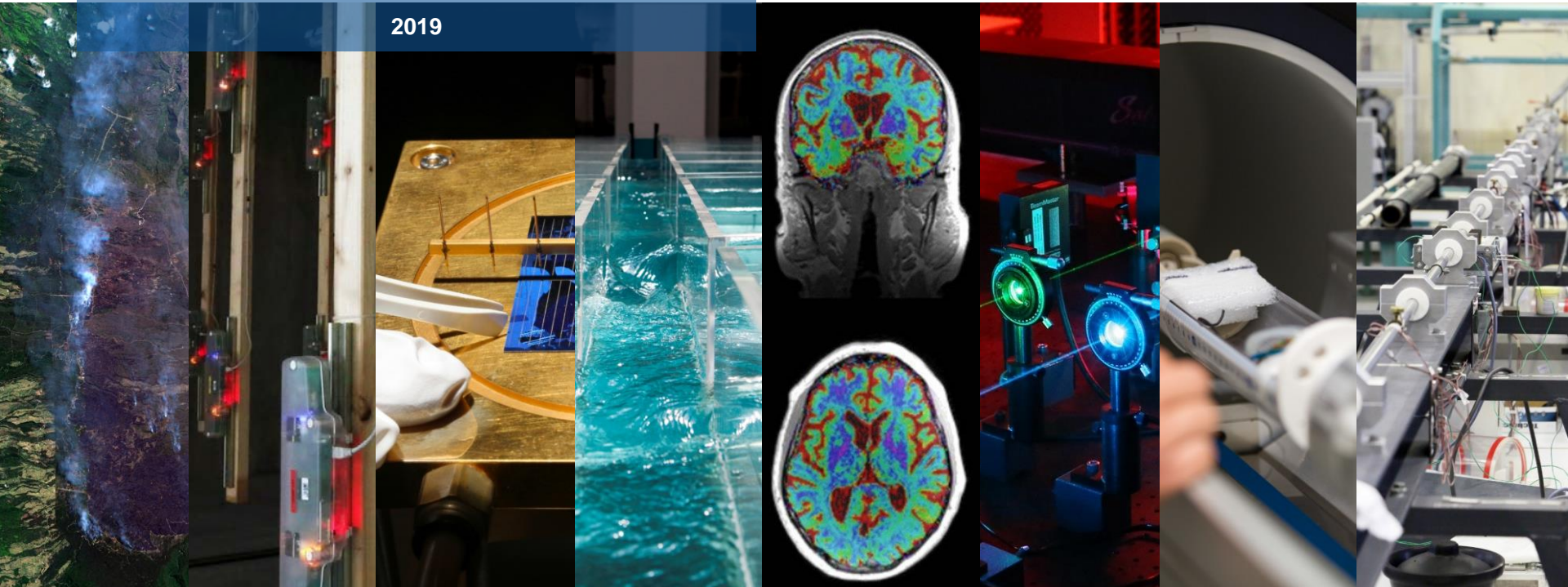


Engineering science, computer science
and imaging laboratory

2019



ICube, a multidisciplinary laboratory

A MAJOR DRIVING FORCE FOR RESEARCH IN STRASBOURG (> 620 PEOPLE)

ICube is since 01/01/2013:

- a research laboratory in the **Engineering, Computing and Imaging** sciences with biomedical **engineering, environment and sustainable development** as privileged sectors.

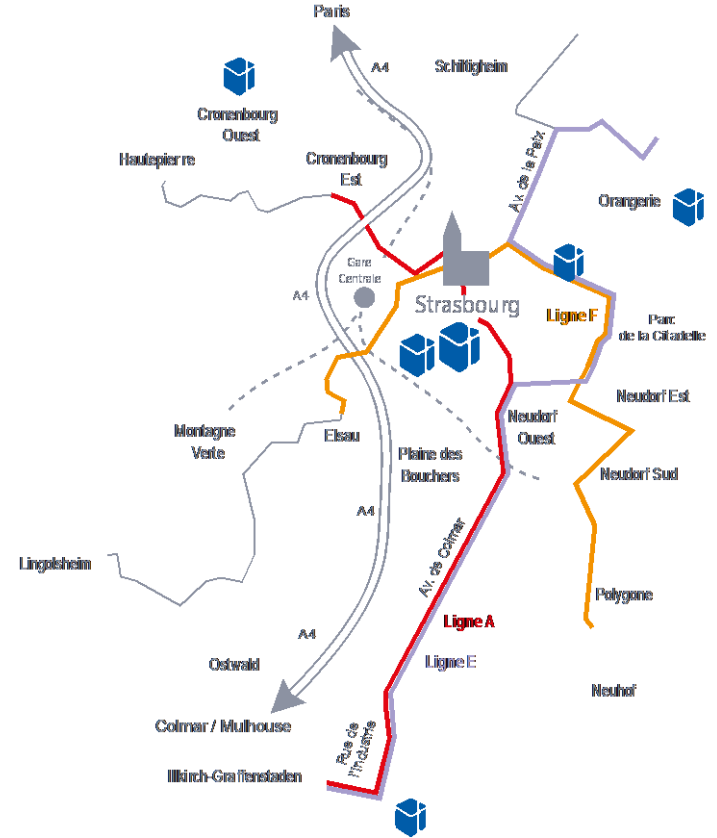
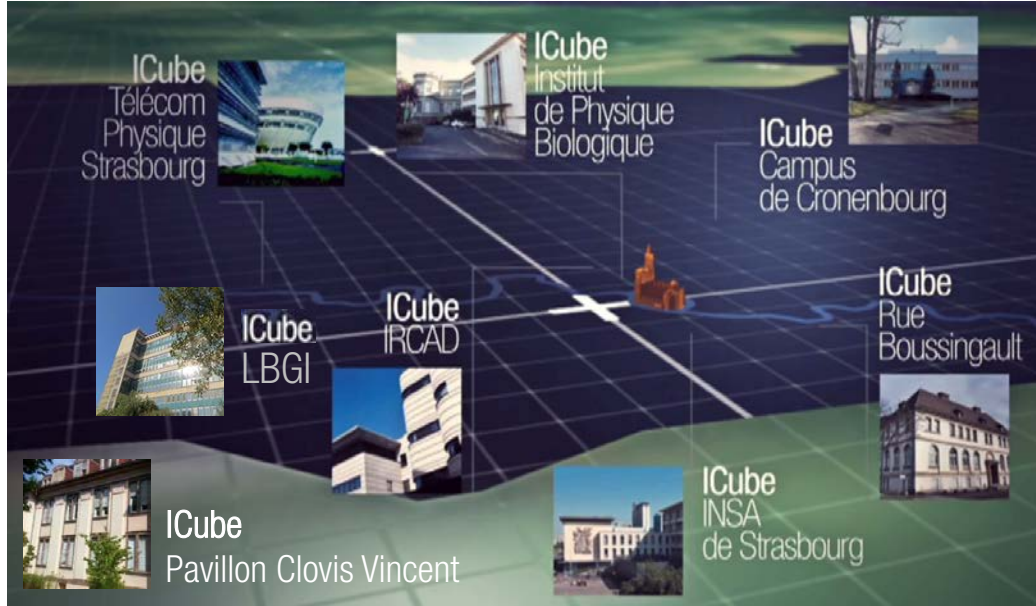


- a joint research unit (UMR7357) of **university of Strasbourg, CNRS, ENGEES and INSA Strasbourg.**



ICube, a multi-site lab

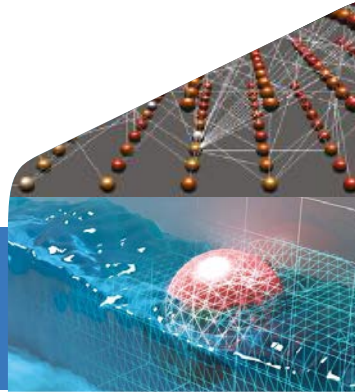
8 SITES



4 departments

16 RESEARCH TEAMS

Computer Science
department
(D-IR)



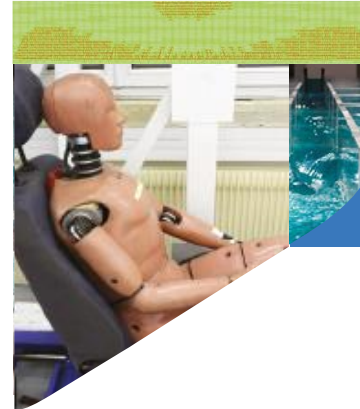
Solid-state Electronics, Systems
and Photonics department
(D-ESSP)

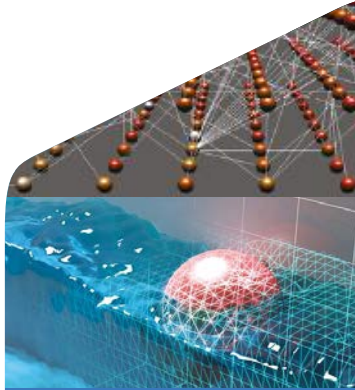


Imaging, robotics, Remote
Sensing and Biomedical department
(D-IRTS)



Department of
Mechanics
(D-M)



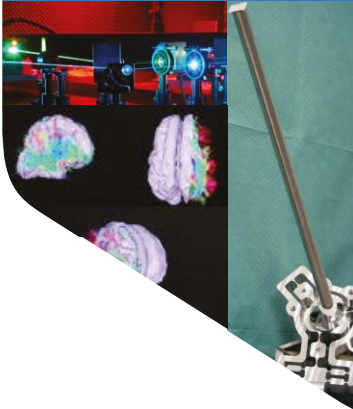


IR department

Teams:

- Geometry and Computer Graphics (**IGG**)
- Networks (**Réseaux**)
- Scientific and Parallel Computing (**ICPS**)
- Data Science and Knowledge (**SDC**)
- Complex Systems and Translational Bioinformatics (**CSTB**)
- Images, leArning, Geometry and Statistic (**IMAGeS**)
- in IT

IRTS department



Teams:

- Images, leArning, Geometry and Statistic (**IMAGeS**)
- *in treating signals and images*
- Control, Vision and Robotics (**AVR**)
- Remote Sensing, Radiometry and Optical Imaging (**TRIO**)
- Integrative Multimodal Imaging in Healthcare (**IMIS**)



ESSP department

Teams:

- Materials for Photovoltaic and Electronic Devices (**MaCEPV**)
- Heterogeneous Systems and Microsystems (**SMH**)
- Photonics Instrumentation and Processes (**IPP**)

M department



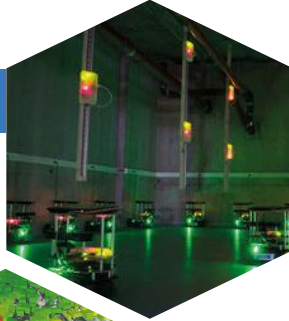
Teams:

- Fluid Mechanics (**Mécaflu**)
- Multiscale Materials and Biomechanics (**MMB**)
- Civil Engineering and Energetics (**GCE**)
- Design Information Systems Inventive Processes (**CSIP**)

6 hardware and software platforms

INeTLab

Internet Network
Technologies Lab



MechaniCS

Mechanics of Fluids and Materials,
Biomechanics, conception and simulation



SERTIT

Regional Image processing and
remote sensing service



IRIS

Innovative imaging of
health platform



BICS

Bio-statistics, Informatics and
complex systems

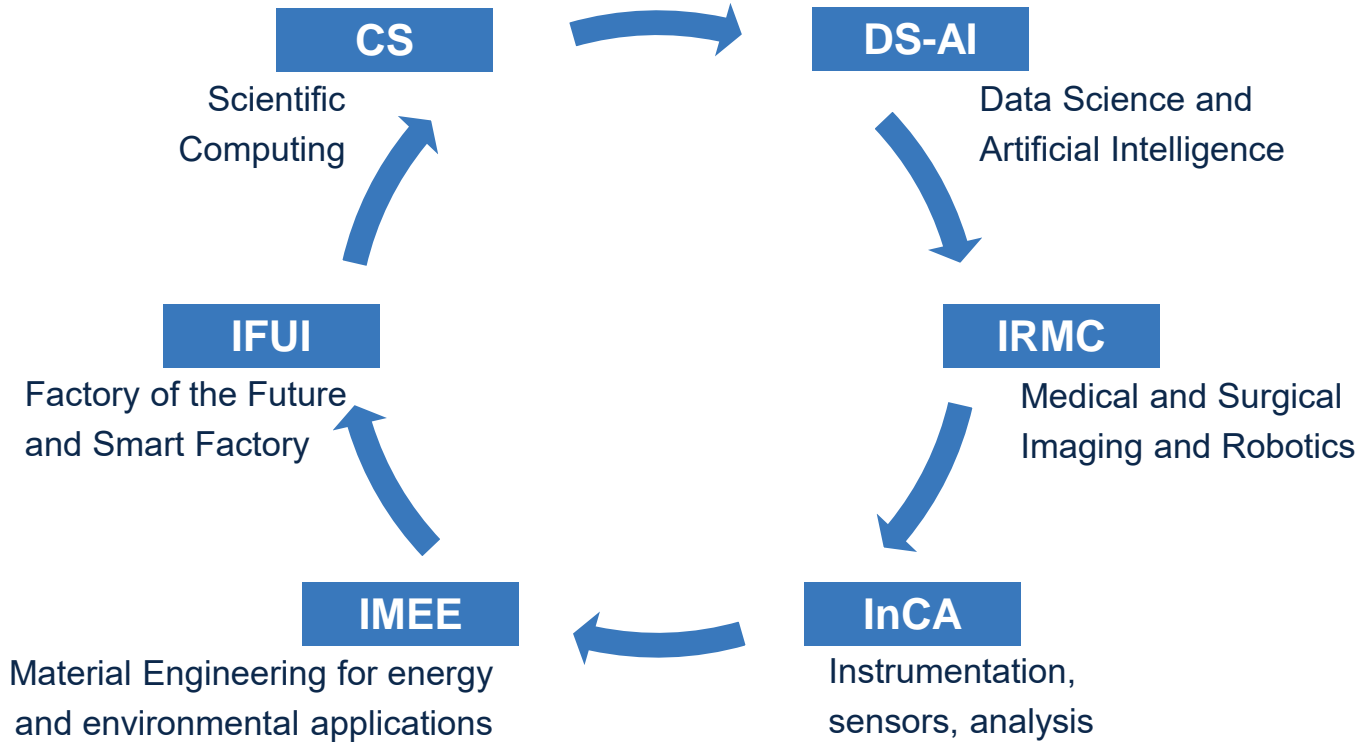


C³Fab

Development and characterisation of
materials for photovoltaics



6 transversal research programs



Staff

616

Staff members as of July 1, 2019

376

Permanents and
associate members

- **83 full professors or equivalent** including 16 hospital practitioners and 3 emeritus
- **170 assistant professor or equivalent** including 11 hospital practitioners
- **13 research directors** including 2 emeritus
- **25 researchers** including 7 hospital practitioners
- **81 engineers, assistant technicians and technicians or equivalent**

240

Non-permanents
members

- **178 PhD students**
- **32 non permanent or senior researchers including 29 postdoctoral students**
- **30 staff members with limited-term appointments**

Each year more than **120 stagiaires de longue durée**.

Partnerships

ICube :

- is involved in **competitiveness clusters**:



- is a **member of / participe**



Fédération de Recherche Matériaux et Nanosciences d'Alsace

Réseau nanophotonique et optique de Strasbourg

- hosts 2 *Inria* project teams: **CAMUS / MIMESIS**

- is in close collaboration on Strasbourg with :



Partnerships and collaborations

+ 100

National industrial partners

65

International industrial partners

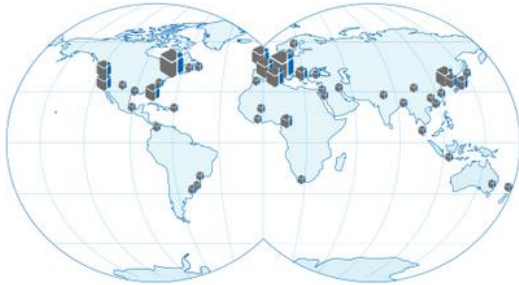
150

Laboratories

270

Active international collaborations
in the last 5 years including

219 with co-publications



4

Startups



Created in 2014

Fluid mechanics - 3D modelling of the hydraulic structures



Created in 2011

Robotics, mechatronics, real-time



Created in 2010

Hydraulic, physical measurement - Water treatment



Created in 2009 – Acquisition by **Atlassian** in 2015
ICT-networks and communications, Internet

ICube and the scientific excellence

"INVESTING FOR THE FUTURE"



ICube :

- hosts **2 platforms of excellence** (Equipex)



- is a partner of  , an Equipex on scientific computing



- belongs to **2 Institutes of Excellence IPVF** Institut Photovoltaïque d'Île-de-France for carbon-free energies (IEED) in the field of solar energy



- is a member of **3 laboratories of excellence** (Labex)



- is the main scientific partner of the



- animates the *Interventional Imaging* workpackage of the



national infrastructure

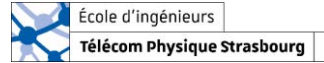
ICube and the teaching

RESEARCHERS DEDICATED TO TEACHING



ICube is the main research laboratory:

- of 4 engineering schools in Strasbourg



- for the teaching staff in **Computer Science, Engineering Science and Biophysics**



- which supports the **Masters** : Computer science (UFR Mathématique-Informatique)
Imaging, Robotics and Biomedical engineering (Télécom Physique Strasbourg)
Engineering science (UFR Physique et Ingénierie)

ICube provides training through research projects for more than **100 trainees and PhD students every year**.