

DEPARTMENT OF ENGINEERING SCIENCE AND SYSTEMS

International strategy –

Bangalore - 16th, October 2022





CNRS- INSIS Institut des sciences de l'ingénierie et des systèmes

CNRS : a key player in Science and Innovation

INSU INC and the local division of the National Institute Institute of Chemistry for Earth Sciences and Astronomy INS₂I INEE Institute for Computer Sciences and Environment **CNrS** INSIS INP INSIS Institute for Engineering and Systems Sciences Institute of Physics IN2P3 INSMI National Institute of Nuclear and Particle Physics for Mathematical Sciences INSB INSHS Institute of Biological Institute for Humanities Sciences and Social Sciences

10 Scientific Departments covering all fields of research

cnrs

Each CNRS research lab is supervised by at least one scientific department

INSIS Scientific fields and their domains of application



Domains of Application: Transport, Energy & Environment, Health, Construction, Information & Communication, Security/ Safety/ Defense

INSIS scientific governance

A scientific Director :

- 2013-2022 : Jean-Yves MARZIN
- Since February 2022 : Lionel BUCHAILLOT

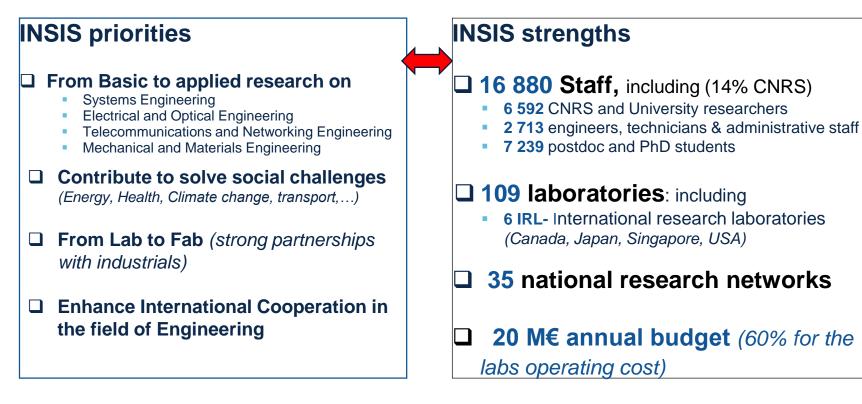
3 deputy scientific directors :

- Mrs Anne-Christine HLADKY : Materials / Structures & Acoustics + Automatics & Robotics + Technologies For Health Bio engineering
- Mrs Maria BERNAL : Photonics, Electrical Engineering, Electronics, Nanotechnologies
- **Mr Fabien GODEFERD :** Fluid & Reactive Media, Engineering Process & Plasma

An international team with :

- Mr Laurent NICOLAS, Deputy scientific director for International & European cooperation
- **Mr Yann DEVAL**, scientific delegate for Europe
- **Mrs Olga ALLARD**, head of the International and European division

INSIS at a glance





International Cooperation Policy at INSIS

Focus on India



Bangalore- October 2022

INSIS international action in few figures

20 M€ Annual budget (without salaries)

1M€ dedicated to international actions including more than 420K€ for the 6 IRL (operating, scientific equipment, investment)

20 to 25 researchers working abroad / year

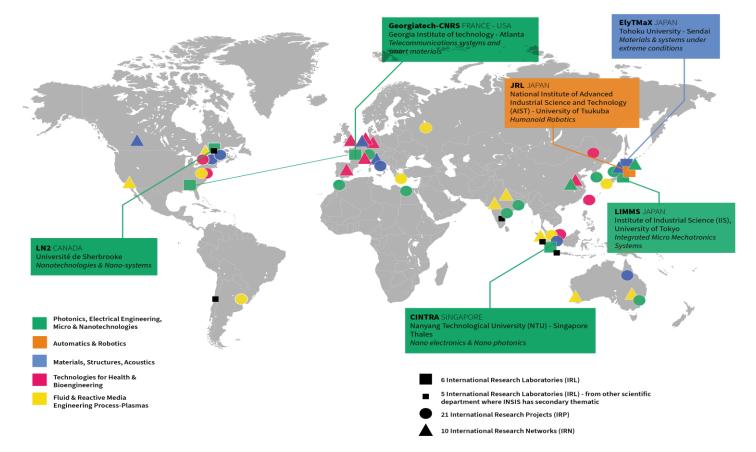
- Strong support for long-stay mobility in IRL, as well as for post-doc & fixed-term contracts.
- Encouraging short stays (from few weeks to few months), before longer ones

INSIS has International cooperation with over 30 countries on all continents





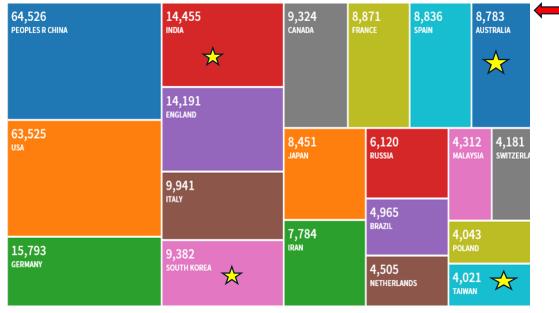
INSIS WORLDWIDE PRESENCE BY SCIENTIFIC DOMAINS



Cooperation & copublication



Top 20 publishing countries in Engineering



Indicators : Web of Science Document Location type : country Shema : Essential Science Indicators/ articles, proceedings, Review Research Area : Engineering Time Period : 2015- 2019

INSIS strategy

Enhance cooperation with identified target countries Australia, India, South Korea and Taiwan.

Actions :

- Incentive to develop cooperation with those countries through CNRS International cooperation tools (IEA, IRN, IRP)
- Planning exploratory missions in those countries to meet specific partners

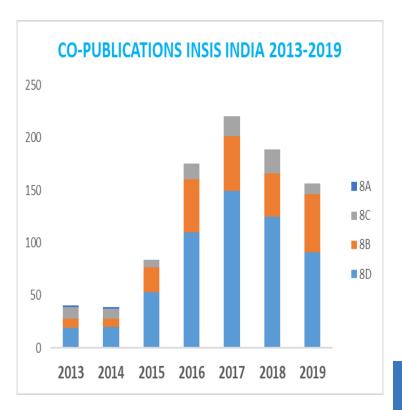


Evolution of cooperation and co-publications with India,

target countries since 2014

Since INSIS incentive to develop cooperation with India we launched numerous actions:

- 2019-2021 : PRC ExoLOC (CNRS / INRIA/ CEFIPRA) with the Indian Institute of Space Science and Te, Thiruvananthapuram
- □ 3 IEA between 2019 and now:
 - IEA HINDI-BIO with the Raman research Institute, Bangalore
 - IEA Oracle with CSIR-CSIO, Chandigarh
 - IEA TopoMeta with the Indian Institute of Science, Bangalore
- 2022 : IRP MEGATRON (MEMS and GaN Development ThRough COmplementary CollaboratioN) with the IIT Chennai
- 2022 : IRN HYDROBIO (Hydrodynamics at small scales: from soft matter to bioengineering) with IITs and IICs of Kharagpur, Khanpur, Mumbay, Bangalore, and a lot more.



INSIS co-publications 2013-2019

Coopérations internationales - Cartographie



- 5 669 USA
- 4 506 China
- 3 577 Germany
- 3 208 Italia
- 3 203 UK
- 2 596 Spain
- 1 897 Tunisia
- 1 878 Canada
- 1 875 Algeria
- 1 860 Belgium

- 1 830 Switzerland
 1 692 Russia
- 1 648 Japan
- 1 467 Netherlands
 - 1 352 Brazil
- 1 168 Sweden
- 1 093 Poland
- 1 016 India
- 994 Australia
- 944 South Korea



2013-2019. Web of Science[™] Core Collection Clarivate Analytics / Web of Science (WoS) : Science Citation Index Expanded (SCI EXPANDED) ; **articles**, Citation Index - Science (CPCI-S)



THANK YOU FOR YOUR ATTENTION AND BEST WISHES OF SUCCESS FOR THIS WORKSHOP!

www.insis.cnrs.fr

https://international.cnrs.fr/

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