

Inria is the French national research institute for digital science and technology. World-class research, technological innovation and entrepreneurial risk are its DNA. In 200 project teams, most of which are shared with major research universities, more than 3,500 researchers and engineers explore new paths, often in an interdisciplinary manner and in collaboration with industrial partners to meet ambitious challenges.

As a technological institute, Inria supports the diversity of innovation pathways: from open source software publishing to the creation of technological startups (Deeptech).

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

## INNOVATING WITH PUBLIC RESEARCH INTO DIGITAL SCIENCE

### Research fields

Inria's unique model involves research being carried out through project teams with scientific leaders. They are responsible for both research and technology transfer, across all the software fields in digital science:

#### Applied mathematics, computing and simulation

- Digital simulation and schematics
- Stochastic methods
- Optimisation, learning and statistical methods
- Optimising and controlling dynamic systems



#### Algorithms, programming, software and architectures

- Proofs and verification
- Security and privacy
- Algorithms, computer algebra and cryptology
- Real-time embedded systems
- Architecture, languages and compilers



#### Networks, systems and services, and distributed computing

- Networks and telecommunications
- Distributed systems and middleware
- Distributed and high-performance computing
- Distributed programming & software engineering

#### Perception, cognition and interaction

- Multimedia vision, perception and interpretation
- Interaction and visualisation
- Representing and processing data and expertise
- Robotics and smart environments
- Language, speech and audio



#### Health, biology and digital planets

- Earth, environment and energy science
- Modelling and control for life sciences
- Digital biology
- Digital medicine and neuroscience



## What we do

Inria's Carnot Institute has more than 50 professionals specialising in transfer and innovation in the context of industrial partnerships, providing assistance to businesses.

- In contact with research teams on a daily basis
- Based at 8 research centres in Lille, Grenoble, Nancy, Saclay, Paris, Rennes, Bordeaux and Sophia-Antipolis
- Active in the ecosystems of ten or so regions
- Coordinated by the Innovation Department

Our offer is tailored to meet the needs of partners and businesses:

- Collaborative research through contracts
- Technology transfer and maturation
- Joint laboratories and joint teams for ambitious collaborative projects

With a particular emphasis on SMEs, the aim being to support them with their innovation projects:

- Inria Innovation Labs (joint laboratories with SMEs)

## More about Inria's Carnot Institute

Inria has a wealth of experience of launching innovative start-ups.

Over more than 30 years, Inria has acquired unique expertise when it comes to supporting tech start-ups, having launched and supported more than 170 of them - including many which did not begin life within the institute - through seed funds and then tech ultra-seed funds (I-Source, IT-Translation) and internal support initiatives. Inria has set itself the target of supporting more than 100 deep tech start-ups a year by 2023. Central to this is Inria Startup Studio, a scheme launched to help jointly design entrepreneurial projects supported by public research into digital technology, which is rooted in the major research universities Inria works with.



## Key figures

**Permanent staff**  
**(full-time equivalent): 3500**  
**PhD Students: 1420**

**Partnership incomes**  
**with industry: €22M**  
**Global budget: €240M**

## Contacts

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## International reach:

- International collaborative projects centred around Inria International Labs: in Europe, with the EPFL and the CWI; the LIRIMA in Africa; the LIAMA in China; Inria@SiliconValley in the USA; and the JLESC, which deals with HPC and which has partners from the USA, France, Spain, Germany and Japan.
- In 2012, we launched Inria Chile, which has two aims: to drive forward technological innovation and knowledge transfer through effective collaboration with businesses, institutions and start-ups in Chile; and to establish closer ties between France and Chile when it comes to science and innovation.

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