

Inria

La recherche au sein d'Inria The research at Inria

Nathalie Mitton, DR Inria

01

Inria ?

Inria

Centre national de recherche en informatique et sciences appliquées

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EPST (Établissement public à caractère scientifique et technologique)
(6 en France)

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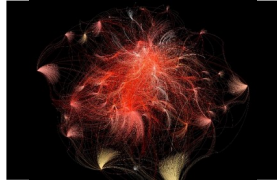
Sous la double tutelle du ministère de l'Enseignement supérieur, de la
Recherche et de l'Innovation et du ministère de l'Économie et des
Finances.

Research areas

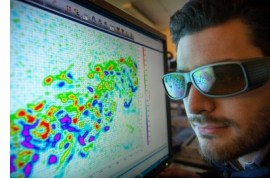
ALGORITHMS & PROGRAMMING



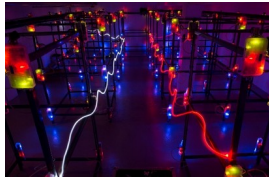
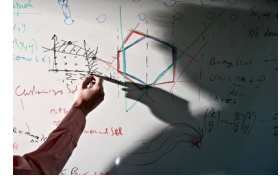
DATA SCIENCE & KNOWLEDGE ENGINEERING



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



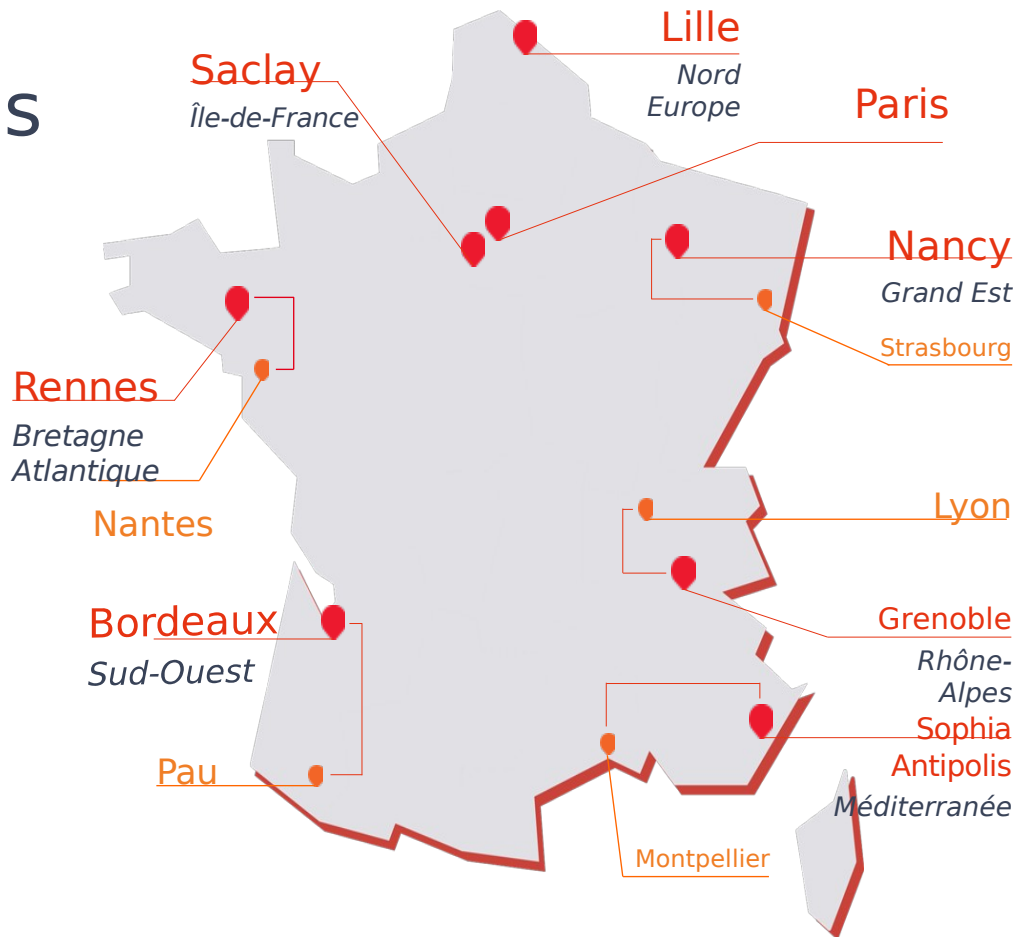
FINANCE



FOOD &
AGRICULTURE

Research centres

- Centres
- Local offices



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

Inria, people above all

4350
collaborators



3400
scientists

950
supports

Inria **2500**

Partners **1850**

Great Support

7 support and service departments in local centers

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Of course HR, Administrative and Finances, Communication, General services

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But also :

SAER : team assistants

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SAER : team assistants

SED : engineers to support software deployment for research

STIP : transfer and relationship department with european project building, transfer etc

Great Support

At national level

DPEI : European and international department

Inria has different international labs.

Strong support for international experience.

02

Les équipes en réseaux et systèmes distribués

Research teams in
networks and distributed
systems

36 research teams in network and distributed systems

4 sub-categories :

- Networks and Telecommunications : 13 teams
- Distributed Systems and Middlewares : 9 teams
- Distributed Programming and Software engineering : 6 teams
- Distributed and HPC : 8 teams

Network and Telecommunications

Address various problematics

- for wired and wireless networks
- for embedded programming to each communication layer

Examples of topic addressed :

- medium access and routing
- cognitive radio
- deployment
- data collection
- process optimization
- network dynamic analysis
- Architecture
- security and reliability

Network and Telecommunications (2)

AGORA

COATI

DANTE

DIANA

DIONISOS

DYOGENE

EVA

FUN

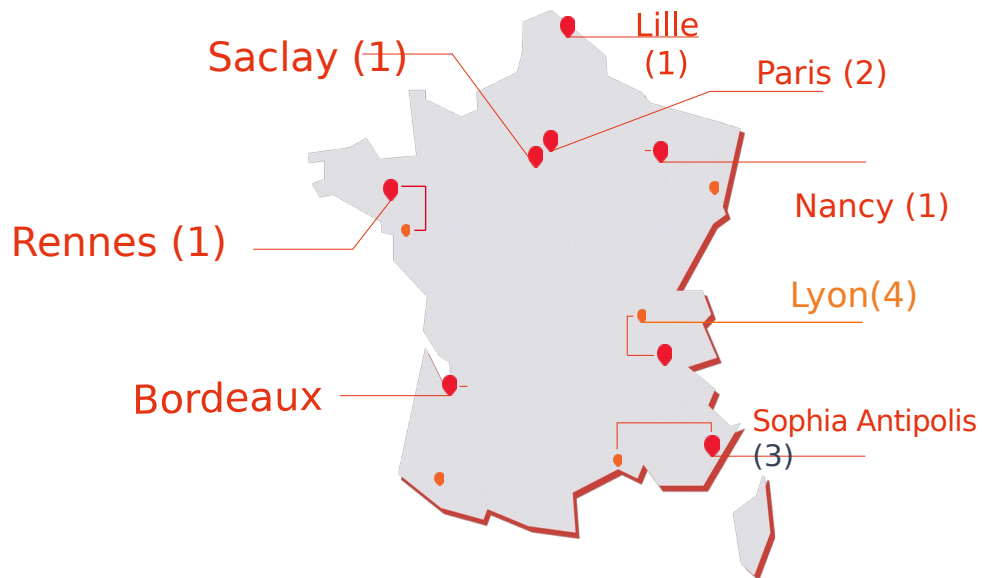
MARACAS

NEO

RESIST

SOCRATE

TRIBE



Distributed Software and MW

Address various problematics :

- centralized and distributed MW
- data collection from fix and mobile sources

Examples of topic addressed :

- self adaptation, self healing
- control
- security, reliability, trust
- scalability
- user-centric cloud and edge services

Distributed Software and MW (2)

COAST

CTRL-A

DELYS

MIMOVE

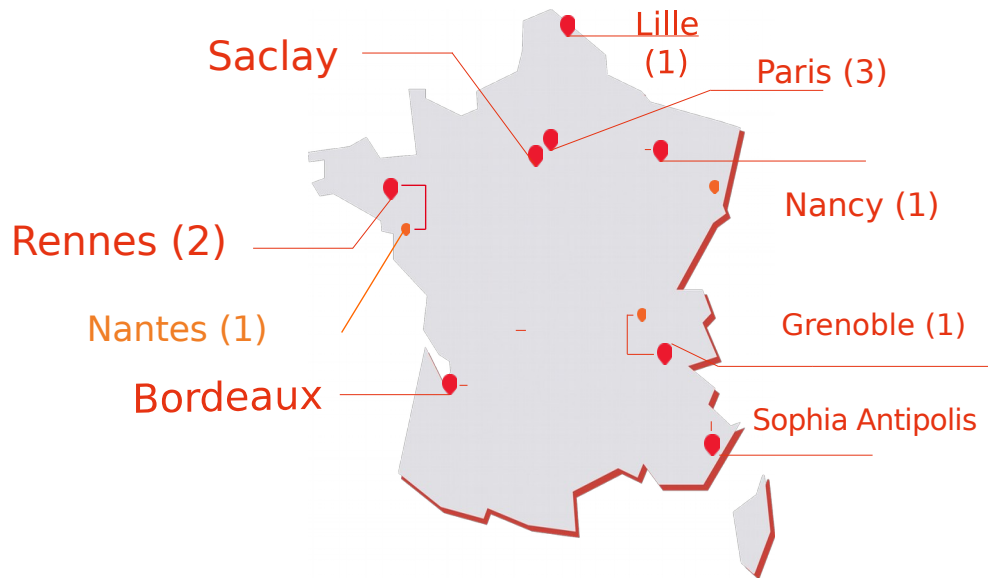
MYRIADS

SPIRALS

STACK

WHISPER

WIDE



Distributed Programming and Software engineering

Address various problematics

Examples of topic addressed :

- programming language
- security, reliability
- self-adaptation
- modularization
- software modeling
- dynamic reconfiguration

Distributed Programming and Software engineering (2)

DIVERSE

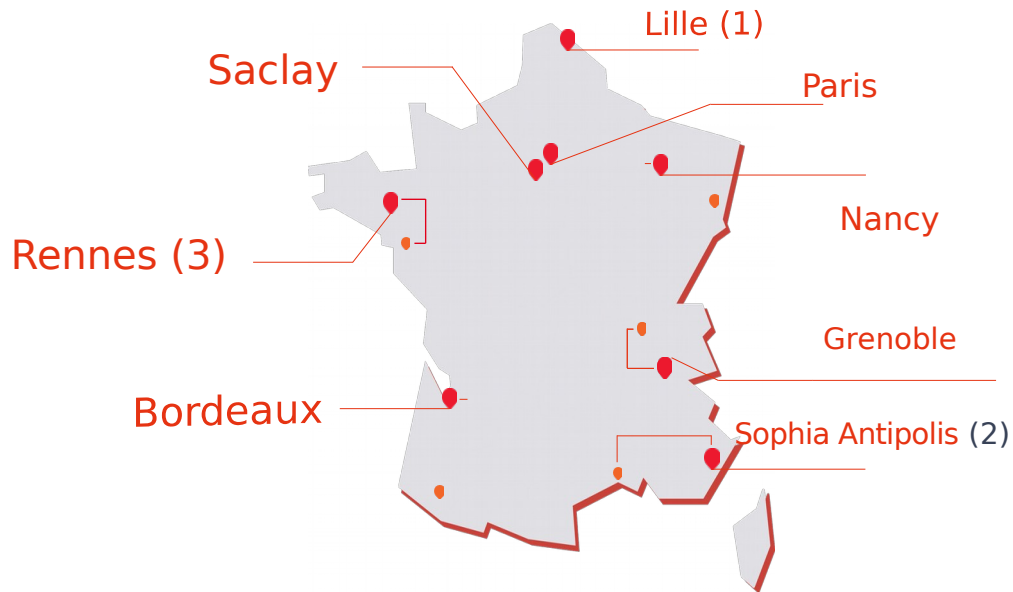
EASE

KERDATA

FOCUS

INDES

RMOD



Distributed and HPC

Address various problematics

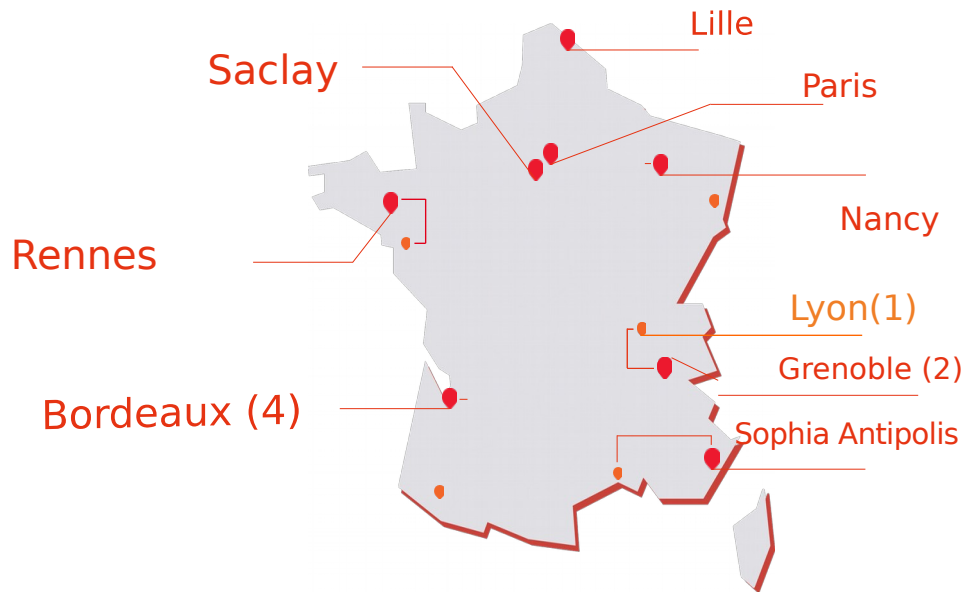
- tools, algorithmics, architecture

Examples of topic addressed :

- data movement
- data storage
- processing
- scalability
- performance optimisation
- scheduling and resources allocation

Distributed and HPC (2)

ALPINES
AVALON
DATAMOVE
HIEPACS
POLARIS
ROMA
STORM
TADAAM



All teams here <https://www.inria.fr/fr/teams>

The screenshot shows a web browser window with the URL `https://www.inria.fr/fr/teams`. The page title is "Les équipes-projets" (Research Teams). It displays a list of 36 teams, with the first seven visible:

- AGORA**: Algorithmes et Optimisation pour Réseaux Autonomes
- ALPINES**: Algorithms and parallel tools for integrated numerical simulations
- AVALON**: Algorithms and Software Architectures for Distributed and HPC Platforms
- COAST**: Web Scale Trustworthy Collaborative Service Systems
- COATI**: Combinatoire, Optimisation et Algorithmes pour les Télécommunications
- CTRL-A**: Commande pour systèmes informatiques autonomiques
- DANTE**: Réseaux dynamiques : approche structurelle et temporelle

On the right side, there is a search and filter sidebar. The search bar is empty. The filter section is titled "Filtres" and includes a "Centres Inria" dropdown menu. Below it, there is a list of research domains with checkboxes:

- Santé, Biologie et données numériques (S2)
- Mathématiques appliquées, calcul et simulation (S3)
- Perception, Cognition, Interaction (S6)
- Algorithmique, programmation, logiciels et architectures (S7)
- Réseaux, systèmes et services, calcul distribué (S7)
- Réseaux et Télécommunications (S8)
- Calcul distribué et à haute performance (S8)
- Systèmes distribués et intégrés (S8)
- Programmation distribuée et génie logiciel (S1)

Merci !

Suivez-nous sur www.inria.fr