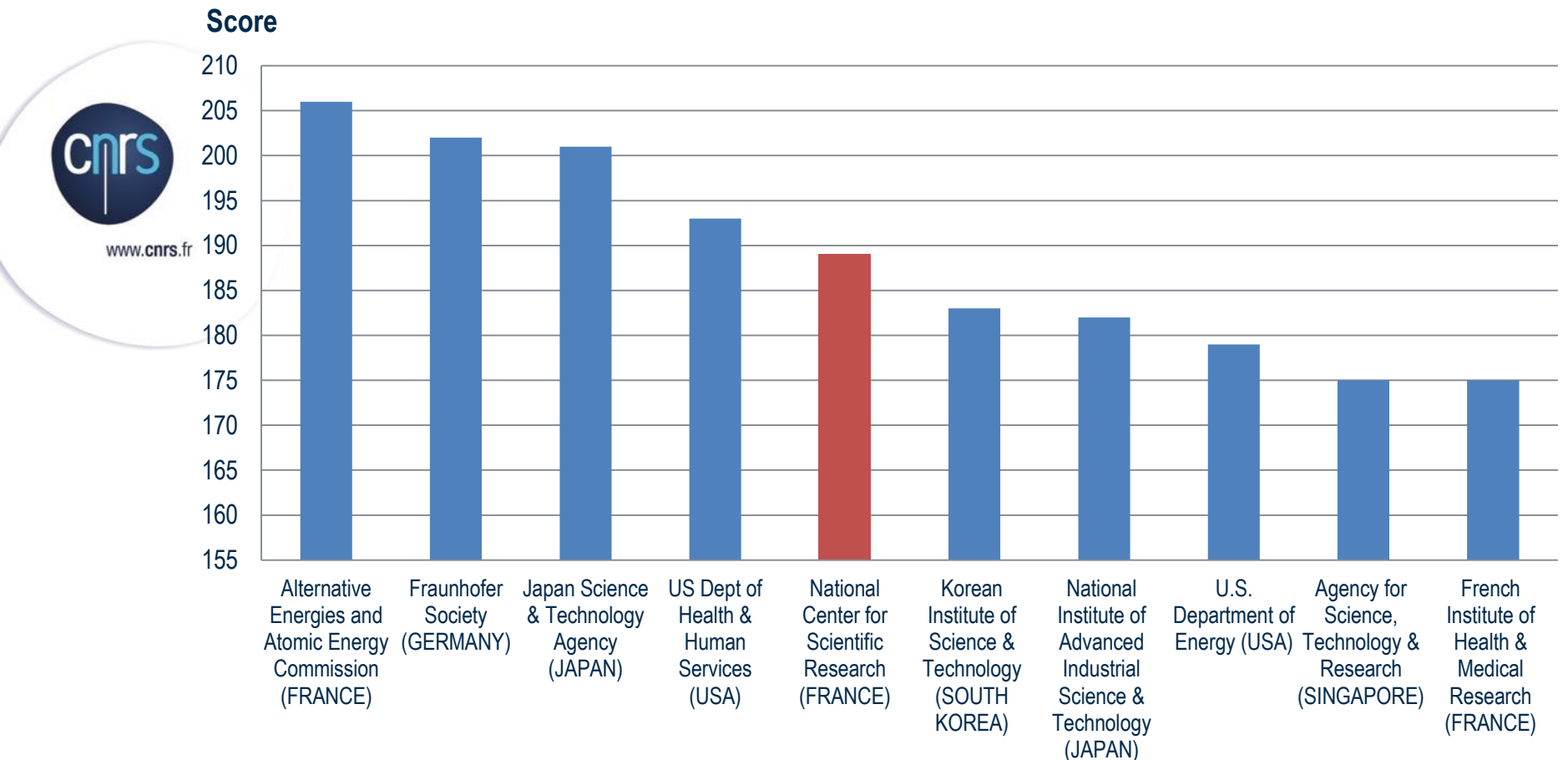
The CNRS develops productive relationships with industry, helps laboratories enhance their research and transfers technology to the business world

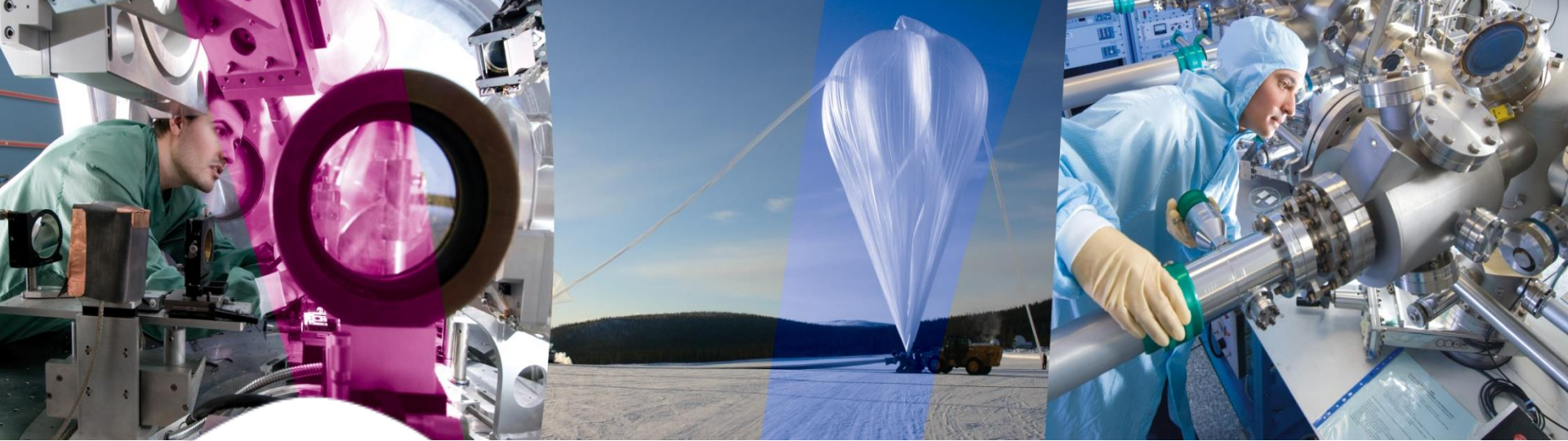
- | The CNRS has entered into **25** framework agreements with large industrial groups. It has set up **84** associated research laboratories with businesses.
- | With a portfolio of **4,535** patent families, the CNRS is among France's top **10** patent filers
- | More than **1,000** start-ups have been launched, stemming from research carried out in CNRS laboratories since 1999.
- | The CNRS plays an active role in France's **14** technology transfer companies (SATT) and is a member of France's **46** competitiveness clusters (out of 70).



CNRS & Innovation

The world's most innovative research institutions (Thomson Reuters 2015 ranking)



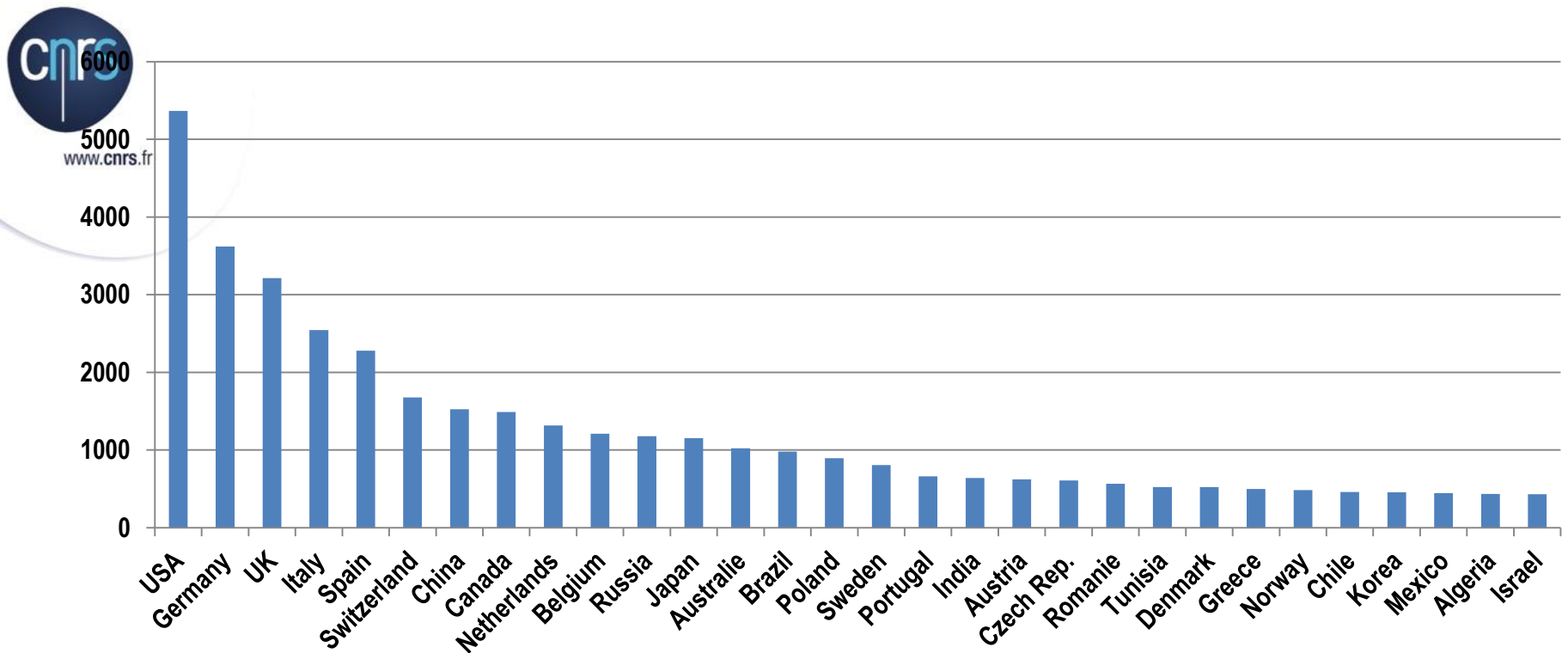


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CNRS ON THE INTERNATIONAL SCENE

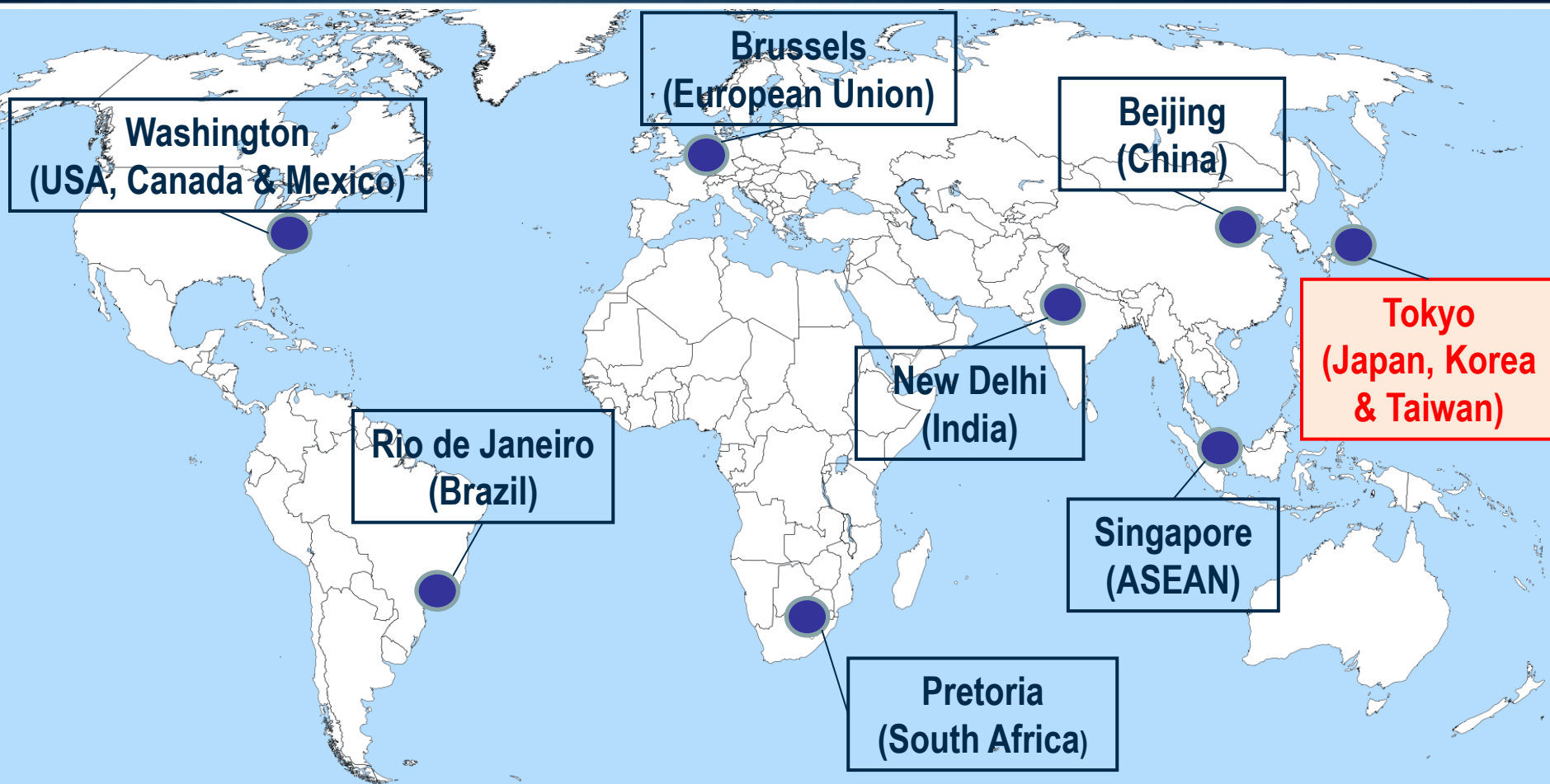
20 000 INTERNATIONAL COPUBLICATIONS PER YEAR (57 % of all CNRS publications)

CNRS co-publications breakdown per country (2012-2013 average)



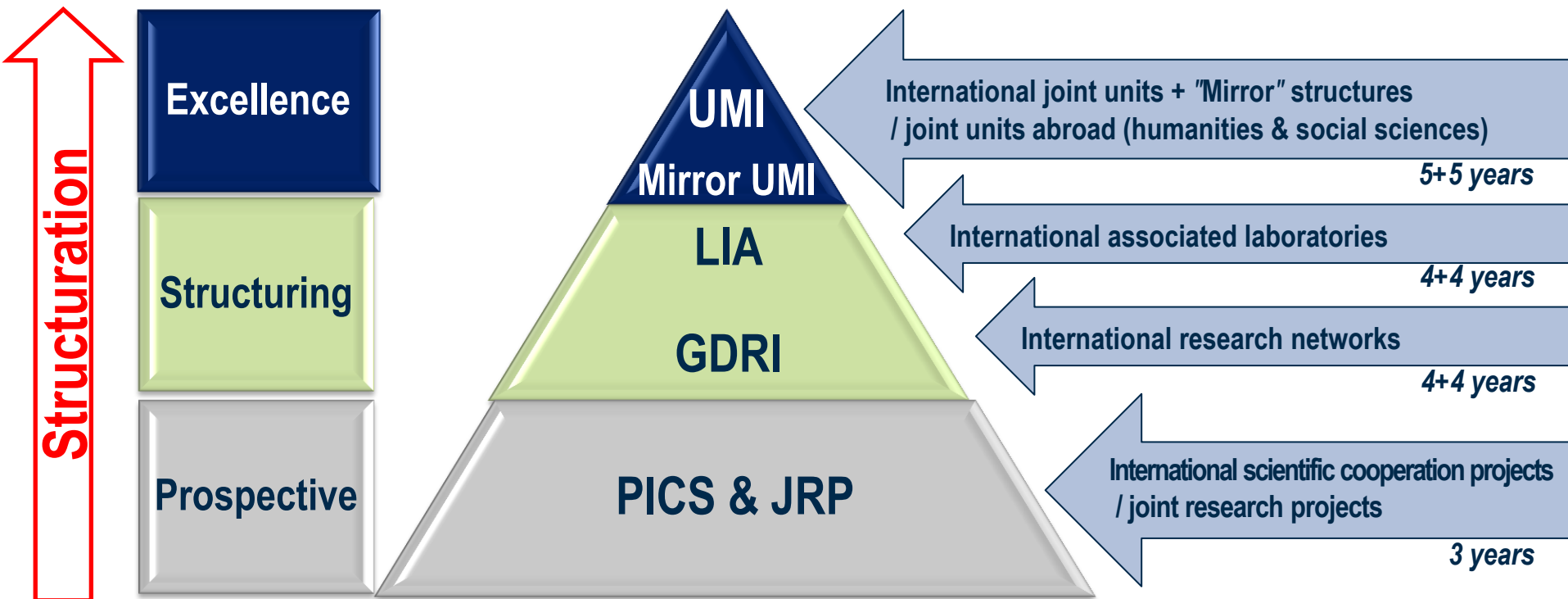
Data SCI Expanded --CPCI-S (Thomson Reuters) – processed by CNRS SAP2S & INIST

CNRS OFFICES ABROAD

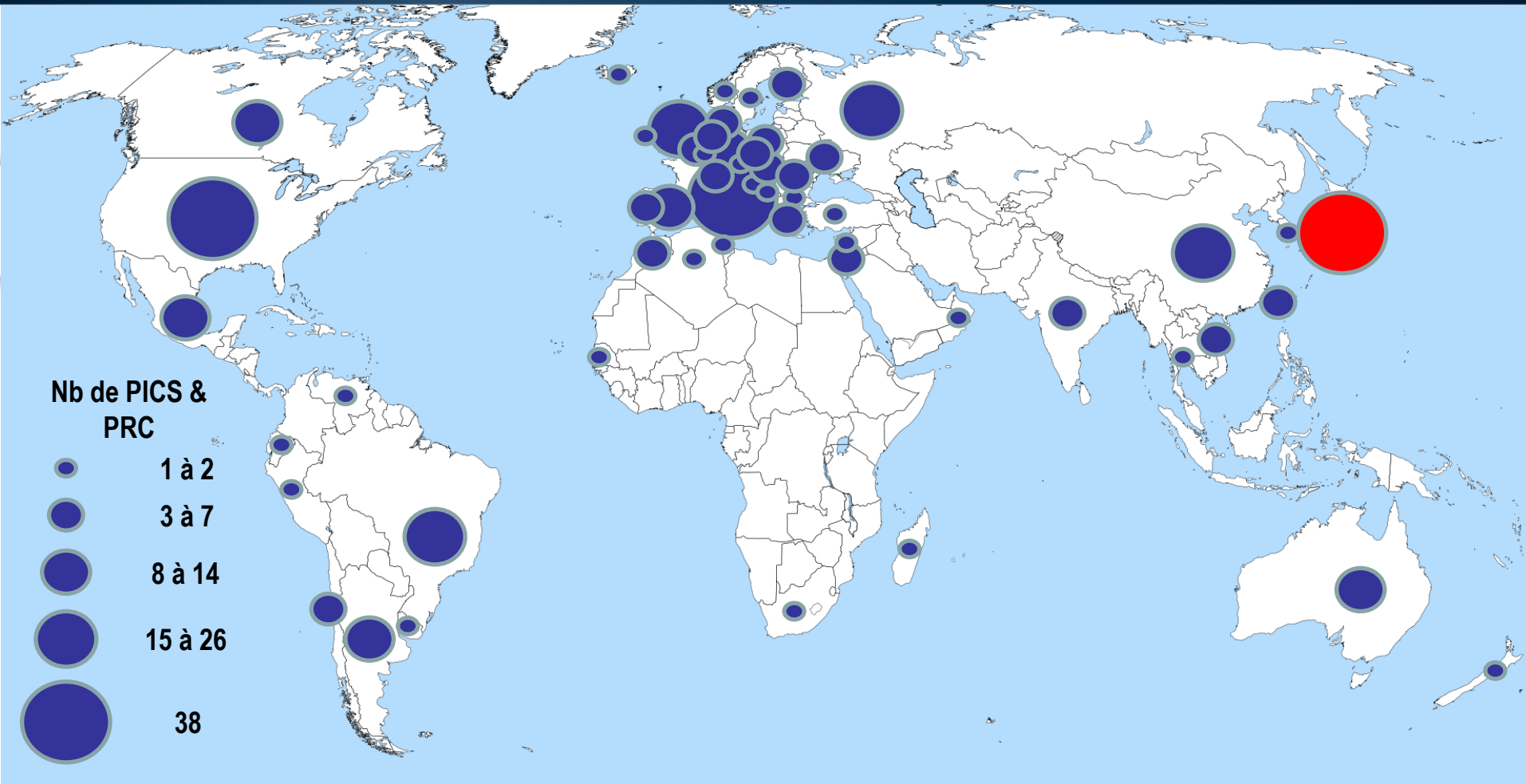


CNRS INTERNATIONAL COOPERATION

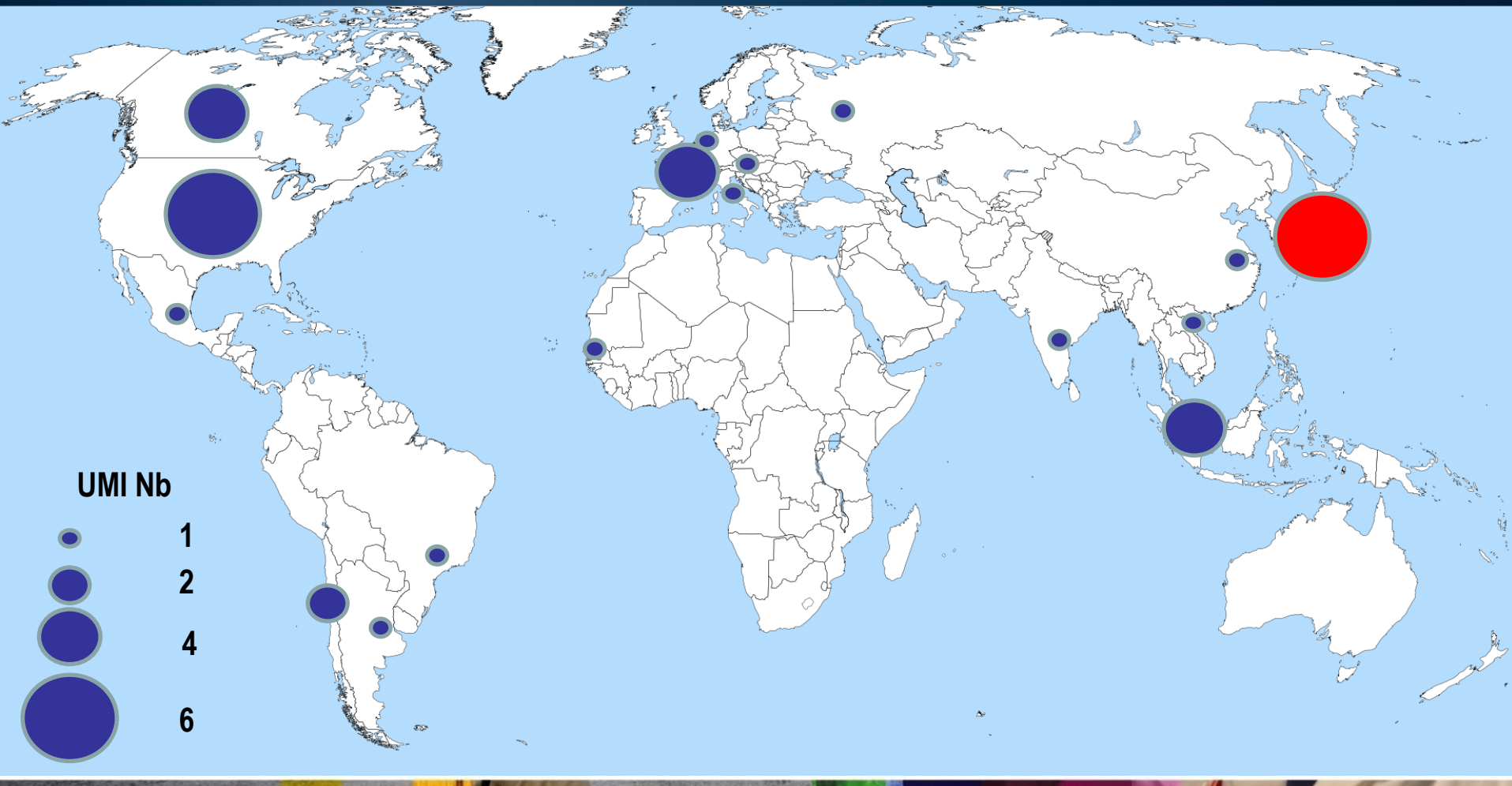
The CNRS plays a key role in global structuration & has developed a range of cooperative tools functioning on a competitive basis

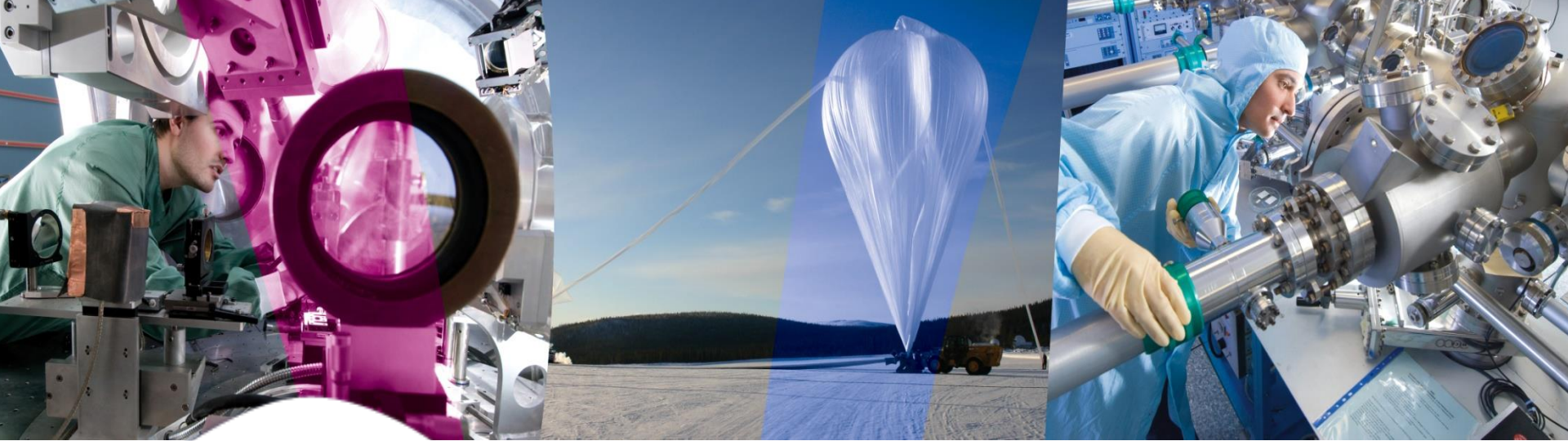


**383₍₊₄₅₎ PROSPECTIVE PROJECTS (PICS & JRC)
in 55₍₋₄₎ countries**



35 INTERNATIONAL JOINT UNITS (UMI) IN 17 COUNTRIES



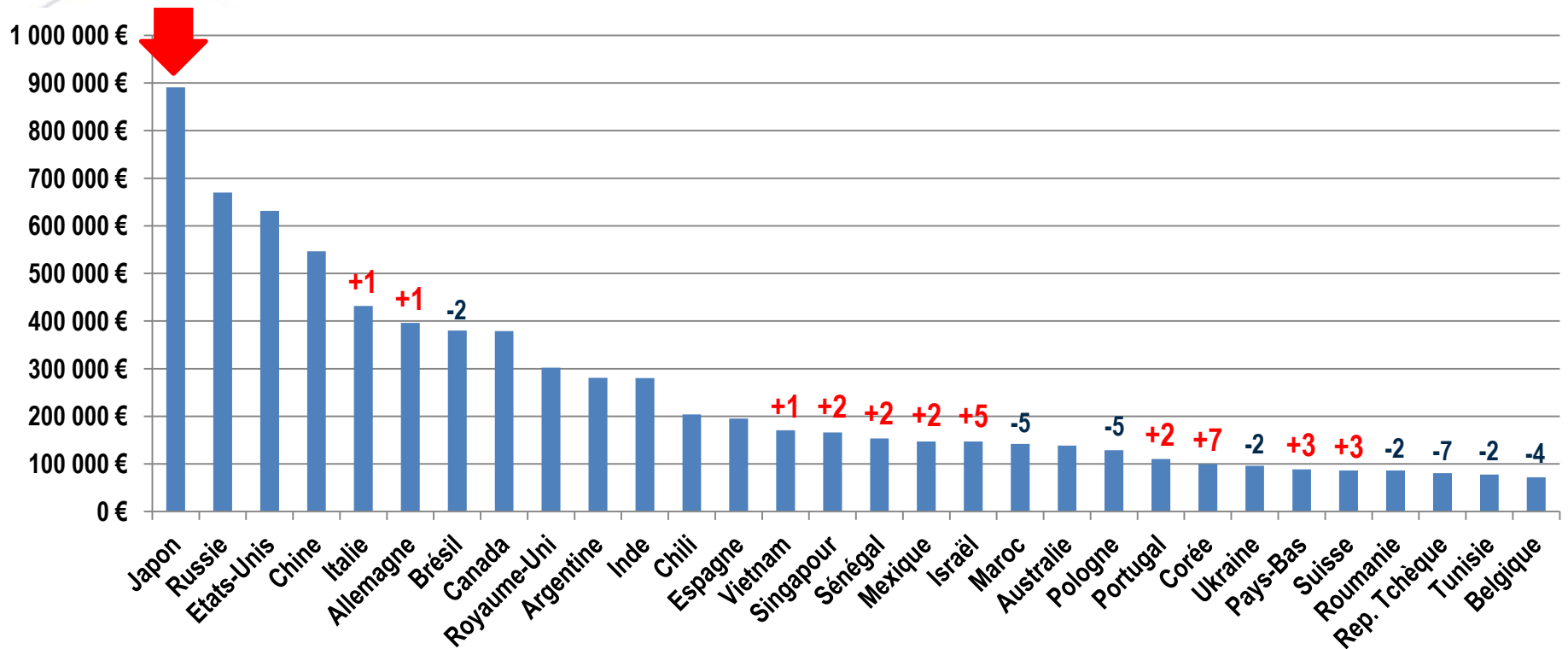


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CNRS FOCUS JAPAN

CNRS INTERNATIONAL COOPERATION BUDGET PER COUNTRY

Budget Dercis (2015) + UMI Dotations & Institutes actions (2014)



CNRS & Japan

- ◎ 1,526 CNRS visits to Japan (2014)
- ◎ 1,153 copublications between CNRS & Japan (2013)
- ◎ CNRS in 69% of France-Japan copublications
- ◎ Structured Collaborative Actions:
 - 4 UMI (2015) + 1 new UMI 2016 (ELyTMax – Tohoku U./U. Lyon)
 - 1 UMIFRE
 - 9 LIA
 - 6 GDRI
- ◎ Prospective Programs:
 - 18 PICS & 20 PRC (JSPS)
 - 1 EIG CONCERT-JAPAN (JST)



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JAPON - GDRI

13 GDRI: 5 INSHS, 1 INC, 2 INSB, 2 INSMI, 1 INSIS, 1 INEE, 1 INP

Nano & Micro Systems, with Tokyo U. Tohoku U. - multiple countries

Ecosystem Health & Environmental Disease Ecology, with Asahikawa Medical U., Kyoto U. - multiple countries

Origins of Globalization & Europe-Asia Divergence, with Tokyo U. - multiple countries

Singularity Theory, with Hokkaido U., Kagoshima U., Kyushu U., Tokyo U. of Science

Cancer, with Scientific Support Programs for Cancer Research

Reaction-Diffusion Network in Mathematics & Biomedecine, with Meiji U., Tokyo U. - multiple countries

Human Globalization: Migrations & Generations, with Maison franco-japonaise - multiple countries

Orientalism, with Toyo Bunko - multiple countries

Organic Molecules Photocommutation, with Japan Network for photoresponsive substances - multiple countries

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Knowledge Interactions & Decisions, with Kyoto U. – multiple c.

Matter in extreme conditions, with Osaka U.

Finance & employment in Asia, with Waseda U. - multiple countries

Integrative Plant Biology, with U. Tokyo, Osaka U., Tsukuba U., Saitama U, RIKEN

19

CNRS | DERCI (Europe & International)

AVRIST – “Le Japon, pays d’innovation”
Oct 19, 2016 – ENS (Paris)

JAPON - LIA

9 LIA: 1 SHS, 3 INSIS, 2 INC, 2 IN2P3, 1 INP

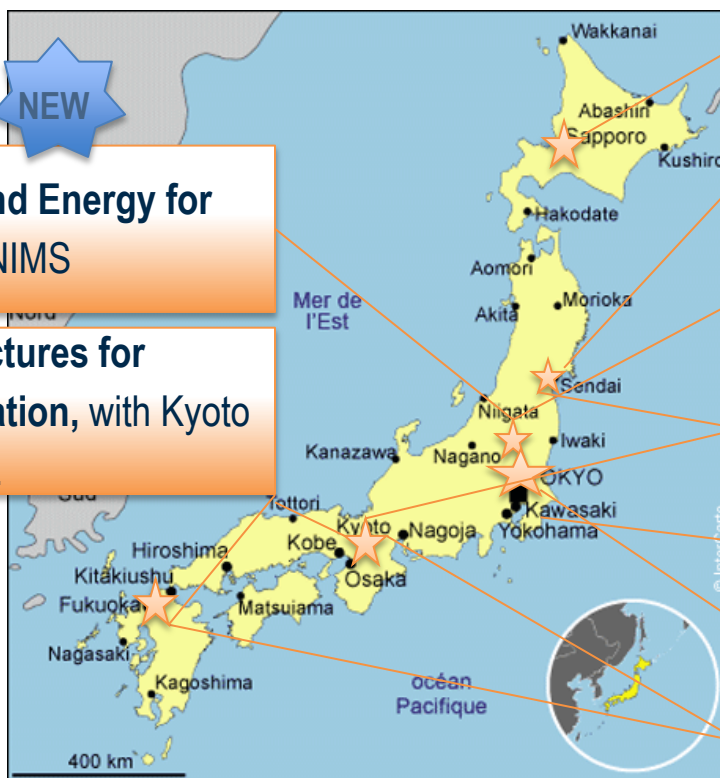


NEW

Nanosciences and Energy for the Future, with NIMS

Chiral Nanostructures for Photonic Application, with Kyoto U. & Kumamoto U.

NEW



Innovative Catalysts & Processes for Oxidation Reactions, Biomass Conversion, with Hokkaido U.

Engineering & Science Lyon Tohoku Lab, with Tohoku U.

France-Japan Particle Physics, with KEK, Tsukuba

Human Protection & Responses to the Disaster, with Doshisha U. & Fukushima U.

Photovoltaic, with Tokyo U.

France-Japan Nuclear Structure Problems, with RIKEN

France-Japan Magnetic Fusion Lab, with Kyushu U., Osaka U. & Nat. Institute for Fusion Science

JAPON - UMI

NEW

Engineering Science Lyon – Tohoku for Materials and Systems under Extreme Conditions (ELyTMax), with Tohoku U

Joint Robotics Laboratory (JRL) , with AIST - Tsukuba
Chair with Airbus

Laboratory for Innovative Key Materials & Structures (LINK), with St Gobain Company, at NIMS - St Gobain K.K. - *Partnership with Saint-Gobain*

Maison Franco-Japonaise (MFJ), with French Ministry of Foreign Affairs

Laboratory of Integrated Micro-Mechatronic Systems (LIMMS), with Tokyo U – *20th anniversary in 2015 Opening to EU partnership (INCOLAB)*

Japan-France Laboratory for Informatics (JFLI), with Tokyo University, Keio University, & Nat. Institute of Informatics



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Merci de votre attention

ありがとうございます

