



**VIVA
TECHNOLOGY**
22 – 25 MAI 2024 / PARIS

The CNRS at **VivaTech 2024**

PRESS PACK



Viva Technology, or VivaTech, is Europe's largest event devoted to technological innovation and start-ups. Launched in 2016, it is held annually at the Paris Expo Porte de Versailles conference centre.

CNRS will participate this year for the fifth time.

FIND ALL INFORMATIONS ON [CNRS.FR](https://www.cnrs.fr).

TO GET DAILY UPDATES FROM CNRS
DURING THE CONFERENCE ON [LINKEDIN](#) AND [X](#), FOLLOW
#CNRSINNOVATION

PRESS CONTACT

Manon Landurant

+33 1 44 96 51 37

manon.landurant@cnrs.fr

Summary

01	INTRODUCTION	4
	A note from the CEO	4
02	AT THE SOURCE OF INNOVATION	6
	Innovation at the CNRS in figures	7
03	THE CNRS AT THE VIVATECH SPORT PARK	8
04	THE CNRS STAND	9
	Healthcare	10
	Sustainable development	12
	Aerospace	14
	The digital revolution	16
05	THE TALKS	18
06	PITCH SESSION CO-HOSTED WITH THE SATT NETWORK	22
	Our partners	23
07	THE CNRS ON THE OTHER STANDS	24
08	USEFUL INFORMATIONS	30



THE CNRS AT VIVATECH

A note from the CEO



© Frédérique PLAS / CNRS Images

CNRS strives to encourage a culture of innovation among all of our researchers. This is a point that we emphasise to our partners, especially in the business world, with the goal of fuelling new scientific challenges.”

Antoine Petit,
Chief Executive Officer of CNRS

CNRS is pleased to be participating for the fifth time in VivaTech, an event that has made itself a must in the realm of innovation, both in France and around the globe.

This year CNRS is proud to be spotlighting basic research, an essential driving force for innovation. It all starts in the laboratories, where scientists pursuing research at the highest level achieve promising results that lead to breakthrough innovations — a process exemplified by the start-ups on view at our stand, emerging players in fields like new space, healthcare, sustainable development and digital technology.

CNRS strives to encourage a culture of innovation among all of our researchers. This is a point that we emphasise to our partners, especially in the business world, with the goal of fuelling new scientific challenges. It's important to remember that for CNRS the purpose of basic research is to benefit society, and that innovation offers concrete answers to the challenges of today and tomorrow. VivaTech gives us a tremendous opportunity to illustrate the societal impact of the innovations originated by our 1,100-plus research laboratories.

In addition, a series of roundtable talks at the CNRS stand will offer fascinating discussions on topics such as generative AI, free software and the environmental transition, among many others. It will also be an opportunity to examine, with the people directly involved, the financing of innovation and the leverage points for maintaining its dynamism.

I invite you to join us at the CNRS stand at VivaTech on May 22-25.

I hope to see many of you there!

Introduction

As a key player in deeptech, CNRS will once again be on hand at VivaTech, Europe’s largest annual conference dedicated entirely to innovation, to be held on May 22-25, 2024.

Experts and partners of the organisation as well as representatives of start-ups originating from laboratories under CNRS supervision will participate in this new edition, to engage the public and unveil exceptional technologies in the fields of healthcare, sustainable development, aerospace and the digital revolution.

Basic research tackles the key challenges of tomorrow

The French National Center for Scientific Research is one of the most recognised and renowned public research institutions in the world. It has continued to attract talent at the highest level and to nurture multi-disciplinary and interdisciplinary research projects at the national, European and international levels. Geared towards the public interest, it contributes to the scientific, economic, social and cultural progress of France. With over 1100 laboratories in France and around the world, the CNRS is a major player in research and innovation, and also employs over 33,000 people.

Creating a dialogue between all the sciences

Research and innovation at the CNRS is intrinsically multidisciplinary and applied to all areas of scientific knowledge. Its research fields cover biology, chemistry, ecology and environment, engineering, mathematics, nuclei and particles, physics, information technology, humanities and social sciences, earth and space.

Research that covers all angles

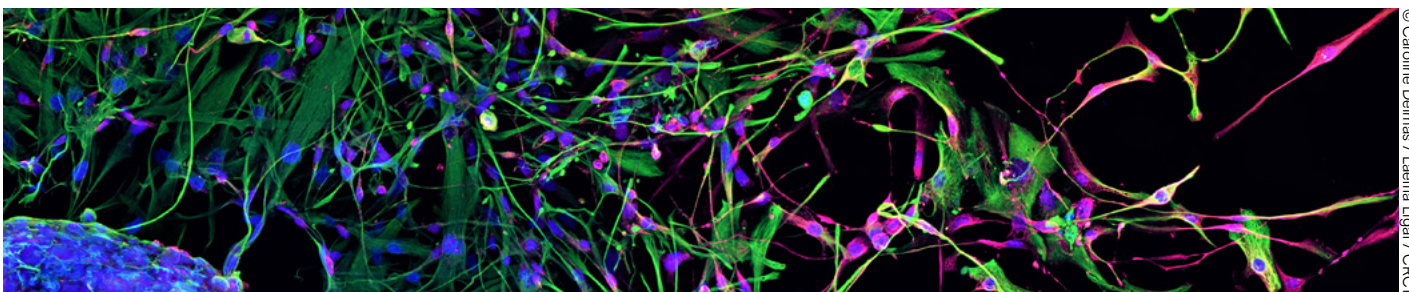
The CNRS has over 80 years experience of basic research, exploring living creatures, space, materials and human societies and can leverage all fields of science to understand current global challenges in all their complexity, in conjunction with organisations in the field.

From innovation to impact

The CNRS encourages and supports the application of research results to transform them into concrete and long-lasting social and technological innovations that benefit both companies and society.

Knowledge sharing

The CNRS is a strong advocate of a knowledge-focused society, and an open science that is deeply rooted in its era. It promotes the wide circulation of knowledge and scientific culture, and supports decision makers to develop public policy.



© Caroline Delmas / Laetitia Ligat / CRCT / CNRS Images

+1100

laboratories throughout France

80

foreign laboratories worldwide

28 000

scientists of 90 different nationalities

At the source of innovation

Behind any innovation, there is almost always a researcher who has taken risks and brought the results of his/her work to the market.

Innovation arises in the laboratory, in contact with fundamental research. These discoveries, the source of major innovations, concern all fields of scientific knowledge - molecular biology, computer science, particle physics, sociology, and so on.

Set in a long timeframe, these studies at the frontiers of knowledge are driving major changes in our societies and transforming our daily lives.

The CNRS, a key player in innovation in France

The CNRS occupies an important position in the field of innovation as it manages a number of customised support programmes for researchers who wish to capitalise on their work and transform it into concrete, sustainable innovations for companies and society as a whole.

Every year, exceptional innovations emerge from the laboratories operated by CNRS and its partners. They are able to benefit society thanks to a forward-thinking innovation policy based on three main principles:

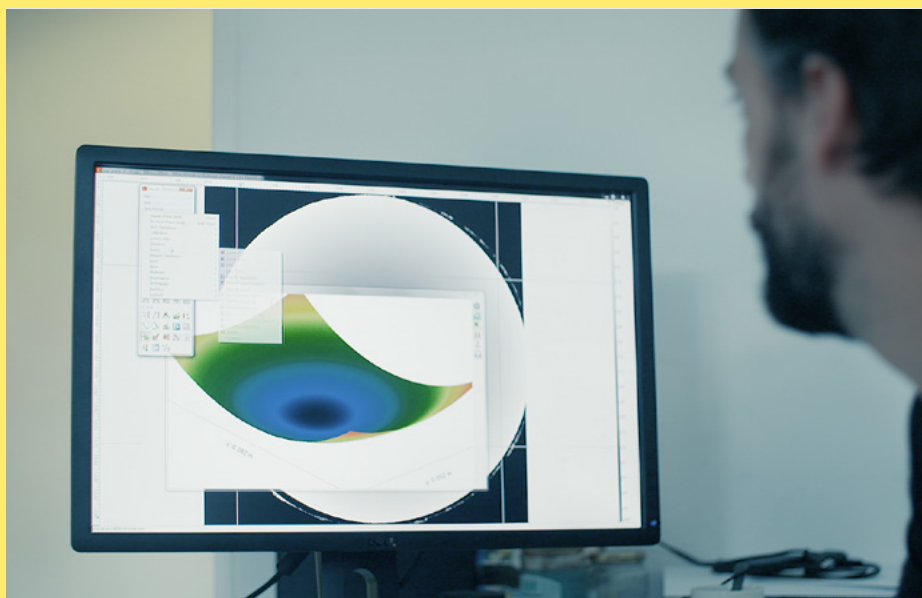
- Ensuring the intellectual protection of inventions,
- Supporting the creation of start-ups,
- Strengthening relations with the business world.

In particular, CNRS offers several support programmes for its researchers:

- For derisking emerging technologies (prematuration),
- For creating start-ups (RISE),
- For ensuring their development (RISE+ or RISE-UP),
- ... Not to mention the maturation programme provided through 13 SATTs located all over the country.

Discover portraits of researchers from various fields who have received CNRS support for the launch of their start-up.

INNOVATING AT THE CNRS



Innovation at the CNRS in figures :



+100

start-ups launched
each year



© Cyril FRESILLON / GEOAZUR / FIRST-TF / CNRS Images



+1600

companies now in
operation



© Frédéric Mollignat / LAAS-CNRS / CNRS Images

© Jean-Claude Moschetti / ISCR / CNRS Images



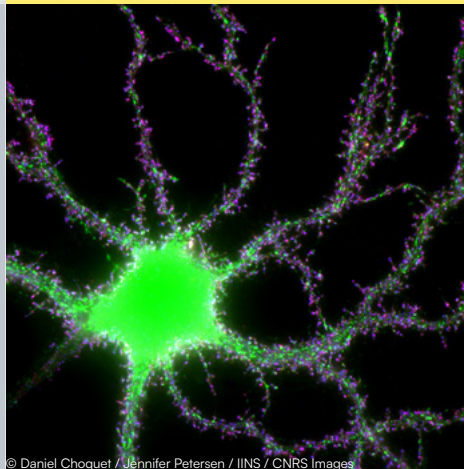
+9000 patent families

one-third registered jointly
with industrial partners



7th place

in the rankings
of patent applicants
(according to INPI, the
National Institute of
Intellectual Property, in 2023)



© Daniel Choquet / Jennifer Petersen / IINS / CNRS Images



Ranked among the
Clarivate

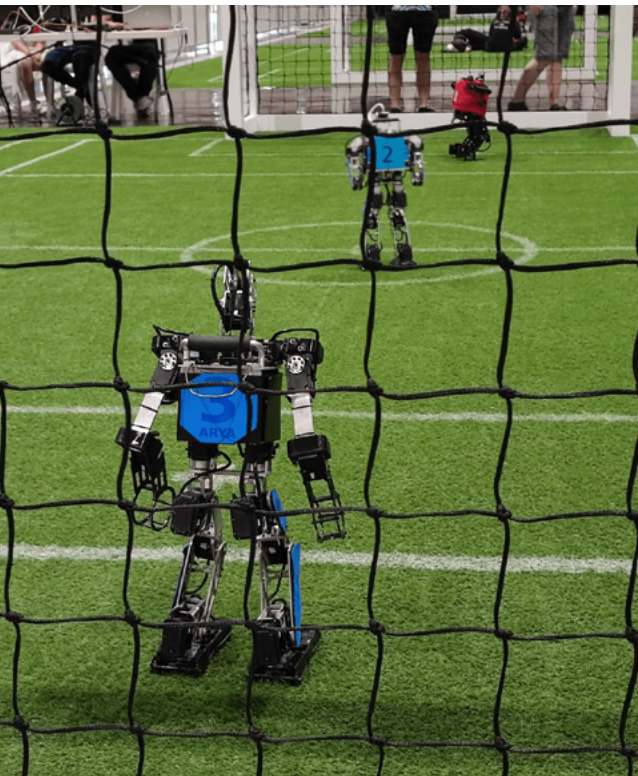
Top 100 Global Innovators™ for 2024

A MUST-SEE THIS YEAR

Sigmaban, the humanoid robot footballer

This year, CNRS will be represented at the VivaTech Sport Park by **SigmaBan**, a humanoid robot programmed to play football with complete autonomy.

Developed by the Rhoban team at LaBRI (Bordeaux Computer Science Research Laboratory, CNRS / Polytechnic Institute of Bordeaux / University of Bordeaux), the 60-centimetre-tall robot has won several awards, including the 2023 RoboCup in the Kid-Size* category!



© Rhoban / Olivier Ly

SigmaBan is a veteran player, having participated in ten international events so far. Since its creation, the robot has evolved a great deal, and can now move five times as fast as its earliest versions, reaching a speed of 35 centimetres per second — an impressive pace for a robot of its size.

The team designed SigmaBan from head to toe, including its mechanics and software. In addition to enabling this bipedal robot to maintain its balance while running, an extraordinary feat by itself, the roboticists had to overcome many technical challenges in terms of motricity to make it a champion: ensuring that the robot keeps its balance when it encounters an unexpected situation, follows the ball's trajectory and adjusts its direction accordingly, remains stable on its legs so as not to fall after each kick and, of course, has the ability to get back up after a fall, quickly and on its own.

Behind the development of this robot footballer, which at first glance may appear to be pure entertainment, lies the desire to study questions of robotic locomotion and motor skills. This knowledge that could be applicable to numerous robotic technologies.

Even though SigmaBan has won the RoboCup world championship five times, the Rhoban team led by Olivier Ly is not resting on its laurels. The researchers continue to optimise the design of the robot's mechanical structure and actuation, its ability to perceive its environment and the generation and control of its movements, constantly improving its humanoid capabilities.

*The highest-profile category in the competition, it features matches between teams of four humanoid robots under one metre in height.

→ [RHOBAN.COM](https://rhoban.com)



The Rhoban Team

Oliver Ly, lecturer and researcher at the University of Bordeaux, and the CNRS researcher Hugo Gimbert both work at LaBRI. In 2012 they co-founded the Rhoban research team specialising in autonomous, agricultural and humanoid robotics.

Since 2021 Ly has also been in charge of R4, a network that unites the Nouvelle-Aquitaine region's robotics researchers (nearly 120 in all) to foster dialogue and sponsor joint actions and projects.

The CNRS stand

For its fifth time as an exhibitor at VivaTech, CNRS has decided to showcase ten high-potential start-ups developing breakthrough technologies in fields of research that offer optimal solutions for meeting the societal and technological challenges of today and tomorrow.

Spotlighting breakthrough innovations made possible by basic research

Experts and partners of the organisation as well as representatives of start-ups originating from laboratories under CNRS supervision will participate in this new edition, to engage the public and unveil exceptional technologies in four key fields:

- **Healthcare**
- **Sustainable development**
- **Aerospace**
- **The digital revolution**

10 start-ups from laboratories under CNRS supervision

More than **40** experts present



© Christophe HARGOUES / IGMM / CNRS Images

In all, more than 50 start-ups originating from CNRS-supervised laboratories will be on hand at VivaTech 2024!

Giving the floor to experts and entrepreneurs

Ten discussion sessions about the social and professional challenges of innovation

A rich programme of roundtable talks bringing together CNRS scientists and representatives of the innovation ecosystem will enliven the first three days of the event. How can technologies be derisked? What's the best way to make a successful transition from start-up to factory? What indicators should be used to strike a balance between innovation and societal impact? Many topics will be addressed in these encounters, offering the public insights into issues related to the societal and professional challenges of innovation.

In particular, generative AI, the main theme of this year's VivaTech, will be discussed in a roundtable highlighting CNRS's expertise in the field and the diversity of innovations spawned by this leading-edge research.

A pitch session co-hosted with the SATT Network ("Sociétés d'Accélération du Transfert de Technologies" – Technology Transfer Acceleration Companies)

This session will give a select group of AI-based start-ups an opportunity to present their operations to a panel of investors, giving these entrepreneurs greater visibility in terms of potential fundraising.



© Christophe HARGOUES / IGMM / CNRS Images

Healthcare

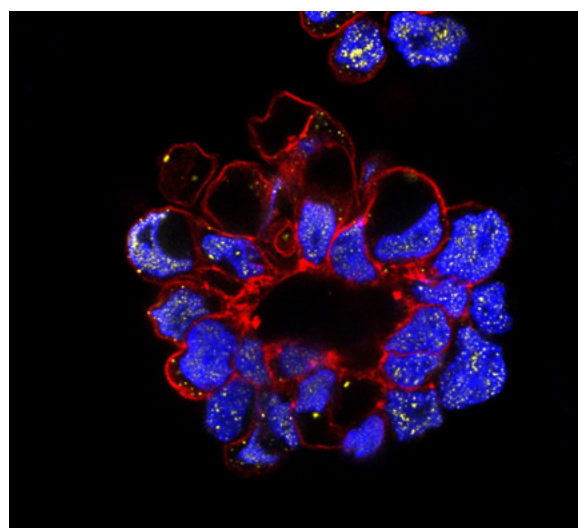
Public health will remain a major challenge in the decades to come. Despite considerable clinical and technological progress in the past century, many pathologies, whether new or well-known and documented, are the focus of ongoing research in hopes of developing better treatments. Once again this year, these topics will be addressed at the CNRS stand. Representatives of three start-ups originating from laboratories under CNRS supervision will present technologies that they have developed to offer solutions for problems like resistance to anticancer treatments, chronic pain, or the suboptimal effectiveness of treatments targeting the nervous system.

HEPHAISTOS-Pharma

Curing incurable and metastatic cancers

Founded in 2018, HEPHAISTOS-Pharma has developed a treatment called ONCO-Boost that stimulates patients' innate immune systems to enable the treatment of so-called "cold" tumours that do not respond to conventional treatments. Today, the response rate is only 10% because the antibodies primarily target the adaptive immune system. ONCO-Boost can work alone or in combination with available immunotherapies, raising their effectiveness to unprecedented levels and offering the possibility of treating new incurable indications. Administered intravenously, ONCO-Boost is the first immune booster to have proven effective on metastatic cancers.

Martine Caroff, a former CNRS senior researcher, is the co-founder and scientific director of HEPHAISTOS-Pharma. For more than 30 years, she headed a research team on TLR4 agonists at the IGM (Institute of Genetics and Microbiology, CNRS / Paris-Saclay University) before patenting her invention and launching two biotech companies. HEPHAISTOS-Pharma has received support from the SATT Pulsalys. In particular, the start-up has worked with the Lyon Cancer Research Centre (Centre anticancéreux Léon Bérard / CNRS / Inserm / Université Lyon 1 Claude Bernard).



© Romina D'ANGELO / SigDYN / CRCT / IUCT-O / CNRS Images



[HEPHAISTOS-PHARMA.COM](https://www.hephaistos-pharma.com)



Tafalgie Therapeutics

Developing a new generation of painkillers as an alternative to opioids



© sebastienboudot.com / Tafalgie Therapeutics

Founded in 2020, Tafalgie Therapeutics specialises in research and innovation in the field of pain medications. It has developed the first treatment capable of relieving and preventing the onset of acute and chronic pain (inflammatory, post-operative, neuropathic) without addiction or dependency, and with very good safety in use. Its technology is intended to treat all types of pain effectively based on a mode of action fundamentally different from those of current painkillers.

This new class of therapeutic drugs is the result of research conducted by the neuroscientist Dr. Aziz Moqrich, a CNRS senior research and European Research Council laureate, at the Marseille Developmental Biology Institute (CNRS / Aix Marseille University). Expanding on his work, Tafalgie Therapeutics has achieved impressive preclinical results discussed in papers that have appeared in respected scientific journals.

The start-up benefits from the expertise of a distinguished scientific committee whose members include Prof. Ardem Patapoutian (co-winner of the 2021 Nobel Prize in Medicine), and is one of the very few companies to be awarded the prestigious EIC (European Innovation Council) grant in 2023.

During its launch, the start-up received support from the SATT Sud-Est.

→ TAFALGIE.FR

Vect-Horus

Enabling the delivery of drugs to the central nervous system for the treatment of incurable diseases

Using the VECTrans technological platform, VECT-HORUS develops “vector” molecules that enable the non-invasive delivery of medicinal drugs to the central nervous system (brain, spinal cord, retina) as part of the treatment of incurable diseases. Specifically, when combined with imaging agents or medications, these vectors enable systemic delivery and can cross the blood-brain barrier. Their versatility allows them to be combined with various classes of drugs, such as anticancer agents, antibodies, therapeutic peptides and even oligonucleotides, a new class of drugs that promises to revolutionise the treatment of many diseases in the decades to come. The VECTrans platform not only makes it possible to deliver oligonucleotides to the brain, other target organs or tumours, but it also allows them to penetrate cells, a necessary condition for their effectiveness.

Founded in 2005, Vect-Horus is a spin-off of the Institute of NeuroPhysiopathology (CNRS / Aix-Marseille University), formerly headed by the researcher Michel Khrestchatisky (CNRS), co-founder of the company.

Vect-Horus has received support from the SATT Sud-Est.



© Vect-Horus

The “border” between the bloodstream and the nervous system, which protects the brain against pathogens, toxins and hormones circulating in the bloodstream.

→ VECT-HORUS.COM

THE HEALTHCARE SECTOR IN FIGURES

More than
400
laboratories involving
CNRS and its partners

More than
5000
scientific staff members

More than
200
patents per year since
2018

→ [Watch the video “Innovating for Health”](#)



© Hubert RAGUET / LECA / CNRS Images

Sustainable development

Over the years, CNRS has established itself as a driving force in the field of sustainable development. This year, three start-ups will present their groundbreaking innovations conceived to help reduce reliance on microplastics and pesticides, and to manage complex wastes containing so-called critical metals, whose recycling is an ever-greater necessity.



© Lactips

→ [LACTIPS.COM](https://www.lactips.com)

Lactips

Offering natural solutions to combat microplastic pollution



The French industrial start-up Lactips has developed an innovative protein-based thermoplastic material made from 100% natural ingredients with no chemical transformation. The only such material that biodegrades in a few days, leaving no microplastic residue whatsoever in any type of medium (including marine environments), it is also water soluble even at temperatures of 10-15°C. A genuine breakthrough innovation for meeting the ecological challenges of today and tomorrow, this new material will help manufacturers reach their circular economy goals.

This technology originated from research conducted by Frédéric Prochazka at the Polymer Materials Engineering laboratory (CNRS / INSA Lyon / Claude Bernard University Lyon 1 / Jean Monnet University, Saint-Etienne).

Lactips has received support from the SATT Pulsalys.

TO FIND OUT MORE



© Thibaut VERGOZ/CNRS Images

As part of its contribution to the ecological and societal transitions, CNRS develops innovative technologies and processes that make it possible to use resources while protecting the environment and natural reserves.

Learn more about this topic from the chemical engineer **Claude Grison**, CNRS senior researcher, director of the **Bio-inspired Chemistry and Ecological Innovations Laboratory (CNRS)** and co-founder of start-ups including **Bio Inspir'**, winner of the 2022 European Inventor Award.

→ [Watch the video "Innovating for sustainable development"](#)

Mecaware

Recycling critical metal wastes and end-of-life batteries

The technology developed by Mecaware is a breakthrough chemical process for recycling electric vehicle batteries. Its application makes it possible to extract so-called critical metals with a compact process that differs from conventional hydrometallurgy in that it uses no solvents, allows all of the material to be recycled and consumes little energy. Based on CO₂ capture, it is the only technology of its kind in the world and addresses two environmental problems: reducing the quantity of CO₂ in the atmosphere and recycling strategic materials that are not easily accessible but needed for the energy transition.

Covered by four patents, Mecaware's process was honoured in 2020 by the American Chemical Society as well as the journal Nature Chemistry.

This technology originated from the research conducted by Julien Leclaire at the ICBMS (Institute of Molecular and Supramolecular Chemistry and Biochemistry, CNRS / Claude Bernard University Lyon 1 / INSA Lyon).



© Antoine de la Chapelle

→ MECAWARE.COM

Naïo Technologies

Agricultural and viticultural robots to alleviate the labour shortage and reduce the use of weedkillers

Founded in Toulouse in 2011, Naïo Technologies develops 100% electric robotic solutions for agriculture, working in close collaboration with farmers and winegrowers. Its human- and environment-friendly weeding robots make it possible to alleviate the labour shortage in the sector while reducing the strenuousness of certain agricultural tasks and limiting reliance on chemical inputs. In 2024 Naïo Technologies launched the only CE-certified safety system that enables totally autonomous use. The start-up is committed to promoting a healthier food supply for all using more eco-friendly agricultural production methods. Today Naïo Technologies has more than 300 agricultural robots in operation in more than 25 countries.

In 2016 Naïo Technologies benefited from a collaboration with the LAAS (Systems Analysis and Architecture Laboratory, CNRS) for the development of one of their models



© Naïo Technologies

→ NAIO-TECHNOLOGIES.COM



© Frédéric MALIGNE / LAPLACE / CNRS Images

Aerospace

In addition to providing a better understanding of the origins and evolution of the universe, the study of space and the resulting technological progress have had a considerable impact on the documentation of our planet. This year CNRS proposes to examine two technical challenges related to aerospace research: the observation of Earth's interactions with other celestial objects and the environmental impact induced by the development of technologies powerful enough to penetrate the atmospheric barrier.

Aldoria

Monitoring and protecting outer space

Aldoria specialises in the market for space situational awareness. Its orbital information system is an innovation in the field of space surveillance and the management of objects in orbit, with the primary aim of limiting the risk of collision. Observation stations (MTOS) equipped with patented telescopes are strategically positioned around the world to gather high-quality data for use by commercial operators.

The system integrates information from various sources to provide a comprehensive understanding of the space environment in near real time. Based on state-of-the-art technology and a multi-data approach, the Aldoria system contributes to the responsible, sustainable use of outer space.

This technology is the result of Romain Lucken's research at the Plasma Physics Laboratory (CNRS/Ecole Polytechnique). Aldoria has benefited from the support of SATT Paris-Saclay.

ALDORIA



© Aldoria



[ALDORIA.COM](https://www.aldoria.com)

"MTOS" space surveillance station in Spain.

ION-X

Optimising the propulsion of small satellites while reducing their ecological impact

With its patented electro-spray technology, ION-X's ion-liquid thruster is a breakthrough innovation in the propulsion of small satellites weighing between 10 and 150 kilograms. Operating on the principles of electrohydrodynamics (EHD), this innovative system generates thrust by ejecting ions at extremely high speeds, achieving unrivalled performances in terms of endurance and fuel consumption. This innovative thruster can be adapted to a wide range of missions and applications in low Earth orbit.



© ION-X - C2N — CNRS

→ [ION-X.SPACE](#)

ION-X's technology was developed and patented by Jacques Giérak, a research engineer at the Centre for Nanosciences and Nanotechnologies (CNRS / Paris Saclay University), as the result of a multi-year collaboration with the CNES (National Centre for Space Studies). A world-renowned specialist in ion sources, Giérak was awarded the CNRS Innovation Medal in 2023.

In 2021 Giérak co-founded ION-X in partnership with the start-up studio Technofounders. Today the company employs more than 15 engineers full-time and is preparing for its thruster's first test flight in October of this year.



© Thibaut VERGOZ / IRAM / CNRS Images

THE CNRS SPACE DIVISION IN FIGURES

More than
600
teams in
180
research laboratories

26
start-ups stemming from
laboratories under the
CNRS administrative
supervision

More than
15
joint CNRS-company
laboratories

→ [Find out more about space research at the CNRS](#)



© Cyril FRESILLON / CC IN2P3 / CNRS Images

The digital revolution

At once a data storage and analysis solution, a production tool and a communication channel, digital technology has in just a few decades become an omnipresent everyday reality. Ongoing research in this field continues to revolutionise our daily lives. At the CNRS stand, two start-ups will present their technologies concerning the mass application potential of quantum computing and the problems of storage and environmental impact posed by the colossal quantities of data being produced every second.

Biomemory

Tackling the challenge of the data explosion with eco-friendly technology

A company at the crossroads of biotechnology and computer science, Biomemory offers a DNA digital data storage solution. Called the DNA Card, it addresses the problems that will arise in the coming decades due to the capacity limits of conventional storage methods. Currently, only 30% of the information produced is storable, a figure that could drop to 3% by 2030 as conventional methods reach their limits. Biomemory's DNA storage system is compatible with current data centre infrastructures and can archive up to an exabyte of data with minimal environmental impact.

Biomemory was founded in 2021 by Stéphane Lemaire (CNRS) and Pierre Crozet (Sorbonne University), researchers at the Laboratory of Computational and Quantitative Biology (LCQB, CNRS / Sorbonne University).

BIOMEMORY
Sustainable Storage Solutions



© Biomemory

→ [BIOMEMORY.COM](https://www.biomemory.com)

The Biomemory DNA card can store 1 kB of data for a minimum of 150 years.

Did you know?

In 2020, the world population produced 45 zettabytes (one sextillion bytes) of digital data. This volume is expected to reach 175 ZB by 2025. As the mass of data continues to grow exponentially, present-day storage media (optical, magnetic tapes and hard disks) seem to have reached their limits: they are fragile, with a life expectancy of 5 to 7 years; the energy-hungry data centres that now house them consume nearly 2% of the world's electrical production; lastly, these large-scale infrastructures require an ever-greater amount of space, currently occupying 167 square kilometres (104 square miles) worldwide.

By 2025, the volume of data produced will reach

175

zettabytes
(one thousand billion billion bytes)



QPerfect

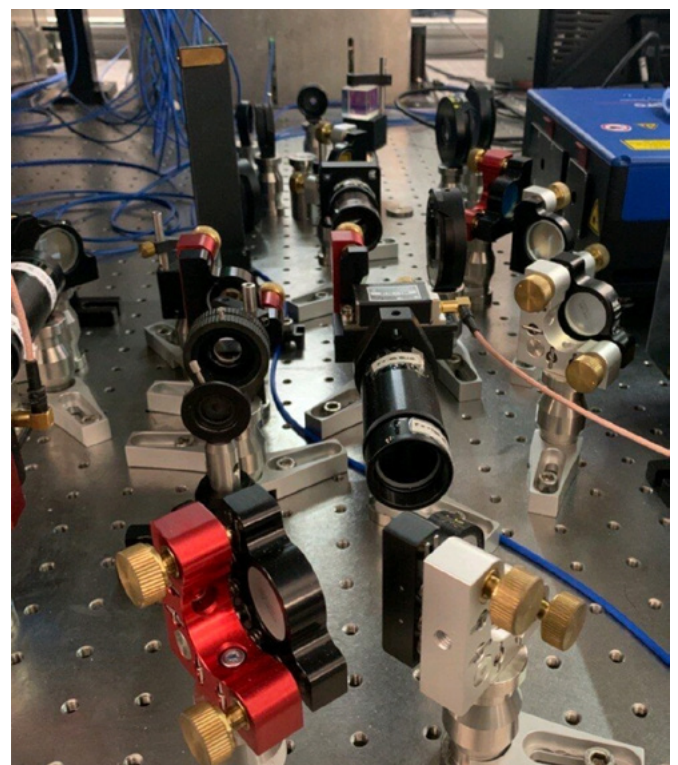
Facilitating and accelerating the design of quantum computers and application software

The solution offered by QPerfect makes it possible to simulate a quantum computer with unparalleled performance: up to several thousand qubits (the smallest quantum information storage unit) with greater reliability than all existing quantum computers. Called MIMIQ, this tool allows hardware manufacturers and software developers to test and optimise their quantum platforms and applications. It can be accessed through a simple Internet connection from a conventional desktop computer, allowing anyone and everyone to join the quantum revolution.

Co-founded by the CNRS researcher Johannes Schachenmayer, Dr. Guido Masella, and the University of Strasbourg professors Shannon Whitlock and Guido Pupillo, QPerfect is a spin-off of the Strasbourg-based European Center for Quantum Sciences, in the heart of Europe.

The Alsatian start-up was awarded the Grand Prize in the 2023 I-Lab Innovation Competition.

→ [QPERFECT.IO](https://qperfect.io)



© QPerfect

TO FIND OUT MORE



© Jérôme CHATIN/CNRS Images

As quantum physics spawns unprecedented technological advances destined to revolutionise our daily lives, CNRS is taking action to keep France at the forefront of the global competition.

Learn more about this topic from the physicist Alain Aspect, Nobel Prize in Physics 2022, CNRS senior researcher emeritus and professor at the Institut d'Optique Graduate School / Paris-Saclay University.

→ [Watch the video "Innovating for quantum technologies"](#)



© CNRS / David Pell

Talks programme

The first three days of the fair will be enlivened by a rich programme of roundtable discussions, bringing together CNRS researchers and representatives of the innovation ecosystem.

WEDNESDAY, MAY 22

Generative AI and innovation: always a winning combination?

Generative AI is a concrete innovation that is permeating modern-day society, radically changing the way people live and work. A tangible illustration of basic research, the Jean Zay supercomputer is the focus of attention, participating in the development of generative AI. But are we innovating more and better with AI? A panel of experts addresses the question.

11:00-11:45 am

Speakers :

- Adeline Nazarenko, CNRS Computer Sciences director
- Christophe Cerisara, CNRS researcher at the Lorraine Research Laboratory in Computer Science and its Applications
- Romuald Elie, artificial intelligence research team leader at Google Deepmind

Profit and societal impact: what is the best technology transfer model for free software?

Academic research produces a great many software programmes whose dissemination could prove beneficial far beyond the confines of the laboratories. Free software? Open source? The possible technology transfer strategies are numerous, but run counter to common practice.

2:00-2:45 pm

Speakers :

- Isabelle Blanc, ministerial administrator of data, algorithms and source codes, French Ministry of Higher Education and Research
- Alexandre Zapolsky, president of Linagora
- Pierre-Henri Wuillemin, lecturer and researcher in artificial intelligence, decision mathematics and data science at LIP6¹ (CNRS / Paris-Sorbonne University)
- Mehdi Gmar, CEO of CNRS Innovation

¹ Computer science research institute dedicated to the modeling and the resolution of fundamental problems driven by applications.

FOCUS SPEAKER



© Caroline SCHNEIDER / ISIS / CNRS Images

Pr Thomas Ebbesen, 2019 CNRS Gold Medallist

Winner of the 2019 CNRS Gold Medal, Thomas Ebbesen is a physical chemist and the director of the University of Strasbourg Institute for Advanced Study. His work in the highly interdisciplinary field of nanoscience encompasses scientific fields as diverse as carbon materials, optics, quantum electrodynamics and molecular chemistry. His discoveries have led to technological breakthroughs in optoelectronics and biosensors, as well as a new and unprecedented approach to controlling the properties of matter through quantum fluctuations in space-time.

He will contribute his expertise to the roundtable entitled “High-risk research and disruptive innovation: when basic research causes upheaval” at 3:30 pm.

→ [Watch the video “Thomas Ebbesen | Médaille d’or 2019 | Talents CNRS”](#)

High-risk research and disruptive innovation: when basic research causes upheaval

CNRS conducts basic research, occupying a position very far upstream in the innovation chain. Its teams explore subjects that have the potential to expand current knowledge and revolutionise future societies. This talk offers insights from experts who are shaping the world of tomorrow — and the day after.

3:30-4:15 pm

Speakers :

- Stéphane Lemaire, CNRS researcher, scientific director and co-founder of Biomemory
- Guido Masella, co-founder and CTO of QPerfect
- Pr Thomas Ebbesen, lecturer and researcher at the University of Strasbourg, director of the University of Strasbourg Institute for Advanced Study, winner of the 2019 CNRS Gold Medal
- Michel de Lempdes, president of France DeepTech

Public research, a breeding ground for innovations in therapeutic healthcare

France is Europe’s third most innovative country in the fight against cancer (2024 EPO study). In the past decade, many of the ever-increasing number of patent submissions by French applicants arose from new developments in immunotherapy and targeted therapy. An overview...

5:00-5:45 pm

Speakers :

- Martine Caroff, CNRS senior researcher emeritus, co-founder and R&D director of Héphaïstos-Pharma
- Jean-Manuel Péan, R&D Director of Vect-Horus
- Franck Lethimonnier, director of the INSERM Health Technologies Institute, co-director of the PEPR Biotherapies and Bioproduction of Innovative Therapies
- Siau Bai, Early Innovation Partnering director, Johnson & Johnson

FOCUS SPEAKER



©Villanova University

Sylvie Lorente, member of the Scientific Board of the European Research Council

Sylvie Lorente is an engineer known for her research in thermodynamics and fluid mechanics of porous media, especially her work on the constructal theory of flows and the evolution of complex systems.

Recognised worldwide for her expertise, she has been a member of the Academia Europea since 2019 and of the ERC (European Research Council) Scientific Board since 2022.

She will speak at the roundtable “The European Union: boosting innovation originating from public research” on Thursday, May 23, at 5:00 pm.

THURSDAY, MAY 23

From the laboratory to the factory: the challenges of scaling up?

What is the best way to meet the challenges of scaling up? Financing, skills, real estate... What are the leverage points and pitfalls encountered by deeptech start-ups during the transition from the lab to the factory?

2:00-2:45 pm

Speakers :

- Arnaud Villers d'Arbouet, founding partner and CEO of Mecaware
- Guy Chichignoud, technical director of ROSI
- Massis Sirapian, director of the New Frontiers Division, General Secretariat for Investment (French Ministry of Higher Education and Research)
- Vincent Lamande, president of the SATT Ouest Valorisation

Derisking technology: a look back at ten years of CNRS support for deeptech projects

CNRS is celebrating the tenth anniversary of its Prematuration Programme, which provides funding and support for emerging projects with high innovation potential in their early stages of technological development. Its backing is essential for derisking innovation projects originating from public research.

3:30-4:15 pm

Speakers :

- Carlos Drummond, CNRS senior researcher and co-founder of Carbon Waters
- Cyrile Deranlot, president of Daumet
- Thomas Hiriart, CEO of Ion-X
- Yves Matton, co-founder and CEO of Technofounders

 *In English*

The European Union: boosting innovation originating from public research?

How does the European Union sustain a dynamic for fostering innovation originating from public research? A panel of entrepreneurs who have benefited from European Union funding share their experience.

5:00-5:45 pm

Speakers :

- Alain Mermet, director of the CNRS Europe and International Department
- Sylvie Lorente, professor-researcher in mechanical engineering at the National Institute of Applied Sciences of Toulouse
- Amanda Silva Brun, CNRS researcher at the Matter and Complex Systems Laboratory, winner of the 2021 CNRS Innovation Medal
- Dafiné Ravelosona, CNRS researcher at the Centre for Nanosciences and Nanotechnologies and co-founder of Spin-Ion Technologies

FOCUS SPEAKER

**Amanda Silva Brun, 2021 CNRS Innovation Medal**

With a double doctorate in pharmacy and biology, Amanda Silva Brun is specialised in the design of technologies for the production and engineering of extracellular vesicles (EVs) for applications in regenerative medicine.

In 2019 and 2020, she and her colleagues co-founded the two start-ups EverZom, dedicated to vesicle production, which is preparing to raise its second round of funding and is racking up awards and distinctions, and Evora, which focuses on the treatment of fistulas and is looking for investors with a view to preparing human clinical trials.

She will be contributing her expertise to the round table discussion on “The European Union: boosting innovation originating from public research?” on Thursday 23 May at 5:00 pm.

→ [Visionner la vidéo “Amanda Silva Brun | Talents CNRS”](#)

Public research as a driver of innovation in defence and security

Public research is a rich source of solutions for meeting our country’s defence and security needs. AI, cybersecurity, quantum technologies, healthcare... This talk offers an overview of innovations that originated in public research by CNRS and its partners.

2:00-2:45 pm

Speakers :

- Emmanuel Gardinetti, head of the Defence Expertise and Technologies Department, in charge of innovation at the Defence Innovation Agency
- Léo Lefebvre, product manager of Aldoria
- Pr Christophe Gaquiere, CEO and co-founder of MC2 technologies
- Alain Foucaran, professor-researcher at the University of Montpellier and deputy scientific director at CNRS Engineering, scientific coordinator of the framework agreement between CNRS and the Defence Innovation Agency

The choice of indicators for reconciling innovation and societal impact?

With economic profitability remaining the primary indicator on the market, how can we stimulate, support and evaluate innovations that have a positive social, societal or environmental impact? CNRS is actively involved in this area, and is launching its first call for proposals dedicated to societal innovation.

3:30-4:15 pm

Speakers :

- Jean-Luc Moullet, CNRS Deputy CEO for Innovation
- Aziz Moqrich, CNRS researcher and referent researcher at Tafalgie Therapeutics
- Amaury Hayat, researcher and professor at l’Ecole des Ponts ParisTech
- Olivier Palluault, co-founder and managing partner of Ellyx

Research and innovation as a driver for the environmental transition

The French government has entrusted CNRS with managing the Climate, Biodiversity and Sustainable Societies programme agency. In keeping with the institution’s commitments to serving society, many companies that originated in its laboratories are engaged in activities connected to the environmental transition. How can we further this dynamic?

5:00-5:45 pm

Speakers :

- Thomas Beaulaton, business developer at Naïo Technologies
- Frédéric Prochazka, referent researcher at Lactips
- Eric Marty, associate manager of Demeter
- Elsa Cortijo, executive director of the Climate, Biodiversity and Sustainable Societies programme agency

FOCUS SPEAKER



© Frédérique PLAS / CNRS Images

Jean-Luc Moullet, CNRS Deputy CEO for Innovation

Jean-Luc Moullet is Deputy CEO for Innovation at CNRS. Working alongside the President, the Innovation Department is responsible for the institution’s research and development policy. In this role, he coordinates the work of the Department of Relations with Companies, the national research and development subsidiary CNRS Innovation and the network of partnership and research and development departments. More broadly, it relies on all CNRS entities involved in the technology transfer process.

He will be taking part in the round table discussion “What indicators are needed to reconcile innovation and societal impact?” on Friday 24 May at 3.30pm.

Pitch session

FRENCH DEEPTECH to boost the AI revolution, powered by SATT & CNRS



A pitch session co-hosted with the SATT network will be held on Wednesday, May 22, from 2:45 to 3:55 pm at the PITCH STUDIO, a 100-seat auditorium in Hall 1, next to Startup Alley.

Eight start-ups seeking investors will participate. All are **AI innovation** specialists originating from CNRS-supervised laboratories and supported by a SATT.

These seed-stage start-ups are developing disruptive solutions based on cutting-edge technologies. Their ambition is to reinvent their application markets, by offering a highly differentiating advantage and presenting concrete prospects for industrialisation and commercialisation.

In just five minutes, the start-ups' representatives will be judged on the relevance of their technology in terms of AI-related issues, their prospects for economic development, their work teams' skills, the technological intensity of their innovation and the quality of their pitch.



Dextrain (SATT Erganeo) : Thanks to AI and its HomeRehab, Dextrain aims to provide intensive, personalised dexterity re-education in an autonomous home environment.



EMVISTA (SATT AxLR) : Emvista develops software building blocks for understanding natural language. The artificial intelligence technologies used are based on detailed linguistic and ontological knowledge.



ePhantom (SATT Ouest Valorisation) : ePhantom offers a revolutionary technology that meets the needs of the 5G/xG wireless industry, with a secure investment and positive impact worldwide.



HEPHIA (SATT Erganeo) : The SafeSphere by HephIA platform integrates generative AI to optimise litigation by automating repetitive tasks and enriching legal strategies, while guaranteeing data confidentiality with a privacy-by-design approach.



Muodim (SATT Pulsalys) : Muodim facilitates decision-making by probing installations and infrastructures using muography, a new non-destructive testing method.



Pyannote AI (SATT Toulouse Tech Transfer) : With Whisper, OpenAI has launched a cutting-edge transcription tool that makes the transcription of a conversation intelligible: identifying «who's talking when».



Safehear (SATT Pulsalys) : Safehear is a start-up that designs communicating hearing protection for industrial professionals.



Stellia.ai (SATT Paris-Saclay) : Stellia is an AI capable of teaching, asking and answering students' questions, and personalising learning according to each student's profile.

OUR PARTNERS

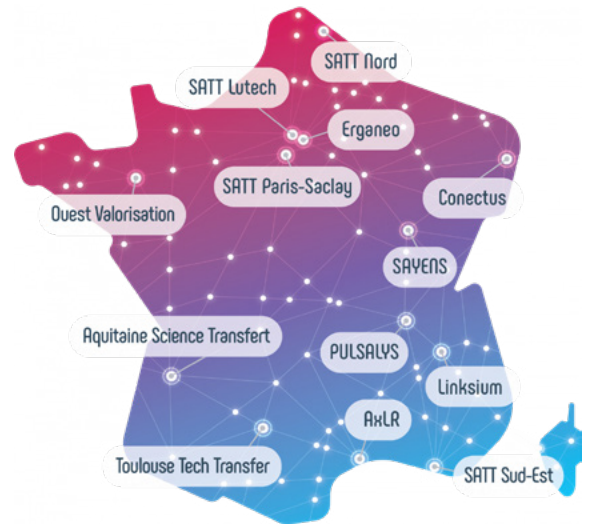
The **SATT Network**, a key partner of the CNRS in its mission to commercialise research results, and **CNRS Formation Entreprises**, the CNRS’s continuing education body, will also be present on the stand.

The SATT Network

The **SATT Network** unites 13 “Sociétés d’Accélération du Transfert de Technologies” (Technology Transfer Acceleration Companies), all based in France with CNRS as a shareholder.

Committed to addressing environmental, economic and social problems through scientific innovation originating from public research, the SATTs offer companies “derisked” high-potential technological solutions, boosting their competitive capacity and facilitating the transformations that are needed to meet the key challenges of today.

→ [SATT.FR](https://satt.fr)



CNRS Formation Entreprises

CNRS Formation Entreprises offers support programmes for technicians, engineers, executives, managers and directors.

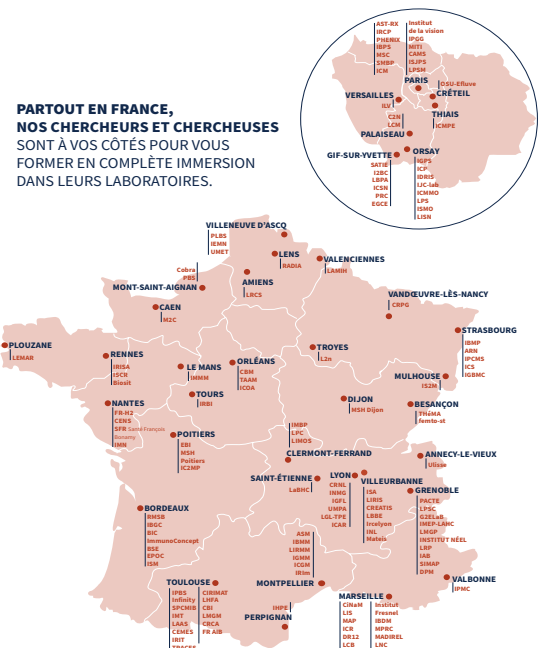
In all, there are more than 250 training courses on offer to:

- improve their skills by acquiring new competencies,
- update their practices, strengthen their expertise.
- reveal and enhance their knowledge,
- adapt to changes in the market,
- anticipate changes within their organisation,
- remove technological barriers,
- evolve within their organisation.

CNRS promotes research results through continuing education

These programmes offer privileged access to the recognised excellence of CNRS research laboratories. They are based on a teaching method that encourages experimentation, role-playing and interactivity, thus guaranteeing optimum understanding of the knowledge covered in more than 250 training courses, all based on the scientific work of the CNRS.

→ [CNRSFORMATION.CNRS.FR](https://cnrsformation.cnrs.fr)



The CNRS on other stands

Other start-ups laboratories under CNRS administrative supervision will be exhibiting on other stands at Vivatech 2024.

BANKING / FINANCE / INSURANCE / LEGAL

EMVISTA

Wednesday-Thursday-Friday
Booth H22-011
Région Occitanie - AD'OCC

Emvista saves its customers time by rethinking Natural Language Processing, the discipline of artificial intelligence dedicated to text understanding. Its teams of researchers and engineers design products to help humans cope with the influx of information and transform it into value.

CYBERSECURITY / DEFENSE

PRELIGENS

(EX-EARTHCUBE)

Wednesday-Thursday
Booth D33-013

PRELIGENS develops software using artificial intelligence to automatically analyse massive data from a variety of sources, including satellite and infrared images, electromagnetic streams, social network feeds and the press. This software alerts intelligence agents as soon as an abnormal situation is detected on a site of strategic interest.

ENERGY

ALTRANS ENERGIES

Wednesday
Booth J01-006

Altrans Energies aims to offer solutions for the continuous, real-time monitoring of electricity networks. These solutions enable faults such as partial discharges to be detected and located efficiently, using a grid of sensors without synchronisation and advanced signal processing.

BEFC

Wednesday-Thursday
Friday-Saturday
Booth O06-009

Friday-Saturday
Booth J53-007
CIC

BeFC produces electricity from paper and enzymes. The company's paper biofuel cells use enzymes to convert sugars and oxygen into electricity for the next generation of ultra-low energy electronic devices. BeFC technology is metal-free, which means that biofuel cells are entirely organic, simplifying disposal and recycling at the end of their life. Combined with low-cost, low-environmental-impact digital tags, BeFC technology enables data to be used without the drawbacks usually associated with a battery.

FRACTAL ENERGY

Wednesday-Thursday
Booth D37-033
Région Centre-Val de Loire

Fractal Energy is a French company working to combat fuel poverty and climate change. Their aim is to contribute to the necessary energy transition by helping every household and citizen concerned to get involved in optimising their consumption of renewable electricity and thus reduce their electricity bill and carbon footprint.

SEREEMA

Wednesday-Thursday
Booth D40-005
TotalEnergies

Sereema provides wind farm owners, operators and asset managers with factual and accurate results to challenge the performance and maintenance of their wind farms. Optimising performance through connected objects, IoT.

FOOD

BON VIVANT

Wednesday-Thursday
Friday-Saturday
Booth K24-007
Région Auvergne-Rhône-Alpes

Bon Vivant is a start-up that is rethinking the way dairy products are produced, while preserving their quality and taste, through fermentation and without the use of animals.

EVERFLY

Wednesday-Thursday
Booth D37-024
Région Centre-Val de Loire

Everfly converts organic waste into feed for black soldier fly (BSF) larvae, producing protein-rich ingredients for animal feed. The remaining bioconversion material is then used as organic fertiliser for local farms. As conventional sources of protein for animal feed dwindle due to increasing demand and environmental constraints, EVERFLY is harnessing its expertise in insect physiology and its ability to slave robotic systems to intelligent sensors to achieve higher bioconversion rates and more efficient farming practices, all within the framework of a circular economy.

HEALTH

AQEMIA

Wednesday-Thursday
Friday-Saturday
Booth J24-010

Aqemia combines quantum-inspired machine learning and statistical mechanics algorithms, developed over 8 years of fundamental research, to generate better, more innovative leads for a given target.

BRAINTALE

Thursday
Booth J01-009

Braintale develops and distributes diagnostic and prognostic tools for brain-damaged patients.
The new version of its CE-marked digital biomarker platform.

QAIRNEL (EX-SWITCH)

Friday
Booth D11-036

QAIRNEL is building the world's first digital clinics for neurocognitive disorders. They are leveraging technology solutions such as telemedicine, digital biomarkers, digital therapeutics and artificial intelligence, in collaboration with local healthcare professionals, to deliver evidence-based, patient-centred and personalised care.

INDUSTRY

AMIRAL TECHNOLOGIES

Wednesday-Thursday
Friday-Saturday
Booth S04-004

Amiral Technologies has developed Diagfit, a blind-mode industrial equipment failure prediction software. The software builds a predictive model from healthy equipment data. It can then detect any departure from 'normality' without the need for a prior history of breakdowns. This unsupervised approach means the solution can be implemented quickly.

ASTRIIS

Wednesday-Thursday
Friday-Saturday
Booth D39-036
Crédit Agricole

ASTRIIS develops and markets AStrion, a fully automated predictive maintenance software package for industrial equipment. AStrion automatically detects a greater number of breakdowns, up to 9 months in advance, and identifies their origin among the equipment monitored. Currently applied to the monitoring of rotating machinery, this software solution is based on spectral analysis and advanced signal processing methods, with no need for historical data.

MOÏZ

Thursday
Booth D17-020
Groupe SNCF

The autonomous sensors proposed by MOÏZ use the thermoelectric effect, and more specifically the Seebeck effect, to convert the thermal energy present in their environment into the electrical energy needed to power them.

INFORMATION TECHNOLOGIES

ALICE & BOB

Friday-Saturday
Booth L12-007
HQI

Wednesday-Thursday
Friday-Saturday
Booth J33-010
Région Île-de-France

The unique self-correcting superconducting quantum bit technology, the cat qubit, paves the way for universal, error-resistant quantum computing. We are currently developing our first logical cat qubit. We will then use a modular approach to scale up.

HAWAI.TECH

Wednesday-Thursday
Booth D33-015

HawAI.tech (Hardware for AI) designs hardware accelerators to provide explainable, responsible and transparent artificial intelligence (AI).

It is a pioneering company that develops computer architectures that make the use of probabilistic models possible and competitive. Their accelerators focus on edge computing use cases to enable efficient computing close to the sensor.

NCODIN

Friday
Booth B56-006
Université Paris-Saclay

The NCODIN project aims to create nanophotonic solutions for data exchange and processing within integrated circuits. The technology used is based on the exploitation of revolutionary optoelectronic components which, thanks to their extremely small size, make it possible to create optical links and key functionalities such as neurons and ultra-fast optical memories, while drastically reducing energy consumption.

PATHWAY (EX-NAVALGO)

Wednesday-Thursday
Friday-Saturday
Booth K28-006

Pathway is a data processing framework that manages streaming data in a way that is easily accessible to Python and AI developers. Pathway initially addresses a major challenge in the logistics sector: the lack of software infrastructure capable of performing automated reasoning on real-time data streams. Pathway technology reduces latency - or the time spent waiting for results - by a factor of up to 90 times faster than solutions on the market today, while reducing cloud-related expenses.

QUOBLY (EX-SIQUANCE)

Wednesday
Booth J01-008

Quobly is developing and marketing the first quantum computer capable of reaching 1 million qubits, based on microelectronics technologies. The start-up exploits both the physical properties of silicon to produce high-quality quantum bits and the microelectronics technologies that produce chips containing billions of transistors for everyday computers and smartphones.

Making a quantum computer whose qubits will be encoded on the spin of an electron trapped inside a quantum box, a nanostructure acting as a potential well, all on a silicon substrate.

RUNBLIND

Wednesday
Booth J01-005

Thanks to its patented 3D dynamic sound technology for guidance, RunBlind replaces voice instructions in navigation applications with any kind of music.

The sound is positioned spatially in the direction to be followed, and indicates the path to be taken.

Thanks to its dynamic 3D sound technology, RunBlind can replace the audio guidance of any navigation application.

MEDIA / ENTERTAINMENT / CULTURE

SCIFUNGAMES

Friday-Saturday
Booth C44-008
Institut Polytechnique
de Paris

The company's aim is to bring science to as many people as possible through video games. It began with Reveal, a platform and puzzle game incorporating the principles of particle physics.

MOBILITY / TRANSPORTATION

AMPHITRITE

Wednesday-Thursday
Booth C44-027
Institut Polytechnique
de Paris

Amphitrite produces innovative, reliable and accurate ocean data needed to make the right decisions at sea. Data from operational ocean models, which are used for many maritime operations, have many uncertainties that complicate decision-making at sea.

SKYTED

Friday-Saturday
Booth D17-015
Groupe SNCF

Thursday
Booth B56-003
Université Paris-Saclay

SKYTED has designed a new headset offering a «bubble of silence» for confidential and silent calls.

A new mask concept with a sound absorber for silent, secure calls in public. From 1 to 200 passengers at the same time in the same place.

Wednesday-Thursday-Friday
Booth H22-007
Région Occitanie - AD'OCC

SMART CITY / BUILDING

MOLLUSCAN-EYE

Wednesday-Thursday
Booth B18-021
Région Nouvelle-Aquitaine

Molluscan-Eye is developing a unique warning system based on oysters (or other bivalve molluscs) as sentinels, offering exceptional responsiveness and accuracy compared with traditional physico-chemical analyses. This key innovation in environmental protection enables industries and institutions to continuously monitor the impact of their activities on aquatic environments.

SOFTWARE DEVELOPMENT / CLOUD

ATOPTIMA

Friday
Booth B18-035
Région Nouvelle-Aquitaine

Atoptima is a decision-support software publisher offering cutting-edge mathematical optimisation solutions to all companies with planning and resource allocation issues. The company designs and develops custom optimisation modules for planning and routing applications. Our services range from expert consultancy on optimisation intelligence to bespoke software products.

COSMIAN

Friday
Booth J37-018
La Poste Groupe

Cosmian makes it possible to encrypt data anywhere, anytime. Its data protection solution is based on cutting-edge cryptographic tools that open up new horizons for the use of sensitive data: post-quantum encryption, confidential AI, confidential computing, encrypted data access policies, modern key management, searchable encryption.

DIAGRAMS TECHNOLOGIES

Wednesday-Thursday
Friday-Saturday
Booth L27-008

DiagRAMS Technologies offers a software solution that enables manufacturers to start their predictive maintenance project by making the most of the data already available. Its solution for monitoring all industrial equipment can anticipate breakdowns and malfunctions, even the most discrete ones, thanks to its proprietary artificial intelligence algorithms dedicated to industrial data.

ENTROVIEW

Wednesday
Booth L18-018
Institut Mines-Télécom (IMT)

The technology proposed by Entreview aims to reduce cell production costs by up to 10% using their entropy-based software. In addition to estimating the battery's electrical parameters, the technology developed can also be used to estimate its thermodynamic parameters.

LIGHTON

Wednesday-Thursday
Friday-Saturday
Booth J33-011
Région Île-de-France

LightOn offers tailor-made and effective generative AI solutions to large companies and public institutions, easily integrated into their infrastructure while guaranteeing data confidentiality. Among other things, their flagship model, Alfred, is distinguished by its linguistic capabilities, which offer the advantage of supporting the main European languages.

MOLECULAR SIMULATION FOR ALL (MS4ALL)

Wednesday-Thursday
Booth D37-022
Région Île-de-France

MS4ALL offers a calculation method for modelling and predicting the characteristics of certain materials, avoiding the need for long and costly incremental experimental steps.

NUMALIS

Thursday
Booth J37-010
La Poste Groupe

Friday
Booth D17-018
Groupe SNCF

Numalis is an SME with expertise in software validation that markets design support tools. It was founded in 2015 by two researchers: Arnault Ioualalen, Matthieu Martel, and an engineer: Nicolas Normand. It focuses on industrialising the research work originally carried out by Arnault Ioualalen and Matthieu Martel. Based on its initial know-how, Numalis has gradually developed the first tools for the formal validation of neural networks.

SUPERCONNECTR

Wednesday-Thursday
Friday-Saturday
Booth K04-001

SuperConnectR has developed a networking application for professional use: clusters, competitiveness clusters, business clubs, partner communities, support networks, alumni, etc.

OTHER

ACTRONIKA

Wednesday-Thursday
Friday-Saturday
Booth D49-001
CCI Paris Île-de-France

Actronika has developed haptic technologies that enable the seamless integration of tactile feedback into human-machine interfaces. Actronika's technologies can be integrated into a multitude of devices, such as smartphones to enhance the user experience, touch screens in vehicles to limit distractions at the wheel, and game controllers to improve immersion.

Saturday
Booth G50-027
Booth F25-021

NANOMADE LAB

Wednesday-Thursday-Friday
Booth H22-008
Région Occitanie - AD'OCC

Nanomade Lab is revolutionising the tactile experience by making any surface (flat, curved, flexible) sensitive to touch and force. This flexible, highly sensitive and transparent sensing technology offers a new user interface paradigm.

NANOZ

Friday-Saturday
Booth D33-021

Nanoz has developed a gas sensor for an IOT ozone sensor. Their ambition is to become an innovative leader in MOx and Opto sensors with a range of innovative patented products based on disruptive technologies.

PASQAL

Wednesday-Thursday
Booth F25-009
HQI

PASQAL is developing programmable quantum simulators and quantum computers based on 2D and 3D atomic networks, offering computing power in excess of 100 qubits. The processors, both analogue and digital, operate using laser cooling of magnetically confined rubidium atoms.

Friday-Saturday
Booth L12-009

QUANDELA

Friday-Saturday
Booth L12-008
HQI

Quandela develops quantum devices and modules to accelerate the development of quantum communication networks and optical quantum computers.



Useful informations

Hall 1 - Booth J49

From 9:00 am to 7:00 pm

PRESS CONTACT :

Manon Landurant

+33 1 44 96 51 37

manon.landurant@cnrs.fr

FIND ALL INFORMATIONS ON [CNRS.FR](https://www.cnrs.fr).

TO GET DAILY UPDATES FROM CNRS DURING THE CONFERENCE ON [LINKEDIN](#) AND [X](#), FOLLOW **#CNRSINNOVATION**



The background features a dark space filled with abstract, flowing light patterns in shades of yellow, orange, and blue. On the left side, there is a circular bokeh effect with soft, out-of-focus light spots. The CNRS logo, consisting of the letters 'cnrs' in a white, lowercase, sans-serif font inside a white circle, is positioned in the lower-left quadrant. A bright yellow curved shape is visible at the bottom of the page.

cnrs

PRESS CONTACT

Manon Landurant
+33 1 44 96 51 37
manon.landurant@cnrs.fr

Centre national de la recherche scientifique

3, rue Michel-Ange
75794 Paris Cedex 16
+ 33 1 44 96 40 00
www.cnrs.fr | [X](#) | [LinkedIn](#) | [YouTube](#)