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CNRS, activities in ASIA



## CNRS - AN ESSENTIAL RESEARCH CONTRIBUTOR

- | a scientific and technological **public** organization  
→ under the French Ministry of Higher Education and Research
- | the **largest fundamental research** organization in Europe
- | mission : to generate knowledge for the **benefit of society**
- | Aims at pushing push back the boundaries of knowledge
  - | Tools to strengthen **interdisciplinarity**
  - | Important means dedicated to very large-scale research **infrastructure**
  - | Key commitment in the setting up of a **European** research area
  - | Active **international** policy.



## CNRS IS PRESENT IN ALL FIELDS OF KNOWLEDGE



- | CNRS carries out research in all fields of knowledge, through 10 thematic institutes, (each coordinating 22 to 250 laboratories) :

- | mathematics
- | physics
- | computer sciences
- | nuclear and particle physics
- | earth sciences and astronomy
- | chemistry
- | biology
- | human and social sciences
- | ecology and the environment
- | systems & engineering sciences



## RESOURCES AND RESULTS



*Jules Hoffmann : 2011*

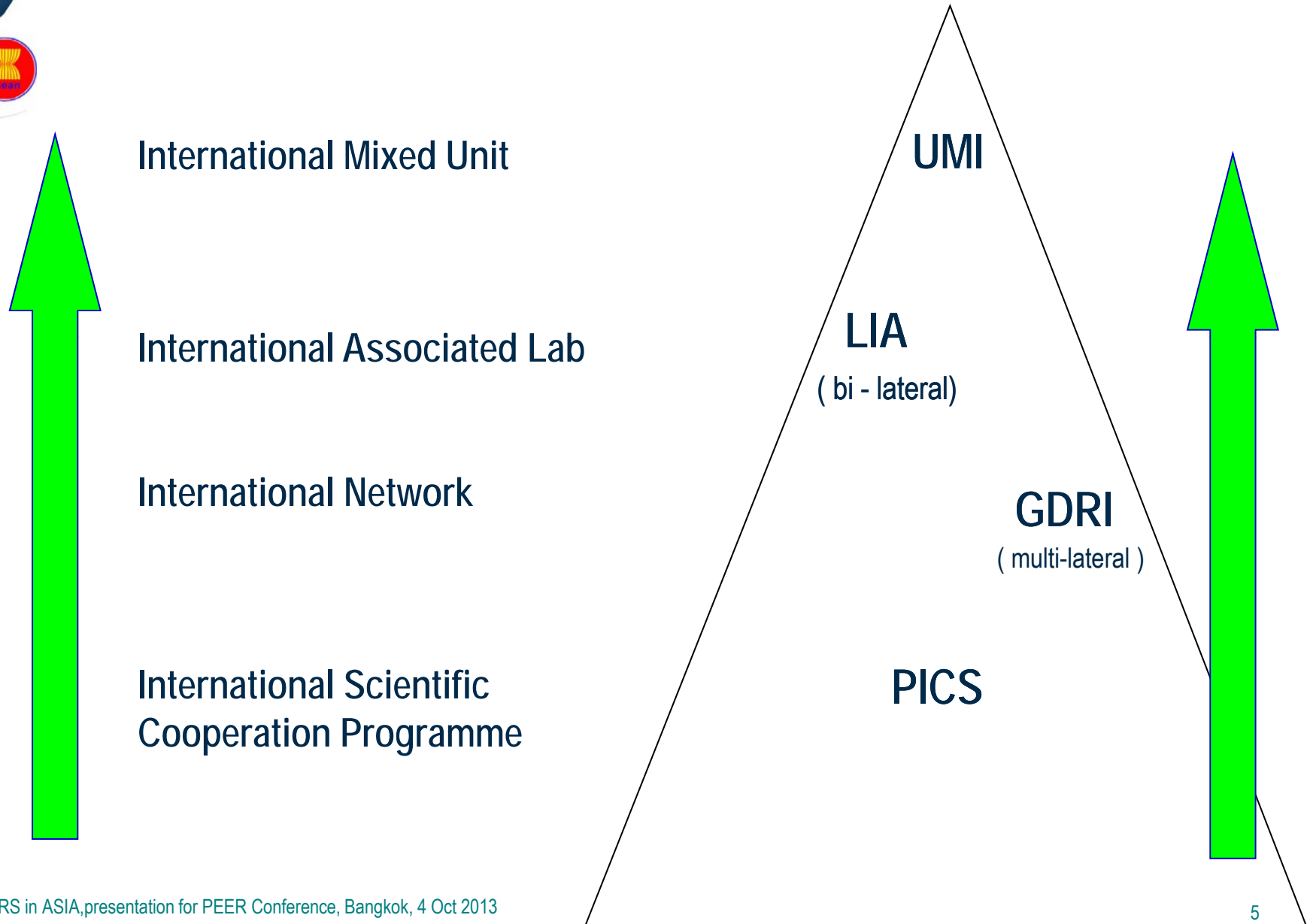


*Serge Harroche : 2012*

- | Nearly 34,000 people including 25,600 permanent personnel  
**11,400 researchers**  
14,200 engineers, technicians and administrative staff
- | Nearly **1,100 research units (laboratories)**
- | 90% of research is performed within joint research units, in **partnership with universities**, national, European and international research institutes as well as private companies
- | average of **25,500 publications** each year in high-caliber international magazines
- | **18** Nobel prize and **11** Fields Medal winners



# CNRS INTERNATIONAL TOOLS





## CNRS INTERNATIONAL FIGURES

CNRS plays a key structuring role in the global network of scientific collaborations and has developed a range of cooperation tools:

- | 50 bilateral agreements with 40 countries
- | 331 International scientific cooperation programs
- | 127 European/International associated labs (LIA) → 33 in ASIA
- | 112 European/International cooperation networks (GDRI) → 12 in ASIA
- | 30 International mixed units (UMI) → 8 in ASIA
- | 27 International mixed units with the French MAE (UMIFRE) → 5 in ASIA

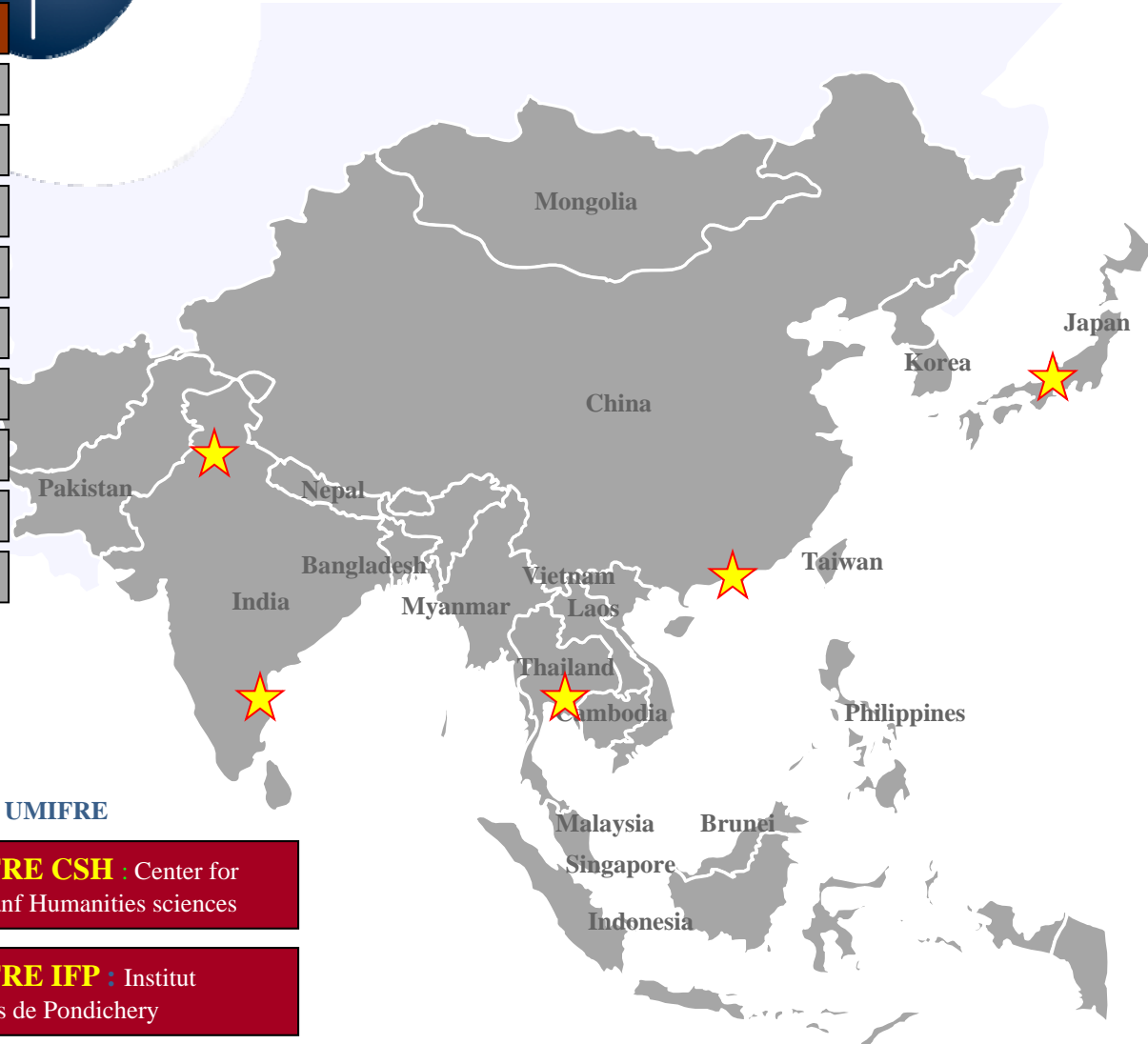


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CNRS, activities in ASIA



4 UMIFRE ( Social sciences )  
( 27 worldwide )



JAPAN : 1 UMIFRE

**UMIFRE 19 RICJ** : Research Institute on Contemporary Japan

CHINA : 1 UMIFRE

**UMI CEFC** French Centre for Research on Contemporary China

THAILAND : 1 UMIFRE

**UMIFRE IRASEC** : Institut de Recherche sur l' Asie du Sud-Est Contemporain

INDIA : 2 UMIFRE

**UMIFRE CSH** : Center for Social and Humanities sciences

**UMIFRE IFP** : Institut Français de Pondichery





# 8 UMI ( 30 worldwide )



### JAPAN : 3 UMI :

- UMI LIMMS** Laboratory of Integrated Micro-Mechatronic Systems, **Tokyo-U**
- UMI JFLI** Jp-Fce Laboratory in Informatics **Paris6., Keio-U., Tokyo-U., NII.**
- UMI JRL** Japanese Robotics Laboratory, **AIST**

### CHINA : 1 UMI :

- UMI E2P2L** : Eco-Efficient Products & Processes Laboratory **RHODIA**

### VIETNAM : 1 UMI :

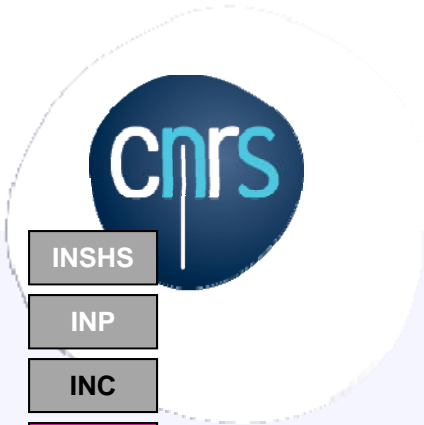
- UMI MICA** : Multimedia Information Communication and Applications **Gr-INP, H.U.S.T.**

### SINGAPORE : 2 UMI :

- UMI IPAL** : Image & Pervasive Access Laboratory **I2R (A\*STAR), NUS**
- UMI CINTRA** : CNRS International **THALES NTU** Research Alliance

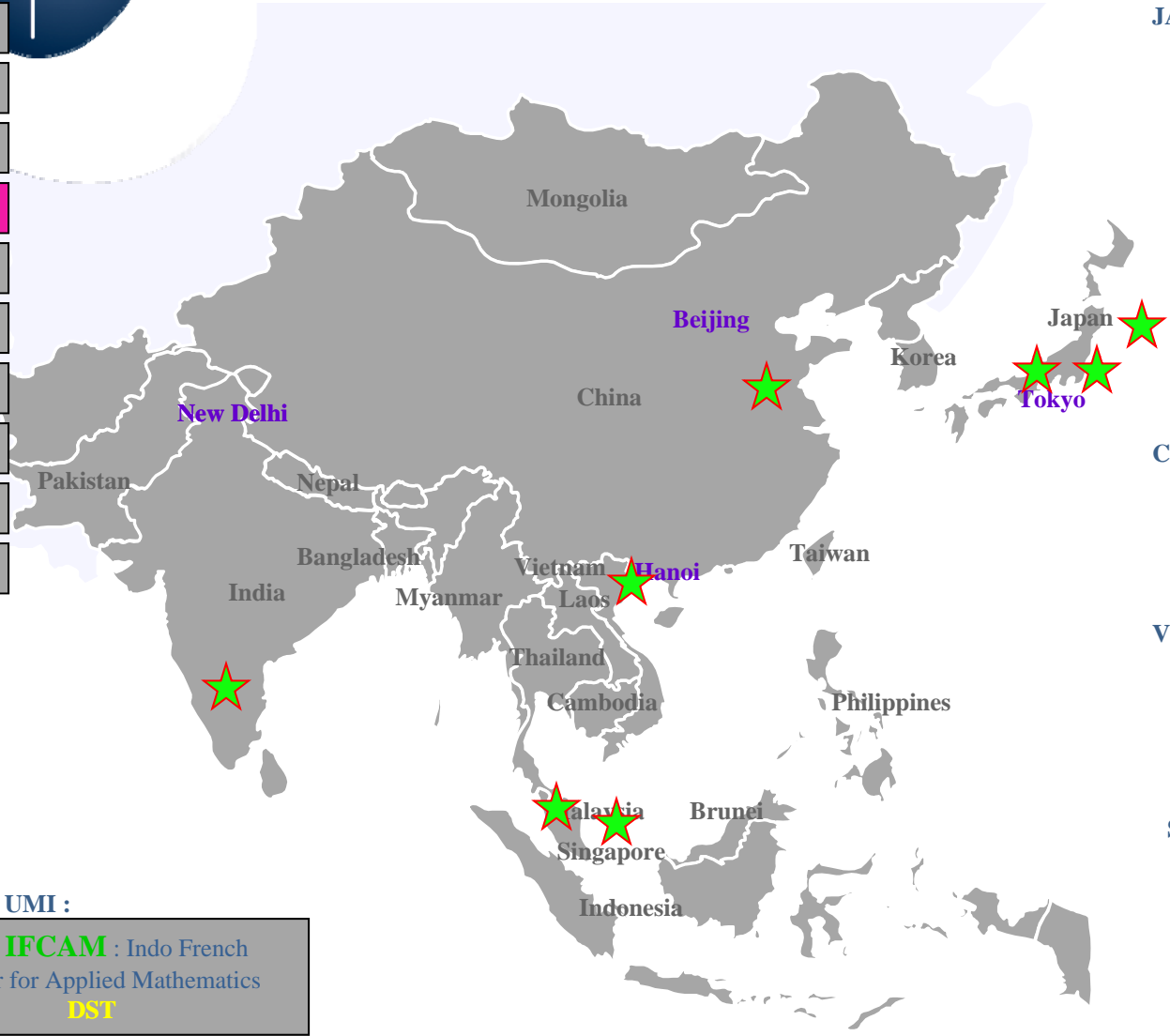
### INDIA : 1 UMI :

- UMI IFCAM** : Indo French Center for Applied Mathematics **DST**



8 UMI ( out of 30 worldwide )  
 3 of which in Engineering & Systems sciences

- INSHS
- INP
- INC
- INSIS**
- IN2P3
- INS2I
- INEE
- INSMI
- INSU
- INSB



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8 UMI ( out of 30 worldwide )  
3 of which in Computer Sciences



- INSHS
- INP
- INC
- INSIS
- IN2P3
- INS2I**
- INEE
- INSMI
- INSU
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**INDIA : 1 UMI :**

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8 UMI ( out of 30 worldwide )  
of which 1 in Chemistry and 1 in Mathematics



- INSHS
- INP
- INC
- INSIS
- IN2P3
- INS2I
- INEE
- INSMI
- INSU
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# 14 GDRI ( networks )

INSHS

INP

INC

INSIS

IN2P3

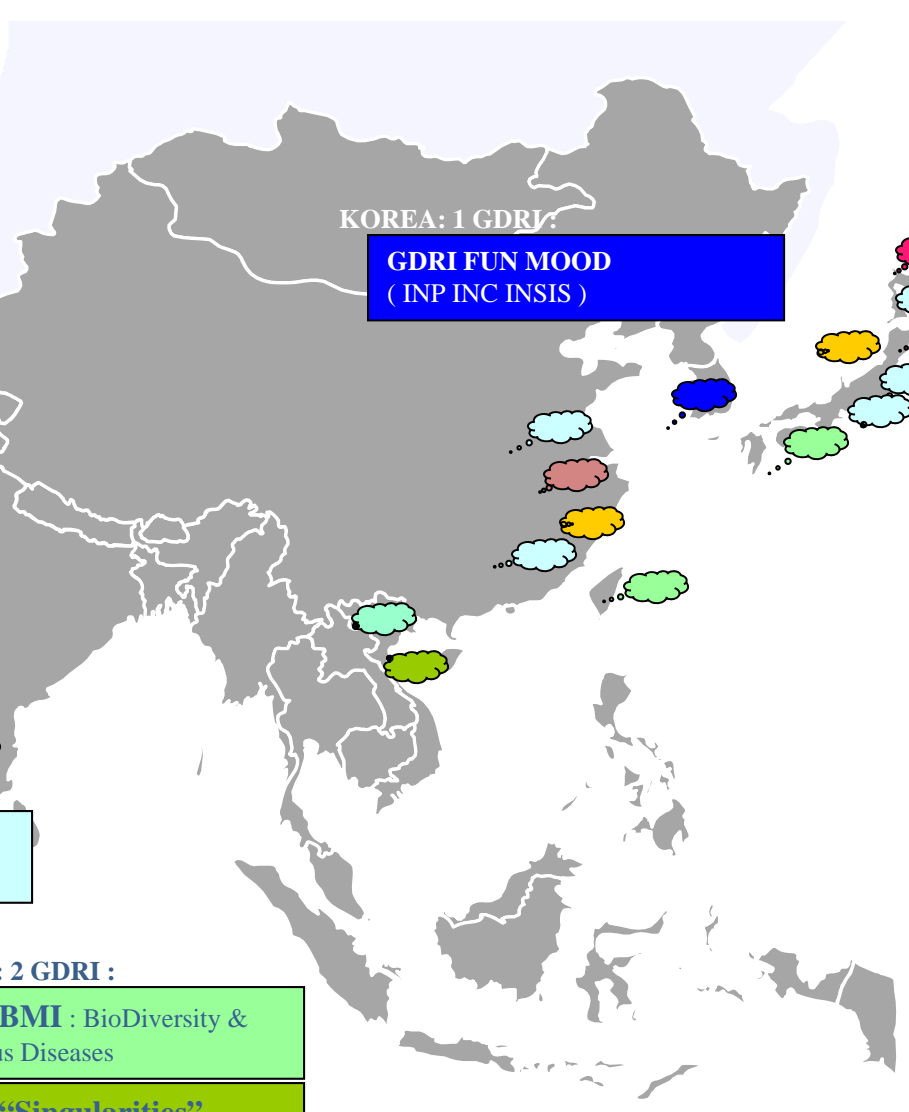
INS2I

INEE

INSMI

INSU

INSB



KOREA: 1 GDRI:

**GDRI FUN MOOD**  
( INP INC INSIS )

INDIA : 1 GDRI

**GDRI IFFOS** : Indo-French center For Organic Synthesis

VIETNAM : 2 GDRI :

**GDRI BMI** : BioDiversity & Infectious Diseases

**GDRI "Singularities"** (Maths)

JAPAN : 7 GDRI :

**GDRI NAMIS**  
Nano and Micro systems

**GDRI ECSAW** Environmental Catalysis for clean Air and Water

**GDRI Terahertz** Semiconductor detectors of THz frequencies

**GDRI ACPP**  
Diagrams automatic calculation

**GDRI MFMMD** Multifunctional Molecular Materials and Devices

**GDRI PHENICS** organic molecules photocommuation

**GDRI RECIFS**

TAIWAN : 1 GDRI

**GRDI RECIFS**

CHINA : 4 GDRI

**GDRI PHENICS** organic molecules photocommuation

**GDRI SAMIA** – Earth Sciences and Astronomy

**GDRI CEEBIO** electrochemical biosensors and biofuel cells

**GDRI QMAP** : Quantum Manipulation of Atoms & Photons



# 33 LIA ( virtual labs )

## JAPAN : 6 LIA

- LIA CASSH
- LIA ElytLAB
- LIA ReaDiLab
- LIA FJ-MFL
- LIA FJPPPL
- LIA FJ-NSP

## TAIWAN : 1 GDRI

- LIA ADEPT : Active deformation & environ't'l hazard assessment

## CHINA : 11 LIA

- LIA FC-PPL
- LIA ORIGENS
- LIA BioMNSL
- LIA PMC
- LIA LMTM
- LIA LFCC
- LIA XiamENS NanoBioChem
- LIA FOM
- LIA 2MCIS
- LIA LAS2M
- LIA LSE

## KOREA : 2 LIA :

- LIA FK-PPL France Korea Particle Physics Laboratory
- LIA CPN Center for Photonics and Nanostructures

## SINGAPORE : 2 LIA

- LIA FSQL : Quantun physics
- LIA CAFS : MechanoBiology
- LIA VIIC Petrochemical research
- LIA Corrosion
- LIA PhytoChemistry
- LIA CSA-CSAE
- LIA FV-PPL
- LIA ForMATH

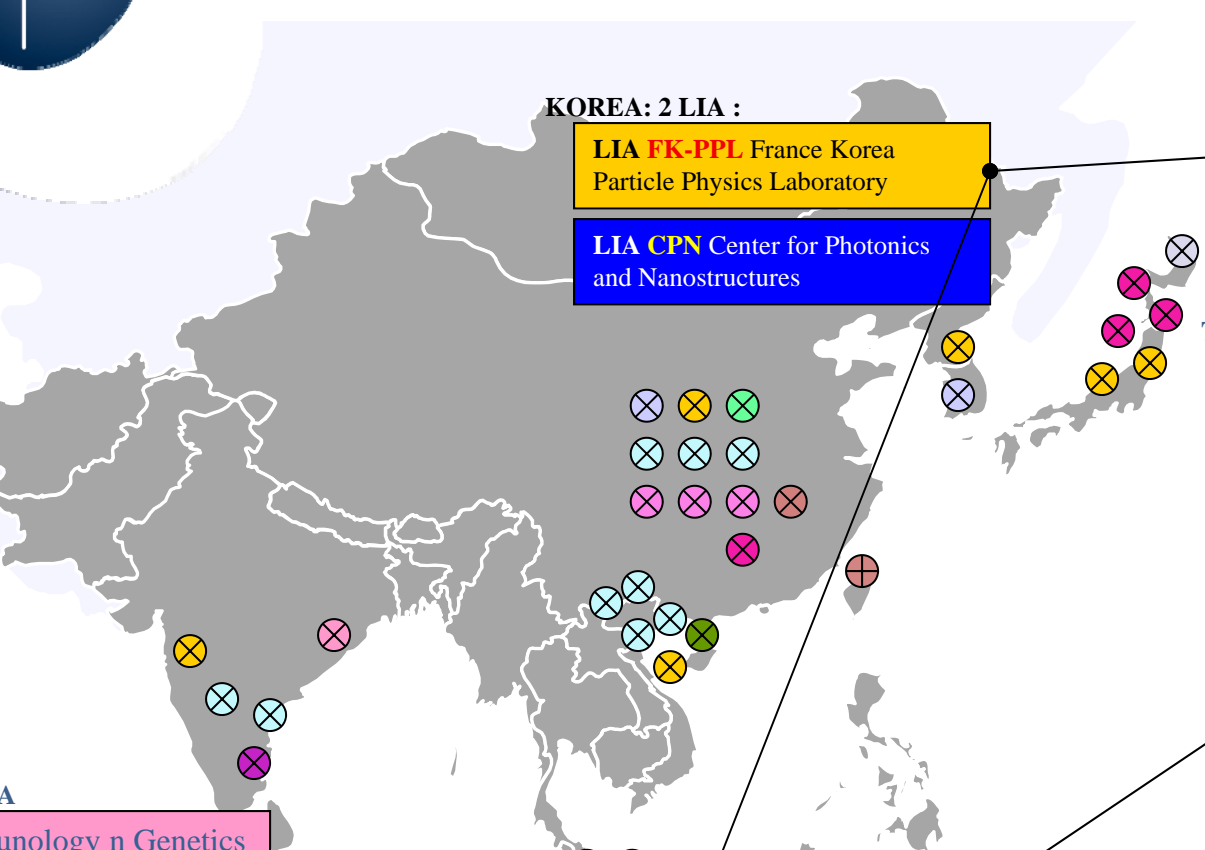
## VIETNAM : 6 LIA

- LIA ER Confere

## INDIA : 5 LIA

- LIA Immunology n Genetics
- LIA Nuclear Sciences
- LIA CATalysis for Sustainable ... chemistry
- LIA IF Formal Methods Lab.
- LIA Solid State Chemistry

- INSHS
- INP
- INC
- INSIS
- IN2P3
- INS2I
- INEE
- INSMI
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**TIPS :**  
How to connect ?



The CNRS mainly works on a bottom-up generation of ideas.

→ hence, please feel free to contact our researchers, either through :

- | their research unit in the region (next 2 slides) :
  
- | or through our representative offices in Asia (last slide) :





## 5 UMIFRE ( Social sciences ) ( 27 worldwide )

JAPAN : <http://www.mfj.gr.jp/>

CHINA, Hong-Kong : <http://www.cefc.com.hk/>

ASEAN, Thailand - Bangkok : <http://www.irasec.com/>

INDIA, New Delhi and Pondicherry : [http://en.wikipedia.org/wiki/French\\_Institute\\_of\\_Pondicherry](http://en.wikipedia.org/wiki/French_Institute_of_Pondicherry)

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<http://jfli.cnrs.fr/>

**UMI JRL** Japanese Robotics Laboratory, **AIST**

<http://unit.aist.go.jp/is/jrl/ci/>

CHINA

**UMI E2P2L** : Eco-Efficient Products & Processes Laboratory **RHODIA**

<http://www.lof.cnrs.fr/spip.php?article490>

INDIA

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<http://www.math.iisc.ernet.in/~ifcam/>

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<http://www.mica.edu.vn/>

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  - | Beijing : Dr Patrick Nédellec ( [patrick.nedellec@cnrs-dir.fr](mailto:patrick.nedellec@cnrs-dir.fr) )
  - | New Delhi : Dr Dominique AYMER DE LA CHEVALERIE ( [dominique.aymer@cnrs-dir.fr](mailto:dominique.aymer@cnrs-dir.fr) )
  - | / Hanoi (ASEAN): Mr Luc LE CALVEZ ( [luc.le-calvez@cnrs-dir.fr](mailto:luc.le-calvez@cnrs-dir.fr) )



Thank you,  
Merci !