



# Cortexlab inauguration

*François Sillion*

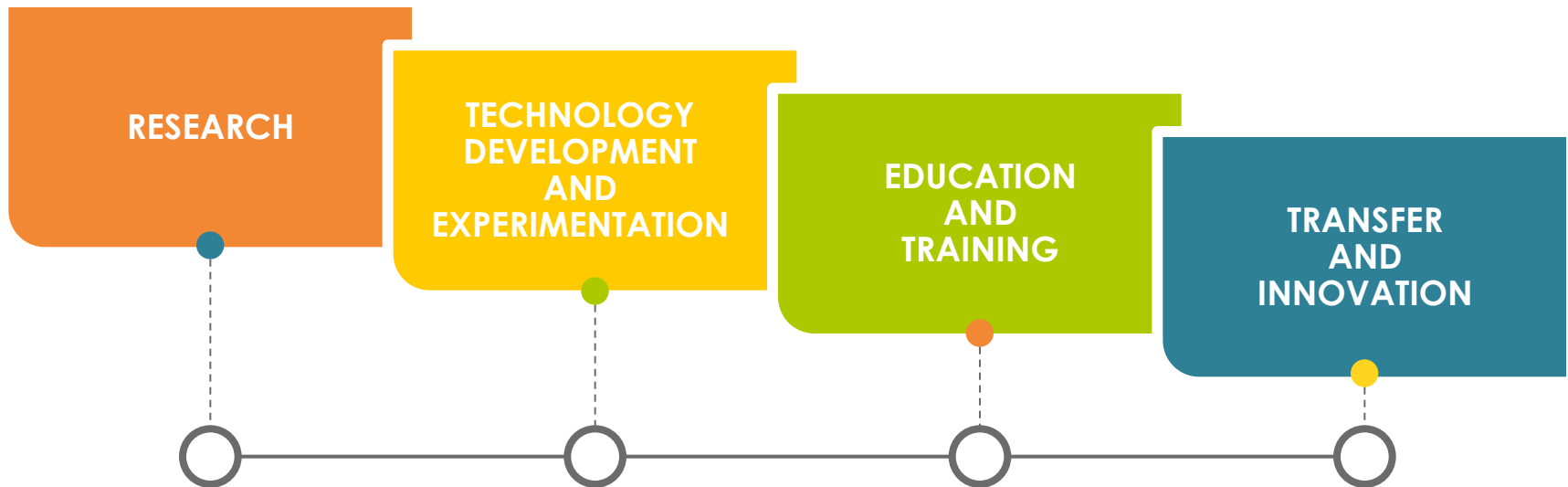
General Director for Science

Director, Grenoble Rhône-Alpes research center

# 1

WHAT IS INRIA AND AN INRIA RESEARCH CENTRE ?

# 1 The French Institute for Research in Digital science and technologies



A scientific and technological public institution under the dual authority of the Ministry of Research and the Ministry of Industry

# Inria's Research Centres



**Inria PARIS - Rocquencourt**



**Inria LILLE**  
Nord Europe



**Inria NANCY**  
Grand Est



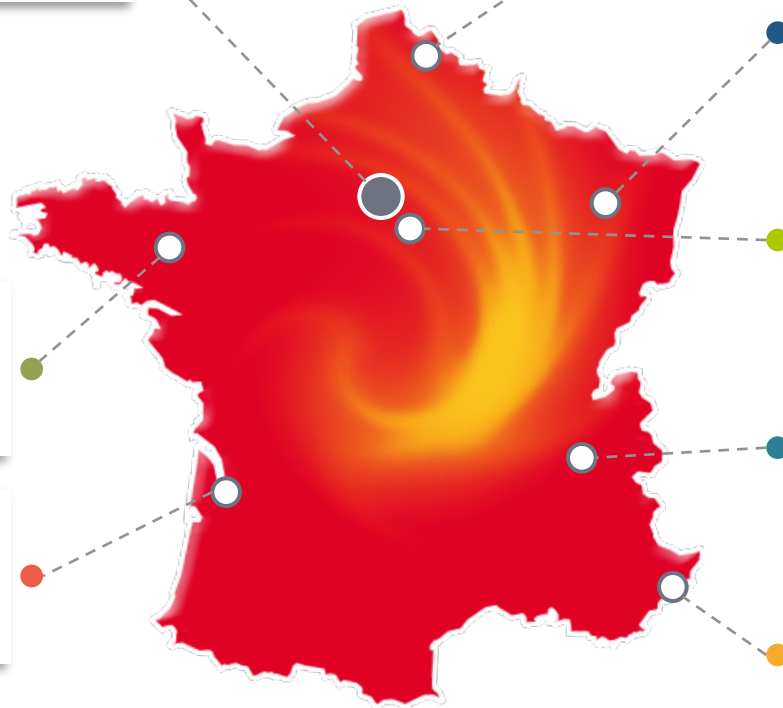
**Inria SACLAY**  
Ile-de-France



**Inria GRENOBLE**  
Rhône-Alpes



**Inria SOPHIA ANTIPOLIS**  
Méditerranée



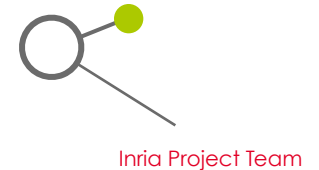
**Inria RENNES**  
Bretagne  
Atlantique



**Inria BORDEAUX**  
Sud-Ouest



# Inria Project-Team



- 10 to 30 people working under a **scientific leader supervision**
- Focused scientific theme and international evaluation
- A **limited** lifespan : average 8 years, maximum 12 years
- Well-defined **objectives and work program**
- Linked to and cooperating with **industrial and scientific partners** in France and around the world
- A priori and a posteriori **evaluation**



181

Inria Project-  
Teams in 2012

62

Associated  
teams with  
foreign univ.

An organization that  
**complements** the universities

# 2

INRIA'S STRATEGY : SCIENTIFIC EXCELLENCE AIMED AT  
TECHNOLOGY TRANSFER AND SOCIETY

## 2 Key strategic elements for Inria

### → Focused scientific research

- Strategic plan (4 years) defines priorities for core disciplines as well as interfaces with society (ex: medicine)
- Establish project-teams that can « make a difference », in connection with local partners
- Support international cooperations (Europe, « international labs »)

### → Promote cooperation and transfer with industry

- Large companies (« joint labs »), as well as SMEs (« innovation labs »)
- Startups
- Collaborative projects

### → Provide experimentation platforms and support technology dev.

- Beyond a single project-team
- Long term support
- Open to partners (research and industry)

# 3

Why support the CORTEXlab platform?



## 3 Experimentation platforms at Inria Rhône-Alpes

### → A dedicated « Experimentation and Development » department

- 8 permanent staff engineers
- Support for the definition and operation of development projects
  - Helps implementing a local strategy
- Mentoring of young and short-term development staff
- Training and best practices dissemination

### → Strong policy since 1992, with platforms for

- Robotics
- Grid computing
- Sensor networks and Internet of things
- Virtual reality and augmented reality testbeds
- Smart homes

## 4 Cortexlab as seen by Inria

- **A unique tool for cognitive radio**
  - Prototypical example of an infrastructure that will benefit many project-teams, from core software-defined radio to service deployment
  - Fully consistent with the CITI lab project, encompassing low-level control of electronics as well as software systems for delivering mobile services
  - Now it is up to the community to use the platform to its full potential!
- **An open testbed that should promote external interactions**
  - **With other academic users** (ex: smart cities?)
  - **With industry** : the ambitious goal of cortexlab can only be reached with strong industrial partnerships. Conversely, industry should realize the benefits of close collaboration with forefront research (including in large structuring projects such as Europe's 5G PPP).

Thank you !

*Inria*  
INVENTEURS DU MONDE NUMÉRIQUE

Grenoble

[www.inria.fr/grenoble](http://www.inria.fr/grenoble)