Welcome to Inria Sophia Antipolis – Méditerranée research centre
Science at Inria

MODELS AND SIMULATION

HIGH-PERFORMANCE COMPUTING, CLOUD

NETWORKS AND CONNECTED OBJECTS

SAFETY, RELIABILITY

ROBOTICS

PROGRAMMING

INTERACTIONS, INTERFACES AND USAGE

DATA PROCESSING
Socio-economic areas of application

- Health & Well-being
- Energy & Sustainable Development
- Smart Transport & Smart Cities
- Factories of the Future & Robotics
Inria, it's all about people

4,400 staff

2600 Inria
1750 scientists
850 support

1800 Partners
1700 scientists
100 support
The Inria project team

• 20 to 30 people led by a respected **scientist**
• A specific research theme
• An **international evaluation** upon creation and every four years
• An **average lifetime** of eight years, with a maximum of 12
• Well-defined **objectives** and a **shared or joint work programme**
• Working in contact and collaboration with **industrial and scientific partners** in France and throughout the world
• Financially and scientifically independent
• A strong focus on transfer and impact

183
Inria project teams in 2017

152
in collaboration

AN ORGANISATION TO COMPLEMENT THAT OF UNIVERSITIES AND THE CNRS
Budget 2016

**INITIAL BUDGET**

€ 231 M

**PUBLIC SERVICE GRANTS**

€ 168 M

**OWN RESOURCES**

€ 63 M

- **European Union**
- **ANR excluding PIA**
- **PIA**
- **French public contracts excluding ANR and PIA**
- **Private contracts**
- **Intellectual property, product sales and provision of services**
- **Other resources**
Exceptional researchers

Serge Abiteboul
Nicholas Ayache
François Baccelli
Alain Bensoussan
Gérard Berry
Olivier Faugeras
Philippe Flajolet (deceased)
Gérard Huet
Gilles Kahn (deceased)

50 ERC grant holders since 2007
Joint laboratories
Some recent start-ups

- **HiKoB**: Wireless and mobile acquisition systems, live capture of performance indicators
- **InSimo**: Bio-medical simulation
- **Therapixel**: Operating theatre contact-free interfaces
- **MENsia Technologies**: Brain and neurophysiological interfaces
- **galaem**: Video synthesis of crowds for cinema
Some great software …

140 software programs filed per year

SOFA

CAML

COQ

GATB

CGAL

apisense

MUMPS

NATRON

RIOT

SAMSON

… and a world-class initiative

Software Heritage

A global archive of software—
+ 3 billion files already archived
Inria in the world

90 associate teams in 2016

Canada
USA
Brésil
Tunisie
Sénégal
Maroc
Europe
Mexique
Inde
Hong-Kong
Taïwan
Japon
Europe
Australie
Argentine
Mexique
Chili
Brésil
Argentina

40
5
1
1
6
11
2
1
5
2
4
4
Inria and Europe

Scientific excellence  Focus on industry  Social challenges

European Research Council

50 ERC grant holders have chosen Inria as their host institution

Inria is taking part in two KICs (Knowledge and Innovation Communities) within the EIT

- THEME: Information and communication science and technology  *(since 2011)*
- THEME: Health and healthy ageing  *(since 2015)*

ERC grant holders  have chosen Inria as their host institution

European Institute of Innovation & Technology

 ERC  +  eit

Horizon 2020
Learning how to program to the French National Assembly
Inria Sophia Antipolis – Méditerranée, a major player in the field of digital sciences and technologies, deliberately oriented towards the European research area.
Milestones

1983 - Creation Inria Sophia Antipolis Centre in Sophia Antipolis scientific park

1988 - First TCP/IP connection Europe – US
- Operator of the first regional research computer network

1994 - Creation of the W3C Europe office and host of the European group ERCIM

2003 - First Inria project-team in Montpellier

2010 - First Inria project-team with an European university (Bologna-Italy)
- KIC EIT ICT labs creation

2012 - Opening of the SophiaTech Campus

2015 - Creation of Université Cote d’Azur (Inria founder)

2016 - IDEX UCA JEDI et 2nd Inria project-team with European university (Athens-Greece)

2017 - I-Site MUSE (Montpellier); UCA-Inria Data Science Chair; host of IRT St Exupery

2018 - Inriatech Paca
33 research teams  5 main topics

1. Applied Mathematics, Computation and Simulation (6 teams)
   • ACUMES, ECUADOR, FACTAS, McTAO, NACHOS, TOSCA

2. Algorithmic, Programming, Software and Architecture (4 teams)
   • AROMATH, DATASHAPE, KAIROS, MARELLE

3. Networks, Systems and Services, Distributed Computing (5 teams)
   • COATI, DIANA, FOCUS, INDES, NEO

4. Perception, Cognition, Interaction (7 teams)
   • GRAPHDECO, GRAPHIK, HEPHAÎSTOS, STARS, TITANE, WIMMICS, ZENITH

5. Computational Sciences for Biology, Medicine and Environment (11 teams)
   • ABS, ATHENA, BIOCORE, BIOVISION, CAMIN, CASTOR, COFFEE, EPIONE, LEMON, MATHNEURO, MORPHEME
Key figures (2017)

- **497** people: **362** scientists, (researchers/PhD/post-doc/permanent researchers)
  **70** engineers R&D and staff support;
  **313** employees

- **3** sites: Sophia Antipolis, Montpellier, Bologna; **29,5 M€** budget 2017

- **33** research teams - 18 teams in partnership with CNRS, INRA, universities & engineering schools => **28** concerned with UCAJedi

- **5** domains:
  1. Applied Mathematics, Computation and Simulation (6 teams)
  2. Algorithmic, Programming, Software and Architecture (4 teams)
  3. Networks, Systems and Services, Distributed Computing (5 teams)
  4. Perception, Cognition, Interaction (7 teams)
  5. Computational Sciences for Biology, Medicine & Environment (11 teams)

- **38** PhD defended in 2017
- **10** ERC since 2007
- **13** start-up since 2000
- **13** MOOC (Python, Web sémantique, Linked Data, cryptography, smart cities etc)
Regional ecosystems

Academic partners
- Université Côte d'Azur
- CNRS
- University of Paris Main Campus (UPMC)
- INRA Science & Impact
- National and Kapodistrian University of Athens
- Campus Sophia Tech
- LA RÉGION OCCITANIE Pyrénées-Méditerranée
- Provence-Alpes-Côte d'Azur

Local authorities
- Région
- Département des Alpes-Maritimes
- Communauté d'Agglomération Sophia Antipolis
- SOPHIA Club Entreprises
- SOPHIA SATT Sud Est
- EDUCAZUR
- CCI Nice Côte d'Azur
- bpiFrance
- Incubateur Paca-Est
- Telecom Valley

Scientific culture
- CIV
- CIV Côte d'Azur
- Centre International de Valbonne
- SATELLEIT
- PERSAN
- EuroBiomed
- Blocuster Méditerranée

Competitiveness clusters
- Solutions Sécurisées Pôle de Compétitivité Nordale
- Pole Mer Paca
- SAFE CLUSTER by Regate & Remontes
- GARCONS

Acteurs socio-économiques
- Arcsis
- Optitec
Industrial partners
• **Euro-mediterranean relations (outside Greece)**

- **Italy**: Joint research project team with Univ. of Bologna (Focus) (Davide Sangiorgi)
- **6th edition of the Mediterranean Students Days (Meddays 2018)**:
  - Goal: to welcome and present to some selected students, our research activities with a focus on our international masters.
  - Around 35 students in total from: Greece, Italy, Spain, Algeria, Morocco, Tunisia, Lebanon, Egypt and Turkey [http://leat.unice.fr/MEDDAYS2018/#page=home](http://leat.unice.fr/MEDDAYS2018/#page=home)
- **Tunisia**: Visit of a delegation led by the managing director to meet our main partners: Enit Lamsin, Ensi, Sup’Com (March 2010). Strong participation within the framework STIC Tunisia. Many co-publications since 2003. **Challenge MED IN Sup’Com** Tunis. (July 2011)
  - From 2013: Associated partner for **Alyssa Erasmus**
- **Algeria**: 1st Algerian-French University/Research Conference. (October 2010). 1 Project STIC Algeria in 2011 and 2012. (project within the framework STIC-Algerie (Prof. D. Cherifi and L. Boumghar from USTHB, Alger). 4 teams involved with some Algerians partners.
- **Morocco**: Collaboration with the University of Marrakech, Institut National des Postes et Télécommunications Rabat, 1 permanent researcher in Opale.
- Since 2005, strong involvement within the framework **EuroMéditerranée 3+3 (Leader)** and International Laboratory for Research in Computer Science and Applied Mathematics (LIRIMA), created in 2009.
- Pilote of the **CoAdvise project** (FP7 « People » programme): funding euromed. PhD theses
FOCUS ON GREECE:

- **Cooperation Agreement** signed with the National and Kapodistrian University of Athens, Greece. (September 2010) – Ioannis Emiris
  
  - [http://www-sop.inria.fr/websites/rei/grece/index.html](http://www-sop.inria.fr/websites/rei/grece/index.html)

- 2013-2015: 2 Grants from the French Embassy VRIKA Programm each year – co-financed by the French Greek embassy and Inria SAM.

- 2013-2014: 3 « Bilateral cooperation » grants co-financed by NKU and Inria SAM. The Goal is to foster research collaboration and the preparation of joint participation in proposals of European research projects. (One ITN - MsC Grant in proposal between two teams for H2020).
  
  - In process for a renewal for 2015

- **Courses**

- Participation with some greeks and some other european partners to an Erasmus proposition.
International relationships

• International:
  • 18 associated teams funded by Inria. Mostly with USA universities (Stanford and Berkeley), but also with Chile, Canada and Asia.

  • Teams of the centre are involved in: Inria-CNRS-FAPs cooperation in Brazil, STIC AmSud, Math AmSud, STIC Asia programmes, Inria@SiliconValley, Poncelet France-Russia joint laboratory, LIAMA (joint laboratory with Chinese Academy of Sciences).

  • Among 15 researchers and post-doc involved in the Communication and information Research and Innovation Center (CIRIC) in Chile, joint Center (Inria, Universities of Chile)

  • Since 2006, about 1000 foreign researchers have been welcomed in the research teams.
Thanks !

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