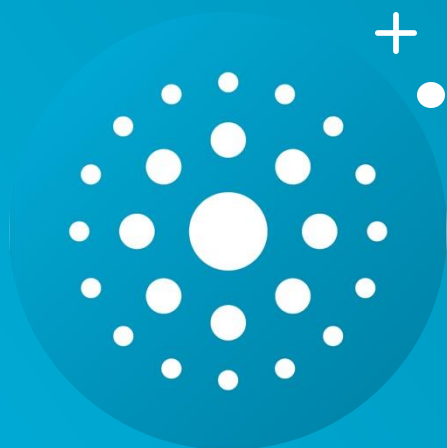


UCA J.E.D.I.  
UNIVERSITY FOUNDATION

# 2023 ACTIVITY REPORT





## CONTENTS

Foreword	3
Steering, organization and key figures	4
Major programs	8
Academies of Excellence	25
Center for modeling, simulation and interactions	41
Other actions supported by IdEx	46



*"We continue to support outstanding research and promote a policy of attractiveness, with a vision to help all researchers to aspire to excellence in terms of risk-taking, breakthroughs and daring, whatever the discipline, research theme, campus or laboratory."*

For the second year running, Université Côte d'Azur IdEx is honoring its commitment to the community by presenting this activity report, showcasing the year's highlights, results, figures and achievements.

The report illustrates the richness and diversity of the activities of Université Côte d'Azur and its partners in supporting and promoting research of excellence with a strong international profile, high-impact innovation and training actions, and interdisciplinary research.

We continue to support outstanding research and promote a policy of attractiveness, with a vision to help all researchers aspire to excellence in terms of risk-taking, breakthroughs and daring, whatever the discipline, research theme, campus or laboratory.

Numerous actions launched or incubated by the IdEx also came to fruition this year. The Innovation Program and the Innovation and Valorization Commission have now joined forces with the Med'Innov University Innovation Hub (PUI). Entrepreneurship actions are now being extended within UniCA Entreprendre. In addition, several international partnerships have been established with the support of IdEx's International and Europe Program, led by component institutions (Franco-Indian Campus by EUR Life, Franco-Costarican Chair by EUR Odyssee, etc.).

Given the large number of actions and projects supported by IdEx and its structures, this report presents a showcase rather than an exhaustive summary.

**Sylvain Antoniotti**  
Vice-President in charge of the Initiative of Excellence

+



# STEERING, ORGANIZATION AND KEY FIGURES

# STEERING AND ORGANIZATION

## Consolidation of steering and organization

Since the confirmation of the IdEx, particular attention has been paid to ensuring that its management structure is connected with that of the university as a whole. This is achieved through the participation of the IdEx VP in the university's governing bodies, and the participation of the university's statutory VPs in IdEx steering bodies, thus enabling **synergy between IdEx and university strategies**.

In 2023, we remained strongly focused on consolidating the IdEx structure operationally and administratively, and on enhancing its connections with the university's departments.

### Measuring the impact of IdEx:

In line with the commitments it has made to the French government, IdEx has defined its own indicators for 2023, designed to measure the impact of its initiatives and thus enable steering and adaptation.

### Confirmation and skills transfer:

In 2023, nine IdEx staff previously on fixed-term contracts were awarded permanent contracts ahead of the official deadline through campaigns organized jointly with the university.

In addition, five IdEx staff were transferred to the university following the integration into the UniCA structure of services or components initially supported by IdEx.

## Strengthening communication

The permanent IdEx aims to optimize communication about its actions and support mechanisms.

Therefore, in 2023, the position of **communications officer** was created to promote the actions and initiatives supported by IdEx.

Thanks to the HR support provided by IdEx, Université Côte d'Azur's Communications and Branding Department began **completely redesigning the website**, aiming to make it easier to navigate, particularly the Calls for Proposals, by 2024.

To raise awareness of its programs and to meet researchers and listen to their suggestions, IdEx organized two half-day information events in 2023, designed to publicize its research and innovation support schemes. Open to all laboratories of the university, the **IdEx tour** was held on the Valrose campus on October 9, 2023 and in Sophia Antipolis on October 13, 2023, and will be held again in future years.

# Key figures



291

New projects  
financed

*(229 recipients)*



13

Theses begun in 2023

*(of which 6 were co-  
funded)*



15

Postdocs  
funded



29

Engineers funded  
in laboratories



63

Staff assigned to  
IdEx support  
missions



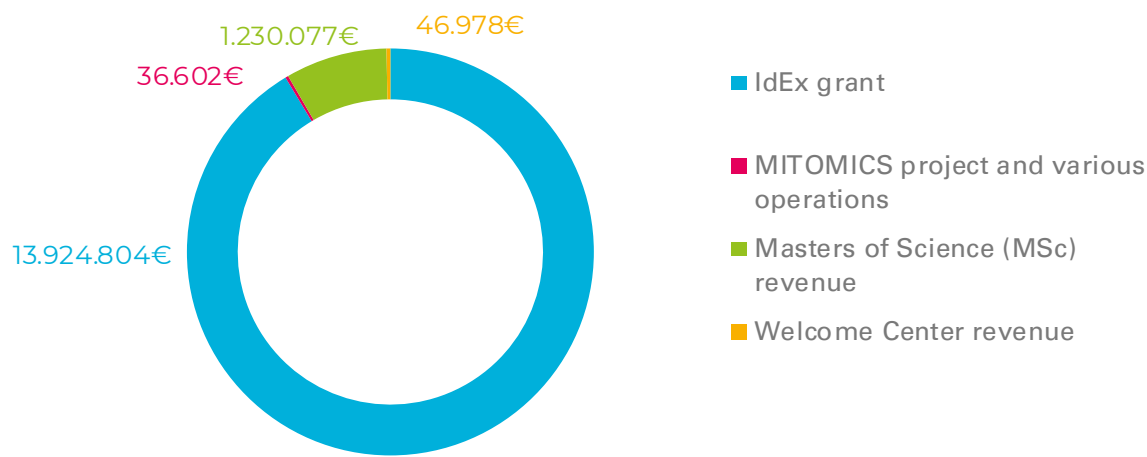
10

Staff recruited by IdEx and  
assigned to University  
departments

*to support departmental  
restructuring*

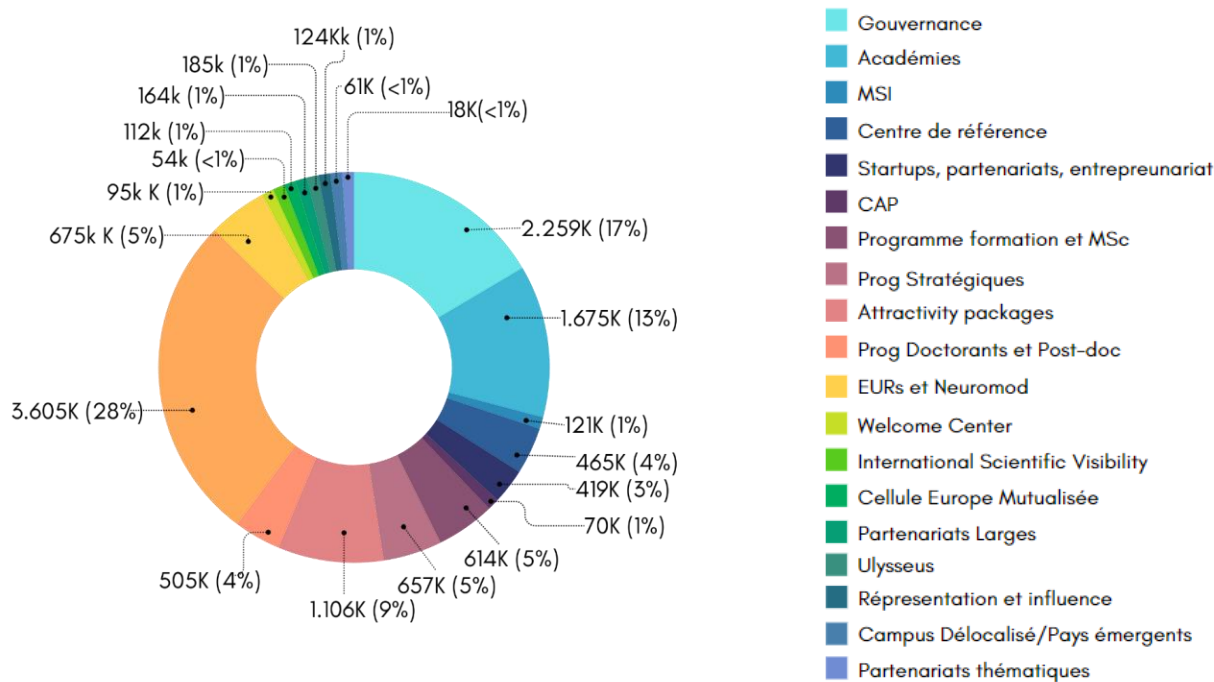
# REVENUE 2023

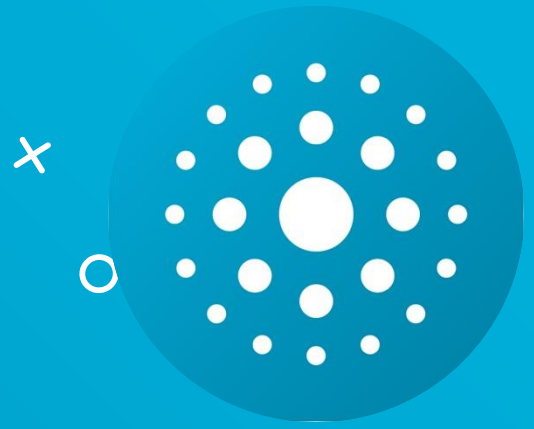
The UCA J.E.D.I. Foundation received €15,238,461 in revenue in 2023, broken down as follows:



# MULTI-YEAR COMMITMENTS IN 2023 BY IDEX ACTION

The breakdown of IdEx endowment commitments by action is provided below. It should be noted that these commitments are multi-year (i.e., the budgetary execution of the corresponding actions may be carried out over several years):





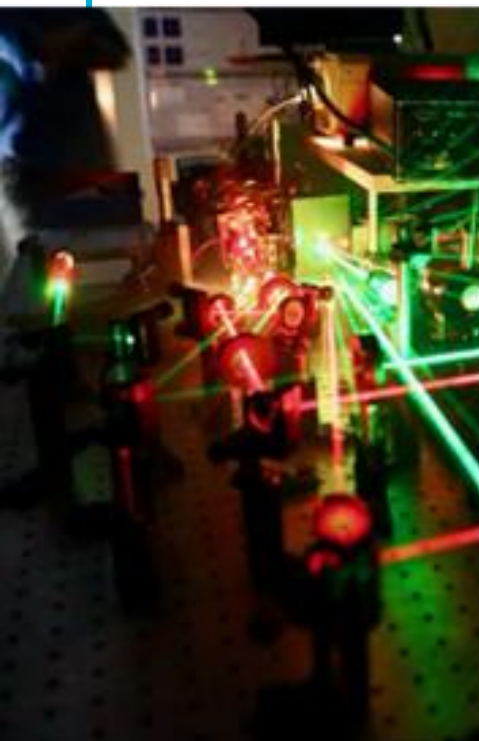
---

# MAJOR PROGRAMS



# RESEARCH PROGRAM

## Introduction



One of the fundamental objectives of the IdEx project was to position Université Côte d'Azur as a research-intensive university with a strong international reputation and firm roots in its local region. By uniting several academic institutes on the Côte d'Azur, it has established itself as an essential partner in the region, not only in the field of fundamental, human and social sciences, but also in health and the arts.

Continuing to pursue this objective and to drive research momentum across the university, Université Côte d'Azur IdEx has developed an ambitious research program designed to strengthen the university's research potential, support interdisciplinary scientific production, and increase its attractiveness and raise its profile at national, European and international levels.

The IdEx research program is aimed at all researchers and teaching-research staff at the university, and offers a range of schemes for early career (postdoc), mid-career (research fellow, associate professor) and more senior researchers (research director, full professor).

These schemes are constantly evolving and improving and adapting to changes in the national higher education and research landscape, thanks in particular to regular discussions with several representatives of the various university organizations and institutions that are members of the IdEx consortium.

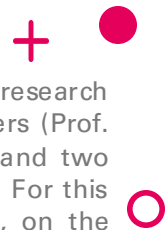
## Overview of the IdEx Research Program

### **IdEx Postdoc Program – Excellence Fellowships for Young Researchers**

In 2023, IdEx awarded 12 excellence fellowships to young researchers, including seven from abroad (Italy, Germany, Belgium, Cambodia, Taiwan and the United States). The number of applications received for the program was 44, up sharply from previous years, demonstrating the growing attractiveness and visibility of the university. The university has also benefited from the program's strong success, with five postdocs supported by IdEx subsequently obtaining permanent positions.

In order to enhance the fellowship offering in 2024 and better support our postdoctoral researchers, IdEx now allocates an operating budget of 5,000 euros for each researcher over the duration of the project.

### Advanced Research Program (PRA) Chairs



In order to attract specific high-level skills and strengthen its commitment to research excellence, IdEx awarded four PRA chairs in 2023, including two external researchers (Prof. Dalila Ayoun - U. of Arizona and Prof. Amor Abdelkader - U. of Bournemouth) and two internal ones (Dr. Mathilde Hugbart - INPHYNI and Prof. François Hug - LAHMESS). For this program, IdEx received 31 top quality applications from all over the world, and, on the recommendation of the program's independent committee, decided to invite another two researchers for a period of four months each, Theresa Reinold (U. of Duisburg-Essen) and Anthony Howell (Arizona State U.), to develop the university's international collaborations.

### Attractivity Packages

IdEx has set up a unique scheme, open to all disciplines, to support young researchers (research fellows, Inria starting faculty members, assistant astronomers and physicists), senior researchers and astronomers/physicists recruited by national research organizations. The aim is to increase the university's research potential by creating the right conditions for candidates to make Université Côte d'Azur their first choice for a position or transfer. In 2023, 18 new researchers at the university received an Attractivity Package: eleven from CNRS, three from Inria, two from INSERM, one from INRAE and one from OCA.

First name - Last name	Academic position	Institution	Host laboratory/team
Michel Mitov	Senior researcher (DR)	CNRS	INPHYNI
Ludovic Keiser	Researcher (CR)	CNRS	INPHYNI
Rémi Colom	Researcher (CR)	CNRS	CRHEA
Isabelle Tristani	Researcher (CR)	CNRS	LJAD
Marta Spinelli	Assistant Astronomer	OCA	LAGRANGE
Rémi Adam	Researcher (CR)	CNRS	LAGRANGE
Romain Melot	Researcher (CR)	CNRS	ICN
Yasmine Neirijnck	Researcher (CR)	INSERM	IBV
Agnès Banreti	Researcher (CR)	INSERM	IBV
Alexandre Truc	Researcher (CR)	CNRS	GREDEG
Hala Alarashi	Researcher (CR)	CNRS	CEPAM
Léa Drieu	Researcher (CR)	CNRS	CEPAM
Nikos Angelopoulos	Researcher (CR)	CNRS	BCL
André Nusser	Researcher (CR)	CNRS	I3S & INRIA
Victor David	ISFP	INRIA	Wimmics
Michal Balazia	ISFP	INRIA	STARS
Ivan Beschastnyi	CRCN	INRIA	MCTAO
Julia Truch	CRCN	INRAE	ISA



## Collegium of Advanced Studies

New in 2023, IdEx has established a scheme specifically aimed at enabling Université Côte d'Azur teaching and research staff to expand, initiate or complete a research project, or to fund high-level outbound mobility (projects with strategic partners, creation of an international laboratory, etc.). Collegium members benefit from flexible work (teaching relief), a bonus and an operating grant. The scheme is intended to fund four recipients per year, for an initial period of two years each with a further two years possible. All disciplines and themes are eligible, and applications are assessed by a 100% external committee of national and international specialists.

## Other research support schemes

The IdEx Research Program is complemented by the support offered by the Graduate Schools (EURs), whose mission is to ensure that our education program is strongly backed by the research carried out in our laboratories and applied in collaboration with companies. The Academies of Excellence also offer various support schemes for researchers at the university. The academies are independent IdEx structures which aim to increase the level of excellence of our research by supporting innovative projects, promoting transdisciplinarity and creating spaces for researchers from different disciplines to interact, thus encouraging the emergence of new concepts.



## In 2023, the IdEx Research Program funded:



12

Postdoctoral  
contracts



4

PRA Chairs



18

Attractivity  
Packages



## A pool of experts

To meet the demands of the large number of schemes that rely on internal calls for proposals (AAP), IdEx has created a pool of national and international experts, all of whom are external to the Université Côte d'Azur ecosystem. IdEx will call on the services of these experts to provide paid expertise and evaluations of submitted projects. More than 100 experts representing all disciplines have already agreed and signed the GDPR consent form.

## Events organized by the Research Program

### IdEx Tour

In collaboration with the Innovation Program, the IdEx Research Program organized two half-day information events to present its latest news and promote its support schemes. These events took place on the Valrose campus on October 9, and on the Sophia Antipolis campus on October 13. The IdEx tour was primarily aimed at directors of research units at Université Côte d'Azur and its partner institutions, but it also attracted the interest of several other people from both campuses. These meetings also provided an opportunity to talk with researchers, listen to their suggestions and answer their questions.

### IdEx Advance Research Program half-day

On February 10, 2023, the IdEx Research Program organized a half-day at the Valrose Grand Chateau theater for presentations by the Chairs of the Advanced Research Program. This half-day event showcased the innovative work of the Chairs, and gave rise to rich discussions with the Université Côte d'Azur scientific community. Members of this community expressed their appreciation of the event's format. Additionally, the diversity of disciplines and research themes presented provided a unique opportunity for researchers to discover and exchange ideas outside their usual spheres.



# INNOVATION PROGRAM

The mission of the IdEx innovation program is to encourage the transfer of technology and expertise from the academic research teams of the Université Côte d'Azur community by supporting innovation in two main areas: the promotion of public-private collaborative R&D and the creation of innovative DeepTech companies.

To achieve this, the program has developed tools such as the DeepTech Start-up and Innovation Partnership calls for proposals, as well as the UCA<sup>J.E.D.I.</sup> Innovation and Valorization Commission (CUIV), which it coordinates.

In 2023, the Innovation Program increased the resources dedicated to supporting project leaders in developing their innovation strategy by securing access to patent and market databases.

## Report from the UCA J.E.D.I. Innovation and Valorization Commission (CUIV)

The UCA <sup>J.E.D.I.</sup> Innovation and Valorization Commission (CUIV) met five times in 2023.

IdEx funded innovative projects to a total amount of €180K throughout the year, representing 54.6% of all grant applications (i.e., €330K) approved by the CUIV.

The CUIV, created in 2018 at the initiative of IdEx to enable better coordination of support for innovation in the Côte d'Azur region, was integrated into the Med'Innov University Innovation Hub (PUI) at the end of the year.

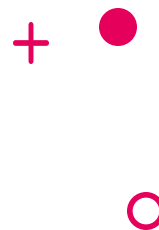
On January 1, 2024, the CUIV became the Innovation and Valorization Commission (CIV), led by Université Côte d'Azur's Vice-President of Innovation and Valorization and the Research, Valorization and Innovation Unit.

The 2023 CUIV balance sheet is as follows:

Scheme	Project acronym	Academic partner	Field	Project budget	Partner funding	Funding
Innovation Partnership	Fight NGV	UniCA-CNRS-Inserm	Chemistry-Biology-Health	€442,097	€392,097	€50,000
DeepTech Start-up	DareWin	Inria-INRAa-UniCA-CNRS-SU-IMEV	IT-Biology-Ecology	€263,300	€213,300	€50,000
Start-it-up	SPLEAT	CNRS-UniCA	IT	€316,050	€266,050	€50,000
Start-it-up	Harness Vision	Inria	IT	€106,150	€56,150	€50,000
Start-it-up	RO3SE	Inria-UniCA-CNRS	IT-Health	€654,314	€604,314	€50,000
Innovation Partnership	ExAd Ex-Signature	UniCA-CNRS-Inserm	Biology-Health	€175,000	€145,000	€30,000
DeepTech Start-up	Bio3R-Res	CNRS-UniCA	Chemistry	€120,672	€70,672	€50,000



# IdEx is the leading funder of innovative start-ups from Université Côte d'Azur laboratories, helping to de-risk projects



In 2023, three innovative companies were registered after receiving seed funding from IdEx via the DeepTech Start-up call for proposals and post-funding support from the Innovation Program. A fourth is in the process of being registered.

## Start-ups registered in 2023:

- **Evolutive Agronomy (the Effective project)** – funded in 2021 – environment – innovative biocontrol services for use in agriculture – registered with the French trade and companies register (RCS) on May 11, 2023
- **EyeNav Robotics (the EyeNav project)** – funded in 2021 – robotics and AI – manufacture of innovative software and drones for marine surveillance (civil and military applications) – registered with the RCS on December 27, 2023
- **Virtu Therapeutics (the TheRacer project)** – financed in 2022 – biotechnology – innovative therapy for the treatment of brain tumors – registered with the RCS on December 13, 2023.

## Registrations expected in 2024:

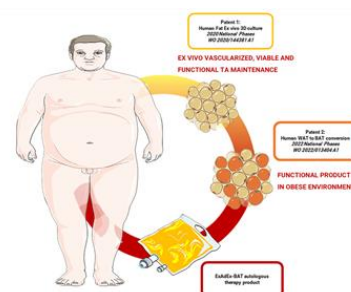
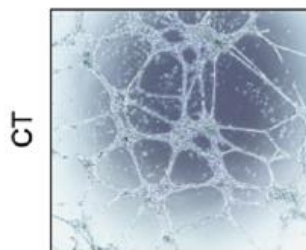
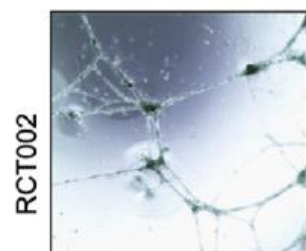
- **InnoFenso (the AgrolInnov-Chavabio project):** funded in 2021 as part of the DeepTech Start-up call for proposals. Innovative biocontrol services for use in agriculture.

## IdEx supports innovation in partnership with young companies

The new call for Innovation Partnership proposals has provided further support for the development of start-ups initially funded by IdEx's call for DeepTech Start-Up proposals. The scheme subsidizes the development of new intangible assets, which facilitates the commercialization process for inventions.

The innovation partnerships supported in 2023 were:

- **Roca Therapeutics** – €50K – development of a treatment for neovascular glaucoma, a complication associated with the treatment of uveal melanoma (a side-effect of proton therapy), funded under the DeepTech Start-Up call for proposals. The company increased its share capital on May 3, 2023, from €63,106.40 to €67,816.00.
- **Exadex Innov** – €30K – Determination of the complete signature of a biotherapy product called "ObAdEx" and development of appropriate culture media for this biotherapy. The funding should enable this candidate biotherapy to be developed and the biomanufacturing process to be adapted for clinical and industrial scale-up, and therefore will help convince specialized investment funds to invest in the company.





## IdEx takes the initiative with the Med'Innov University Innovation Hub

In addition to the IdEx CUIV, which served as the basis for the creation of the CIV, IdEx also initiated the Pre-maturation call for proposals, to be issued through the Med'Innov University Innovation Hub (PUI).

The aim of this call for proposals is to provide funding for the proof of concept of a technology still in the formulation phase.

This scheme makes funding available for technologies whose development is at a low technology readiness level (TRL).

It will give recipients an initial indication of the most appropriate or least risky route to knowledge transfer.

This scheme will be integrated with existing pre-maturation support schemes (BPI, SATT, INRIA Innovation Labs, CNRS Rise, CNRS, INSERM, Université Côte d'Azur, etc.).

## Promoting Innovation Program schemes and raising awareness of entrepreneurship

### Buffet dinner meeting for entrepreneurial researchers

The first buffet dinner meeting for Researcher-Entrepreneurs took place on September 19, 2023 at the Valrose Grand Chateau.

21 project leaders (out of 37 who had been approved for a grant by the CUIV) were able to meet and share their experiences as start-up founders.

Positive feedback from participants affirmed the need to create a club to bring together entrepreneurs from Université Côte d'Azur, and to encourage mentoring between start-up founders and young project leaders.

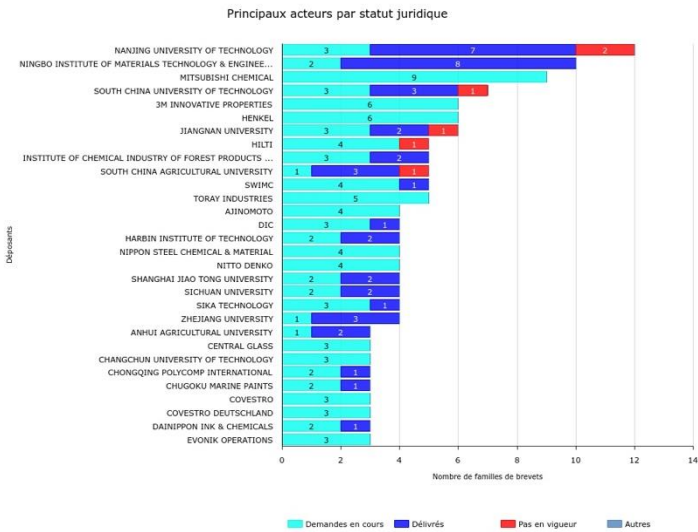
Discussions are now underway with UniCA Entreprendre and the Université Côte d'Azur Foundation to officially launch the club in 2024.

# Launch of a new support service for project leaders

A license to use Orbit Intelligence software was acquired in December, 2023 (€15K excluding VAT for three users, including one generic user).

This next-generation software, developed by Questel (a company based in Sophia Antipolis) will be used to carry out positioning studies for new technologies, comparing them with other potentially competing assets for which patents have been filed or are in the process of being filed. This software uses a global patent database that notably encourages interdisciplinarity in projects.

The innovation program is now equipped with a new tool for analyzing projects submitted to the calls for proposals, and offers successful candidates for IdEx funding a new (post-selection) support service for the strategic positioning of assets.



## Promoting Innovation Program schemes and raising awareness of entrepreneurship

In the first stage of a feasibility study on the framework for authorizing concurrent employment, it was noted that a new declaration procedure now replaces "prior authorization to combine activities" in many cases.

The question of applying this principle to activities carried out in a non-public institution is still under consideration.

Following discussions with Université Côte d'Azur departments, the UniCA Conseil initiative, part of the IDéES R2D2 project, will be relocated into the Research Valorization and Innovation Unit (DRVI). Discussions between IdEx and DRVI have considered the possibility of integrating the UniCA Conseil project into the Med'Innov University Innovation Hub (PUI), so that it can best be coordinated with the PUI's actions. ANR funds would supplement PUI funds.



# INTERNATIONAL AND EUROPE PROGRAM

## International campuses



The **Franco-Indian Campus** was officially launched in 2023, piloted by EUR LIFE in partnership with Ashoka University, the Indian Institute of Science and the Indraprastha Institute of Information Technology Delhi. This project, co-funded by the French Ministry of Europe and Foreign Affairs and IdEx, supported outbound and inbound mobility for students and researchers, including Master's courses, thematic schools, international events and scientific workshops. These initial funds paved the way for additional financing from the French Embassy.

The **Balkan Institute for Science and Innovation** continues to expand its influence in the region, particularly in conjunction with the Western Balkans Cyber Center. In addition, the University of Montenegro has become the eighth member of the Ulysseus European University, and will pilot the cybersecurity theme. A delegation led by Université Côte d'Azur President Jeanick Brisswalter visited Montenegro at the end of the year to meet the French Ambassador and her teams. Several themes of common interest have been identified.

After five years of development, the **Da Nang International Institute of Technology** entered a new phase of its growth in 2023. The institute became permanent, innovation activities grew rapidly, in particular the creation of start-ups, and it was integrated into the Ulysseus European University as an international hub. This integration became official in June with the signing of a cooperation agreement with Ulysseus. A major workshop was held this winter to identify projects of common interest to all Alliance partners.

# Thematic partnerships - Strategic partnerships



## Thematic partnerships

The **IdEx-funded Franco-Costa Rican Chair in Socio-Environmental Challenges** headed by EUR ODYSSEE has led to about a dozen research visits to develop the Chair's research themes: 1) Education and otherness, 2) Cities, 3) Migration, 4) Human rights, minorities & environment, 5) Citizen science, and 6) Oceans.

These visits provided opportunities to organize study days, seminars, educational events, field trips, co-publications, symposia, and more.

In 2023, IdEx supported three international doctoral programs. The **international doctoral program in Economics** between Université Côte d'Azur and the University of the École Supérieure Sant'Anna was renewed, with funding allocated for the recruitment of two doctoral students. Doctoral students in the first cohort of the **COFUND BoostUrCareer program in e-health**, co-funded by the Sud-PACA Regional Council, the European Commission and IdEx, successfully defended their theses; while doctoral students in the second cohort completed their six-month scientific research visits with an international partner. Finally, IdEx approved the rollout of a **doctoral program in vision, imaging and robotics** with the University of Melbourne, to recruit six doctoral students funded equally by the two partners. In addition, IdEx supported research visits by two Université Côte d'Azur PhD students to the Monell Chemical Senses Center as part of the **thematic partnership in olfaction and taste sciences**.

## Cross-disciplinary strategic partnerships

The partnership with Université Laval in Quebec City was renewed, and a number of actions were developed. Two research projects from the Sentinelle Nord program were extended beyond the planned funding period in view of their encouraging results, while two new research projects were supported. As in previous years, the governance meeting provided an opportunity to take stock of the partnership and define the roadmap for the coming year. In addition, an initiative on the theme of artificial intelligence strengthened ties between 3IA Côte d'Azur and Université Laval's IITD. The Chairs in Leadership in Teaching (Women's Health and Educational Design) were continued, while the Infocritique program was transformed into a University Diploma to support its development, initially as part of general medical training. Finally, ASME laboratory director Thierry Bellguic (Professor at Université Laval) visited Université Côte d'Azur during his sabbatical.



The thematic partnership with the **University of Utah** has grown into a cross-disciplinary partnership with a shared desire to develop joint projects on the following themes: Cultural and Creative Industries, Artificial Intelligence, Risk, Resilience & Environment and Health. A one-semester cinema course was created for visiting students from the University of Utah. In addition, seed funding was granted to support a project on the physiology of physical activity.

**An initiative** was launched to develop one or more special partnerships with Japan and involved an official mission to meet with the Universities of Osaka, Hitotsubashi, Yokohama and Keio. Alongside this, an event focusing on opportunities for cooperation with Japan was organized at Université Côte d'Azur in partnership with the Japan Society for the Promotion of Science (JSPS).

# Scientific Diplomacy



A delegation of five representatives participated in COP28. This is the third year Université Côte d'Azur has contributed to the COP climate change conference, and its second year as co-organizer of the Science for Climate Action Pavilion hosted by the MERI Foundation, the Intergovernmental Panel on Climate Change (IPCC) and the United Nations World Meteorological Organization (WMO). The delegation co-organized an event under the auspices of the United Nations Framework Convention on Climate Change, in conjunction with U7+ and other university networks.

**Organization of the first edition of the local initiative *On the road to the COP*.** In parallel with its involvement in COP 28, IdEx organized a number of local events this year, enabling wider participation by students and the entire university community. Events included: Awareness-raising and change management workshops on campuses and with school students, film debates aimed at the general public, live link-up from the COP.

**Participation in the U7+ Presidents' Summit.** The U7+ University Presidents' Statement was presented to Japanese Prime Minister Fumio Kishida as representative of the host country of the G7 in 2023. In addition to the Presidents' Summit, members of the Peace & Security and Climate Change & Sustainability working groups continued their involvement.



**Thematic roundtables in Europe.** In 2023, the series of roundtables organized in Brussels focused on the cultural and creative industries at the crossroads of the dual transition. The purpose of these roundtables, organized with the cooperation of the European Commission's Directorates-General, is to make recommendations regarding the Commission's future funding programs.

## Europe Unit and LEADuRoPe

The LEADuRoPe program brings together ERC & AMSC laureates and European project coordinators to promote the university's drive for excellence in Europe. It centralizes all calls for projects issued by the Joint European Office (CEM):

- **ERC Boost.** Support in writing ERC applications. Seventeen candidates supported, three successful candidates and three responses pending (post-interview phase). Of the eleven unsuccessful candidates, five reached the interview phase.
- **ERC Bridge.** Support for resubmission of ERC applications, including for laureates. Four candidates supported. Two successful and two in progress
- **AMSC Postdoctoral Fellowship.** Support for young international talent. Four candidates supported. Applications are being assessed.

LEADuRoPe organizes events, training courses and conferences to lead the community of project leaders and identify new talent!



# FOCUS - Ulysseus European University



The International and Europe Program continues to support the development of the Ulysseus European University, with a grant of €400K.



In July 2023, the European Commission awarded the Ulysseus University Alliance a four-year funding extension, with a grant of €12.8M. This announcement not only secured funding for the second phase of the Ulysseus project to co-construct a European university, but also marked the start of a new era with two new members, the University of Münster (Germany) and the University of Montenegro, joining the six historic members.

In 2023, IdEx funding again supported the development of:

1. Ulysseus scientific networks, sometimes led by Graduate Schools (EURs), sometimes by research units:
  - **EUR CREATES.** Between art and literature: the city; old age
  - **EUR ELMI.** Ulysseus Economists Network
  - **EUR HEALTHY.** Summer school: A systems approach to the promotion of healthy lifestyles for healthy aging across the life course
  - **UMR LJAD.** Ulysseus Spring School in PDEs
  - **UMR ECOSEAS.** Linking climate change, environmental degradation and harmful algal blooms in Marine Coastal areas
  - **EUR LIFE.** Winter school on the biology of aging
2. A Living Lab dedicated to aging and well-being, in particular by equipping the smart apartment and setting up a data hub.
3. The internationalization of Ulysseus, in particular by funding scientific and institutional delegations aiming to create the first Ulysseus International Hub in Vietnam.

Ulysseus is one of 50 European universities selected by the European Commission to become the universities of the future. Led by the University of Seville with seven other European universities, the project will enable students, researchers and graduates to move freely between the member universities, launch high-impact research projects, roll out innovative training and connect our local ecosystems to meet the major challenges of the 21st century.



Pauline Achard  
Project Manager  
[Pauline.achard@univ-cotedazur.fr](mailto:Pauline.achard@univ-cotedazur.fr)



Strategic project,  
European research and  
education space, European  
universities



Innovation Hub.  
Living Lab, Aging  
& well-being



# EDUCATION PROGRAM

The IdEx Education Program plays a strategic role in the visibility and attractiveness of Université Côte d'Azur: in addition to supporting and consolidating the 100% English-language interdisciplinary degree programs created by IdEx (Masters of Science), it is progressively offering its support and experience to other Université Côte d'Azur courses in English. The objective of raising the international profile of these degrees was achieved by creating mini-websites, as these are the most consulted English-language pages on the Université Côte d'Azur website.

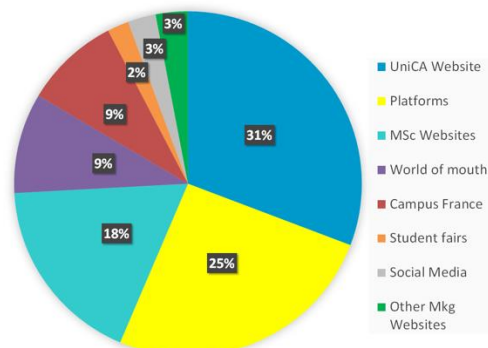
*Where do the students come from?*



## The MSc International Office

The European Union's recommendations show the importance of administrative support and the environment in guaranteeing the success of student mobility. IdEx's creation of an office dedicated to international students represents a major strategic asset for a university aspiring to international visibility. Our bilingual team is available to respond to all our applicants' needs and support their entire journey, from initial contact through to their integration into Université Côte d'Azur. It provides essential support for arriving international students with tailored, reassuring and personalized follow-up (Live chat, visas, accommodation, scholarships, enrolments, banking, etc.), strengthening Université Côte d'Azur's position as a preferred choice for students from all over the world.

*How are we raising our profile?*



## Focus on the Master of Science (MSc) programs

**The Master of Science (MSc)** programs are interdisciplinary, research-based courses taught in English, that provide an international showcase for Université Côte d'Azur's degrees on its various campuses and in different fields, and consolidate its position as an interdisciplinary university. This strategy, geared towards the professions of the future combined with a strong research base, enhances the attractiveness of Université Côte d'Azur's programs as a hub of academic excellence, and positions its graduates as key players in a constantly evolving professional world.

The MSc programs are attracting more and more applicants every year, and offer clear career prospects for tomorrow's talent.



## The 2023 MSc program in figures

12 MSc courses = 23 years of education (MSc1, MSc2 and tracks)

8 MSc courses are master's degrees

3 MSc courses are accredited by 3IA Côte d'Azur

Pedagogical transformations and innovations were introduced in the MSc in 2023:

- Two are 100% distance learning and two are hybrid with inverted pedagogy;
- More than 370 students are enrolled in IdEx MSc programs, 80% of whom are international;
- Enrollments increased by 15% over the last two years; and
- 86% of applicants accepted by the MSc office enroll at Université Côte d'Azur.

Revenue from the MSc programs has increased each year since they were created, and was used to co-fund master's degree coordinators, pay for short-term and overtime teaching (more than 5,000 HETD), and cover operating expenses, such as teaching materials, field trips, and special activities by external guest speakers.

## New features in 2023

Introduction of a "Bonus Ambassadors" scheme for all MSc and other courses taught in English, designed to raise the profile of the international courses through live chats, fairs and other communication initiatives aimed at future international students.

Launch of the MSc European Molecular Pathology in partnership with the European Union of Medical Specialists (UEMS), the European Society of Pathology (ESP) and in close collaboration with Ulysseus in Seville. This two-year program, unique in Europe and directed by Professor and Hospital Practitioner Marius Ilié (Faculty of Medicine and Nice University Hospital), is central to the IHU project on respiratory pathologies (RespirERA) supervised by Prof. Paul Hofman in conjunction with Nice University Hospital. The inauguration, attended by the 25 students enrolled and eminent guests, took place in Nice and was followed by an event at the end of 2023 at our Ulysseus partner in Seville. A multi-year strategic financial partnership was signed with Thermofisher, worth €50K in 2023.

The MSc Smart Cities signed an agreement with École Centrale Méditerranée, integrating this course as a track of the school's Complex Systems Engineering - Smart Cities Engineering program.

The MSc Data Science & Artificial Intelligence innovated by introducing a Health AI track, for first-year graduates.

The MSc BOOST established a strategic partnership with two universities in Benin as part of the Nemedussa Project. This program was strengthened by an additional course on soil analysis taught by our strategic partner Université Laval, which meets HCERES recommendations.

A MasterClass with Stewart Copeland of The Police was organized for the MSc Sound Design and Music Scoring students at MIDEM+24.



Two MSc programs contributed to the growth of the Université Côte d'Azur brand by creating sensory identities: MSc Flavor and Fragrance students developed a signature fragrance that was used to create the perfume Fleur d'Azur, and MSc Sound Design and Music Scoring students designed three unique signature soundtracks with the theme "Dare to Create", in collaboration with Dolby and the Orchestre de Cannes.



## The Masters

In the process of developing its MSc programs, IdEx has gained significant expertise over the years in the management, communication and marketing of international programs. This expertise was shared with some of Université Côte d'Azur's Masters taught in English, within two Graduate Schools (EURs) and the Institute of Business Administration (IAE):

EUR ELMI: Master 2 Research in Management and Innovation (RMI)

EUR SPECTRUM: Master 2 in Molecular Chemistry and Master 2 in Pure and Applied Mathematics

IAE: Executive MBA and Executive DBA.

Three mini-websites were specifically created for the Master 2 courses in 2023 and linked to the international visibility platforms that have been used by the MSc program since 2019. In addition, a coordinator was appointed to support students in administrative and logistical matters. Handling applications remains the responsibility of the component institutes, and differentiated fees have been implemented to make the courses more attractive for international audiences.

The MSc courses' international profile will be assessed over the next few years, with the ultimate aim of grouping together all courses taught exclusively in English at Université Côte d'Azur and organizing them under a single international banner for showcasing.



*Sensory identity and the MSc*

## Short courses

Other Institutional Diplomas (DEs) are actively supported by IdEx: these short courses, most of which are taught exclusively in English, reflect the values and strategy of Université Côte d'Azur.

The University Diploma (DU) Mastering the TV Format of Tomorrow received support from IdEx to raise its profile by developing a new mini-website, following its transition to teaching entirely in English. Offered by EUR CREATES, this DU course boasts an international profile that attracts the talent of tomorrow. The entertainment company Banijay, which operates in 33 countries, co-designed this project, providing high-level expert speakers. The City of Cannes also actively supports this program by engaging its industry ecosystem around this theme.

After a year's hiatus dedicated to a complete overhaul of content and optimization of the user experience, the DU STEPS (Skills To Ensure your Professional Success) has been redesigned to meet the needs of professionals looking to acquire new skills essential for their career development. This program can be accessed at any time, from any country, and offers individual support at a personalized pace.



The DU Science Booster, entirely online and in English, follows the same model as the DU STEPS. Its aim is to expand internationally and raise awareness of marine protection issues among students and professionals.

The DU ELSE (European Leadership for Safety Education) was created in collaboration with Skema, EUR ELMI, ENSTTI (European Nuclear Safety Training and Tutoring Institute) and ENEN (European Nuclear Education Network). This one-year course successfully concluded its first year, with an audience exclusively made up of professionals in the nuclear sector. Other European Union projects have been added, in particular on nuclear recycling.

Last but not least, the Prophilia Project is supported by IdEx and the Rectorate and City of Nice. The DU Prophilia is now in its third year and is changing format to run at the national level. The scheme *Cordées Philosophiques* is coordinated by Prophilia and involves students in the DU and the Master 2 Philosophy Research and Professions. In 2023, these actions targeted two middle schools in disadvantaged neighborhoods, and offered approximately 60 writing, journalism and podcasting workshops for 200 students. Philosophy workshops were also organized for juvenile inmates at the Grasse prison.

## UniCA Junior and Champion Jedi



Agreements for the *Cordées de la Réussite* UniCA Junior Jedi program, targeting middle schools in priority areas, have been signed with four local schools. This program brings together between 40 and 60 middle school students, engaging them in a variety of activities (on Wednesdays and in school holidays) such as laboratory experiments, meetings with university students, campus visits and interactions with researchers. The aim is to proactively prepare them and give them opportunities to become familiar with higher education and ultimately to enroll.

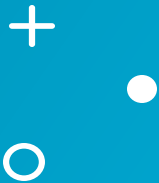
The UniCA Junior Jedi project, specially designed for high school students, involves six students in Terminale (final year of high school), seven in Première, and nine in Seconde. This project aims to stimulate their academic potential and guide them in their career choices by offering them a mentoring and personal development program during school holidays and on Wednesdays.

UniCA Champion Jedi is an initiative designed to support promising students in difficult socio-economic situations, by awarding them a scholarships for the duration of their studies at Université Côte d'Azur. In 2023, this project supported a total of 27 students.

*UniCA Jedi Workshop*



ACADEMIES OF  
EXCELLENCE



# ACADEMY 1 NETWORKS, INFORMATION, AND DIGITAL SOCIETY

## Key actions in 2023



### SCIENTIFIC AMBITIONS

- Design and experiment with advanced communication networks and quantum information systems
- Develop Université Côte d'Azur's excellence in digital sciences
- Improve understanding of the transformation brought about by the digitalization of society

### RESEARCH FIELDS

Advanced communication networks  
• Electronics and photonics • Digital science • Distributed big data • Digitalization and society • Digital law

[Academy 1](#) Networks, Information and Digital Society brings together over 200 researchers and teachers from 17 [research entities](#).

Its aim is to support the emergence of innovative and ambitious research projects in the fields of digital science and society, to encourage transdisciplinarity and to strengthen the influence of Université Côte d'Azur, both locally and internationally.

In 2023 Academy 1 supported:

- [Seven research projects](#), with a call for Research proposals, including the recruitment of two postdocs, for a total of €307K;
- [Five doctoral students, recipients of the DocWalker scholarship](#), which funds visits of between one and three months to Australia, Chile or the United States, for a total of €22.1K ([testimonial 2022](#));
- [Ten Forum Numerica](#) scientific seminars devoted to the digital sciences and their impact on society and humanity;
- Five scientific events: [AlgoTel/CoRes](#), [CPAIOR](#), [JOBIM](#), [IAREP-SABE](#), [GDR TAL-RADIA](#), up to €11K;
- The participation of three PhD students in [Thematic Schools](#) in France, Belgium and Denmark, for €2.6K;
- Visits by researchers from the United States and Vietnam, at a cost of €7.5K;
- The recipient of the 2022 call for Postdoc proposals, Ankica Barisic, who participated in the international workshop Haapie 2023, where she and her team won the [prize for best paper](#).

Academy 1 also organized a [science day](#) in March 2023, focusing on a few flagship projects.

# Examples of projects



## ESTHETICS PROJECT

Exploring the functional structure of the retina and the role of inhibitory interneurons (amacrine cells) using closed-loop spatio-temporal stimulation. An experimental and computational approach.



Bruno CESSAC, theoretical physicist, neuroscience modeler, Inria Research Center



Experimental and computational neuroscience, Mechanisms of vision



Retinal network dynamics, Stimulus-response adaptation



Jean-Sébastien VAYRE, sociologist, GREDEG



Social cognition, Multi-Agent Systems, Mathematical modeling



Epistemic vigilance, Cooperation, Competition

## MOVICI PROJET

Modeling epistemic vigilance and its institutions in the communication of information shared on the Internet, with the aim of limiting the harmful effects of misinformation.

## ALGETHERA PROJET

Exploiting the algebraic properties of therapeutic molecules by breaking down proven molecules into promising fragments, and reconstructing new molecules from these fragments.



Gilles BERNOT, professor of computer science, I3S



Theoretical computing, Category theory, Biochemistry, Graphs



Pharmaceutical molecules, Therapeutic predictions, Algebra, Virtual Screening



Laurent RODRIGUEZ, Associate Professor Université Côte d'Azur, LEAT  
Stéphane BARLAND  
CNRS Senior Researcher, INPHYNI



Bio-inspired artificial intelligence, Nonlinear optical system



Interferometry, Semiconductor lasers, Bio-inspired artificial intelligence

## BRAINMIX PROJECT

Developing brain-inspired unsupervised multimodal learning methods for the design of a nonlinear optical system for high-precision measurement of fast movement.



# FOCUS - Towards a scalable federated model to describe the user profiles in interactive systems

## Objective:

The project tackles the challenge of describing user profiles in interactive systems in order to be able to respond to changes in user interactions brought about by technological advances. The aim is to create an extendable user profile model that seamlessly integrates user information.

The project aims to understand the multiple characteristics of users, to establish a methodology for indexing this information, and to exploit these data in the design of adaptive interactive systems, adjustable to various profiles, while taking into account their temporal evolution.

One notable application is to define a driver model suitable for takeover request (TOR) scenarios in the context of autonomous vehicles.

## Method:

This project uses model-driven engineering (MDE) to meet the complex challenges of interactive systems, particularly in the modeling of user profiles.

It contributes to a holistic approach formalized by the User Profile Meta Ontology (UPMO). A resource description framework version of the UMPO facilitates the description of user information and supports reasoning through navigation in knowledge graphs.

The project proposes an iterative modeling process to support the evolution of user profiles, by identifying, modeling and refining user characteristics.

Academy 1 funded Ankica Barišić's postdoctoral year on this joint project carried out by the Wimmics and SPARKS teams.

Ankica Barišić and her team won the prize for best paper at the international workshop [Haapie 2023](#).

[Video presentation of the project](#)



Ankica Barišić  
I3S | Inria Wimmics/SPARKS



Human-Computer  
Interaction, Interactive  
Systems Engineering,  
Knowledge Graphs



User profiles, Interactive  
systems, Knowledge  
modeling, Adaptive  
systems

# ACADEMY 2 COMPLEX SYSTEMS

## A program of targeted actions



Each year, the Complex Systems Academy offers a program of targeted actions for its [community of researchers](#). In 2023, it launched four calls for proposals that resulted in the funding of some twenty research projects, representing a total investment of €215.2K by Academy 2.

Two flagship schemes help us to engage closely with research topics that are flourishing at Université Côte d'Azur, and to identify potential postdoctoral fellows.

The first, the call for [Thematic Semesters](#), encourages a multidisciplinary approach to emerging or risky topics, through a range of research, training and scientific activities, with a maximum allocation per project of between €50K and €70K. The second, a Doctoral Visits Program, funds short stays by doctoral students to promote or strengthen emerging collaborations, or to establish contacts with a view to a possible postdoctorate, with a maximum allocation per project of €7.5K.

In addition, two other calls, [Tremplin Complex](#) and [Booster Junior](#), offer funding of up to €5K and €30K, respectively. These calls are designed to support collaborative projects with a view to submitting a funding proposal to the European Commission or a bilateral ANR proposal, and to facilitate the establishment of young recruits. These funding instruments have been designed to act as levers and catalysts to boost research within the Academy.

The Academy aims to play a key role in leading and shaping its community. Every year, it organizes the [Complex Day](#), an event that provides an ideal forum for strategic discussions. The third Complex Day was held on February 4 and 5, 2023, in Nice, and represented an unmissable annual event for the local complex systems community. The annual budget allocated to this event is around €10K.

To look back at the 2023 edition, [click here](#).

# Examples of projects



## CROCA PROJECT

The propagation of cosmic rays and their non-linear interactions with the turbulent magnetic plasma through which they propagate. This project models cosmic rays as part of the international MiCRO (Microphysics of Cosmic-Ray Observables) collaboration, for which the project leader is one of the driving forces.



Sivio Sergio Cerri  
CNRS Researcher, Lagrange



Plasma astrophysics, astroparticle physics, nuclear physics



Cosmic rays, turbulent magnetic plasma, modeling, DRAGON code, nonlinear interaction



Camille Lagoin  
CNRS Researcher, CRHEA



Quantum simulations,  
condensed matter physics



Bose-Hubbard model, superfluidity, Mott insulators, supersolids, quantum gases

## EXAMINE PROJECT

The Bose-Hubbard model, which describes complex phenomena in condensed matter and quantum gases, is difficult if not impossible to solve and simulate. The aim of the project is to experimentally simulate this model to explore exotic phases of quantum matter.

## TOWARDS SUSTAINABLE RESOURCE MANAGEMENT PROJECT

Welcoming Cherkaoui Dekkaki Othman, doctoral student at Mohammed V University in Rabat. Optimizing the conversion of waste into bioenergy.



Walid Djema  
Inria researcher at Université Côte d'Azur



Applied Mathematics,  
Optimal control,  
bioeconomy resource management



Yield and efficiency, numerical algorithms, turnpike phenomena



Paolo Zeppini  
Associate Professor in Economics,  
GREDEG



Environmental economics, economic data analysis and statistics, theoretical physics



Phase transition, critical thresholds, stability, resilience, bottom-up approach

## PHASE S PROJECT

Creation of a network of academic experts to develop a novel theoretical framework, inspired by a physical phase transition, for analyzing social and economic systems reaching critical thresholds. The results will guide decision-makers towards policies that promote stable and resilient economic and environmental transitions.

# FOCUS - CHANNELFLEX PROJECT



Christophe Brouzet received a Booster Junior grant. This grant helped him to kick-start his research on fiber dynamics in turbulent flows, and to prepare an application to the ANR Young Researchers (JCJC) program. The physicist has now received ANR funding of €286K for four years.



## Objective:

The project focuses on the transport of flexible fibers such as plastic debris, sediments and organic matter through turbulent flows, characterized by chaotic and irregular fluid motion. It addresses key issues relating to the physical understanding and modeling of such suspensions, particularly in the vicinity of boundaries.

The aim of the project is to improve the tools used to design, predict and optimize a wide range of environmental and industrial flows. This covers fields such as particle deposition and resuspension in pipes, filtration of particle-laden flows, and filter clogging by particles.

## Method:

To gain a better understanding of the physical phenomena associated with the transport of solid particles in turbulent flow, Christophe Brouzet has set up an experimental system: "In concrete terms, this involves conducting model experiments in a 3-4-meter-long Plexiglass channel, in which flexible fibers (simulating plastic debris, sediment, organic matter, etc.) circulate close to a wall."

A pump continuously generates turbulent flows in the channel: "Water and particles are transported through the channel at a flow rate of up to 50 m<sup>3</sup>/h. For this experiment, it is crucial that the pump does not damage the particles, as they have to circulate through the channel many times."

"Particle transport in turbulent flow is already complex to model due to the random, multi-scale nature of velocity fluctuations in the flow. However, the presence of a boundary makes things even more difficult. In this type of flow, turbulence is intrinsically inhomogeneous due to the presence of the boundary, and anisotropic due to the mean current. The installation of this turbulent channel at Université Côte d'Azur equips the university with an exceptional and unique experimental facility."

The **CHANNELFLEX** project focuses on the transport of flexible fibers (plastic debris, sediment, organic matter, etc.) by a turbulent flow. It addresses key issues relating to the physical understanding and modeling of such suspensions, particularly near boundaries.



Christophe Brouzet  
CNRS Senior Researcher  
INPHYNI



Fluid dynamics, particle transport, turbulent flows, modeling, environment, industry



Flexible fiber transport, turbulence, plastic debris, organic matter sediments, chaotic motion



# ACADEMY 3 SPACE, ENVIRONMENT, RISKS AND RESILIENCE



**7** new research  
projects



Participation in **3**  
open science networks



**7** scientific events  
supported, including 3  
organized by the  
Academy



**10** SDGs within the  
Academy's scope and  
projects

## A scientific policy promoting transdisciplinarity

Academy 3 brings together research into natural and anthropogenic hazards and risks, and their social and environmental impacts.

For example, the Academy was involved in Université Côte d'Azur's On the road to COP28 actions. These actions were launched at the Academy's inaugural seminar, an event aimed at promoting interdisciplinarity. It also took a leading role in round tables on topics of interest to the COP climate conference.

In addition, two themed events were organized by the Academy: the Hydrosphere theme day and the opening session of the MARALEX symposium on Storm Alex.

With the United Nations' Sustainable Development Goals (SDGs) at the heart of its strategy, the Academy supports transdisciplinary research projects via its calls for First and Consortium proposals. Over the course of the year, €247,700 was allocated to worthwhile projects. The Scientific Leadership program co-funded four events.

Academy 3 launched a number of open science initiatives, including a HAL collection and sections on Epi-revel and Canal-U, to publicize the projects supported and their results.



# Examples of projects



## Ambient Variation PROJECT

This project made it possible to install powerful three-component seismographs for long-term use in heritage buildings in Cusco for the first time. This experiment is providing unprecedented information on the main factors that affect the response of local historic masonry to movement.



Andy COMBEY  
Institute for Sustainable Development (IRD) postdoctoral fellow at GEOAZUR



Earth Sciences - Geohazards and preservation of cultural heritage



Ambient vibration; Architectural analysis; Seismic vulnerability; Structural health monitoring; Peruvian heritage



Lydie DUSSOL  
anthracology researcher at CEPAM



Archaeology, Paleoecology



Tropical forests; Maya; Anthracology; Environmental change; Human impact; Environmental resilience

## REBIRTH PROJECT

The project is determining the extent of risks to Central American rainforests and the role of environmental change in the evolution of cities in the southern Maya lowlands. It is providing new data to anticipate the long-term effects of climate change and human modifications on the biodiversity of neotropical forests.

## PsyCoMed PROJECT

The project is studying the mechanisms of action of anthropogenic pollutants in the Mediterranean region as a factor in psychiatric disorders and co-morbidities, in order to identify possible therapeutic approaches.



Jacques NOËL  
Professor at the Institute of Molecular and Cellular Pharmacology



Neurotoxicology; neuropsychiatric disorders and environmental pollution



Pollutants; neurological disorders; neuroinflammation; Mediterranean Sea



Cécile SABOURAULT  
Professor at ECOSEAS



Marine ecology, Mathematics, Chemistry, Social sciences



Marine protected area; Biodiversity; Sustainability; Blue economy; Marine resources

## MARE PROJECT

The MARE project aims to generate knowledge and develop new tools for local authorities and managers of marine protected areas. The aim of the project is to identify the anthropogenic pressures that have a major socioeconomic impact on the Côte d'Azur's coastal marine ecosystems, and offer the means for integrated, sustainable management of marine resources in this area.

# FOCUS - TEFOR PROJECT: Territorial Food System Resilience

## Objective:



TEFOR aims to study the resilience of local food systems in the short term, that is, their ability to anticipate, react and adapt to change. TEFOR uses an innovative approach to co-construct transition scenarios for the urban communities of Grasse (CAPG) and Sophia Antipolis (CASA).

Experts from the different fields within the project consortium (agriculture, economics, geography and sociology) are brought together with local private and public stakeholders to share their expertise and practices and co-construct potential solutions. TEFOR aims to better understand the region's food issues in order to accelerate the transition to resilience and sustainability.

## Method:

The project team's first step is to perform a territorial diagnostic to characterize the food systems in the region and identify the obstacles and tipping points in territorial resilience. For example, by introducing discussions around the Local Food Plans of the communities concerned, the team was able to gather data and inform the decisions of local stakeholders.

These data were then modeled and mapped to identify possible actions and options at the regional level. Ultimately, the TEFOR project aims to design tools to help public decision-makers and local stakeholders develop territorial resilience, including a "serious game".

The gamification of this territorial challenge should enable all parties (local stakeholders, farmers, citizens) to change trajectory while also shedding light on the different possible transition paths.

The TEFOR project focuses on the resilience of local food systems, particularly in the Alpes-Maritimes area. Its aim is to co-construct scenarios for the agriculture of the future in the Côte d'Azur region.



Nathalie LAZARIC  
CNRS Senior Researcher  
in economics



Agriculture, Economics,  
Resilience of territories



Agriculture; Food self-  
sufficiency; Changes in  
farming systems.

# ACADEMY 4 COMPLEXITY AND DIVERSITY OF LIVING SYSTEMS

## Outstanding emerging and transdisciplinary research in the life sciences



Academy 4 is shaping the future of life sciences research at Université Côte d'Azur. It is funding projects of outstanding quality to foster the emergence of a strong local bio-industry by supporting the development of new and original experimental approaches with high added value in four areas:

1. **Research** - To attract excellent researchers to the Côte d'Azur region, Academy 4 co-funds the establishment of new teams, young ATIP-Avenir researchers, or senior researchers who are pre-selected to work on funded projects. In 2023, an ERC-funded neurobiology team and a biochemistry team with a junior professor chair joined the Université Côte d'Azur biology community. The Academy also co-funded two interdisciplinary theses this year, in partnership with the LIFE and HEALTHY Graduate Schools.
2. **Education** - The Academy's transdisciplinary base is strengthened by Master's internship projects carried out in interdisciplinary pairs. Each project involves two teams supervising two Master's students from different disciplines, one studying biology or medicine and the other from another discipline such as mathematics, physics or computer science. In 2023, six projects of interdisciplinary pairs were funded in the amount of €144K.
3. **Shared Facilities** - Academy 4 supports shared infrastructure projects, which are nurtured and implemented at Université Côte d'Azur, such as the web portal project for storing and managing omics bioinformatics analyses, as part of the Facility of Excellence project 4D-OMICS in partnership with Aix-Marseille Université and the University Hospital Institute (IHU) project in NICE.
4. **Scientific Leadership and Promotion** - In 2023, Academy 4 financed seven scientific and public conferences. In addition, annual and monthly meetings were organized to promote and disseminate the results of interdisciplinary and/or Academy-funded projects. The first graduation ceremony was held for PhD students in the Life and Health Sciences who started in 2019 and graduated in 2023.

# Examples of projects



## FRAMBOMIX PROJECT

This is a master's project for an interdisciplinary pair, combining integrated multi-omics analysis and computational modeling for the comprehensive understanding of novel roles of the protein FMRP in the alteration of alternative splicing and the etiology of Fragile X syndrome.



Carole GWIZDEK  
CNRS Researcher, IPMC & Junior  
Professor Silvia BOTTINI  
UniCA ISA INRAE



Neurobiology, medicine,  
bioinformatics, machine learning,  
multi-omics



Fragile X syndrome, nuclear FMRP  
protein, alternative splicing



Karine ROBBE-SERMESANT  
Associate Professor UniCA ISA INRAE &  
Olivier CROCE, Research Officer CNRS  
IRCAN



Biology, Mathematics, Bio-Informatics,  
Omic Physics



Interdisciplinarity, algorithms, imaging,  
genomics, research, education, open  
days

## PROJET JOBIM 2023

JOBIM (*Journées Ouvertes en Biologie, Informatique et Mathématiques*) is a scientific event that consists of open days in biology, computer science and mathematics, bringing together the French computational biology and bioinformatics communities. In 2023, this event was held in Nice for the first time, from June 27 to 30.

## H-IMAGE PROJECT

The overall aim of Julien MERCIER's PhD project, funded for three years by Academy 4 and EUR HEALTHY, is to define reference biomarkers of "normal aging" based on intrinsic physiological capacities assessed by a detailed analysis of the individual's vitality capacity.



Serge COLSON  
UniCA LAMHESS & Professor  
Anne-Sophie ROUSSEAU  
UniCA iBV



Biology, Immunology, Sport,  
Physiology



T lymphocyte, adipose tissue, aging,  
electromyography, neuromuscular  
function, exercise, motor neuron



Kévin LEBRIGAND  
CNRS Research Officer IPMC.



Biology, genomics, proteomics, multi-  
omics, bioinformatics.



Networks, website, education, research,  
statistical analysis.

## ODIN PROJECT

This project is setting up a shared web portal to store and manage bioinformatics analyses of omics quantitative biology data produced by technology platforms and research teams in Université Côte d'Azur's network. It will disseminate tools, methods and best practices within the community.



## FOCUS - ETHOFEARLESS PROJECT

### Objective:

Project leader Bianca Silva is interested in the neuronal basis of emotions.

After obtaining a Master's degree in Medical Biotechnology from the University of Milan, where she studied oxytocin receptors, Bianca joined Cornelius Gross's group at the European Molecular Biology Laboratory Rome for a thesis on the brain's mechanisms for generating fear. She discovered that social and predator fear, two evolutionarily conserved stimuli, are not mediated by classical fear circuits via the amygdala, but instead depend on the hypothalamus.

For her postdoctoral research, she is focusing on a more translational aspect of basic neuroscience, looking at how to attenuate long-lasting memories of fear. She joined Johannes Graff's group at the École Polytechnique Fédérale de Lausanne on a European Molecular Biology Organization postdoctoral fellowship. Using chemogenetics, optogenetics, functional connectivity analysis, calcium imaging and viral tracing, she discovered a thalamo-amygdala circuit that mediates the attenuation of fearful memories.

In 2021, Bianca won an ERC Starting Grant and established a laboratory at the Italian National Research Council. Finally, in October 2023, she joined Université Côte d'Azur at the Institute of Molecular and Cellular Pharmacology (IPMC), with co-funding from Academy 4 to develop her interdisciplinary ERC project on the Côte d'Azur.

### Method:

Today, Bianca Silva's laboratory is analyzing functional brain connectivity to investigate how intense emotional memories can be alleviated. They are using light-sheet microscopy and optogenetic techniques to examine the contribution of neural networks in the medial thalamus that orchestrate the activity of distributed memory circuits in an integrated manner. Bianca Silva also studies pathological alterations in these thalamo-centric circuits in mouse models of fear-related disorders. The aim is to identify new strategies for reversing these alterations in fear circuits and pave the way for new therapeutic interventions in post-traumatic stress disorder.

Young Italian neurobiologist Bianca Silva, winner of an ERC starting grant in 2021, joins the Université Côte d'Azur biology community by setting up her new team at the IPMC to research the neural circuits responsible for attenuating traumatic memories. [Personal website](#) & [Main publications](#).



Bianca Ambrogina SILVA  
CNRS Research Officer  
IPMC.



Neurobiology, optogenetics,  
bioinformatics, psychology,  
imaging, microscopy.



Post-traumatic stress  
disorder, thalamus,  
chemogenetics, ethology.



# ACADEMY 5 HUMAN SOCIETIES, IDEAS AND ENVIRONMENTS

## Les axes de recherche de l'Académie 5

### AXE 1 - Savoirs, idées, langage, société



### AXE 2 – Changements en interaction avec l'environnement



### AXE 2 - Art, création, sciences - Art et santé



## Main activities in 2023

Université Côte d'Azur's Academy 5 [Human Societies, Ideas and Environments](#) works with the 19 humanities and social sciences research laboratories within the MSHS Sud-Est and with the five Graduate Schools (EURs) to which they belong, as well as with six art schools and one business school ([see the Academy 5 website](#)).

In 2023, Academy 5 published four [calls for proposals](#):

- Research (€10K max.) and events (€5K)
- Master's internships (€6K)
- Thesis (€72K)
- Consortium (€50K)

These grants have funded [excellent research](#) in the amount of €318K, by providing support to fourteen research projects, five Masters' internships, co-funding one [thesis](#) with EUR Healthy and two large-scale, multi-year [Consortium](#) projects, as well as [Scientific events](#) in the amount of €88K.

A major project centered around communication strategy was implemented: Academy 5 overhauled its [website](#), setting up [project pages](#) to provide each project leader with a means of communicating their research, an Academy 5 [HAL collection](#), a showcase of its Thematic Days on [Épi-Revel](#), as well as a [services and tools](#) page linking researchers in Academy 5 to other IdEx and Université Côte d'Azur services.

# Examples of projects



## Theme 1 - HiSiNum

A consortium project on rejuvenating research practices through digital humanities, and the epistemological impact of new tools and their ability to expand the scope of disciplines.



Muriel DAL PONT LEGRAND  
GREDEG



philosophy, literature, history,  
economic sciences, digital humanities



corpus, practices, artificial intelligence,  
history of ideas



Yvan GASTAUT  
URMIS



sociology, political science, history,  
law, anthropology, geography



narratives, mobility, migration, state,  
borders, art, solidarity

## Theme 1 - RéMMI

A consortium project to produce and disseminate stories of migration in a variety of historical and geographical contexts, using different documents and media.

## Theme 2 - EARTH16-18

This project intersects critical race theory and ecocriticism in Britain and Europe (16th-18th centuries) to address the link between race and environment in representations and discourses.



Emmanuelle PERALDO and  
Nora GALLAND - CTELA



literature, theatre studies, geography,  
cultural studies



sensoriality, art, health, disability,  
virtual/extended reality



Auriane GROS and Valeria MANERA  
CoBTek



health, human and social sciences



sensoriality, art, health, disability,  
virtual/extended reality

## Theme 3 - ImmArSens

This project, co-funded with EUR Healthy, is a thesis on the interactions between sensoriality and motor skills and their impact on cognitive and/or sensory disorders.



## FOCUS - ENHARMONIE (Theme 3)

Academy 5 supported the conference [Musician: A high-risk profession?](#), which aimed in particular at disseminating the results of the Enharmonie project, also supported by the Academy. This scientific conference was open to the public and brought together local and international researchers to share the latest multidisciplinary studies on the practice and health of musicians. It concluded with a musical performance.

### Objective:

The Enharmonie project focuses on the overexposure of professional orchestral musicians to musculoskeletal disorders, which has been highlighted by research since the 1980s but poorly addressed by the sector. These disorders are associated with instrumental practice and are accompanied by severe chronic symptoms that affect the way musicians play. The main aim of the research project is to characterize the activity of professional orchestral musicians, in terms of both exercise physiology and organizational context, in order to identify risk factors for disorders.

### Method:

The team is conducting a national longitudinal prospective experimental study combining cardiorespiratory measurements, in the laboratory and in professional practice, actimetry measurements, psychometric questionnaires and health data collected from several orchestras (Cannes, Lille, Monaco, Nice, Toulouse, Marseille and Lyon).

The project is led by a tripartite, multidisciplinary team:

- Dirk STEINER, Professor, Social Psychology of Work and Organizations, LAPCOS
- Anne MAUGUE, doctoral student at LAPCOS and professional orchestral musician (Orchestre Philharmonique de Monte-Carlo)
- Serge Colson, Professor, Exercise Physiology, LAMHESS



Using a bio-psycho-social approach, the study characterizes the constraints of the profession of working orchestral musician, combining the investigative methods of exercise physiology and work and organizational psychology.





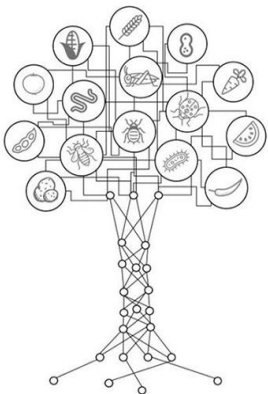
# CENTER FOR MODELING, SIMULATION AND INTERACTIONS

# CENTER FOR MODELING, SIMULATION AND INTERACTIONS

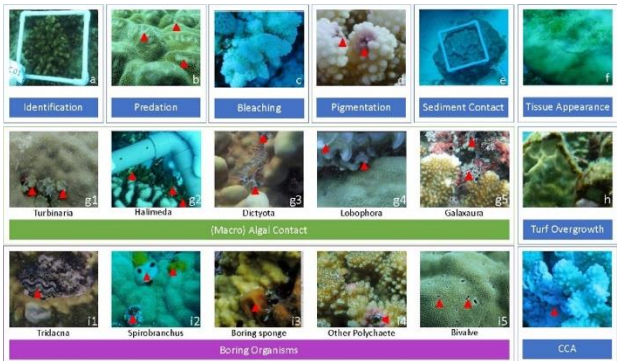
In 2023, MSI entered a new phase with a renewed steering committee, the creation of a scientific committee and the appointment of a new director beginning in 2024.

Highlights of our research activities include:

- The development of NERD - Nematode Effector Discovery, an AI tool for plant pest control, as part of the [AI and multi-omics in plant health](#) research project, led by [the Game team](#) at INRAE (ISA - Institut Sophia Agrobiotech), in collaboration with two MSI engineers. NERD combines supervised and unsupervised approaches, using a pre-trained generative model (Protrans) and a dense neural network. Based on protein sequence alone, NERD predicts the probability of a protein being a potential effector. This approach makes it possible to identify candidate effectors for experimental validation, paving the way for more effective and environmentally-friendly control of plant pests.



- An MSI engineer contributed to research work on nematode genomes, resulting in the publication of a scientific article in *Nature Communications* (February 2024), titled “Unzipped assemblies of polyploid root-knot nematode genomes reveal new kinds of unilateral composite telomeric repeats” DOI: 10.1038/s41467-024-44914-y.
- In September, an MSI engineer was recruited for a junior professorship at INRAe.
- In September, a doctoral student defended a thesis on [Indexing coral health using an AI-based approach](#). This doctorate was funded by MSI and carried out at IRCAN under the supervision of Prof. Eric Gilson and Dr Eric Röttinger, in collaboration with an MSI engineer.



Annotations of distinctive features on coral images.  
© Tara Ocean Foundation.  
Developed by Megan Clampitt.



Dr Megan Clampitt, during a scuba dive as part of her research on coral.



## Administration of the Azzurra Computing Center

Since 2019, the MSI, in conjunction with the [DSI](#), has been responsible for maintaining the [Azzurra cluster](#), providing access to its resources and supporting its use.

The 2023 activity report of the cluster shows increases in the number of computation hours used (8,732,763 hours, 22% higher than in 2022), the number of research projects (60) for which assistance by an MSI team member was provided (up by 43%) and the number of people (143) with an Azzurra user account (an increase of 33.64%).

The calculations performed led to 18 publications in scientific journals and 23 oral presentations at conferences. In addition, 100 students benefited from access to an Azzurra account as part of the master's courses GE5Polytech, HydroProtech and INUM.

## Contributions to university strategy: Open Science, Ulysseus network, bioinformatics network

MSI is actively involved in DATAZUR, a project led by Université Côte d'Azur aimed at:

- Identifying and meeting the needs for organizing, storing and disseminating research data;
- Raising awareness, advising and guiding the university's scientific community;
- Implementing a cross-disciplinary education program.

A senior MSI engineer joined the university's DATAZUR deployment team, following the strategy of the French Ministry of Higher Education's [Recherche Data Gouv](#) project, promoting open science.

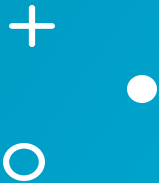
In October, an MSI engineer was also part of the delegation at the [Ulysseus-Da Nang Forum on Education, Research and Innovation for Smart Cities](#). The aim was to establish collaborations in the areas of education and research between members of the Ulysseus European alliance, including Université Côte d'Azur and Da Nang University in Vietnam.

Finally, an MSI engineer conducted a preliminary survey of resources and needs in bioinformatics within the university, with the aim of creating a university-wide consortium of people involved in bioinformatics.

MSI also continued to support large-scale scientific events, such as the 6th edition of the [SophIA Summit](#) (November 22-24, 2023), as well as smaller events ([MOMI 2023](#), April 3-4, 2023).



**XR<sup>2</sup>C<sup>2</sup> REFERENCE  
CENTER**



# XR<sup>2</sup>C<sup>2</sup> EXTENDED REALITY RESEARCH AND CREATIVE CENTER

In the field of the creative industries and more specifically in augmented reality, XR<sup>2</sup>C<sup>2</sup> holds a leading position as a dynamic center that connects laboratories, Graduate Schools (EURs), national research centers, higher-education institutions and art schools and centers. Thanks to its multiple collaborations, XR<sup>2</sup>C<sup>2</sup> spans different disciplines and is backing vibrant and fertile XR research.

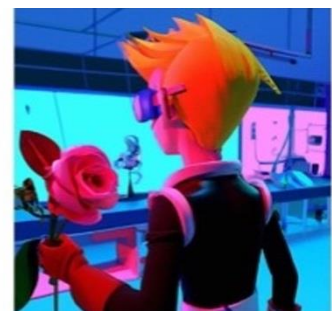
IdEx granted the center €50K in financial support in 2023, and the center obtained an additional €268K in co-funding.



IdEx funds covered part of the organization of two artistic residencies in 2023. One was awarded to Jonathan Bell, and it led to the creation of an immersive opera, and the second to Yara Feghali, who created a virtual herbarium of plants from the Côte d'Azur.

These residencies offer artists working with XR an environment that encourages experimentation, while strengthening the epistemological and methodological aspects of research and creation. They provide the opportunity to test new technologies and export these use-cases or have them serve as examples of applications.

IdEx funds were also used to set up a PhD Lab, where PhD students working in immersive research projects can share their skills and experience. It also funded an immersive dome and equipment for various research projects.



# OTHER ACTIONS SUPPORTED BY IDEX





# OTHER ACTIONS SUPPORTED BY IDEX

IdEx acts as a lever and driver of growth. It contributes to the overall development and deployment of the target university.

Through the UCA J.E.D.I. Foundation, Université Côte d'Azur's IdEx has maintained its support in 2023 to the components and to some of the university's actions.

## University improvement initiatives

In 2023, IdEx continued to support the university's improvement initiatives, notably by funding the personnel hired to introduce transformations, such as the overhaul of the Human Resources Information System and redesign of the university's website and by funding the Center for Active Pedagogy.

## Graduate Schools (EURs)

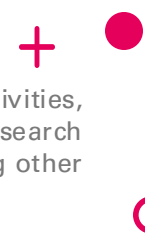
In 2023, IdEx provided each EUR with €110K in financial support allocated according to a roadmap based on IdEx objectives. IdEx also funded thesis grants awarded by each EUR.

Use of the IdEx allocation depended on the objectives and needs of each graduate school. For example, EUR LEX used the IdEx allocation to pay a research engineer and boost multidisciplinary research, while EUR ELMI used the IdEx contribution to continue to fund a post-doctoral contract. The IdEx allocation to EUR Odyssée served to partly fund the salary of an assistant in charge of apprenticeships and corporate relations, and for projects supporting doctoral programs and libraries.

With its IdEx allocation, EUR CREATES was able to issue five calls for proposals in 2023. These calls funded 19 projects involving scientific events and six emerging, innovation or incubation projects. They also provided support for the archeological excavation school, and funded three publications, three master's internships and eleven doctoral mobility grants.

EUR Healthy used its IdEx allocation to finance four research projects, four projects to disseminate knowledge and develop interactions between researchers and the public, and the "healthy-athon", an innovative training program, in which participants develop the best multidisciplinary care project within a limited time.

The IdEx allocation was used by EUR Life to fund several events, pre-finance the "MemBioMed" Erasmus+ master's project, and contribute financially to the Franco-Indian campus by paying for six visits by Indian students, eight professor exchanges and eight bilateral master's internships. Coordination of the prestigious Nucleate UniCA program was also entrusted to the graduate school, with support from IdEx.



EUR Spectrum spent part of the budget allocated by IdEx on scientific outreach activities, and another part on boosting the attractiveness of its programs by funding five research internships, a master's scholarship and promotion of its master's programs, among other things.

## NeuroMod

The €110K IdEx allocation was used by the NeuroMod Institute to fund five research projects in 2023 as part of an ongoing call for proposals, in addition to the salary of Evgenia Kartsaki, a research engineer in computer science and mathematics working on the development and improvement of scientific application software for members of the institute.

The IdEx allocation also enabled NeuroMod to leverage further funds to implement its actions. The master's of science degree in modeling for neuronal and cognitive systems supervised by Neuromod was created in 2018 with an initial IdEx allocation and has been self-sufficient since 2022. The tuition fees have generated the revenue needed to cover all the outside professors and 12 of the internships, along with some operating expenses.

## Innovation and Partnership Institutes

**The Mediterranean Institute of Risk, Environment and Sustainable Development - IMREDD** - was awarded an IdEx grant of €200K in 2023 that covered the salaries of three engineers: an energy systems engineer, an embedded systems engineer and a smart home and energy engineer.

The **Flavors, Fragrances and Cosmetics** Innovation and Partnership Institute received €150K in 2023. This support is funding specialized research engineers who are able to rapidly take on projects of all sizes. This Innovation and Partnership Institute experienced a 77% increase in the number of requests for collaboration from the business community compared with 2022 and ended the year with a surplus balance with direct or indirect leverage effects, notably on the implementation of CIFRE theses in affiliated laboratories.

**+ • LIST OF IDEX-FUNDED  
PROJECTS LAUNCHED  
IN 2023**





Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Investigating a method for predicting long-term knowledge and skill retention during its initial acquisition	Amanda Edmonds	BCL	Research Program - Excellence fellowships for young researchers	€118,234
Q1: Quantitative analysis of the tumor extracellular matrix	Ellen Van Obberghen-Schilling	IBV	Research Program - Excellence fellowships for young researchers	€118,234
Decision-making for others under ambiguous conditions in the domain of climate change	Agnès Festré	GREDEG	Research Program - Excellence fellowships for young researchers	€118,234
Linking non-indigenous species and recovery potential	Luisa Mangialajo	ECOSEAS	Research Program - Excellence fellowships for young researchers	€118,234
Speaking women/Women's voices: inventory and map of women speakers in Italy (1900 to 1925)	Barbara Meazzi	CMMC	Research Program - Excellence fellowships for young researchers	€118,234
Deciphering the lung alveolar capillary endothelium repair process at the spatial and single-cell level	Bernard Mari	IPMC	Research Program - Excellence fellowships for young researchers	€118,234
Reconfigurable laser dynamics at exceptional points for Artificial Intelligence	Fabrice Raineri	INPHYNI	Research Program - Excellence fellowships for young researchers	€117,594
Singular metric in Kähler geometry and classification of neighborhoods of embedded compact complex manifolds	Laurent Stolovitch	LJAD	Research Program - Excellence fellowships for young researchers	€118,234
The Formation of Small Satellites in the Solar System	Patrick Michel	LAGRANGE	Research Program - Excellence fellowships for young researchers	€118,234
Tracing the inception of the galaxy cluster era	Rémi Adam	LAGRANGE	Research Program - Excellence fellowships for young researchers	€118,234
Defining the role of peritoneal cavity macrophages in ovarian cancer progression	Ivanov Stoyan	LP2M	Research Program - Excellence fellowships for young researchers	€118,234
Innovative materials. Graphene-based self-healing coatings	Alice Mija	ICN	Research Program - Advanced research program grant	€80,107
The instructed second language acquisition of English modality by French speakers: a cognitive linguistics approach	Amanda Edmonds	BCL	Research Program - Advanced research program grant	€101,002
A novel neural framework to assess movement control in health and disease	François Hug	LAMHESS	Research Program - Advanced research program grant	€75,860
Single photon source with 3D cold atomic ensembles	Mathilde Hugbart	INPHYNI	Research Program - Advanced research program grant	€71,941
Global law: universality, diversity, hybridity?	Anne Millet-Devalle	LADIE	Research Program - Visiting researcher program	€9,600
Context-aware geospatial-network decision support system: Integrating geoAI, business intelligence, and ChatGPT for smart city planning and resilience in near real-time	Jackie Krafft	GREDEG	Research Program - Visiting researcher program	€9,600



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Visiting professor - Revisiting propositional anaphora in the scope of cross-linguistic experimentation	Friederike Moltmann	BCL	Research Program - Visiting researcher program	€4,800
Institute of Aging	Dmitry Bulavin	IRCAN	Research Program - Strategic program	€100,000
HR - Doctoral attractivity package	Nicolas Coltice	GEOAZUR	Research Program - Strategic program	€144,082
Adipocyte	Christian Roux	LAMHESS	Research Program - Strategic program	€200,000
Attractivity package – Senior Researcher	Michel Mitov	INPHYNI	Research Program	€150,000
Attractivity package – Researcher	Ludovic Keiser	INPHYNI	Research Program	€50,000
Attractivity package – Researcher	Hala Alarashi	CEPAM	Research Program	€50,000
Attractivity package – Researcher	Léa Drieu	CEPAM	Research Program	€50,000
Attractivity package – Researcher	Agnès Banreti	IBV	Research Program	€50,000
Attractivity package – Researcher	Yasmine Neirijnck	IBV	Research Program	€50,000
Attractivity package – Researcher	Isabelle Tristani	LJAD	Research Program	€50,000
Attractivity package – Researcher	Marta Spinelli	LAGRANGE	Research Program	€50,000
Attractivity package – Researcher	Julia Truch	ISA	Research Program	€50,000
Attractivity package – Researcher	Alexandre Truc	GREDEG	Research Program	€50,000
Attractivity package – Researcher	Rémi Adam	LAGRANGE	Research Program	€50,000
Attractivity package – Researcher	Romain Melot	ICN	Research Program	€50,000
Attractivity package – Researcher	Rémi Colom	CRHEA	Research Program	€50,000
Attractivity package – Researcher	Nikolaos Angelopoulos	BCL	Research Program	€50,000
Attractivity package – Researcher	Victor David	Inria	Research Program	€50,000
Attractivity package – Researcher	Michal Balazsia	Inria	Research Program	€50,000
Attractivity package – Researcher	Ivan Beschastnyi	Inria	Research Program	€50,000
Attractivity package – Researcher	André Nusser	Inria	Research Program	€50,000
LIA ROPSE grant - ECOSEAS 2023/2024	Marie-Yasmine Bottein	ECOSEAS	LIA ROPSE - Master's degree scholarships	€3,600
LIA ROPSE grant - IRCAN 2023/2024	Olivier Croce	IRCAN	LIA ROPSE - Master's degree scholarships	€3,600
President's award 2023	Raphael Rapetti-Mauss	IBV	Governance	€20,000
Special award 2023 - Alesia Herasimenka	Jean-Baptiste Pomet	Inria	Governance	€20,000
Promoting immigrant youth's resilience and positive adjustment in the face of ethnicity-based social exclusion	Catherine Blaya	URMIS	Governance	€86,281



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Creative problem solving with educational robots	Margarida Romero	LINE	Governance	€73,608
"Point of view" as a compositional means of forming the artistic image (based on John Fowles's novel The Collector).	Amanda Edmonds	BCL	Governance	€73,608
BESIGN Workshop 2023	Maurille Larivière	Other	Governance	€10,000
Ion Scotta Laboratory ISA - Special award - Medal ceremony	Michela Ion Scotta	ISA	Governance	€20,000
Patrice Genevet Laboratory CRHEA - Special award - Medal ceremony	Patrice Genevet	CRHEA	Governance	€20,000
Non-GMO improvement of microorganisms through Darwinian selection pressure	Olivier Bernard	Inria	Innovation Program - Call for DeepTech Start-up proposals	€50,000
Development of sustainable bio-based thermosetting resins for high-performance applications (space, automotive, etc.)	Alice Mija	ICN	Innovation Program - Call for DeepTech Start-up proposals	€50,000
Development of a treatment for neovascular glaucoma, a complication associated with the treatment of uveal melanoma (a side effect of proton therapy), funded by the call for DeepTech Start-up proposals (AngioFlame).	Gilles Pages	IRCAN	Innovation Program - Call for Innovation Partnership proposals	€50,000
Determination of the complete signature of an ObAdEx biotherapy product that can prevent and treat metabolic disorders associated with obesity; and development of culture media suitable for ObAdEx biotherapy.	Georges Vassaux	IPMC	Innovation Program - Call for Innovation Partnership proposals	€30,000
Pépité Paca Est Start Program	Baptiste Chefdeville	Other	Student entrepreneurship and student life	€8,410
IoT aviation kit	Imourane Abdoulaye	LEAT	ICE Step'Up Challenge	€3,333
Deepsy project	Evan Adeny		ICE Step'Up Challenge	€4,286
EXADEX-INNOV	Vincent Dani		ICE Step'Up Challenge	€13,000
Doctoral mobility 2022-2023 - Monell Chemical Senses Center, Philadelphia	Jérémie Topin	ICN	International Program	€6,000
Bridge ERC - Fabrice Raineri	Fabrice Raineri	INPHYNI	International Program	€50,000
Bridge ERC – Gael Cristofari	Gael Cristofari	IRCAN	International Program	€50,000
Bridge ERC – Jean-Sylvestre Bergé	Jean-Sylvestre Bergé	GREDEG	International Program	€30,000
Remote sensing of gases involved in global climate regulation	Bernard Dussardier	INPHYNI	International Program - Major partnerships	€30,000





Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Neuromuscular and hemodynamic implications of physical exercise on health and hypertension: the role of group III-IV muscle afferents	Grégory Blain	LAMHESS	International Program - Major partnerships	€10,000
ULAVAL - MIAGE	Michel Winter		International Program - Major partnerships	€10,000
ICN support as part of Sentinelle Nord - project "Essential oils from Nordic plants"	Xavier Fernandez	ICN	International Program - Major partnerships	€30,000
Speciation of selected naturally occurring radionuclides (Ra, Th, U) in the context of rare earth mining	Christophe Den Auwer	ICN	International Program - Major partnerships	€80,000
Summer school: A systems approach to the promotion of healthy lifestyles for healthy aging throughout life	Anne Vuillemin	LAMHESS	International Program - ULYSSEUS	€20,000
Linking climate change, environmental degradation and harmful algal blooms in Marine Coastal areas	Marie-Yasmine Dechraoui Bottein	ECOSEAS	International Program - ULYSSEUS	€20,000
Ulysseus Spring School in PDEs	Yves d'Angelo	LJAD	International Program - ULYSSEUS	€21,000
Bridge ERC – Fabrice Raineri	Fabrice Raineri	INPHYNI	Governance	€50,000
Bridge ERC – Gael Cristofari	Gael Cristofari	IRCAN	Governance	€50,000
Bridge ERC – Jean-Sylvestre Bergé	Jean-Sylvestre Bergé	GREDEG	Governance	€30,000
Bilingual bachelor's degree	Florence Crouzatier-Durand	CERDACFF	Education Program	€20,000
MOMI 2023 - The world of industrial mathematics	Bernard Tamba Sandouno	Inria	MSI - Other than calls for proposals	€2,000
AlgoTel/CoRes conference, telecommunications networks, Cargèse, May 22 to 26, 2023	Christelle Caillouet	I3S	Academy 1 - Networks, Information and Digital Society	€2,000
Visit of Ass. Prof. Rich Nguyen from the university of Virginia, USA, from January 1 to July 31, 2024	Fabien Ferrero	LEAT	Academy 1 - Networks, Information and Digital Society	€5,000
2023 International mobility program for doctoral students	Walid Dabbous	Other	Academy 1 - Networks, Information and Digital Society	€22,100
Participation in a summer/winter school in 2023	Nathalie Currid	Other	Academy 1 - Networks, Information and Digital Society	€10,000
Symposium "Biological Image Processing and Analysis 2" in February 2024	Laure Blanc-Féraud	I3S	Academy 1 - Networks, Information and Digital Society	€1,500
Joint study day GDR TAL (Automatic Language Processing) - GDR RADIA (Reasoning, Learning, and Decision-making with Artificial Intelligence), November 27, 2023	Elena Cabrio	I3S	Academy 1 - Networks, Information and Digital Society	€2,500



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Visit of Ass. Prof. Phan Thi Ha Duong from the Vietnam Academy of Science and Technology in Nov. - Dec. 2023	Christophe Crespelle	I3S	Academy 1 - Networks, Information and Digital Society	€977
23rd National Microwave Day 2024, Palais des Congrès, Juan les Pins, June 4 to 7, 2024	Claire Migliaccio	LEAT	Academy 1 - Networks, Information and Digital Society	€5,000
Open Days in Biology, Computer Science and Mathematics from June 27 to 30, 2023 in Nice, France	Edoardo Sarti	Inria	Academy 1 - Networks, Information and Digital Society	€2,500
New operations on words	Enrico Formenti	I3S	Academy 1 - Networks, Information and Digital Society	€15,000
Algebra of therapeutic molecules	Gilles Bernot	I3S	Academy 1 - Networks, Information and Digital Society	€19,000
Minimization of the average and weighted delay in scheduling under constraints	Arnaud Malapert	I3S	Academy 1 - Networks, Information and Digital Society	€25,000
Exploring the functional structure of the retina with closed loop stimulation: A physiological and computational approach	Bruno Cessac	Inria	Academy 1 - Networks, Information and Digital Society	€18,000
Modeling epistemic vigilance and its institutions in the communication of shared information on the Internet	Jean-Sébastien Vayre	GREDEG	Academy 1 - Networks, Information and Digital Society	€85,000
Network monitoring and troubleshooting from within the browser: a data-driven approach	Chadi Barakat	Inria	Academy 1 - Networks, Information and Digital Society	€70,000
Doctoral mobility of Tarek Bouaza at the Australian National University, Canberra, Australia, from Jan. 6 to Feb. 2, 2024	Tarek Hamel	I3S	Académie 1 - Réseaux, Information et Société Numérique	2 500 €
Doctoral mobility of Simone Ebert at the University of Valparaiso, Chile from Oct. 13 to June 12, 2023	Bruno Cessac	INRIA	Académie 1 - Réseaux, Information et Société Numérique	4 600 €
Doctoral mobility of David Loiseaux at Columbia University, NY, USA from Jan. 12 to Apr. 3, 2024	Frédéric Cazals	INRIA	Académie 1 - Réseaux, Information et Société Numérique	5 000 €
Doctoral mobility of Tomas Lopes de Oliveira at the Australian National University, Canberra, Australia, from Jan. 6 to Feb. 2, 2024	Tarek Hamel	I3S	Académie 1 - Réseaux, Information et Société Numérique	2 500 €
Doctoral mobility of Francesco Positano at The School of ECE, Georgia Institute of Technology, Atlanta, USA, from Mar. 4 to May 20, 2024	Leonardo Lizzi	LEAT	Académie 1 - Réseaux, Information et Société Numérique	7 500 €
Brain-inspired unsupervised multimodal learning method for fast motion measurement by self-mixing interferometry	Laurent Rodriguez	LEAT	Academy 1 - Networks, Information and Digital Society	€75,000
Visit of Ass. Prof. Phan Thi Ha Duong from the Vietnam Academy of Science and Technology in Sep. 2023	Christophe Crespelle	I3S	Academy 1 - Networks, Information and Digital Society	€4,058
Exceptional grant - Alesia Herasimenka - Complex Day 2023	Alesia Herasimenka	LJAD	Academy 2 - Complex Systems	€2,542
Development of zein based bioresins	Alice Mija	ICN	Academy 2 - Complex Systems	€7,500
Tremplin Complex grant 2023 "2DNEUROTWIST"	Antoine Reserbat-Plantey	CRHEA	Academy 2 - Complex Systems	€5,000



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Emulating exotic quantum matter with indirect excitons	Camille Lagoin	CRHEA	Academy 2 - Complex Systems	€30,000
Towards sustainable resource management: Application of optimal control theory	Djema Walid	Inria	Academy 2 - Complex Systems	€7,500
RL3 Reciprocity and longitudinal localization of light	Geoffroy Aubry	INPHYNI	Academy 2 - Complex Systems	€19,900
Modelling particle dynamics in superfluid helium	Giorgio Krstulovic	LAGRANGE	Academy 2 - Complex Systems	€7,500
Co-funding - BioRegul School 2023, Formal modelling of biological regulation networks	Jean-Paul Comet	I3S	Academy 2 - Complex Systems	€2,000
Co-funding - JECIS 2023 - Cognition, Information and Society Study Days	Jean-Sébastien Vayre	GREDEG	Academy 2 - Complex Systems	€2,000
Understanding tree embolism with biomimetic models	Ludovic Keiser	INPHYNI	Academy 2 - Complex Systems	€28,171
Asteroid families: the Athor and Zita complex system	Marco Delbo	LAGRANGE	Academy 2 - Complex Systems	€2,500
Waiting time fluctuations in disordered quantum conductors	Mathias Albert	INPHYNI	Academy 2 - Complex Systems	€5,000
SiPhon Single photon source with 3D cold atomic ensembles	Mathilde Hugbart	INPHYNI	Academy 2 - Complex Systems	€3,500
Complex Systems Chair 2023/2025	Médéric Boquien	LAGRANGE	Academy 2 - Complex Systems	€20,000
Complex Systems Chair 2023/2025	Michel Mitov	INPHYNI	Academy 2 - Complex Systems	€20,000
Numerical investigations of novel spectral schemes based on relaxation and purging methods for removal of tygers and shock-capture in hyperbolic problems	Nicolas Besse	LAGRANGE	Academy 2 - Complex Systems	€7,500
Tremplin Complex grant 2023 "PhaseS: Social phase transitions"	Paolo Zeppini	GREDEG	Academy 2 - Complex Systems	€4,000
Mecabionic thematic semester 2024	Rachele Allena	LJAD	Academy 2 - Complex Systems	€60,000
Complex Systems Chair 2023/2025	Sephane Abide	LJAD	Academy 2 - Complex Systems	€20,000
Exploring new avenues in Cosmic-Ray transport models at the Côte d'Azur Observatory	Silvio Sergio Cerri	LAGRANGE	Academy 2 - Complex Systems	€18,090
Spontaneous stochasticity in multifractal random flows	Simon Thalabard	INPHYNI	Academy 2 - Complex Systems	€7,500
Exceptional grant - Simone Ebert - Complex Day 2023	Simone Ebert	Inria	Academy 2 - Complex Systems	€2,000
Mobile Brain/Body Imaging in Aging research	Stephen Ramanoël	LAMHESS	Academy 2 - Complex Systems	€22,085
Dynamic methods in pseudo-Riemannian geometry	Vincent Pecaistaing	LJAD	Academy 2 - Complex Systems	€22,000
Cascade-induced patterns in turbulent systems	Dario Vincenzi	LJAD	Academy 2 - Complex Systems	€7,500
Ambient vibration testing and vulnerability assessment of Inca and colonial buildings in the city of Cusco, Peru.	Andy Combey	GEOAZUR	Academy 3 - Space, Environment, Risks and Resilience	€6,300
World of Industrial Mathematics 2023 workshop	Bernard Tamba Sandouno	Inria	Academy 3 - Space, Environment, Risks and Resilience	€1,000
Anthropocene, collapsology & environmental justice: Nature's new challenges for responsible consumption	Damien Bazin	GREDEG	Academy 3 - Space, Environment, Risks and Resilience	€1,750



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Deformation and fluid circulation in relationship with the Pedernales earthquake	François Michaud	GEOAZUR	Academy 3 - Space, Environment, Risks and Resilience	€7,000
Deciphering deep-marine sedimentary archives of past extreme events East of Taiwan	Gueorgui Ratzov	GEOAZUR	Academy 3 - Space, Environment, Risks and Resilience	€6,940
Psychiatric disorders and comorbidities caused by pollution in the mediterranean area	Jacques Noël	IPMC	Academy 3 - Space, Environment, Risks and Resilience	€7,000
Application of new technologies in combination with traditional field mapping to assess the conservation status of marine forests in the last hot spot of biodiversity of the French Riviera.	Jana Verdura	ECOSEAS	Academy 3 - Space, Environment, Risks and Resilience	€5,876
Network on non-target effects of biocontrols	Louise Van Oudenhove	ISA	Academy 3 - Space, Environment, Risks and Resilience	€30,000
Ecological resilience and biodiversity of tropical forests after the cessation of human activities	Lydie Dussol	CEPAM	Academy 3 - Space, Environment, Risks and Resilience	€7,000
Maralpine watersheds facing change: storm Alex, climate change and anthropic pressures - Field trips of the CNFG Hydrosystems Commission	Margot CHAPUIS	ESPACE	Academy 3 - Space, Environment, Risks and Resilience	€3,000
The role of benthic communities in the production and transfer of toxins from marine microalgae: environmental, health and economic issues	Marie-Yasmine Dechraoui Bottein	ECOSEAS	Academy 3 - Space, Environment, Risks and Resilience	€55,000
Study day "The carbon adjustment mechanism at borders"	Nicolas Pigeon	LADIE	Academy 3 - Space, Environment, Risks and Resilience	€2,000
Electromigration to remove phosphate and ammonium ions from an aquaculture pond by adsorption	Charlotte Hurel	INPHYNI	Academy 3 - Space, Environment, Risks and Resilience	€37,000
Development of a serpin1 inhibitor for the treatment of kidney cancer	Maeva Dufies	IRCAN	Academy 4 - Complexity and Diversity of Living Systems	€24,000
Collaboration / Visiting Scientist: New tools for investigating pH-dependent mechanisms of plant oomycete interactions: collaboration between INRAE, Université Côte d'Azur and Wageningen University Laboratories	Eric Galiana	ISA	Academy 4 - Complexity and Diversity of Living Systems	€1,500
Nice-seq: an interactive genomic forum of the Nice bay area	Gianni Liti	IRCAN	Academy 4 - Complexity and Diversity of Living Systems	€3,000
Doctoral thesis co-funded by Academy 4 & EUR LIFE: Addressing oncoproteins to the lysosome using synthetic chimeric molecules. Doctoral student: Adèle RIVAULT	Guillaume Robert	C3M	Academy 4 - Complexity and Diversity of Living Systems	€72,041
Identification of compounds able to repress the Rab30-dependent negative feedback loop on PPARα transcription to improve MAFLD therapies	Jerome Gilleron	C3M	Academy 4 - Complexity and Diversity of Living Systems	€24,000
Conference "JOBIM'23 IN NICE"	Karine Robbe-Sermesant	ISA	Academy 4 - Complexity and Diversity of Living Systems	€3,000
Omics Data Integration Network	Kevin Lebrigand	IPMC	Academy 4 - Complexity and Diversity of Living Systems	€60,000
Characterization of basement membrane architecture through mathematical analysis of 3D images	Luton Frédéric	IPMC	Academy 4 - Complexity and Diversity of Living Systems	€24,000
Use of chemometric approaches to improve drug synthesis targeting processing bodies	Patrick Brest	IRCAN	Academy 4 - Complexity and Diversity of Living Systems	€24,000
(Fragile-X-syndrome multi blending OMIX for splicing) - A multi-OMICs integrating analysis for a global comprehension of splicing alterations in the etiology of the Fragile-X Syndrome	Carole Gwizdek	IPMC	Academy 4 - Complexity and Diversity of Living Systems	€24,000



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
EMBO workshop "Developmental Circuits in Aging"	Eric Gilson	IRCAN	Academy 4 - Complexity and Diversity of Living Systems	€3,000
19th symposium of the French pain research network - April 12 to 13, 2024	Eric Lingueglia	IPMC	Academy 4 - Complexity and Diversity of Living Systems	€3,000
(Cell Change Quantification) Characterization and quantification of cell geometry and topology changes in urchin invagination	Matteo Rauzi	IBV	Academy 4 - Complexity and Diversity of Living Systems	€24,000
Second edition of the Biological Image Processing and Analysis symposium (BioIAS 2nd Edition)	Ellen Van Obberghen-Schilling	IBV	Academy 4 - Complexity and Diversity of Living Systems	€1,500
Doctoral thesis co-funded by Academy 4 & EUR HEALTHY: Human immunometabolism and healthy aging: lifelong exercise signature - Doctoral student: Julien MERCIER.	Serge Colson	LAMHESS	Academy 4 - Complexity and Diversity of Living Systems	€72,041
Colloquium and conferences organized by OMCNC (Observatory of Non-Conventional Complementary Medicine)	Véronique Mondain	Nice University Hospital	Academy 4 - Complexity and Diversity of Living Systems	€3,000
Decision-making in critical situations	Valax Marc	GRM	Academy 5 - Human Societies, Ideas and Environments	€2,500
Study day on the sectoral instrumentalization of international law	Julien Ancelin	LADIE	Academy 5 - Human Societies, Ideas and Environments	€3,620
Summer School in international and European law on the study of movements in the international and European legal orders network	Anne Millet-Devalle	LADIE	Academy 5 - Human Societies, Ideas and Environments	€5,000
International conference "The Science of Aphasia 2023"	Arslan Seçkin	BCL	Academy 5 - Human Societies, Ideas and Environments	€2,500
Effectiveness and acceptability of nudges in primary care	Adriaan Barbaroux	RETINES	Academy 5 - Human Societies, Ideas and Environments	€13,210
The social laboratories of the imaginary	Ugo Bellagamba	ERMES	Academy 5 - Human Societies, Ideas and Environments	€5,000
Networks in trade and finance	Charlie Joyez	GREDEG	Academy 5 - Human Societies, Ideas and Environments	€2,030
Contemporary re-uses of a amateur film #2	Christel Taillibert	LIRCES	Academy 5 - Human Societies, Ideas and Environments	€3,000
Symposium on artificial intelligence and applied mathematics for history and archaeology	Corneli Marco	CEPAM	Academy 5 - Human Societies, Ideas and Environments	€5,000
Automatic annotation of an ancient zoological corpus	Corneli Marco	CEPAM	Academy 5 - Human Societies, Ideas and Environments	€14,603
Ecocriticism and race theories in the humanities from the 16th to the 18th century	Emmanuelle Peraldo	CTELA	Academy 5 - Human Societies, Ideas and Environments	€6,000
Conference "Read, write, travel", May 11 and 12, 2023	Emmanuelle Peraldo	CTELA	Academy 5 - Human Societies, Ideas and Environments	€1,500
International conference; Society for the advancement of behavioral economics and international society of research in economic psychology	Agnès Festré	GREDEG	Academy 5 - Human Societies, Ideas and Environments	€2,500



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Mental workload of Université Côte d'Azur staff: diagnosis and search for solutions	Edith Galy	LAPCOS	Academy 5 - Human Societies, Ideas and Environments	€10,000
IMISCOE spring conference "Postcolonial migrations"	Yvan Gastaut	URMIS	Academy 5 - Human Societies, Ideas and Environments	€5,000
15th Interdisciplinary Science & Fiction days in Peyresq "Religions"	Jean-Luc Gautero	CRHI	Academy 5 - Human Societies, Ideas and Environments	€5,000
Dissemination of COVID-19 in Japan	Giovanni Fusco	ESPACE	Academy 5 - Human Societies, Ideas and Environments	€15,000
Technology & obesity bias: Health students' attitudes towards technologies for promoting physical activity - TechnOBias	Meggy Hayotte	LAMHESS	Academy 5 - Human Societies, Ideas and Environments	€12,569
From French Polynesia to France: social, cultural and mobility practices and issues	Jean-Christophe Gay	URMIS	Academy 5 - Human Societies, Ideas and Environments	€6,680
Immersive umbrella	Jean-François Trubert	CTELA	Academy 5 - Human Societies, Ideas and Environments	€15,000
International symposium "France, Italy and Libya".	Jean-Pierre Darnis	CMMC	Academy 5 - Human Societies, Ideas and Environments	€2,000
Governance of green innovation based on the management of intellectual property rights - Doctoral contract of Moustapha Baalbaki	Ludmila STRUKOVA	GREDEG	EUR ELMI	145 000 €
Post-doctoral fellowship of Ekaterina Prytkova - Industrial Dynamics of AI	Simone Vannuccini	GREDEG	EUR ELMI	120 000 €
Interplay of relationships with rivers: perceiving, representing, imagining	Brigitte Joinnault	CTELA	Academy 5 - Human Societies, Ideas and Environments	€4,980
Nicaeanum symposium "Editing, translating and commenting on Servius"	Muriel Lafond	CTELA	Academy 5 - Human Societies, Ideas and Environments	€1,400
Maralpine watersheds in the face of change: storm Alex, climate change and anthropic pressures - Field trips organized by the CNFG (National French Geographical Committee) Hydrosystems Commission	Margot Chapuis	ESPACE	Academy 5 - Human Societies, Ideas and Environments	€4,616
GMPCA Symposium - Archaeometry 2023	Martine Regert	CEPAM	Academy 5 - Human Societies, Ideas and Environments	€4,000
Do Human-Robot interactions reinforce cultural stereotypes? Applying the "shooting bias" to robots in a French context	Isabelle Milhabet	LAPCOS	Academy 5 - Human Societies, Ideas and Environments	€10,000
PROTODANSE	Marina Nordera	CTELA	Academy 5 - Human Societies, Ideas and Environments	€3,000
The "newspaper civilization" in the Mediterranean region from the end of the 18th century to the First World War	Jean-Paul Pellegrinetti	CMMC	Academy 5 - Human Societies, Ideas and Environments	€3,000
Territorial domination 2023	Valérie Pietri	URMIS	Academy 5 - Human Societies, Ideas and Environments	€5,000
International symposium "Territorial expressions of power from Antiquity to the Modern Era"	Valérie Pietri	URMIS	Academy 5 - Human Societies, Ideas and Environments	€1,000





Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Integrative science for successful aging	Stephen Ramanoël	LAMHESS	Academy 5 - Human Societies, Ideas and Environments	\$2,950
Public policies on religion, the State and secularism	Rania Hanafi	URMIS	Academy 5 - Human Societies, Ideas and Environments	€7,000
Springtime of migration	Laura Schuft	URMIS	Academy 5 - Human Societies, Ideas and Environments	\$4,801
Marx, Marxism, Marxists and race	Emilie Souyri	LIRCES	Academy 5 - Human Societies, Ideas and Environments	€4,073
Determinants of the physical, mental and social health of professional orchestral musicians and avenues for their prevention	Dirk Steiner	LAPCOS	Academy 5 - Human Societies, Ideas and Environments	€4,500
Adaptations and ruptures: the economy of pre-Columbian civilizations (study day)	Sylvie Beyries	CEPAM	Academy 5 - Human Societies, Ideas and Environments	€2,500
Repeated product placements by influencers on social media: what effects on the relationship between consumer, influencer and brand?	Pauline Tesio	GRM	Academy 5 - Human Societies, Ideas and Environments	€5,300
Innovating together to teach interprofessional collaboration in healthcare	Tiphane Bouchez	RETINES	Academy 5 - Human Societies, Ideas and Environments	€2,500
Paleolithic populations, plants and landscape physiognomy in the Pleniglacial period	Antonin Tomasso	CEPAM	Academy 5 - Human Societies, Ideas and Environments	€11,000
History of digital knowledge, ideas and practices	Muriel Dal Pont Legrand	GREDEG	Academy 5 - Human Societies, Ideas and Environments	€33,000
Stories of mobility and migration	Yvan Gastaut	URMIS	Academy 5 - Human Societies, Ideas and Environments	€50,000
Characterization and prevention in musicians' health	Serge Colson	LAMHESS	Academy 5 - Human Societies, Ideas and Environments	€4,259
Painters' workshops: writing and pigments	Rosa Maria Dessi	CEPAM	Academy 5 - Human Societies, Ideas and Environments	€1,718
Zero net artificialization	Dennis Fox	ESPACE	Academy 5 - Human Societies, Ideas and Environments	€4,294
Promoting physical activity among women who are victims of sexual violence	Stéphanie Meriaux	LAMHESS	Academy 5 - Human Societies, Ideas and Environments	€3,994
Editing the dance of the past: bodies, writings and digital humanities	Marina Nordera	CTELA	Academy 5 - Human Societies, Ideas and Environments	€2,736
Artistic and sensory immersion for a better understanding of the interactions between sensory and motor skills and their impact on cognitive and/or sensory disorders.	Auriane Gros	CoBTek	Academy 5 - Human Societies, Ideas and Environments	€72,040
InCréDis digital musical interface for distributed creativity	Gaël Navard	Conservatory of Nice	Academy	€15,000
Artificial intelligence for teaching interpersonal skills	Cyril Drouot	LINE	CDR5 XR2C2	€3,960
Black sunflower production start-up	François Paris	CTELA	CDR5 XR2C2	€4,000



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
(Re)introducing uninitiated audiences to theater or to plays outside of the repertory: VR and the art of improvisation	Stéphanie Le Briz	CEPAM	CDR5 XR2C2	€2,700
Mobile brain/body imaging in aging research	Stephen Ramanoël	LAMHESS	CDR5 XR2C2	€2,000
The voice of women 2023	Barbara Meazzi	CMMC	EUR CREATES	€2,000
Exceptional grant for doctoral research mobility	Beatrice Bonhomme	CTELA	EUR CREATES	€3,000
TEAM BUILDING ORC	Manuela Bertone	LIRCES	EUR CREATES	€1,500
The challenges of transnational filming: executive production and production management	Bruno Cailler	LIRCES	EUR CREATES	€1,100
Editing the dance of the past: bodies, writings and digital humanities	Cathy De Plee	CTELA	EUR CREATES	€1,500
Poudat, Lüngen, Herzberg (eds.). Investigating Wikipedia: linguistic corpus building, exploration and analyses	Céline Poudat	BCL	EUR CREATES	€1,700
REC.forward / Contemporary uses of amateur film #2 "From individual to collective memory"	Christel Taillibert	LIRCES	EUR CREATES	€3,000
Symposium: Residence abroad and language learning: Where are we now?	Amanda Edmonds	BCL	EUR CREATES	€3,000
Reading, writing, and traveling: anniversary symposium to mark the 20 years of SELVA	Emmanuelle Peraldo	CTELA	EUR CREATES	€3,000
EARTH16-18 (Ecocriticism and race theories in the humanities)	Emmanuelle Peraldo	CTELA	EUR CREATES	€3,000
The Snake: transdisciplinary approaches	Françoise Storey	CTELA	EUR CREATES	€1,500
Explaining body experiences. Methodology workshop	Federica Fratagnoli	CTELA	EUR CREATES	€1,500
Water: a source of life, a means of communication, a lever for economic development. Realities and representations, from Antiquity to the Renaissance	Giampiero Scafoglio	CEPAM	EUR CREATES	€1,500
The internship is part of the research program developed at Kadruka with the support of SFDAS.	Gilles Durrenmath	CEPAM	EUR CREATES	€1,800
43rd International meeting of archeology and history in Nice Côte d'Azur: "Technical actors, social actors: from material remains to the social organization of work"	Giulio Palumbi	CEPAM	EUR CREATES	€3,000
CRHI Exceptional grant for doctoral research mobility	Grégori Jean	CTELA	EUR CREATES	€1,000
Improvisation circumferences "Forming a body differently"	Grégori Jean	CTELA	EUR CREATES	€7,000
Interplay of relationships with rivers: perceiving, representing, imagining Session 2 (Nov. 23) - River narratives and ecotheatology	Hanna Lasserre	CTELA	EUR CREATES	€1,500
CMMC Exceptional grant for doctoral research mobility	Jean-Paul Pellegrinetti	CMMC	EUR CREATES	€4,000
France, Italy and Libya	Jean-Pierre Darnis	CMMC	EUR CREATES	€1,900
De-anthropocentering the imaginary	Brigitte Joinnault	CTELA	EUR CREATES	€6,500
The internship is part of the preparation phase for the collective work "Theater and transition: participation, territory, landscape", first publication of the Ttepic project.	Brigitte Joinnault	CTELA	EUR CREATES	€1,800
Research seminar "Museums and reinvented societies"	Linda Idjéroui-Ravez	SIC LAB	EUR CREATES	€1,500
LIRCES Exceptional grant for doctoral research mobility	Marie-Joseph Bertini	SIC LAB	EUR CREATES	€1,000



Project title	Project leader's Name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Study days in preparation for Rachid Taha Camp - Research project "South regions as areas of resistance - Creating a new imaginary"	Nicolas Pelissier	SIC LAB	EUR CREATES	€1,500
Exceptional grant for doctoral research mobility	Nicolas Pelissier	SIC LAB	EUR CREATES	€2,000
XIVth GMPCA symposium (Group of multidisciplinary methods contributing to archeology)	Martine Regert	CEPAM	EUR CREATES	€2,000
Archeological excavation field school: the urban heritage of indigenous cities facing Romanization, two parallel cases (Pompeii and Cumae)	Sandra Zanella	CEPAM	EUR CREATES	€3,500
"Transforming silence into language and action": Audre Lorde international symposium	Sandrine Montin	CTELA	EUR CREATES	€3,000
Cultural third places: a French paradigm in dialogue with other experiences	Stamatina Magkou	SIC LAB	EUR CREATES	€4,900
The cell phone: a production alternative?	Stefano Leoncini	LIRCES	EUR CREATES	€2,570
Interplay of relationships with rivers: perceiving, representing, imagining Session 1 (April 2023) - Interdisciplinary creative processes	Stéphane Hervé	CTELA	EUR CREATES	€1,500
The internship is part of the scientific events project "Staging relationships with rivers: perceiving, representing, imagining", held in Nice in April and November 2023.	Stéphane Hervé	CTELA	EUR CREATES	€1,200
Theater and transition: participation, territory, landscape	Stéphane Hervé	CTELA	EUR CREATES	€2,000
Technical imaginaries	Thomas Morisset	CRHI	EUR CREATES	€1,500
Beautiful gaming. Aesthetics, technology and video games	Thomas Morisset	CRHI	EUR CREATES	€2,000
Intelligibility of archives and experimental set-up	Matteo Treleani	SIC LAB	EUR CREATES	€7,000
What repertoire for new digital lutheries? - Doctoral contract of Gino Mariotti	Pascal Decroupet	CTELA	EUR CREATES	72 500 €
Il verri: History of a laboratory for creation and experiment (1956-1979) - Doctoral contract of Cecilia Bello	Barbara Meazzi	CMMC	EUR CREATES	72 500 €
HEALTHY MUSICIANS Public Lecture	Dirk Steiner	LAPCOS	EUR HEALTHY	€4,307
"Enharmonie": bio-psycho-social determinants of health of professional orchestral musicians	Serge COLSON	LAMHESS	EUR HEALTHY	12 941 €
Impact of a personalized preventive approach on the microbiological homeostasis of the oral cavity during fixed orthodontic treatment	Laurence LUPI	MICORALIS	EUR HEALTHY	27 750 €
Promotion of a healthy and active lifestyle for people with Attention Deficit Hyperactivity Disorder (ADHD): associated psychosocial and neurocognitive mechanisms	Fabienne d'Arripe-Longueville	LAMHESS	EUR HEALTHY	€19,212
Doctoral thesis co-funded by Academy 4 & EUR HEALTHY: Human immunometabolism and healthy aging: lifelong exercise signature Doctoral student: Julien Mercier	Serge COLSON	LAMHESS	EUR HEALTHY	72 500 €
Doctoral thesis co-funded by Academy 5 & EUR HEALTHY: Artistic and sensory immersion for a better understanding of the interactions between sensoriality and motor skills and their impact on cognitive and/or sensory disorders	GROS Auriane	COBTEK	EUR HEALTHY	72 500 €
Doctoral contract			EUR LEX	145 000 €
The Lymphatic and Vascular Resistance Factor (LVRF); relevance of its targeting for the treatment of pediatric medulloblastoma - Doctoral contract of Arthur KARAULIC	Gilles PAGES	IRCAN	EUR LIFE	72 500 €
Towards a holistic model based on Artificial Intelligence for modeling eating disorders in sport	Stéphanie Meriaux	LAMHESS	EUR HEALTHY	€18,667
EUR-Mobile / Oral and microbiome health of endurance athletes	Valérie Bougault	LAMHESS	EUR HEALTHY	3 814 €



Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Memory motivation race	Valeria Manera	CoBTek	EUR HEALTHY	€4,000
Science Festival 2023	Valérie Bougault	LAMHESS	EUR HEALTHY	€4,969
EUR-Mobile / Oral and microbiome health of endurance athletes	Valérie Bougault	LAMHESS	EUR HEALTHY	€3,814
Interdisciplinary thesis partial funding from EUR LIFE Academy 4 for Adèle RIVAULT (2023)	Guillaume Robert	C3M	EUR LIFE	€72,041
Characterization of the systemic innate immune response following infection with Bacillus thuringiensis spores - Doctoral thesis of Claire Guillebon	Armel GALLET	ISA	EUR LIFE	145 000 €
Nucleate project	Sophie Demolombe	IPMC	EUR LIFE	56 000 €
JDIU - Inter-URMIS doctoral days	Adèle Nivière	URMIS	EUR ODYSSEE	€500
Presentation of all the thesis topics at the 22nd congress of the International association of work psychology in French language (Montreal, Quebec).	Clement Andrieu	LAPCOS	EUR ODYSSEE	€500
International symposium "From the judicial functions of consuls to consular courts" (12th - 20th centuries)	Amaud Bartolomei	CMMC	EUR ODYSSEE	€1,500
The "post-voyage" of the Baudin and Flinders collections, between science and politics in Europe (between 1803 and the 1820s)	Léonie Boissière	CMMC	EUR ODYSSEE	€500
Study day "Adaptations and ruptures: the economy of pre-Columbian civilizations"	Cadalen Naya	CEPAM	EUR ODYSSEE	€2,500
Artificial intelligence and applied mathematics for history and archaeology	Marco Comeli	CEPAM	EUR ODYSSEE	€2,500
Nice, the Côte d'Azur and the environment	Simon Dolet	CMMC	EUR ODYSSEE	€500
Comparative analysis of food systems in France and Costa Rica - Doctoral contract	BALADA Anandi	ESPACE	EUR ODYSSEE	145 000 €
OTECCA MSHS internship stipend	Frédérique Bertonceillo	Other	EUR ODYSSEE	€5,000
Research at the National Archives in Pierrefitte-sur-Seine: History of judo on the Côte d'Azur	Gabriel Ben Soussan	CMMC	EUR ODYSSEE	€966
Archive campaign in Nantes	Marvin Gonzalez	CMMC	EUR ODYSSEE	€1,000
Field trips organized by the hydrosystems commission of the CNFG (French National Geography Committee)	Margot CHAPUIS	ESPACE	EUR ODYSSEE	€1,000
CNFG - Participation in an international symposium	Andrea Lulovicova	ESPACE	EUR ODYSSEE	500 €
XIVth GMPCA Symposium - Archaeometry 2023	Martine Regert	CEPAM	EUR ODYSSEE	€1,500
43rd International meeting of Nice Côte d'Azur archeology and history: "Technical actors, social actors: from material remains to the social organization of work"	Olivier Langlois	CEPAM	EUR ODYSSEE	€2,000
Lithic production in the horn of Africa during the Holocene: origins, trajectories and innovations of prehistoric cultures and societies	Olivier Scancarello		EUR ODYSSEE	€1,000
International symposium "Territorial expressions of power from Antiquity to the Modern Era"	Marie-Jeanne Ouriachi	CEPAM	EUR ODYSSEE	€1,750
Enlightenment Europe under the influence of the stars?	Simon Dolet	CMMC	EUR ODYSSEE	€700
URMIS migration observatory internship stipend	Swanie Potot	URMIS	EUR ODYSSEE	€5,000
Study days: "Student mobility and the making of elites: the test of policies aiming to internationalize higher education" A South/North/East/West perspective	Valérie Erlich	URMIS	EUR ODYSSEE	€1,750



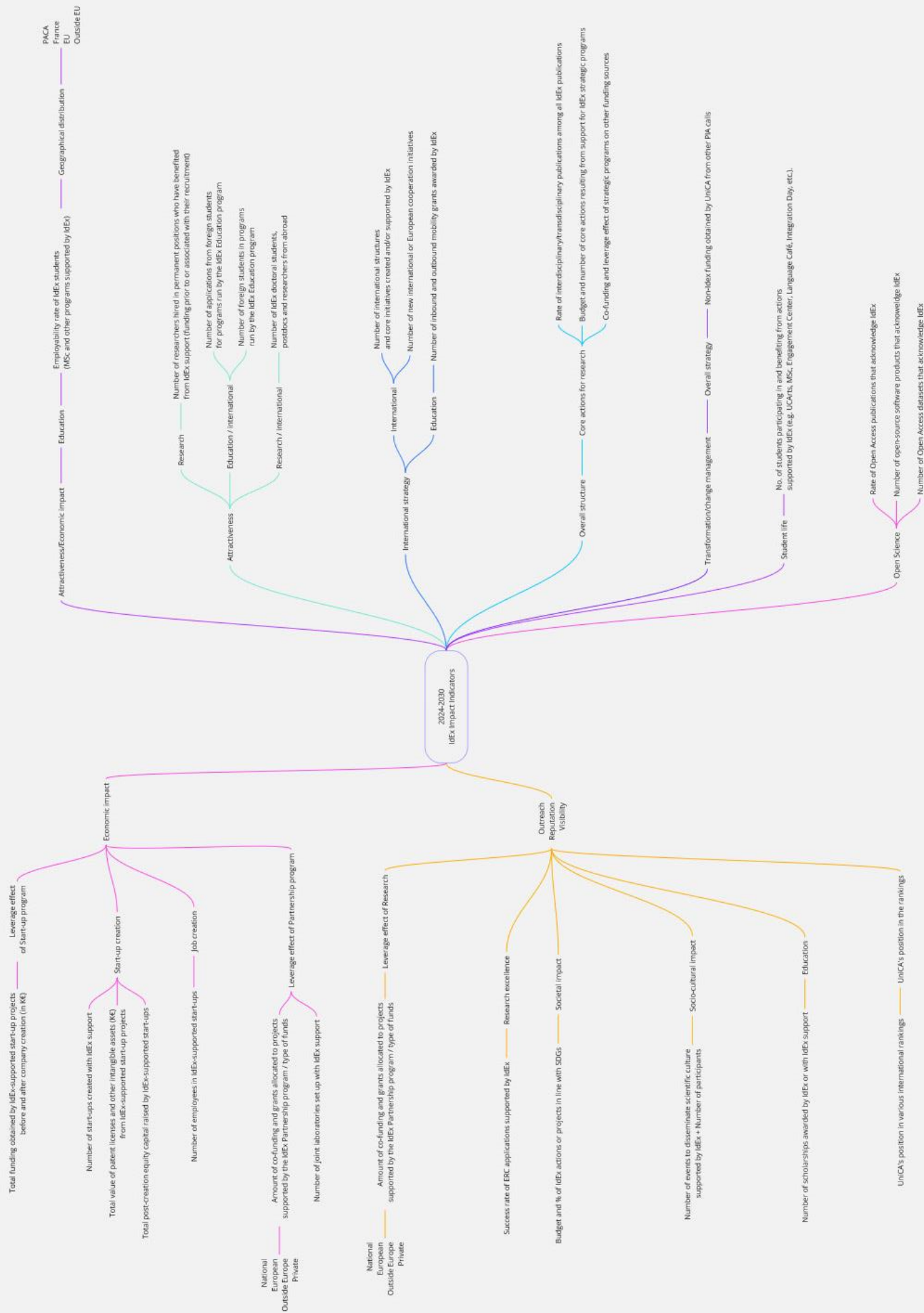
Project title	Project leader's name	Leader's laboratory	Program / Structure	Amount of IdEx funds granted
Field assignment - London: Transformations in social work. The case of unaccompanied minors cared for by the social and non-profit sector in Western Europe	Duconget Maëlle	URMIS	EUR ODYSSEE	1 000 €
Mailys Bouhot internship stipend	Armel Menant	GEOAZUR	EUR SPECTRUM	€2,900
Alexandre Vigna-Brummer internship stipend	Christophe Bruzet	INPHYNI	EUR SPECTRUM	€3,500
Grant for the scientific event "Mathematical summer center for advanced research in scientific computing"	Didier Auroux	LJAD	EUR SPECTRUM	€2,500
Grant for the scientific event "Cargèse 2023 school on subduction zone processes"	Jean-Paul Ampuero	GEOAZUR	EUR SPECTRUM	€5,000
Grant for the tenth edition of JDPN 2023 Nice Physics days	Julie Lagouarde	INPHYNI	EUR SPECTRUM	€1,300
Grant for the scientific event "SCV, CR geometry and dynamics"	Laurent Stolovitch	LJAD	EUR SPECTRUM	€2,000
Internship stipend for Michael Lebledev	Laurent Stolovitch	LJAD	EUR SPECTRUM	\$2,950
Doctoral contract			EUR SPECTRUM	145 000 €
How to use reaction times in learning models	Patricia REYNAUD-BOURET	LJAD	NeuroMod	1 661 €
First workshop "Microglia: from gene to function" organized by the microglia and neuroinflammation research group	Clara SANCHEZ	IPMC	NeuroMod	752 €
Simulation of large-scale neural networks	Alexandre MUZY	I3S	NeuroMod	2 163 €
NeuroKoopman	Patricia REYNAUD-BOURET	LJAD	NeuroMod	30 000 €
Grant for the scientific event "9th aromas & perfumes day"	Martine Adrian-Scotto	ICN	EUR SPECTRUM	€2,000
Grant for the scientific event "Mathematical justification of kinetic and fluid equations for plasmas and self-gravitating systems"	Nicolas Besse	LAGRANGE	EUR SPECTRUM	€3,000
Internship stipend for Lorenzo Poggioni	Nicolas Besse	LAGRANGE	EUR SPECTRUM	€1,750
Grant for the scientific event "Quantum many-body systems out of equilibrium"	Patrizia Vignolo	INPHYNI	EUR SPECTRUM	€3,500
Internship stipend for Allan Denis	Philippe Bendjoya	LAGRANGE	EUR SPECTRUM	€2,300
Internship stipend for Léa Lacomblez	Pierre-Marie Coulon	CRHEA	EUR SPECTRUM	€3,550
Internship stipend for Anaïs Bouschon	Véronique Michelet	ICN	EUR SPECTRUM	€3,544



**IDEX IMPACT  
INDICATORS:**







UCA J.E.D.I.  
UNIVERSITY FOUNDATION



**Initiative of Excellence (IdEx) :**  
**a driving force for excellence and development**

