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*Fraternité*

# Inserm



La science pour la santé \_\_\_\_\_  
\_\_\_\_\_ From science to health

## Inserm presentation





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# Inserm



La science pour la santé \_\_\_\_\_  
\_\_\_\_\_ From science to health

Inserm is the only public  
research organization in France  
entirely dedicated to health.





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# Inserm



La science pour la santé \_\_\_\_\_  
\_\_\_\_\_ From science to health

Our objective: to promote the health of all by advancing knowledge on living organisms and their diseases, and by developing innovation.



# Content

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- Address major biomedical research challenges
- Take action to improve the health of all
- Disseminate knowledge for the benefit of all



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# Inserm



La science pour la santé \_\_\_\_\_  
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Address major biomedical  
research challenges



- Address major biomedical research challenges

# Be a reference in biomedical research



## In Europe and worldwide

- 7,000 international cooperation agreements with 106 countries
- 66 European and international partner laboratories
- 35 institutional cooperation agreements

## In France

- 278 research units
- 34 clinical investigation centers
- 48 service units



## 15,234 staff

- 4,972 civil servants (2,180 researchers, ATIP-Avenir contracts included)
- 3,719 contract staff and temporary workers (incl. ATIP-Avenir contracts)
- > 50 ATIP-Avenir contracts
- 6,534 teacher-researchers and hospital teachers

## An initial budget of **€1,176 million**

€719,4 million from government subsidies and €456,6 million from internal resources

\* in 2024



## Patents and licenses

- A portfolio of 2,492 patent families
- 131 new license agreements signed
- 306 R&D partnerships

## Be a reference in biomedical research (2)



### In Europe

- No. 1 academic applicant in the biomedical sector in Europe
- No. 2 European applicant in the biotechnology sector
- No. 5 European applicant in the pharmaceutical sector

### Horizon Europe launch and 2021 results:

- ERC: 57 projects, 2<sup>d</sup> French ERC grant winner
- Marie Skłodowska Curie Actions: 9 individual grants, 11 doctoral networks, including 2 coordinations
- Health Cluster: 54 projects, including 13 coordinations
- EIC: 16 projects, including 2 coordination
- Infrastructure: participation in 6 projects

### Horizon 2020 results:

- 1<sup>st</sup> coordinator of the Health societal challenge
- 396 contracts, incl. 83 grant winners and 53 Marie Skłodowska-Curie grants



### Close dialogue

with over 500 patient organizations for

- participatory research
- meetings and debates between patients and researchers

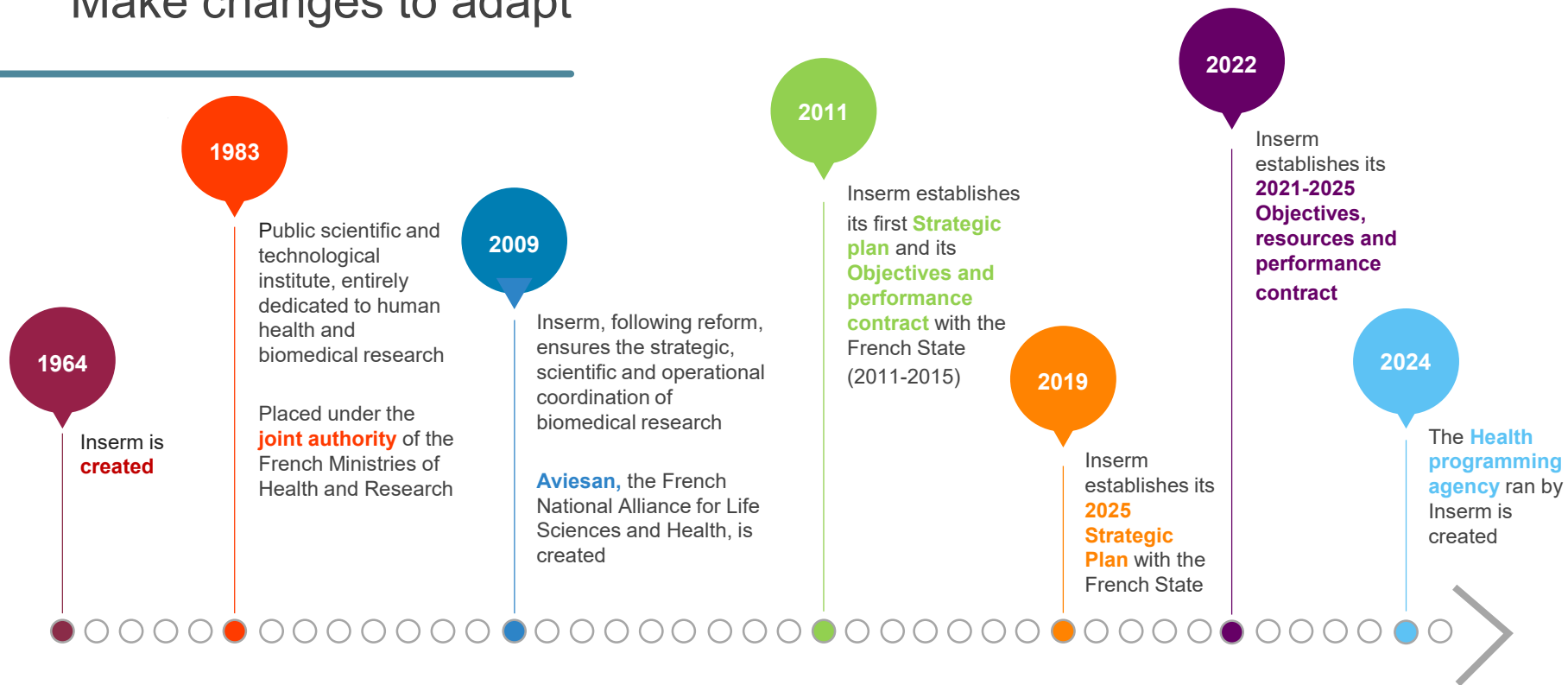


**10,976 original articles**

(publications 2022)

- Address major biomedical research challenges

# Make changes to adapt





- Address major biomedical research challenges

# Our organization



Chairman and CEO  
Didier Samuel



Vice CEO  
for Strategy  
**Elli Chatzopoulou**



Vice CEO  
for Administration  
**Damien Rousset**



Executive Director  
**Carine Delrieu**



Executive Director  
Programming Agency  
**Franck Mouthon**

Professional Ethics Board  
Ethics Committee  
Ethics Evaluation Committee  
Office for Research Integrity  
Think Tank Network with Patient  
Organizations (GRAM)  
History Committee

Management Board  
Scientific Advisory Board  
Specialized Scientific Committees  
Research Support Committee

General Directorate

## Thematic institutes

- Cancer
- Cell biology, development and evolution
- Genetics, genomics and bioinformatics
- Health Technologies
- Immunology, inflammation, infectious diseases and microbiology
- Molecular and structural basis of living organisms
- Neurosciences, cognitive sciences, neurology, psychiatry
- Pathophysiology, metabolism, nutrition
- Public health

## Divisions

- Communication
- Financial Affairs
- Human Resources
- Information Systems
- Legal Affairs
- National and Foreign Affairs
- Open Science
- Program Assessment
- Strategic Program
- Accounting Department

## Regional Offices

- Auvergne-Rhône-Alpes
- Est
- Grand Ouest
- Île-de-France (4)
- Nord-Ouest
- Nouvelle-Aquitaine
- Occitanie Méditerranée
- Occitanie Pyrénées
- Provence-Alpes-Côte d'Azur and Corsica

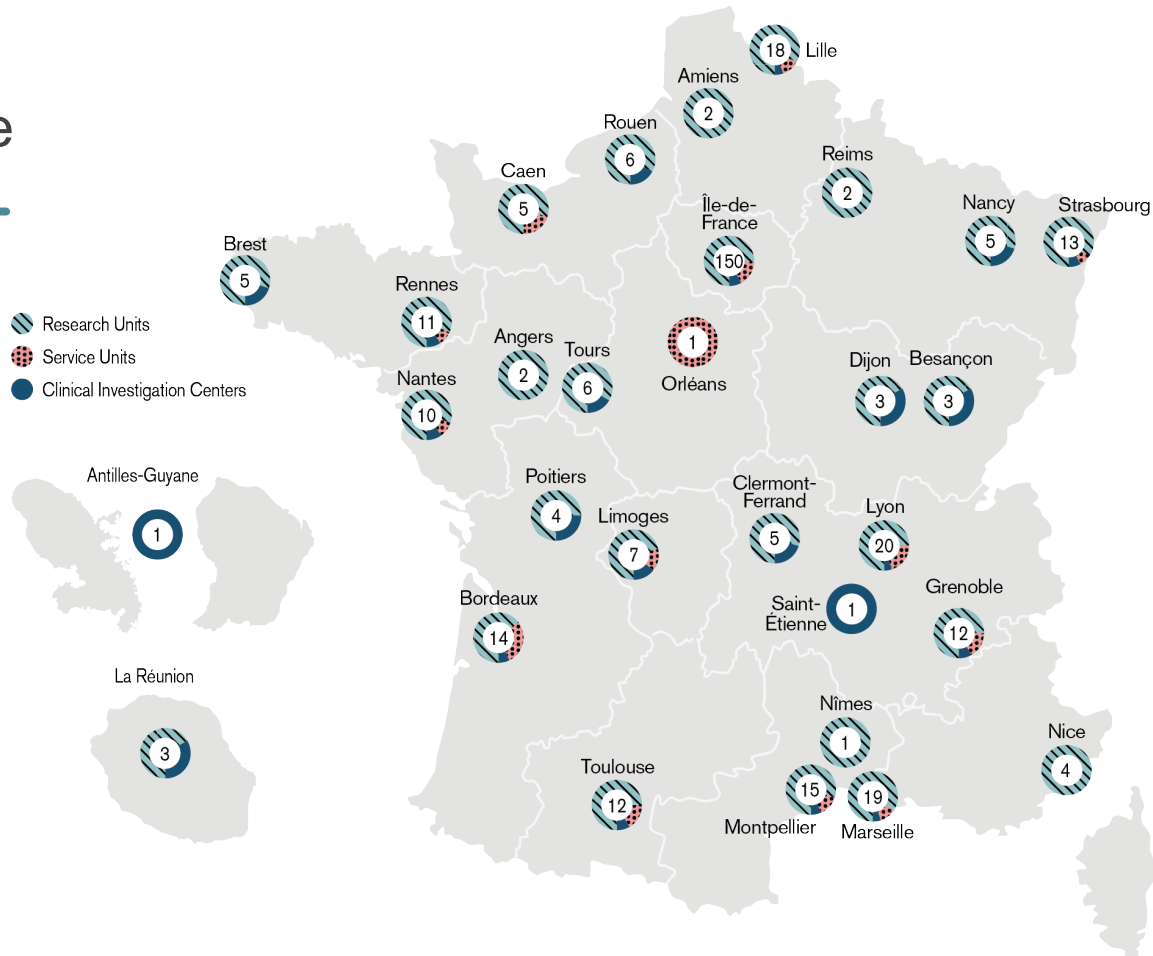
- Address major biomedical research challenges

# Our presence in France

**278** research units

**48** service units

**34** clinical investigation centers



- Address major biomedical research challenges

## Our presence in France (2)

**85%** of Inserm Strengths in...

**14** research universities, in which Inserm invests more than €10M each year



## Our main partners in France and abroad

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- **37** universities
- A key partner of **14** research universities in which Inserm invests more than €10M each year
- On **14** Idex and I-sites, Inserm invests **72%** of its resources
- Research units in **31** teaching hospitals
- National research institutions: CNRS / Inrae / Inria / IRD / INED...
- French top graduate schools: ENS, ESPCI, EHESS, École polytechnique, EHESP, École des Mines, ENVA...
- Industry: Astra Zeneca/MedImmune, MSD Avenir, Sanofi, AdBio Partners...
- Foundations and associations: Fondation Bettencourt Schueller, FRM...
- European and international academic institutions: Helmholtz, NIH...

- Address major biomedical research challenges

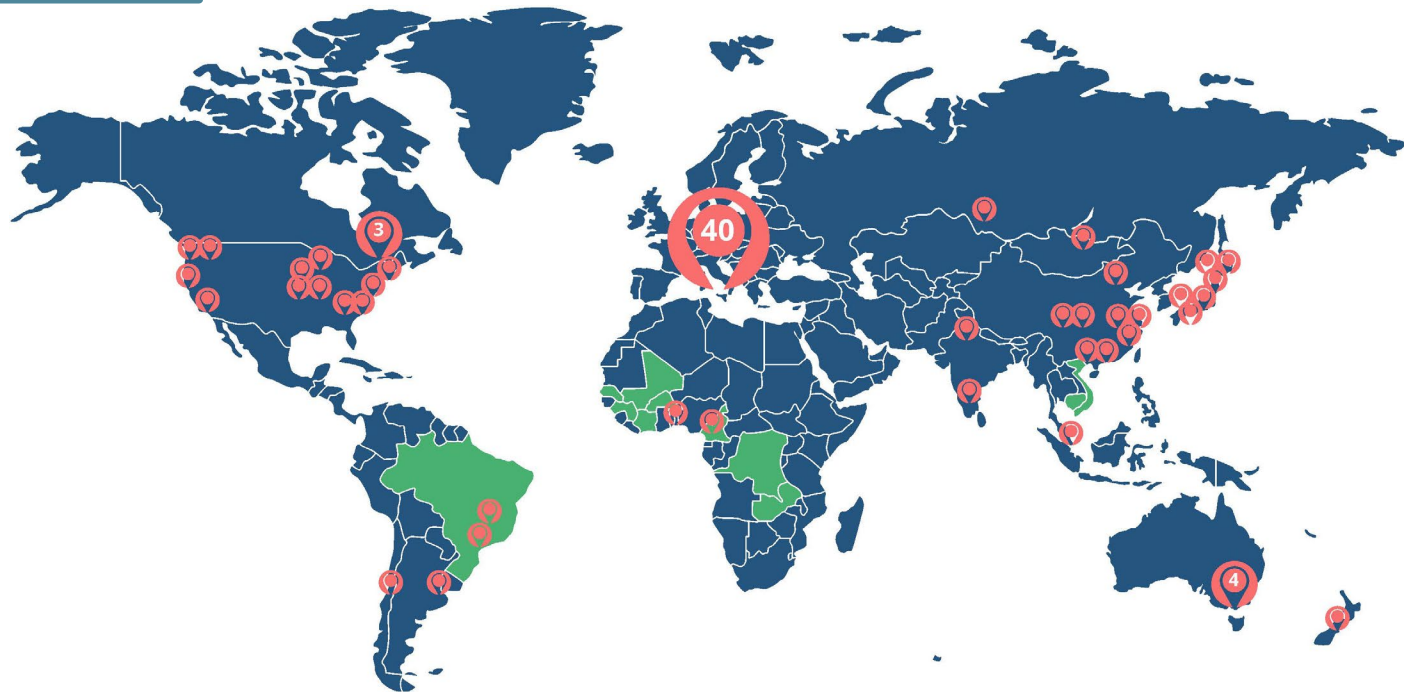
## Our partner laboratories in Europe

- Inserm research teams launch many **informal scientific collaborations** with European laboratories.
- In addition to these spontaneous cooperation networks, Inserm signed, in 2024, **40 partnership agreements in Europe** thanks to dedicated instruments: thematic coordination programs, international research projects and first step projects.



## Our partner laboratories abroad

- Inserm research teams launch many **informal scientific collaborations** with European laboratories.
- In addition to these spontaneous cooperation networks, Inserm signed, in 2024, **85 partnership agreements worldwide** thanks to dedicated instruments: thematic coordination programs, international research projects and first step projects.
- Besides, Inserm is working with **11 partner countries** through ANRS MIE.





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Take action to improve  
the health of all



# Programming and steering national health research



## Objectives

To make the research and innovation ecosystem better able to respond to the major challenges and transitions facing the health sector. To achieve this, the **Health Research Programming Agency** will strengthen coordination between the relevant stakeholders, and help prioritize and define a number of research programs deemed strategic because they have a high societal impact and are of sovereign interest. Once these programs have been approved by the French government, the Agency orchestrates their national management.

## Missions

- Establish a forward-looking vision to support the induction of innovative and ambitious research programs, based on priority scientific issues in healthcare
- Build interdisciplinary expertise in the field of biomedical research
- Ensure the coordination between priority programs, with site policies, national and European research infrastructure roadmaps, European initiatives, and across the entire continuum of funding and action in priority areas

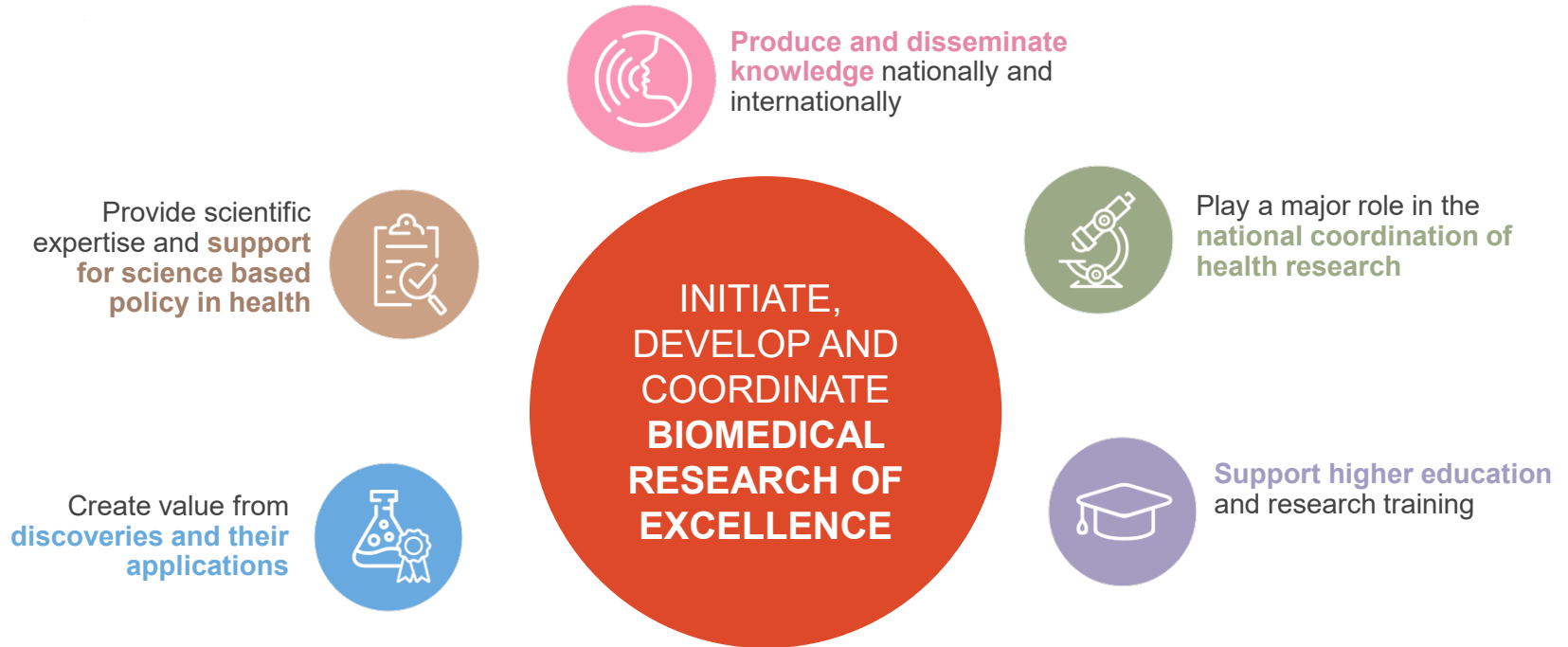
## Roadmap

- Develop three new priority research programs (neurodegenerative diseases, chronic inflammatory diseases, transplantation)
- Finalize the France Vaccines program
- Manage the research component of the National Acceleration Strategy on Health Prevention
- Build an interdisciplinary end-of-life research program
- Contribute to national and European roadmaps for research and technological infrastructures and facilities
- Develop the Agency's expertise and prospective action



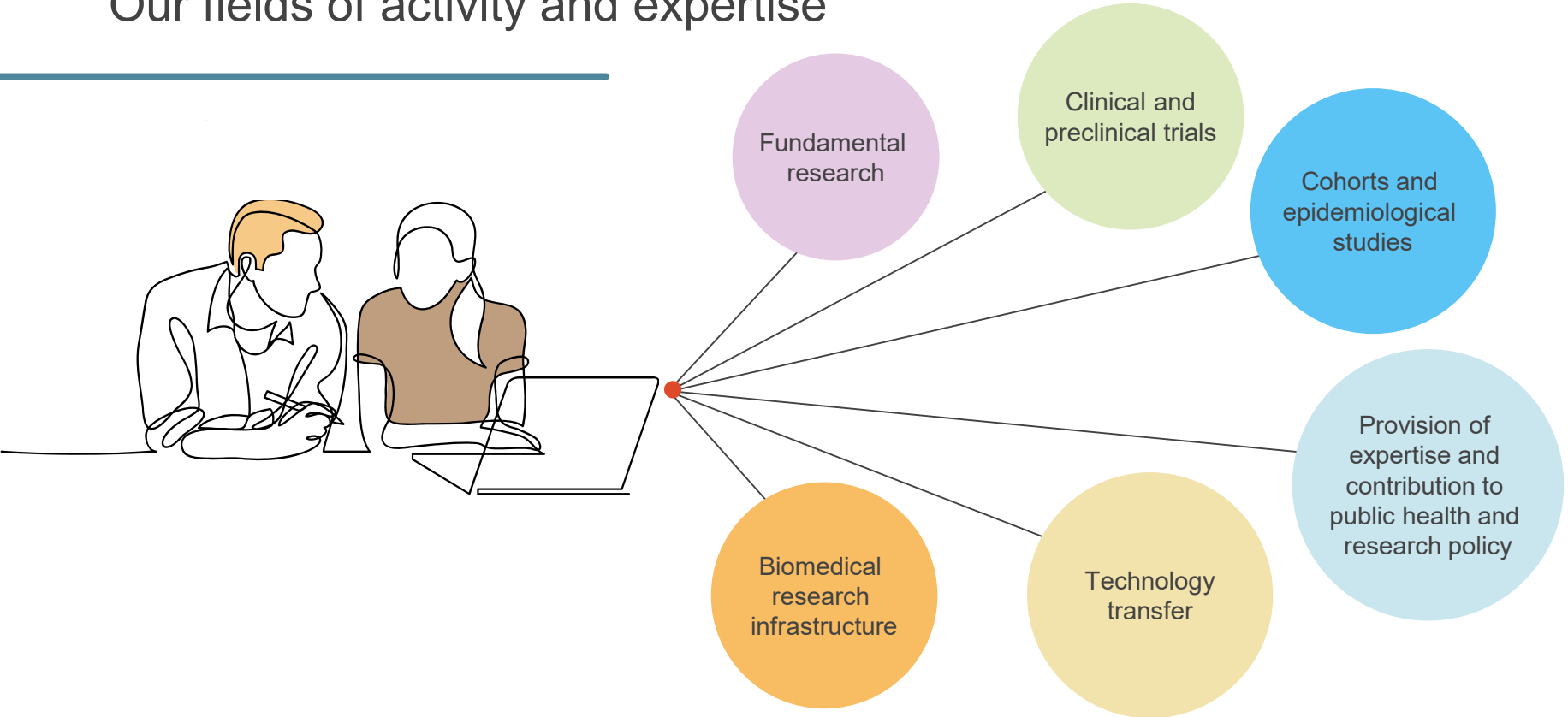
- Take action to improve the health of all

# Our missions for health



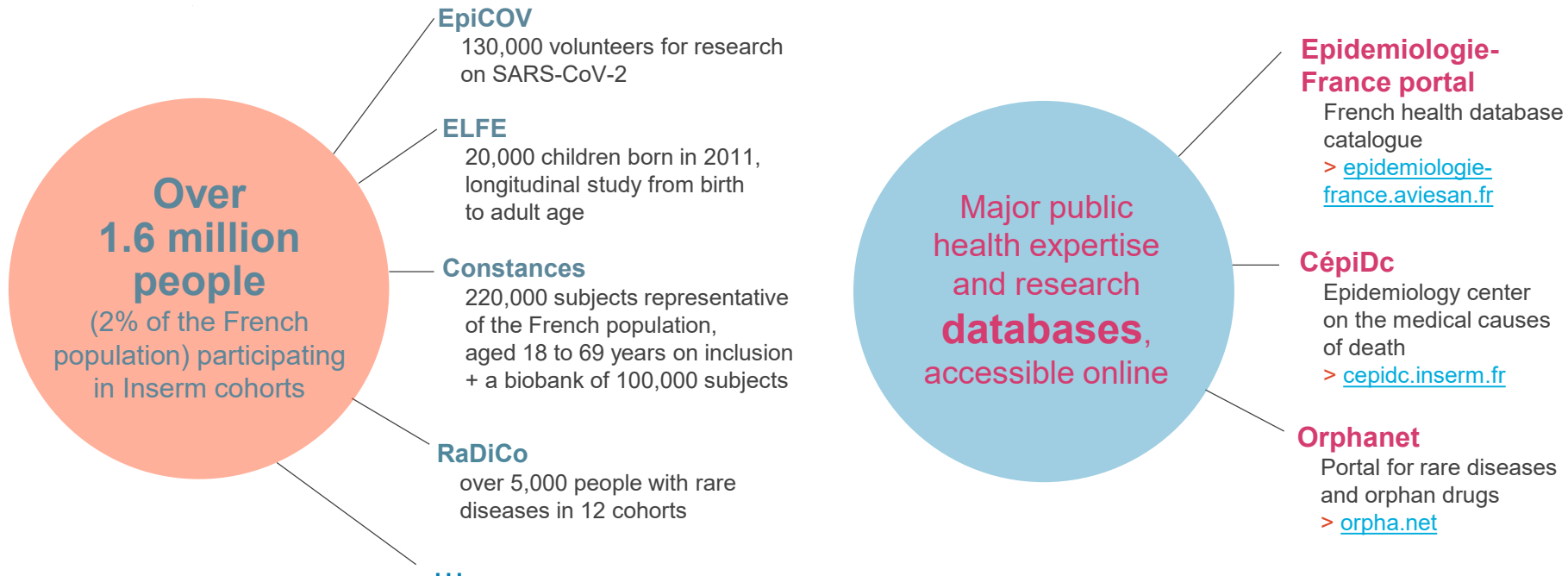
- Take action to improve the health of all

## Our fields of activity and expertise



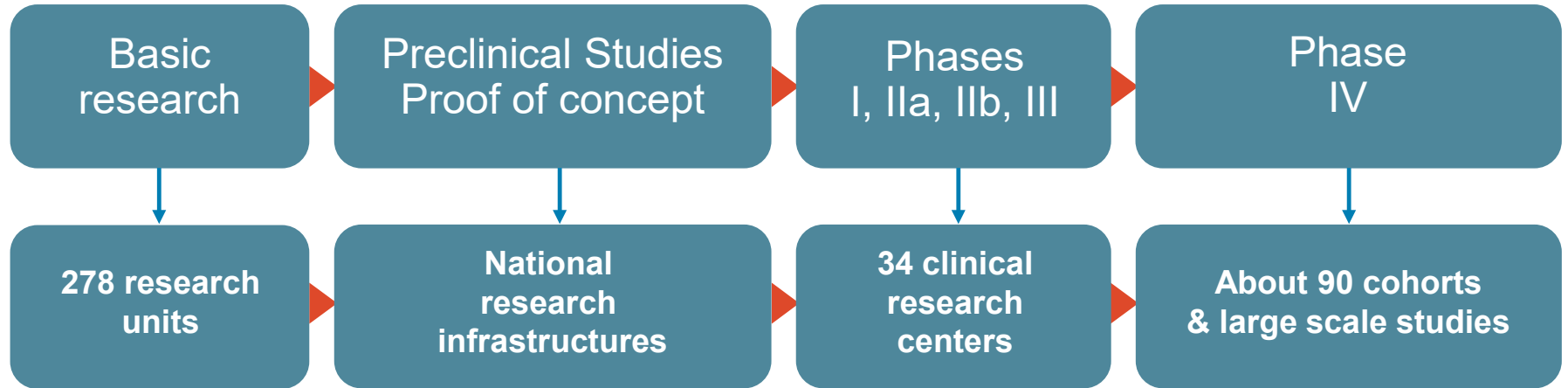
- Take action to improve the health of all

## Cohorts and epidemiological studies



- Take action to improve the health of all

## A continuum from basic to clinical, therapeutic, and public health research



- Take action to improve the health of all

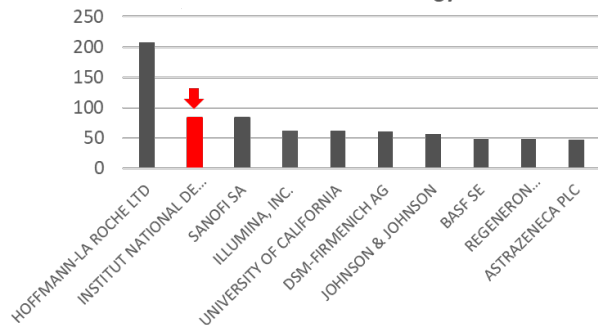
## Value creation activities which are bearing fruit

- **2,492** patent family's portfolio
- **152** new patent families in 2023
- An annual budget of **€1.8 M** to fund project maturation or proof of concept
- A maturation budget reaching **€25.1 M** invested in 419 projects since 2009
- **€550.2 M** industrial partnerships since 2010 (patents, research contracts)
- **~ €25-30 M** per year from licensing agreements
- Over **400** technologies and research tools available for licensing
- Strategic alliances with MSD Avenir, Astra Zeneca/MedImmune, Sanofi, AdBio Partners...
- **10** startups created each year via Inserm Transfert (Inserm's subsidiary)
- Partnerships with SATTs

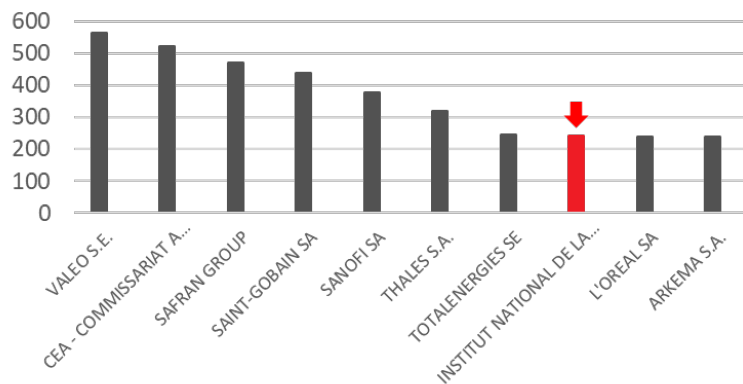
- Take action to improve the health of all

## Inserm & Inserm Transfert in EPO rankings

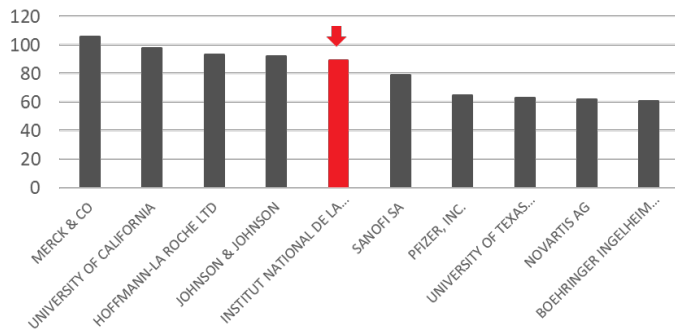
2<sup>nd</sup> in the biotechnology sector



8<sup>th</sup> in France all sectors represented



5<sup>th</sup> in the Pharmaceutical sector



- **No. 5** European applicant in the pharmaceutical sector
- **No. 2** European applicant in the biotechnology sector (5<sup>th</sup> year)
- **No. 1** European research academic institution in the biomedical sector
- **2,492** patent families as of 31/12/2023

- Take action to improve the health of all

## Inserm Transfert: partnering with industries

SOME OF OUR INDUSTRIAL PARTNERS: privileged partner of major industrials, mid-size, SME, involved in human health, at the international level



- Take action to improve the health of all

# Inserm spin-offs based on inventors as drivers





## Major discoveries

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Since its foundation in 1964, Inserm has played a part in many key, historic medical advances, such as:

- **the first prenatal diagnostic tests;**
- **understanding the HLA system** and the ensuing immune reactions;
- **the first in vitro fertilization;**
- **radiotherapy for cancer;**
- **the first skin graft;**
- **deep brain stimulation** in the treatment of Parkinson's disease;
- **gene therapy** in the treatment many diseases;
- **innovative technologies** like bioprinting, ultrasound, imaging organoids...
- **the Nutri-Score** informing on the nutritional quality of foods



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# Inserm



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Disseminate knowledge  
for the benefit of all



- Disseminate knowledge for the benefit of all

## Our ethics committee to reflect on innovative research and to shed light on debates

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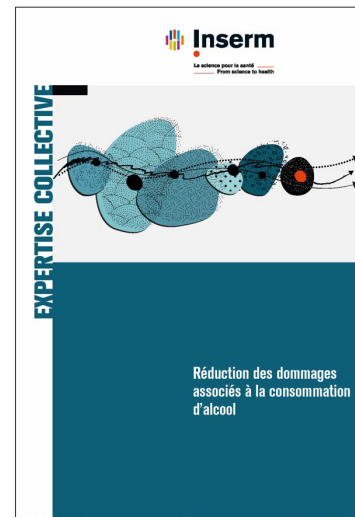
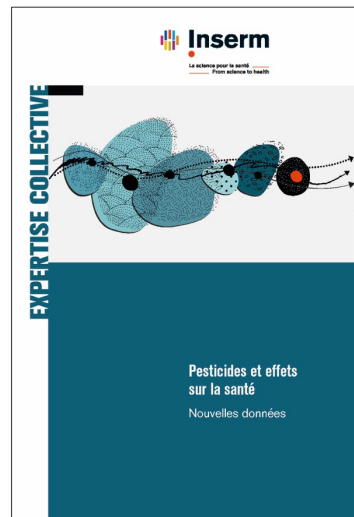
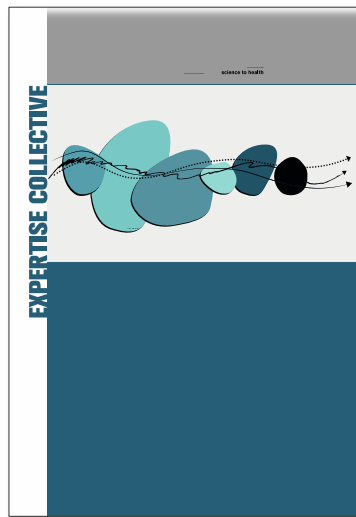
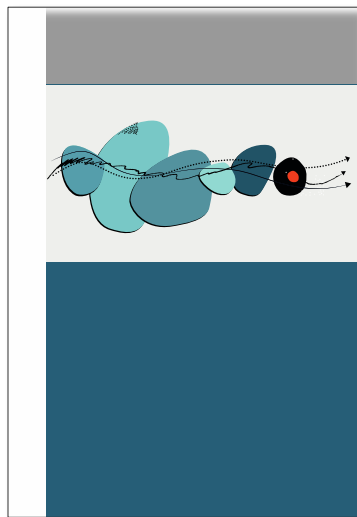
### Since 1999, Inserm ethics committee has focused on ethical questions in emerging areas of medical innovation

- Publication of multiples notes on genome editing and participation in the creation of ARRIGE (Association for Responsible Research and Innovation in Genome Editing) in 2018
- Launch in 2022 of Volrethics to define common international ethical rules to protect healthy volunteers in biomedical research
- Think tanks on gender and health research, research on the human embryo, genomic medicine, neurotechnology in education, organoids and organs on chips...

- Disseminate knowledge for the benefit of all

# Collective expert reviews and contribution to public health policy

Inserm fulfils its mission of expertise provision and knowledge transfer to decision-makers in the field of public health by providing the scientific insight required to take decisions on public health policy issues.



- Disseminate knowledge for the benefit of all

## Our work with patient organizations

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### Towards research in partnership with patient organizations and civil society collectives


- Promote meetings and direct dialogue between researchers and collectives
- Act for the structuring, coordination and animation of participatory research projects
- Help to better take into account these projects in the assessment of researchers and structures
- Facilitate access to scientific information for society

- Disseminate knowledge for the benefit of all

## Our presence in the service of public information

 **inserm.fr**  
**9,600,000**  
visits

 **154,000**  
followers

 **160,000**  
followers

 **52,000**  
followers

 **17,000**  
followers

 **397,000**  
followers

 **24,500**  
subscribers



Live lectures and  
30' Santé broadcast  
**166,500** views

Public events  
**2.8 million**  
participants and views



Meetings on  
participatory research  
**250** participants\*



Canal Détox  
information videos and articles  
**273,000** views



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## #FromScienceToHealth

