



www.cnrs.fr

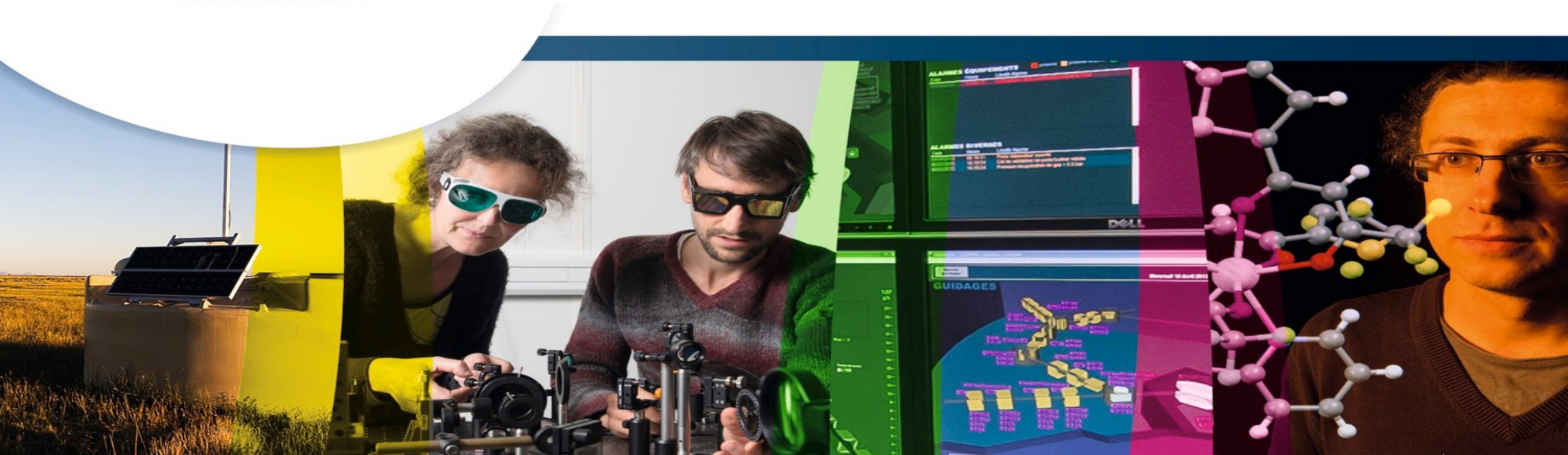


AMBASSADE
DE FRANCE
EN INDE

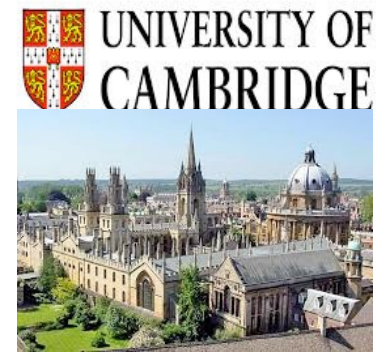
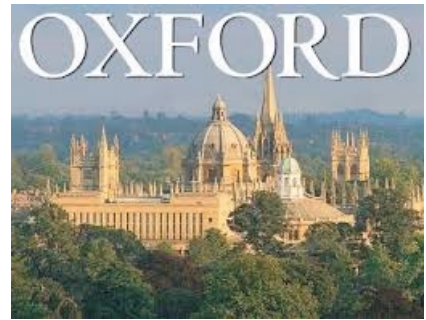
*Liberté
Égalité
Fraternité*



Indo-French Scientific cooperation tools & Exploring Higher Education and Research Collaborations in France and CNRS: Insights and Tips



Quiz ?





University of
Newfoundland

University of
Milwaukee

Saskatchewan
University

Monash
University



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SORBONNE

UNIVERSITÉS





Marie Skłodowska Curie



René Descartes

Cogito, ergo sum

je pense, donc je suis

“I Think, Therefore I Am”



Marie CURIE



Louis Pasteur



André-Marie AMPERE



Blaise PASCAL



Louis BRAILLE



5 reasons for doing research in / with France

- 76 Nobel prizes (#4) & 13 Fields Medals (#2)
- High impact : #6 in the world (#2 CNRS) ; copublications with higher impact
- 42% PhD student from abroad (29,000 / 70,000) – 4th in the world
- Close link public & private (40/60) & 2.25% of GDP on R&D
- Join Research Unit : universities and research institutes closely linked #6 in the world for publication impact (#2: CNRS)



Institut Pasteur



Indo-French Scientific Ecosystem

2018 - 2019 -2021

Knowledge
Summit

CEFIPRA



COMIXTE

≈ 80 on-going projects
≈ 400 mobility each year

2018-2024

2 French Institutes of Research:

- Centre de Sciences Humaines
- Institut Français de Pondichéry



32 International Programmes (IRL, IRN, IRP, cells and networks)

600+ MoUs active agreements between French and Indian HEI

28 private R&D Centers from French companies (Schneider, Thales, Dassault...)

Indo-French Centre for the Promotion of Advanced Research (IFCPAR) Centre franco-indien pour la Promotion de la Recherche avancée (CEFIPRA)



- Annual budget : **4 M€** (equally shared by the two countries)



Collaborative Projects: 650+



Industrial Projects: 45+



Seminars/ Workshops: 175+



Publications: 3500 (Approx.)



Citations Received: ~80,000
(Source: Web of Science)



Institutional Linkages:
Indian: 190+; French: 90+



Human Resource Trained:
~4500 including 1200 PhDs and Post Docs



Mobility (Scientists and Students): ~5500

chemistry
material sciences
planetary sciences
marine biology
information sciences
health sciences
environmental sciences
biology & ecology
biotech
computer

Indo French Health Campus



- **Creation of Joint Master/ PhD program**
- **Academic Mobility to support research and training collaboration via workshops/symposiums**
- **Collaboration with the Industrial Sector**

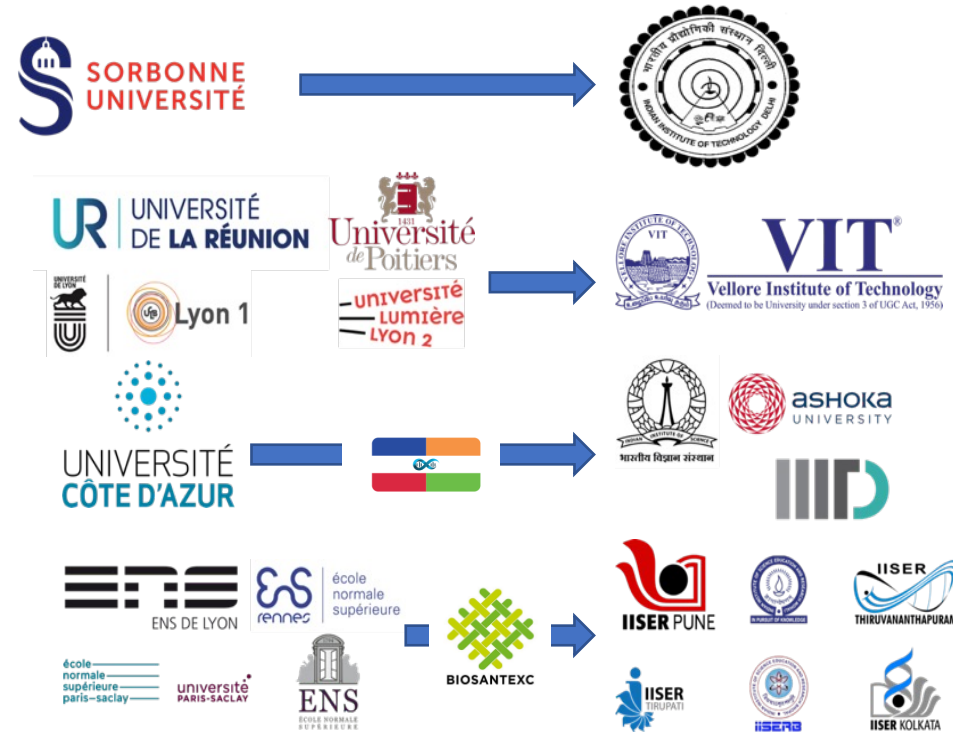
FRANCO-INDIAN CAMPUS

IIT Delhi - Sorbonne Université : **INTEGRATED HEALTH**

Vellore - Université de la Réunion / Université de Poitiers / Universités de Lyon 1 & 2 (avec VIT Vellore) : **ILIADE**

Bangalore / New Delhi / Sonipat - University Côte d'Azur (IISc Bangalore, Ashoka University, IIIT Delhi) : **CFI**

6 IISER's Pune / Mohali / Kolkata / Thiruvananthapuram / Tirupati / Bhopal - 4 ENS (écoles normales supérieures) : **BIOSANTECX**



Other Initiatives

Short Research Trip to France (SRTF) / SSHN



RESEARCH THEMES

- Science and technology
- Social and human sciences

Who can apply : Young and senior researchers holding a permanent position at Indian HERI

Duration : 10-15 days

Benefits:

- 1 return flight ticket India/France/India
- Stipend of maximum 1027.5 €
- Social security benefits

MOPGA visiting fellowship program for Early Career Researchers 2023



RESEARCH THEMES

- Earth systems
- Climate change and sustainability
- Energy transition
- Societal challenges of environmental issues
- Human, animal and ecosystem health as part as a "One Health" approach

Who can apply : PhDs

Duration : 12 months

Benefits:

- Monthly allowance of 2,500 euros
- Moving allowance of 500 euros

Deadline: January 9th 2024

France Excellence Eiffel scholarship program 2024



RESEARCH THEMES

- Science and technology
- Social and human sciences

Who can apply : Masters and PhDs

Duration : 12 to 36 months for masters;
6 to 36 months for PhD

Benefits:

- Monthly allowance of 1181 euros for masters
- Monthly allowance of 1700 euros for PhDs

Deadline: January 10th 2024





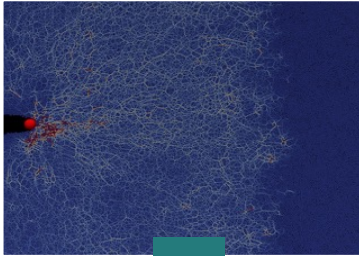
CNRS was created on 19 October 1939

"Il n'est pas de science possible où la pensée n'est pas libre, et la pensée ne peut pas être libre sans que la conscience soit également libre. Chacun de nous peut bien mourir, mais nous voulons que notre idéal vive".

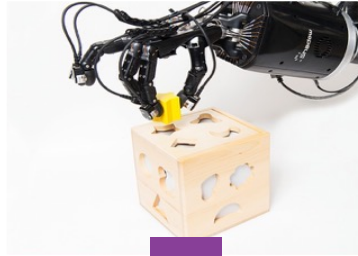
Jean Perrin, 23 septembre 1939, extrait du discours radiodiffusé annonçant la naissance du CNRS.

"...the mobilization of French laboratories through CNRS amounted to the creation of a new regiment.."

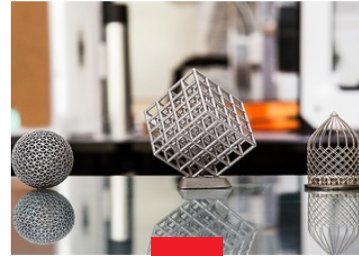
Our 10 scientific DEPARTMENTS



Mathematics



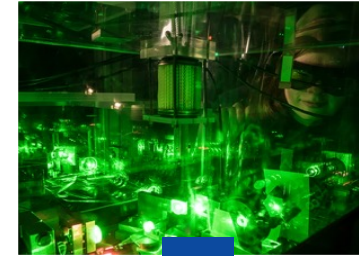
Informatics



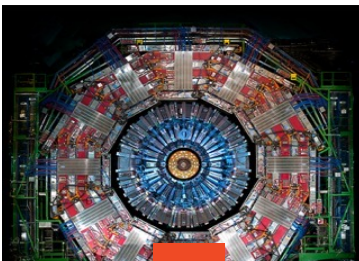
Engineering



Chemistry



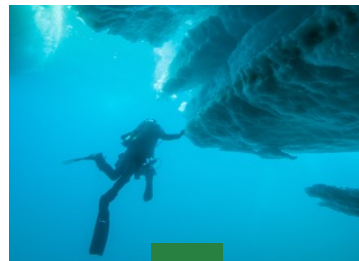
Physics



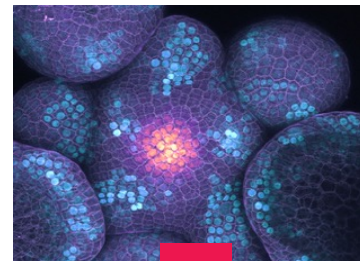
Nuclei & Particles



Earth & Space



**Ecology
& Environment**



Biology



**Humanities &
Social Sciences**



CNRS - French National Centre for Scientific Research

- Interdisciplinary public research organisation
- Internationally recognised for the excellence of its scientific research

Research fields :

- Biology
- Chemistry
- Ecology and environment
- Humanities and social sciences
- Engineering and systems
- Mathematics
- Nuclear and particles
- Physics
- Information sciences
- Earth sciences and astronomy

**3.3
billion**
A budget of

33,000
people dedicated
to research

1,144
research
laboratories in
France and
abroad

CNRS participation in Horizon 2020 (2014-2020)

- Participation in 1728 H2020 projects (~18% success rate) including 507 MSCA projects (all actions incl.)
- **324 MSCA Individual Fellowships funded** (17,3% success rate)

<https://www.cnrs.fr/en>



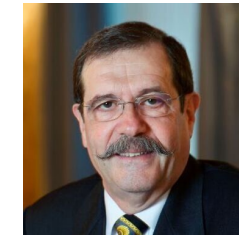
CNRS in Numbers

- **Research**
 - Over 55 000 publications per year, 60 % of which with international collaboration
 - 6th in patent filing
- **Ressources**
 - Budget 2021 : 3,7 Billion €
 - Over 32 000 staff at CNRS

- 12 Fields Medal winners

- 23 Nobel Laureates

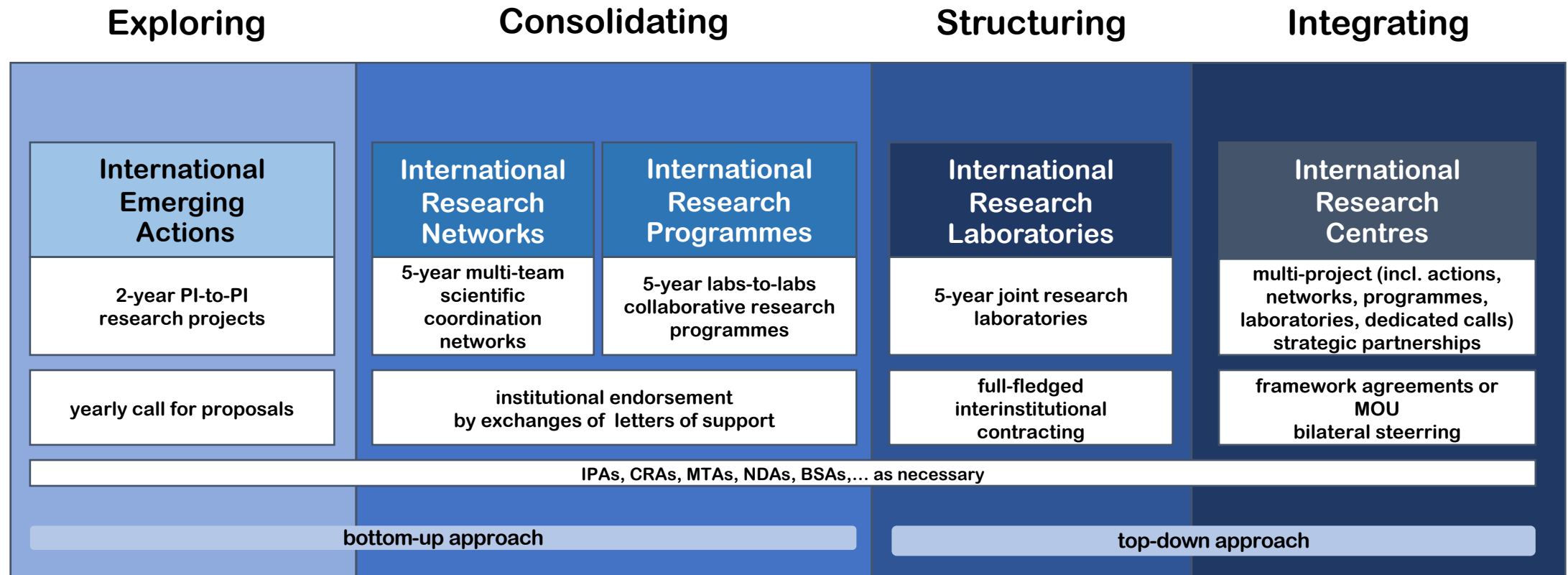
Alain Aspect
Physics 2022



Implantations

- Over 1100 research units
- 80 International Res Labs
- 10 offices all over the world

Tools of cooperation with CNRS



Instruments for International Collaboration



www.cnrs.fr

International Emerging Actions



ORACLe

ENOCH Stefan, Institut Fresnel, Marseille
MONDAL Sameer, CSIR-CSIO, Chandigarh

INP

2021-22

FLUOROCATSIL

MICHON Christophe, Laboratoire d'Innovation Moléculaire et Applications (LIMA), Strasbourg
Vanka Kumar, CSIR-NCL, Pune

INC

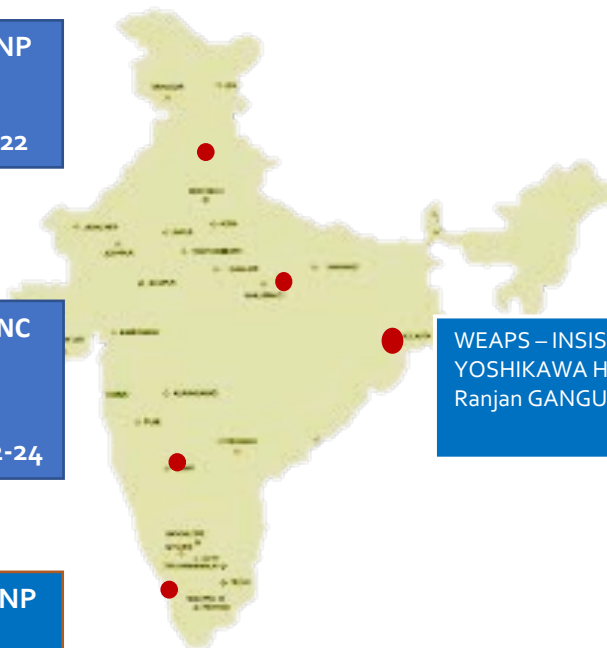
2022-24

GREENMONACO

ANTOINE Rodolphe, Institut Lumière Matière (ILM), Lyon
Sabu THOMAS, Mahatma Gandhi University, Kottayam,

INP

2021-22



WEAPS – INSIS,
YOSHIKAWA Harunori, Institut de physique de Nice (INPHYNI), Nice
Ranjan GANGULY, Jadavpur University, Kolkata

INP

2021-22



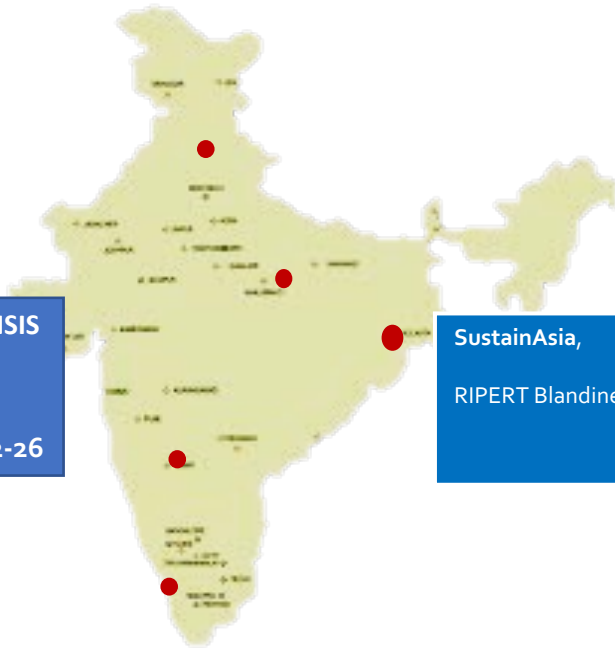
International Research Networks



HYDRO-MMBI
AMIROUDINE Sakirhoussen,
Institut de Mécanique et d'Ingénierie de Bordeaux (I2M)
CHAKRABORTY Suman, IIT Kharagpur

INSIS

2022-26

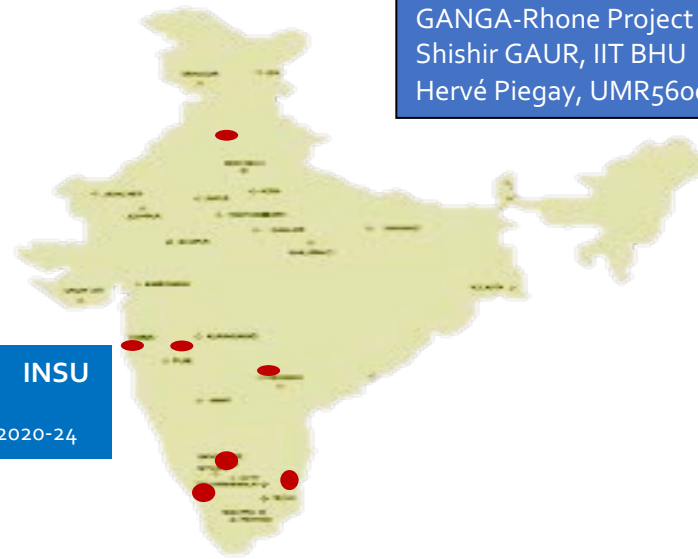


SustainAsia,
RIPERT Blandine (ex LANDY Frédéric), IFP Pondicherry

INSHS

2019-23

International Research Programmes



GANGA-Rhone Project
Shishir GAUR, IIT BHU
Hervé Piegay, UMR5600 EVS, ENS de Lyon

INSU

2021-25

Indo-French Cell for Water Sciences (CEFIRSE)
IRD/INRAe/CNRS (J Riotte/ L Ruiz)
IISc: B'lore (Sekhar Muddu)

INSU

2020-24



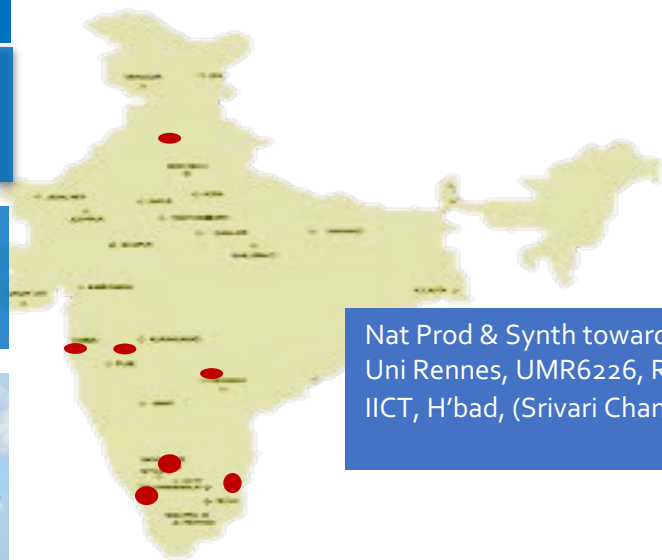
International Research Programmes



Indo-French Lab of Solid State Chemistry (LAFICS) **INC**
ICMCB, UPR9048 (MH Delville, Bordeaux)
IISc – SSCU, B'lore (Satish Patil/Abhishake Mondal)
2022-26

NextGen **INC**
Jean-François LUTZ, Institut Charles Sadron, Strasbourg;
S. Ramakrishnan, Dept Inorg & Phy Chemistry, IISc, Bangalore
2020-2024

APONAMA **INC**
Inst Jean Lamour Nancy (Didier ROUXEL)
International and Inter University Centre for Nanoscience and
Nanotechnology (Sabu THOMAS / Nandu)
2022-26



Nat Prod & Synth towards Affordable Health (NPSAH) **INC**
Uni Rennes, UMR6226, Rennes (J Boustie)
IICT, H'bad, (Srivari Chandra Sekhar /Raji REDDY)
2021-25

International Research Programmes

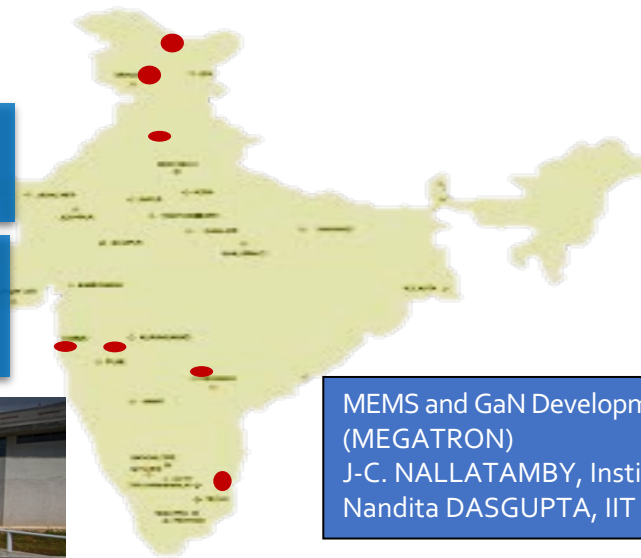


SySTIM
Thomas LECUIT, Institut de Biologie du Développement de Marseille (IBDM)
Jitu MAYOR, National Centre for Biological Sciences (NCBS)
2019-2022

INSB

CALIM
Angela GIANGRANDE, IGBMC, Strasbourg
Gaiti HASAN, National Centre for Biological Sciences (NCBS),
Bangalore
2019-2022

INSB



MEMS and GaN Development ThRough COmplementary CollaboratiON (MEGATRON)
J-C. NALLATAMBY, Institute of Mathematical Sciences, Chennai
Nandita DASGUPTA, IIT Madras
2022-26

INSIS

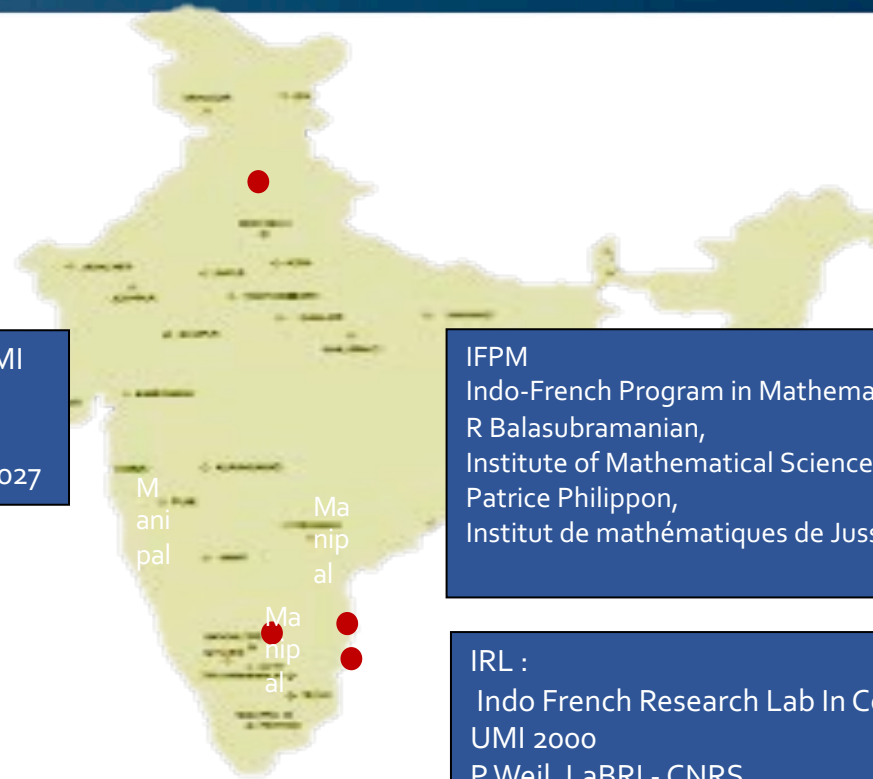
2022-26



International Research Laboratories

cnrs

IRL : Indo-French Centre for Applied Mathematics (FCAM) INSMI
UMI 3494
Jacques Giacomoni, Uni Paul Sabatier, Toulouse
G Rangarajan, IISc, Bangalore, 2023-2027



IFPM INSMI
Indo-French Program in Mathematics
R Balasubramanian,
Institute of Mathematical Sciences, Chennai
Patrice Philippon,
Institut de mathématiques de Jussieu - Paris Rive Gauche

2019-22

IRL : INSMI
Indo French Research Lab In Computer Science (RELAX)
UMI 2000
P Weil, LaBRI - CNRS
M Mukundan, Chennai Mathematical Institute, Siruseri 2022-26

CNRS | DERCI