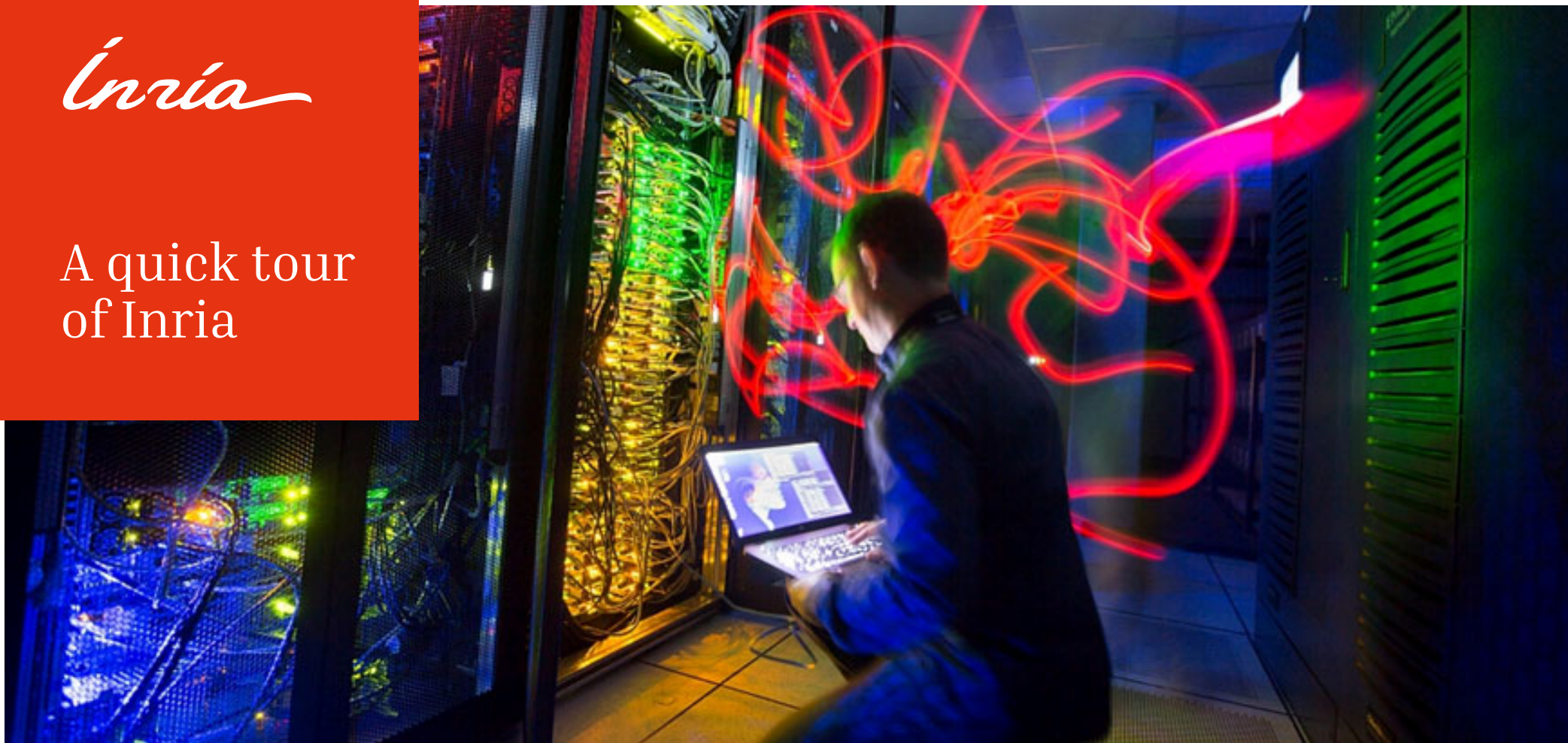


*Inria*

A quick tour  
of Inria



© Inria / Photo C. Morel

*Inria*

# Scientific excellence

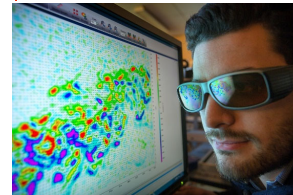
## ALGORITHMS & PROGRAMMING



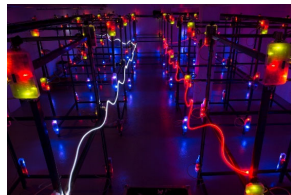
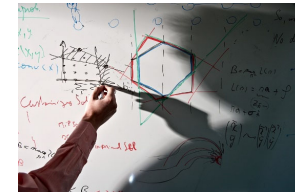
## DATA SCIENCE & KNOWLEDGE ENGINEERING



## MODELING & SIMULATION



## OPTIMIZATION & CONTROL



## ARCHITECTURE, SYSTEMS & NETWORKS



## SECURITY & PRIVACY



## INTERACTION & MULTIMEDIA



## ARTIFICIAL INTELLIGENCE & AUTONOMOUS SYSTEMS

# Socio-economic impact



HEALTH



ENERGY



SECURITY &  
RÉSILIENCE



ENVIRONMENT



CLIMATE



TRANSPORTATION



CULTURE &  
ENTERTAINMENT



ÉCONOMY

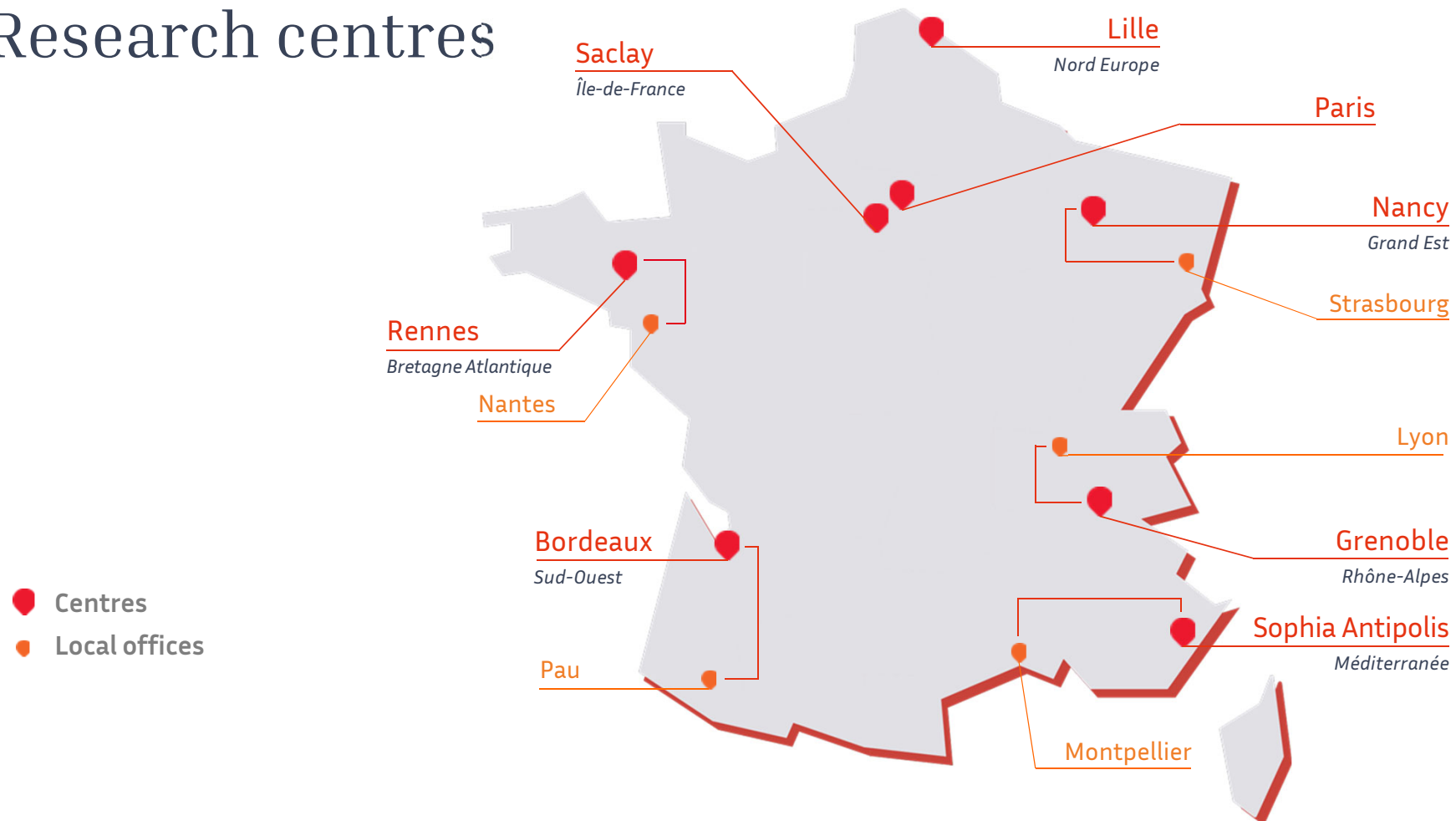


FINANCE



FOOD &  
AGRICULTURE

# Research centres



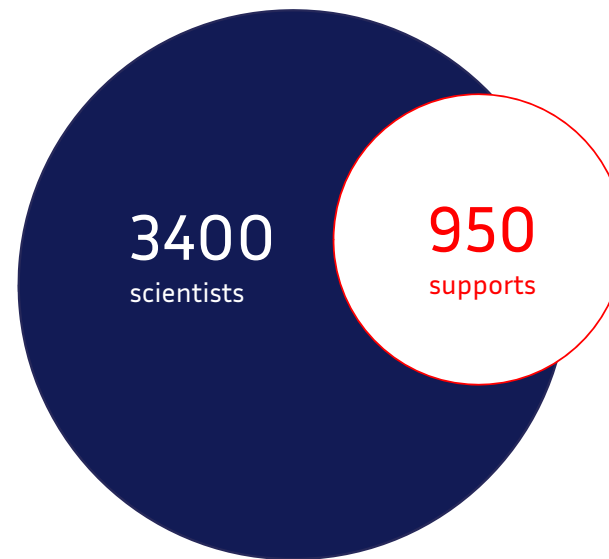
# Inria, people above all

4350 collaborators



Inria 2500

Partners 1850



# Inria project-team

- 10 to 30 people, under the direction of a scientific leader
- A precise research theme
- Financial and scientific autonomy
- An international evaluation at creation and every 4 years
- A maximum duration of 12 years
- In connection and collaboration with industrial and scientific partners in France and around the world

200

INRIA PROJECT-  
TEAMS IN 2018

80% IN

COLLABORATION

AN ADDITIONAL ORGANIZATION TO THAT  
OF UNIVERSITIES AND CNRS



# Budget 2018

## INITIAL BUDGET

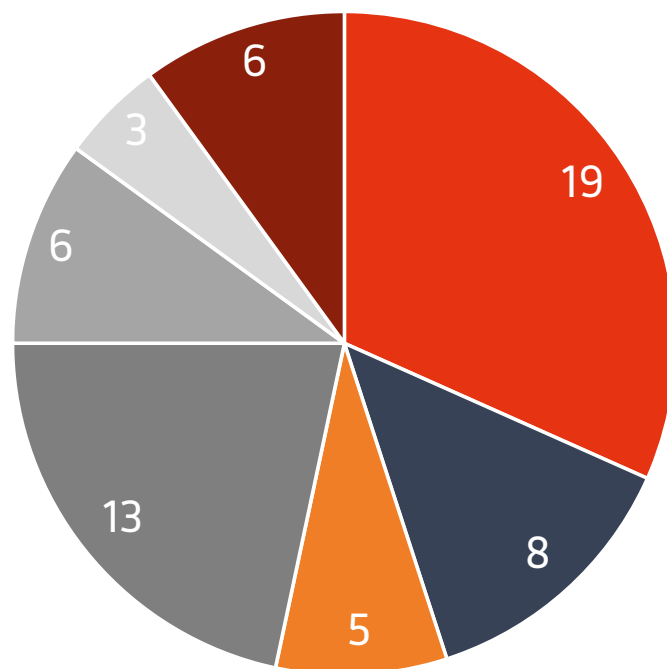
236 M€

## GRANT FOR PUBLIC SERVICE CHARGES

174 M€

## OWN RESOURCES

62 M€



- European Union
- ANR outsides PIA
- PIA
- French public contracts (excluding ANR et PIA)
- Private contracts
- Intellectual property, sale of products and services
- Other resources

# Outstanding researchers

56 ERC grants since 2007



Karthik  
Bhargavan



Rachid  
Deriche



Marie  
Domic



Stanley  
Durrleman



Christine  
Guillemot



Laura  
Grigori



Cătălin  
Hritcu



Anne-Marie  
Kermarrec



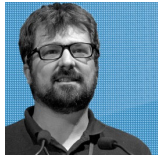
Fabien  
Lotte



Wendy  
Mackay



Xavier  
Pennec



Jean-Baptiste  
Mouret



Maria Naya-  
Plasencia



Jan  
Ramon



Cordelia  
Schmid



Médailles  
du CNRS



Institut de France Académie des sciences



François  
Baccelli



Alain  
Bensoussan



Serge  
Abiteboul



Jacques-Louis  
Lions  
(deceased)



Benoit  
Perthame



Philippe Flajolet  
(deceased)



Gérard  
Huet



Gilles Kahn  
(deceased)



Roland  
Glowinski



Nicholas  
Ayache



Gérard  
Berry



Olivier  
Faugeras



Olivier  
Pironneau



Association for  
Computing Machinery



# Transfer devices at Inria

TECHNOLOGY  
TRANSFER  
AND SKILLS

Joint laboratories

Technology transfer

R&D partnerships

Transfer of expertise/know-how

CREATION OF  
START-UPS

By providing structural assistance

By facilitating funding aids

By working in partnership and network

**More than 160**  
start-ups created  
**75%** of which are in  
operation or acquired



Inria coordinates and develops links  
between public research and start-ups  
within French Tech Central

# Industrial partnerships



# Partnerships with SMEs



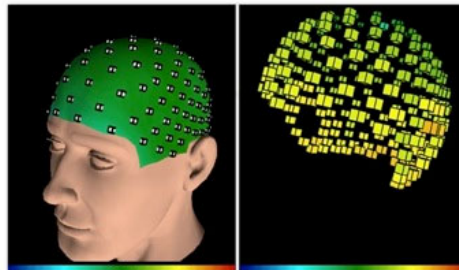
*Toutirobo aims to create farm management modules and vehicles for autonomous guidance, navigation and planning and interaction devices adapted to the constraints of farmers' jobs.*



*Lab Voice Technologie is a laboratory specialized in speech and sound processing, and pays particular attention to source separation, foreign language learning and audiovisual speech synthesis.*



*CertiVibe facilitates the development of medical devices based on OpenViBE, Inria's flagship software that provides daily support in the medical field.*



**EduMICS**

*EduMics develops new solutions in ontology engineering and semantic web models and techniques to gain a competitive advantage in the e-learning market.*

# Our start-ups

160 renown start-ups, some acquired by market leaders

R E G A I N D

Apple

**kelkoo**

Yahoo



IBM



Sun Microsystems



Business Objects



Ansys



EADS



Autodesk



The Mathworks



Gemalto



Dassault Systèmes



Tagmaster

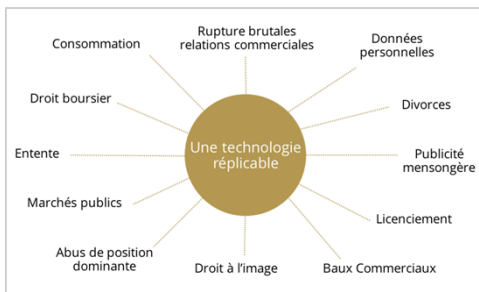
# Some recent start-ups



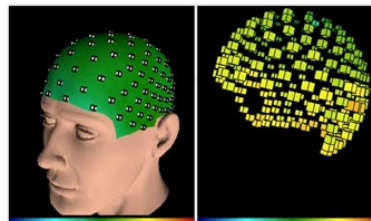
*Open Agora provides tools to enable companies and local authorities to organise consultations based on votes.*



*Artificial Intelligence serving the quantification of the legal risk*



*Brain interfaces and neurophysiology*



*Ullō is developing new therapeutic approaches for the care of cognitive disorders...*



*Data protection by cryptography*

# Some great software

140 software packages per year



CAML



COQ

GATB



MUMPS



NATRON



RIOT

SAMSON



# Inria international Labs



# Inria in the world

93 associated teams active in 2019



# Inria and the European Research Area



Scientific  
excellence

Industrial  
leadership

Societal  
challenges

More of 120 projects  
H2020



European Research Council

**56** **ERC** **successful researchers** have chosen  
Inria as a host institution since 2007

**1<sup>st</sup>** in terms of the **number of ERC grants**  
**awarded** for the PE6 panel  
(*Computer Science and Informatics*)



(European Institute of  
Innovation & Technology)

In the EIT, Inria participates in 2  
KICs (Knowledge and Innovation  
Communities):



THEME: Information and  
Communication Sciences and  
Technologies (*since 2011*)



THEME: Wellbeing and healthy aging  
(*since 2015*)

# Digital culture & teaching

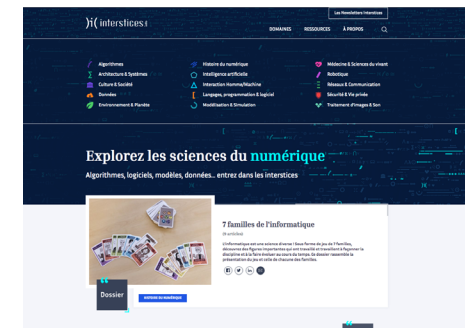
Cité des sciences  
et de l'industrie



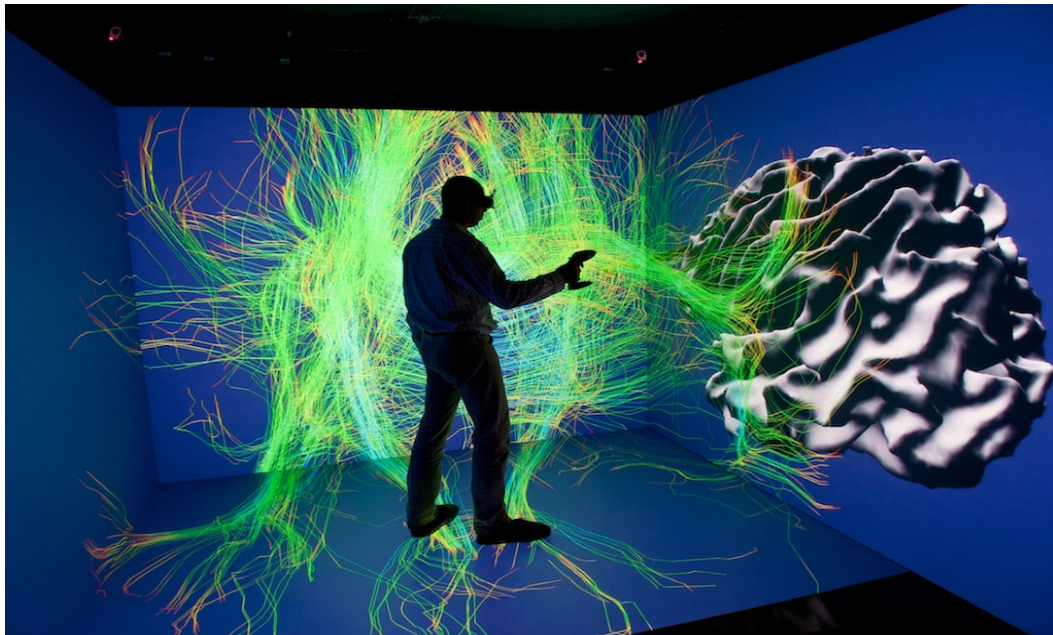
Inria Learning Lab



Interstices



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<sup>JEDI</sup> et 2nd Inria project-team with European university (Athens-Greece)
- 2017** - I-Site MUSE (UCA-Inria Data Science Chair; host of IRT St Exupery)
- 2018** - InriaTECH Sud,
- 2019** - 3AI Institute



# 34 research teams    5 main topics

## 1 Applied Mathematics, Computation and Simulation (6 teams)

- ACUMES, ECUADOR, FACTAS, McTAO, NACHOS, TOSCA-post

## 2 Algorithmic, Programming, Software and Architecture (4 teams)

- AROMATH, DATASHAPE, KAIROS, MARELLE

## 3 Networks, Systems and Services, Distributed Computing (5 teams)

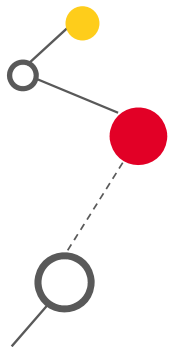
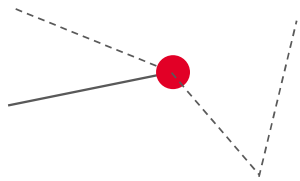
- COATI, DIANA, FOCUS, INDES, NEO

## 4 Perception, Cognition, Interaction (8 teams)

- CHORALE, GRAPHDECO, GRAPHIK, HEPHĀISTOS, 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)

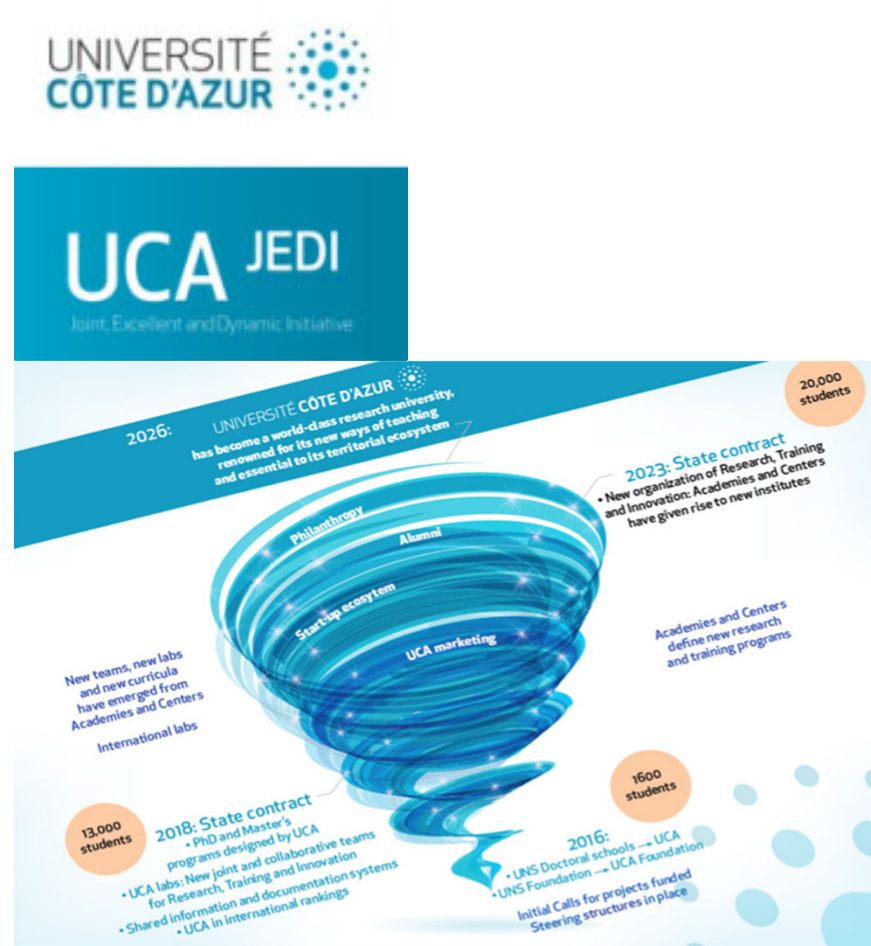
- **498** people : **362** scientists, (researchers/PhD/post-doc/permanent researchers)  
**70** engineers R&D and staff support ;  
**316** employed by Inria
- **3** sites: Sophia Antipolis, Montpellier, Bologna ; **29 M€** budget 2018
- **34** research teams - 18 teams in partnership with CNRS, INRA, 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 (8 teams)
  5. Computational Sciences for Biology, Medicine & Environment (11 teams)
- **38** PhD defended in 2017
- ERC since 2007
- **14** start-up since 2000
- **13** MOOC (Python, semantic Web, Linked Data, cryptography, privacy, smart cities etc, )



# Industrial partners



## Côte d'Azur



# Thank you!

Follow us on [www.inria.fr](http://www.inria.fr)



*Inria*