



U. PORTO

**U.PORTO
RESEARCH**

2018 - 2021

+ INSIGHTS 2022

SERVIÇO DE INVESTIGAÇÃO E PROJETOS



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GLOSSARY

U.PORTO UNIVERSITY OF PORTO

LA ASSOCIATE LABORATORIES

CoLAB COLLABORATIVE LABORATORIES

RI RESEARCH INFRASTRUCTURES

FCT NATIONAL FOUNDATION FOR SCIENCE AND TECHNOLOGY

SDGs SUSTAINABLE DEVELOPMENT GOALS





04 **FOREWORD**



SECTION 1

2018-21

1

06 **RESEARCH ECOSYSTEM**

- 08 Faculties & Research Institutes
- 10 Research Units
- 15 Associate Laboratories
- 17 Collaborative Laboratories
- 20 Research Infrastructures

2

22 **RESEARCH AREAS**

3

25 **RESEARCH STAFF**

4

27 **FLAGSHIP INITIATIVES**

5

31 **PUBLICATIONS AND KNOWLEDGE
TRANSFER & VALORIZATION**

6

33 **RESEARCH NETWORKS AND
INTERINSTITUTIONAL
COOPERATION**

7

37 **R&D+i FUNDING**



SECTION 2

2022

41 **INSIGHTS 2022**

FOREWORD

Year after year, University of Porto (U.Porto) has been consolidating its position at the forefront of the scientific research in Portugal. U.Porto's comprehensive research ecosystem paves the way to the development of R&D activities in almost every area of knowledge. Research funding, staff and infrastructures (including labs and scientific equipment) play a major role in U.Porto's overall research performance.

This brochure provides an overview of the evolution of U.Porto in various research-related dimensions, during the last five years. Section 1 focuses on activities implemented between 2018-2021, whereas Section 2 provides insights from 2022.

The next pages present facts and figures pertaining to several aspects of U.Porto's R&D activities. In Section 1, we present information related with U.Porto's research, namely: a) ecosystem, b) areas, and c) staff. We also present information regarding our d) flagship initiatives, e) publications and knowledge transfer & valorization, f) research networks and interinstitutional cooperation and, finally, g) R&D+i funding. In Section 2, we present some insights on some of U.Porto's achievements during the year 2022.

OUR
LEVERAGE

“
U.Porto as a
Research University

*Plano de Atividades e Orçamento 2021
Universidade do Porto*



2018-2021

SECTION 1



1

RESEARCH
ECOSYSTEM



U. PORTO

14

SCHOOLS

11

ASSOCIATED
RESEARCH INSTITUTES

48

RESEARCH
UNITS

17

ASSOCIATE
LABORATORIES

22

COLLABORATIVE
LABORATORIES

1

BUSINESS
SCHOOL

2

SCIENCE
CENTRES

9

FUNCTIONAL AND
COMPETENCE
CENTRES

U.PORTO'S

R&D+i ECOSYSTEM comprises a diverse set of research, development and innovation structures, in which a multifaceted scientific community works daily to achieve the highest standards of excellence.

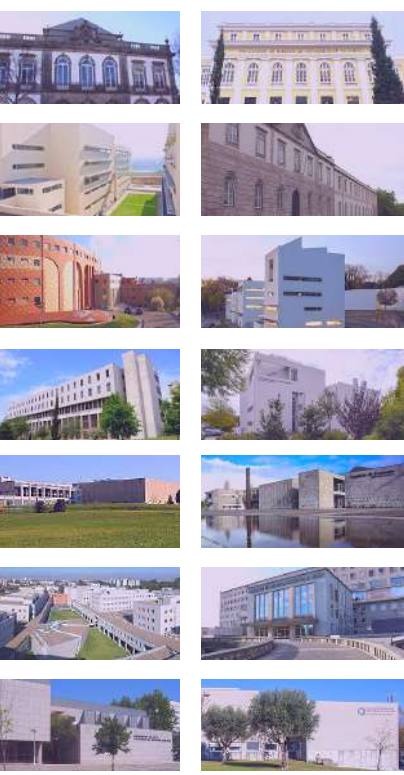
The research ecosystem includes 14 Organic Units (Schools) and 11 Associated Research Institutes – altogether they host U.Porto's 48 R&D Units evaluated by FCT.

U.Porto participates in 17 Associate Laboratories (LA), 22 Collaborative Laboratories (CoLAB) and currently integrates 24 Research Infrastructures (RI) of the National Roadmap for Research Infrastructures.

U.Porto ecosystem also mobilizes several functional and thematic competence centres, as well as two *Ciência Viva* Centres that are part of the national scientific outreach network *Ciência Viva*.

Continuously committed to supporting and encouraging scientific and technological development, as well as the production of results, U.Porto's broad ecosystem encourages a multidisciplinary and multifaceted approach, where its various actors collaborate and cooperate in a joint strategy, aimed at ensuring a research, development and innovation activity that responds to societal challenges, within different areas of activity and at national and international scales.

FACULTIES AND RESEARCH INSTITUTES



OUR FACULTIES

14 FACULTIES **+1** Business School (PBS)



CAMPUS 1 CITY CENTRE

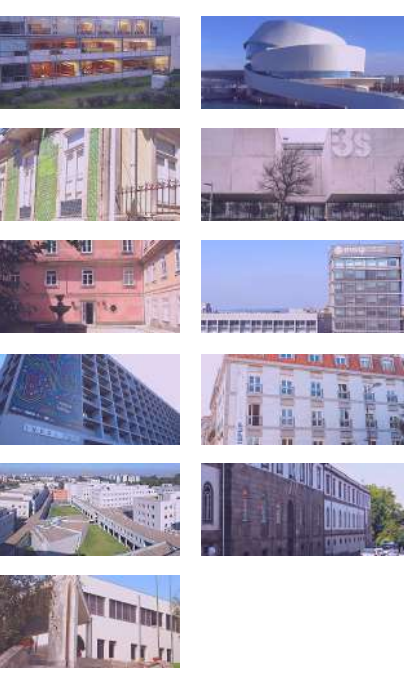
- Faculty of Fine Arts (FBAUP)
- Faculty of Law (FDUP)
- Faculty of Pharmacy (FFUP)
- Institute of Biomedical Sciences Abel Salazar (ICBAS)

CAMPUS 3 CAMPO ALEGRE

- Faculty of Arts (Humanities and Social Sciences) (FLUP)
- Faculty of Architecture (FAUP)
- Faculty of Sciences (FCUP)
- Faculty of Nutrition and Food Sciences (FCNAUP)

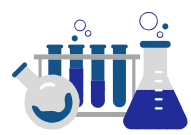
CAMPUS 2 ASPRELA

- Faculty of Sports (FADEUP)
- Faculty of Economics (and Management) (FEP)
- Faculty of Engineering (FEUP)
- Faculty of Medicine (FMUP)
- Faculty of Dental Medicine (FMDUP)
- Faculty of Psychology and Education Sciences (FPCEUP)



OUR ASSOCIATE RESEARCH INSTITUTES

11 RESEARCH INSTITUTES



- Centre for Astrophysics of the University of Porto (CAUP)
- Interdisciplinary Centre of Marine and Environmental Research (CIIMAR)
- Centre for Research in Higher Education Policies (CIPES)
- Institute for Research and Innovation in Health (i3S)
- Institute of Sciences, Technologies and Agroenvironment of the University of Porto (ICETA)
- Institute of Science and Innovation in Mechanical and Industrial Engineering (INEGI)

- Institute for Systems and Computer Engineering, Technology and Science (INESC TEC)
- Institute of Public Health of the University of Porto (ISPUP)
- Institute of Telecommunication (IT) - Polo U.Porto
- Chemistry and Technology Network (REQUIMTE)
- BIOPOLIS Association (BIOPOLIS)

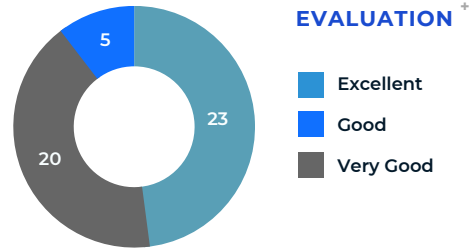
RESEARCH UNITS

48 RESEARCH UNITS



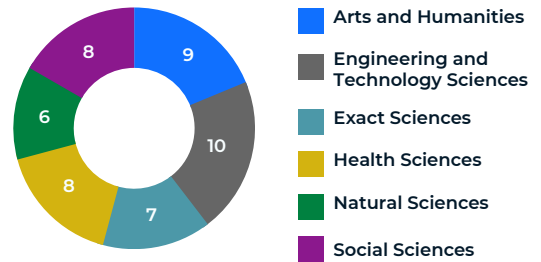
U.Porto ecosystem hosts 48 R&D Units, which stand out for their competitiveness and excellence. Each R&D Unit is composed of teams of researchers, equipment and technical infrastructure. These Units form the basis of the U.Porto's scientific ecosystem, playing a key role in terms of advanced education, training and scientific activity.

According to the last evaluation exercise performed by the Portuguese Foundation for Science and Technology (2017-2018), **90% of U.Porto R&D Units** (hosted or co-managed with external entities) **were classified with “Excellent” or “Very Good”**.



EVALUATION⁺

- Excellent
- Good
- Very Good



RESEARCH AREAS^x

- Arts and Humanities
- Engineering and Technology Sciences
- Exact Sciences
- Health Sciences
- Natural Sciences
- Social Sciences

⁺ Source: Results obtained from the evaluation exercise performed by the Portuguese Foundation for Science and Technology - FCT (2017-2018), march 2021.

^x Research Areas according to those listed in the [FCT Atlas of R&D Units \(2022\)](#).

Arts and Humanities

CEAU Centre for Studies in Architecture and Urbanism

FCT Evaluation: Very Good
Coordinator: José Miguel Rodrigues
<http://ceau.arq.up.pt/>

CETAPS Centre for English, Translation, and Anglo-Portuguese Studies

FCT Evaluation: Excellent
Coordinator: Maria de Fátima de Sousa Basto Vieira
<https://www.cetaps.com/>

CITTA Research Centre for Territory, Transports and Environment

FCT Evaluation: Excellent
Coordinator: António Fidalgo Couto
<https://citta.fe.up.pt/>

id+ Research Institute for Design, Media and Culture

FCT Evaluation: Very Good
Coordinator: Heitor Manuel Pereira Pinto da Cunha Alvelos
<https://idmais.org/>

IF Institute of Philosophy

FCT Evaluation: Very Good
Coordinator: Sofia Miguens
<https://ifilosofia.up.pt/>

CEAUP Center of African Studies of the University of Porto

FCT Evaluation: Good
Coordinator: Maciel Santos
<https://www.africanos.eu/index.php/pt/>

CITCEM Transdisciplinary Research Centre «Culture, Space and Memory»

FCT Evaluation: Very Good
Coordinator: Inês Amorim
<https://www.citcem.org/>

i2ADS Research Institute in Art, Design and Society

FCT Evaluation: Very Good
Coordinator: Paulo Luís Almeida
<https://i2ads.up.pt/>

ILC Institute for Comparative Literature

FCT Evaluation: Very Good
Coordinator: Maria de Fátima Outeirinho
<https://ilcml.com/>

Engineering and Technology

CEFT Transport Phenomena Research Center

FCT Evaluation: Excellent
Coordinator: João Bernardo Lares Moreira de Campos
<https://ceft.fe.up.pt/>

CONSTRUCT Institute of R&D in Structures and Construction

FCT Evaluation: Very Good
Coordinator: Álvaro Cunha
<https://paginas.fe.up.pt/~construct/index.html>

LEPABE Laboratory for Process Engineering, Environment, Biotechnology and Energy

FCT Evaluation: Excellent
Coordinator: Maria Arminda Costa Alves
<https://www.lepabe.fe.up.pt/>

LSRE-LCM Laboratory of Separation and Reaction Engineering - Laboratory of Catalysis and Materials

FCT Evaluation: Excellent
Coordinator: Joaquim Faria
<https://lsre-lcm.fe.up.pt/>

IT Telecommunications Institute

FCT Evaluation: Very Good
Coordinator: Ana Cristina Costa Aguiar
<https://www.it.pt/ITSites/Index/5>

CERENA Center for Natural Resources and Environment

FCT Evaluation: Excellent
Coordinator: Maria de Lurdes Dinis
<https://cerena.ist.utl.pt/>

LAETA Associate Laboratory of Energy, Transports and Aeronautics

FCT Evaluation: Excellent
Coordinator: Pedro Ponces Camanho
<http://laeta.pt/en/>

LIACC Artificial Intelligence and Computer Science Laboratory

FCT Evaluation: Excellent
Coordinator: Luís Paulo Gonçalves Reis
https://sigarra.up.pt/feup/pt/uni_geral.unidade_view?pv_unidade=351

INESC TEC Institute for Systems and Computer Engineering, Technology and Science

FCT Evaluation: Very Good
Coordinator: José Manuel Mendonça
<https://www.inesctec.pt/en>

SYSTEC Research Center for Systems and Technologies

FCT Evaluation: Very Good
Coordinator: António Pedro Rodrigues Aguiar
<https://systec.fe.up.pt/>

Health Sciences

CIAFEL Research Center in Physical Activity, Health and Leisure

FCT Evaluation: Very Good
Coordinator: Jorge Augusto Pinto da Silva Mota
<https://ciafel.fade.up.pt/ciafel.php>

CINTESIS Center for Health Technology and Services Research

FCT Evaluation: Very Good
Coordinator: Altamiro Costa Pereira
<http://cintesis.eu/pt/homepage/>

MedInUP Center for Drug Discovery and Innovative Medicines

FCT Evaluation: Good
Coordinator: Patrício Soares da Silva
<http://www.medinup.pt/>

CIFI2D Center of Research, Education, Innovation and Intervention in Sport

FCT Evaluation: Good
Coordinator: António Mendonça da Fonseca
<https://cifi2d.fade.up.pt/>

i3S Institute for Research and Innovation in Health

FCT Evaluation: Excellent
Coordinator: Cláudio Sunkel
<https://www.i3s.up.pt/>

EPIUnit Epidemiology Research Unit - Institute of Public Health, University of Porto

FCT Evaluation: Excellent
Coordinator: José Henrique Barros
<https://ispup.up.pt/research/>

UNIC Cardiovascular Research and Development Center

FCT Evaluation: Excellent
Coordinator: Joaquim Adelino Leite Moreira
<https://unic.med.up.pt/>

UMIB Unit for Multidisciplinary Research in Biomedicine

FCT Evaluation: Very Good
Coordinator: Mariana Pereira Monteiro
<https://umib.icbas.up.pt/>

Exact Sciences

CF-UM-UP Physics Center of the Universities of Minho and Porto

FCT Evaluation: Very Good
Coordinator: Eduardo Castro
<https://www.cf-um-up.pt/>

CICGE Centre for Research in Geospace Science

FCT Evaluation: Good
Coordinator: Dalmiro Jorge Filipe Maia
https://sigarra.up.pt/fcup/pt/uni_geral.unidade_view?pv_unidade=489

CIQUP Chemistry Research Unit of University of Porto

FCT Evaluation: Excellent
Coordinator: Antonio Fernando Sousa da Silva
<https://www.fc.up.pt/ciqup/>

CMUP Centre of Mathematics of the University of Porto

FCT Evaluation: Excellent
Coordinator: Samuel António de Sousa Dias Lopes
<https://www.cmup.pt/>

IA Institute of Astrophysics and Space Sciences

FCT Evaluation: Excellent
Coordinator: Jarle Brinchmann
<http://www.iastro.pt/>

IFIMUP Institute of Physics for Advanced Materials, Nanotechnology and Photonics

FCT Evaluation: Excellent
Coordinator: João Pedro Esteves de Araújo
<https://sites.google.com/a/ifimup.up.pt/ifimupsite/home>

REQUIMTE Chemistry and Technology Network

FCT Evaluation: Excellent
Coordinator: Baltazar Manuel Romão Castro
<https://www.requimte.pt/>

Natural Sciences

CECA Center for Animal Science Studies

FCT Evaluation: Excellent
Coordinator: José Manuel Costa
<https://cecaicetaup.wixsite.com/website>

CIIMAR Interdisciplinary Center for Marine and Environmental Research

FCT Evaluation: Excellent
Coordinator: Vitor Manuel Oliveira Vasconcelos
<https://www2.ciimar.up.pt/>

ICT Institute of Earth Sciences

FCT Evaluation: Very Good
Coordinator: Helena Maria Sant' Ovaia Mendes da Silva
<https://www.icterra.pt/>

CIBIO-InBIO Research Centre in Biodiversity and Genetic Resources

FCT Evaluation: Excellent
Coordinator: Nuno Ferrand de Almeida
<https://cibio.up.pt/en/>

GreenUPorto Research Center in Sustainable Agri-food Production

FCT Evaluation: Excellent
Coordinator: Ruth Maria de Oliveira Pereira
<https://www.fc.up.pt/GreenUPorto/pt/>

UCIBIO Applied Biomolecular Sciences Unit

FCT Evaluation: Excellent
Coordinator: Luísa Peixe
<https://ucibio.pt/>

cef.up Center for Economics and Finance of the University of Porto

FCT Evaluation: Very Good
Coordinator: Manuel António Mota Freitas Martins
<https://cefup.fep.up.pt/>

CEGOT Centre of Studies in Geography and Territorial Planning

FCT Evaluation: Excellent
Coordinator: Fantina Tedim
<https://cegot.pt/pt/Utilidades/Homepage.aspx>

CIIE Centre for Research and Intervention in Education

FCT Evaluation: Excellent
Coordinator: Isabel Menezes
<https://www.fpce.up.pt/ciie/>

CIJ Centre for Legal Research

FCT Evaluation: Good
Coordinator: Graça Enes
<https://cij.up.pt/>

CIPES Center for Research in Higher Education Policies

FCT Evaluation: Excellent
Coordinator: António Magalhães
<https://www.cipes.pt/>

CLUP Centre of Linguistics of the University of Porto

FCT Evaluation: Very Good
Coordinator: Rui Sousa Silva
<https://cl.up.pt/>

CPUP Center for Psychology at University of Porto

FCT Evaluation: Very Good
Coordinator: Paula Mena Matos
https://sigarra.up.pt/fpceup/pt/web_base.gera_pagina?p_pagina=CPUP_HOME

IS-UP Institute of Sociology of the University of Porto

FCT Evaluation: Very Good
Coordinator: João Teixeira Lopes
<https://isociologia.up.pt/>

ASSOCIATE
LABORATORIES (LA)

17 ASSOCIATE LABORATORIES



Associate Laboratories (LA) is a national initiative by FCT aimed to encourage the aggregation and organization of human and material resources with the necessary quality and dimension to meet the specific objectives of the national scientific and technological policy, in different fields. As a result of the last call for the status of LA

within the timeframe 2021 - 2025, the U.Porto ecosystem now integrates 17 laboratories, leading 12 of them. The University sees this participation as an opportunity to enhance synergies between different research organisations and research units, within and outside the U.Porto ecosystem.



Source: Portuguese Foundation for Science and Technology - FCT, may 2021.
 * Labs managed by external institutions - U.Porto participates.

COLLABORATIVE LABORATORIES (CoLAB)

22 CoLAB



U.Porto has embraced the governmental initiative to create Collaborative Laboratories (CoLAB), structures that join universities, business community, technological centres and other institutions to implement research and innovation agendas aimed at creating economic and social value.

U.Porto currently participates in 22 CoLAB with several thematic areas, coordinating one of them (B2E). These CoLAB are actively working to find practical, innovative and sustainable solutions in areas as diverse as agriculture, cybersecurity, food, health, sustainability, environment, circular economy and biorefineries.



Source: Portuguese Foundation for Science and Technology (FCT, Collaborative Laboratories, april 2022).

Agrifood

Vines&Wines



Aims to be the ideal partner in the innovation of products, processes and services of companies in the Portuguese wine sector.
colabvinesandwines.pt

FCUP

CoLab4Food



Aims to develop new products and processes for the food industry and recovery of by-products to reduce waste.
colab4food.com

FCUP
FFUP
FCNAUP
REQUIMTE

FeedInov



Aims to improve safety along the food chain, with an impact on the safety of animal products.
feedinov.com

ICBAS
INESC TEC

Biodiversity & Forests

MORE



Aims to promote the development of mountain regions, with a focus on the Mediterranean.
morecolab.pt

FEUP
REQUIMTE

ForestWISE



Aims to develop research activities, innovation, transfer of knowledge and technology to increase sustainable forest management in Portugal.
forestwise.pt

INESC TEC

Data science

Data CoLAB



Aims to use data to change how we produce, consume and live, from data generation, standardization, analysis, to development of decision support tools.
datacolab.pt

FEP

Climate, Space and Oceans

+Atlantic



Aims at advancing knowledge on the interactions between the Ocean, Atmosphere, Climate and Energy.
colabatlantic.com

FEUP

B2E



Aims to increase the economic and social value of goods and services based on new and existing biological products.
b2e.pt

18 FCUP
ICBAS
INESC TEC

Energy and Green Hydrogen

WATER-CoRe

Collaborative Laboratory focused on Water for Resilient Communities.

FEUP
REQUMTE

HyLAB

Aims to bring research closer to industrial ecosystems on implementing green hydrogen economy to accelerate energy transition.

FEUP
INEGI

BIOREF

Laboratório Colaborativo para as Biorefinarias

hylab.pt

Energy and Sustainability

BIOREF ProBiorefinery

Aims to enhance and transfer scientific knowledge, technologies and innovation into the development of biorefineries.

FEUP

NET4CO2

Aims to contribute to the economic and social value of goods and services based on new and existing biological products.

FEUP
REQUMTE

BIOREF

Laboratório Colaborativo para as Biorefinarias

bioref-colab.pt



net4co2.pt

VG CoLAB

Aims to provide high-tech product services & solutions in electrochemical energy, both to partners and market.

FEUP
INESC TEC

SeLAB CSESI Hub

Aims to ensure the development, deployment and adoption of new energy downstream solutions.

INESC TEC



energystoragecolab.com



smartenergylab.pt

Information Systems

VORTEX

Aims to reduce the gap between research institutions, government laboratories, industry, market, economy & society.

INESC TEC

Health

4LifeLab

Aims to position Portugal in the global value chain of health markets, contributing to improve the quality of life.

FMUP



vortex-colab.com



4lifelab.pt

ARCP

Aims at being a Center of Excellence in polymer science and technology, promoting innovation and competitiveness.

FEUP

Materials, Circular Economy & Urban Sustainability

BUILT CoLAB

Aims to promote the digital and climate transition of buildings and infrastructures.

FEUP
INESC TEC



arcp.pt



builtcolab.pt

CECOLAB (eCoLab)

Aims to support the transition from a linear economy model to an economy responsible for resources and people, more efficient in its life cycle.

FEUP

RAIL CoLAB

Aims to promote the modernization of the railway system.

FEUP
INEGI
INESC TEC



cecolab.pt

Social Services

ProChild

Aims to develop a national strategy to fight poverty and social exclusion in childhood.

FPCEUP
ISPUP

Valorization and Water Technology Transfer

AquaValor

Aims to respond to existing needs not met by companies and to create new channels for the transfer of knowledge to the economic fabric.

INESC TEC



prochildcolab.pt

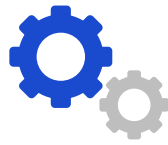


aquavalor.pt

RESEARCH INFRASTRUCTURES

24







RESEARCH INFRASTRUCTURES
included in the National Roadmap - FCT



FCT supports research infrastructures (RI) of strategic interest, to underpin scientific and technological advances and bolster the capacity of the R&D community in Portugal to be an active member of European and international projects.

The Portuguese Roadmap of Research Infrastructures of Strategic Interest (RNIE, in Portuguese) 2020 currently includes 56 infrastructures - **U.Porto coordinates 7** of them and also integrates another 17 infrastructures across six thematic areas:

- a) **Energy**
- b) **Environment**
- c) **Health and Food**
- d) **Physical Sciences and Engineering**
- e) **Social and Cultural Innovation**
- f) **Digital Infrastructures**

 Energy	SGEVL	1
 Environment	C4G EMBRC.PT EMSO-PT PORBIOTA AIR Centre	5
 Health & Food	GENOMEPORTUGAL PPBI RNEM BioData.pt RNCCC CRYOEM-PT PtCAC PtCRIN Pt-mBRCN/MIRRI-PT PT-OPENSREEN	10
 Physical Sciences & Engineering	Engage SKA NECL TEC4SEA Windscanner.PT PTNMR CECOLAB	6
 Social & Cultural Innovation	PRISC	1
 Digital Infrastructures	RNCA	1

Source: Portuguese Foundation for Science and Technology - FCT, Portuguese Roadmap of Research Infrastructures – 2020 Update, June 2020.

2

RESEARCH AREAS

Globally, the multidisciplinary teams of U.Porto's R&D+i ecosystem focus their activity on scientific areas aligned with the scientific domains recommended by the National Foundation for Science and Technology (FCT). Considering **7 broad Research Areas**, each research area of the U.Porto brings together a

critical mass of quality and modern research infrastructures that enable the development of research of excellence, based on the R&D Units that make up the R&D+i ecosystem of the U.Porto, and that are committed to providing robust responses to the main global and societal challenges.

9
RESEARCH UNITS
ARTS AND HUMANITIES

10
RESEARCH UNITS
ENGINEERING AND TECHNOLOGY SCIENCES

7
RESEARCH UNITS
EXACT SCIENCES

8
RESEARCH UNITS
HEALTH SCIENCES

6
RESEARCH UNITS
NATURAL SCIENCES

8
RESEARCH UNITS
SOCIAL SCIENCES

Source: Research Areas listed in the ECT Atlas of R&D Units (2022).

Within this framework, U.Porto has been assigned with **2 UNESCO Chairs**: *Life on Land* (2018) and *Heritage, Cities and Landscapes, Sustainable Management, Conservation Planning and Design* (2019). The UNESCO Chairs Programme, launched in 1992, aims to promote international inter-university cooperation and networking to enhance institutional capacities through knowledge sharing and collaborative work.

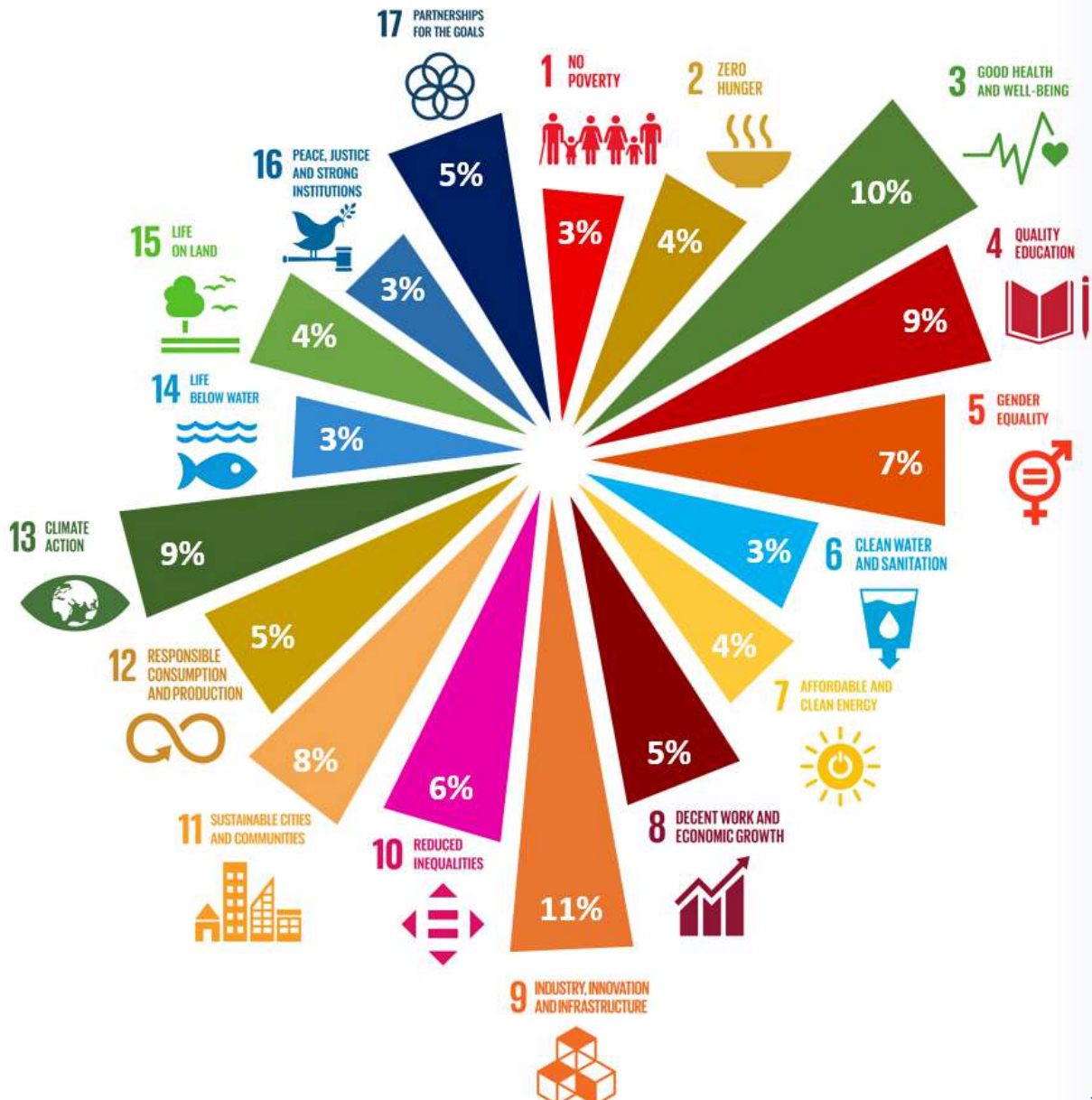
2018
Life on Land

2019
Heritage, Cities and Landscapes, Sustainable Management, Conservation Planning and Design

RESEARCH UNITS CONTRIBUTION TO THE SDGs

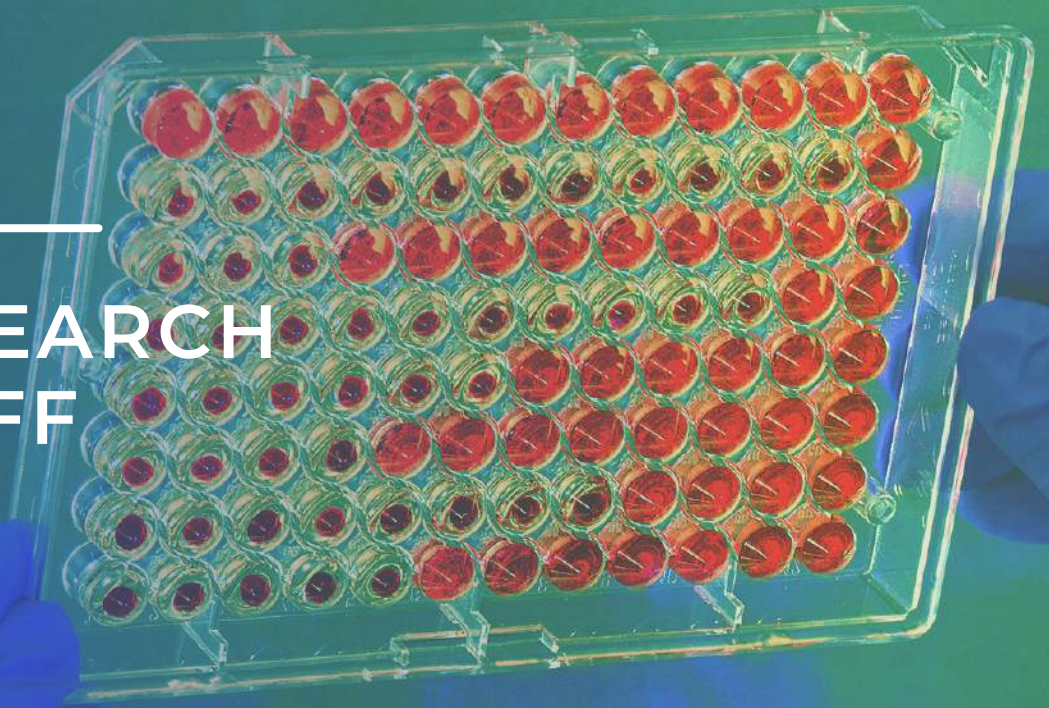
In all its activities, U.Porto is strongly committed to the Sustainable Development Goals (SDGs) of the **2030 Agenda of the United Nations**. Out of the 17 SDGs, in percentage terms, research unit's scientific activity is mostly aligned with the SDGs *Industry, innovation and infrastructure, Good health and well-being, Quality education, Climate action,*

and with *Sustainable cities and communities*. U.Porto's research alignment with the SDGs demonstrates its commitment not only with supporting the sustainable development through teaching, research and the promotion of innovative scientific projects, but also with incorporating these goals in the pursuit of its strategic objectives.



3

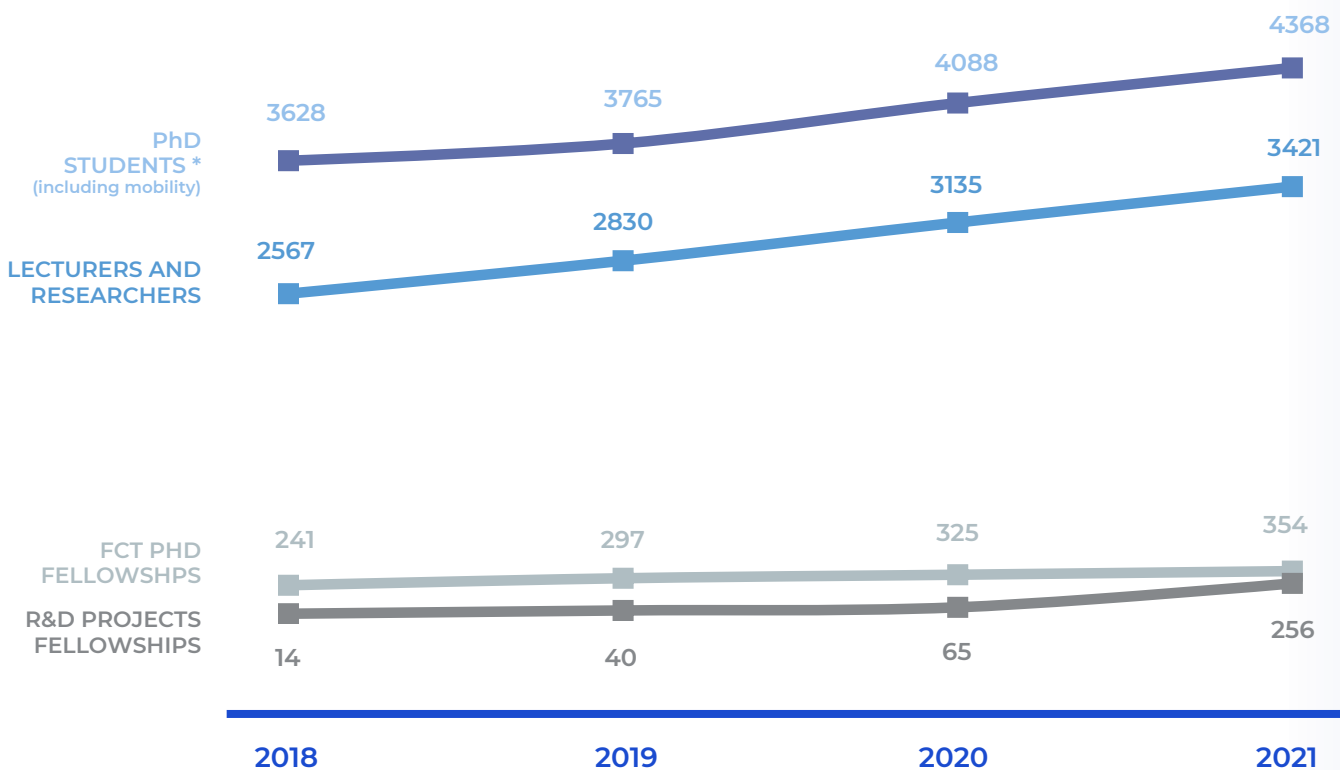
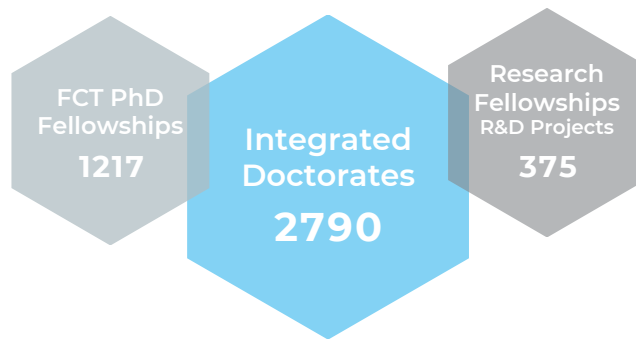
RESEARCH
STAFF



**U.PORTO
RESEARCH STAFF**

University of Porto is Portugal's second largest university and one of the most prestigious teaching and research institutions in the country, with more than 3400 lecturers and researchers, and over 33.000 students (2% in mobility programmes). U.Porto's quality, both in teaching and research, shows its range

and diversified profile within its overall mission of creating scientific, cultural and artistic knowledge, providing higher education firmly rooted in research, valorising knowledge both socially and economically, and actively participating in the progress of the communities in which we are involved.



Source: Serviço de Recursos Humanos; Gabinete de Avaliação e Qualidade 2020/2021.

* In *PHD STUDENTS*, for each year listed, the total number of students presented corresponds to the total registered students at the academic year which includes part of that year and part of the next year (e.g. 2018 corresponds to the academic year 2018/2019).

4

FLAGSHIP INITIATIVES

IJUP MEETING OF YOUNG RESEARCHERS OF UNIVERSITY OF PORTO

Held since 2008, the Meeting of Young Researchers of University of Porto is a pioneering initiative in Portugal that seeks to encourage the engagement of U.Porto students / young researchers in R&D activities, as early as possible, in their university education path.

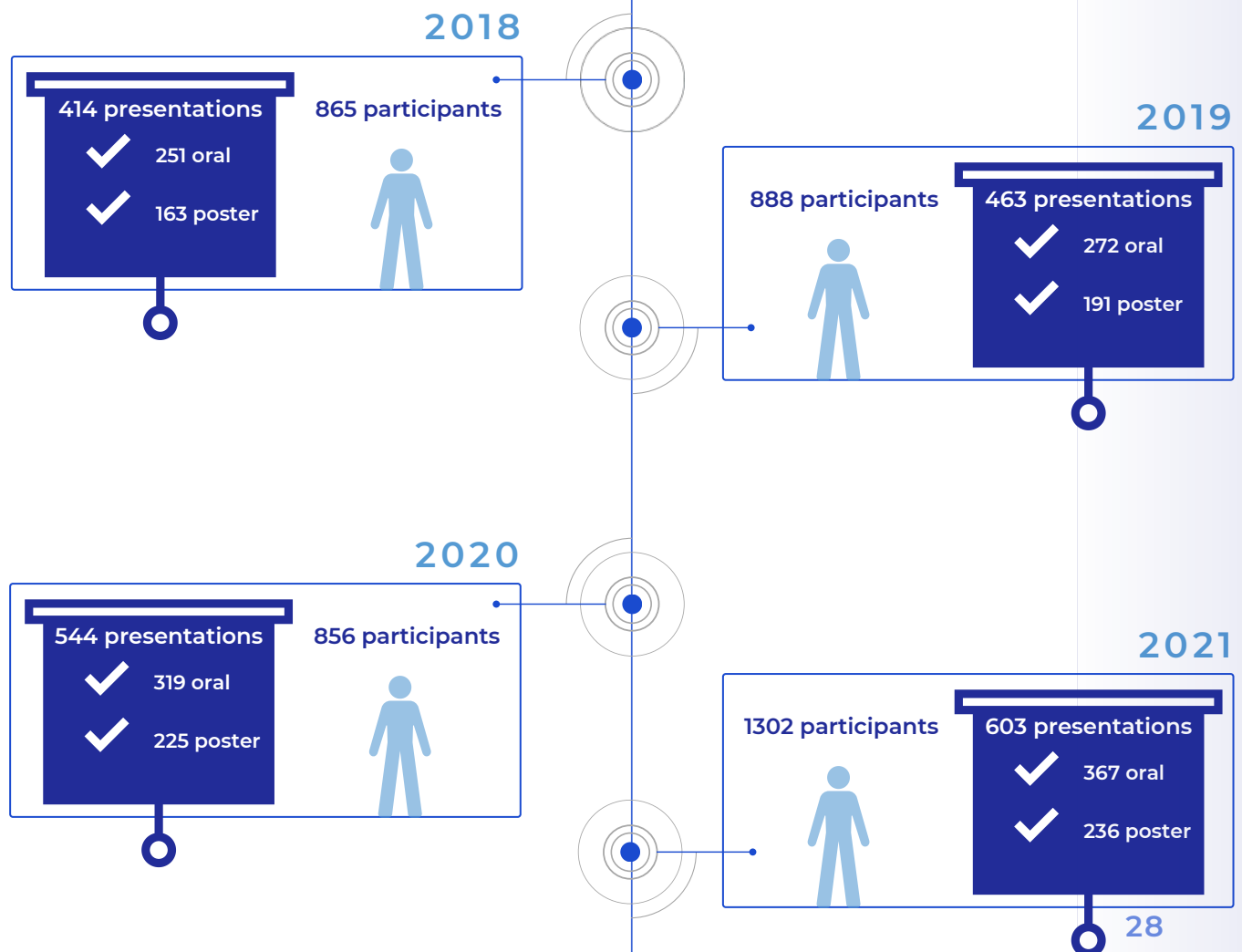


3911

TOTAL PARTICIPANTS

2024

TOTAL WORKS PRESENTED



**SCIENTIFIC EXCELLENCE
AWARD**

Created in 2018, the University of Porto's Scientific Excellence Award aims to recognize and boost the scientific activity and career of the U.Porto and Associated Research Institutes community, by distinguishing annually outstanding researchers at the university, according to the degree of excellence and impact of their research.

First edition **2018**



**Adelino Leite Moreira, FMUP / UnIC
Health Sciences**

Third edition **2020**



**Pedro Camanho, FEUP / INEGI
Engineering and Technology Sciences**



2019 Second edition



**Hélder Maiato, i3S / FMUP
Health Sciences**

2021 Fourth edition



**Vitor Vasconcelos, FCUP / CIIMAR
Marine Sciences**

EMERGENCE@U.PORTO

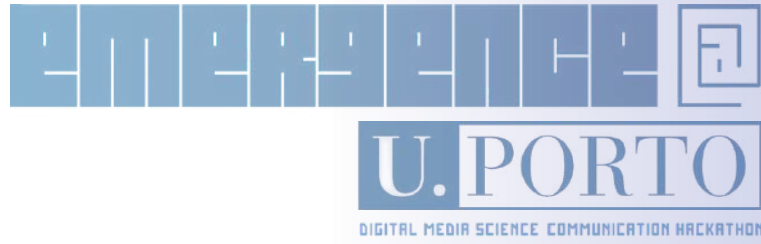
The Digital Media Science Communication Hackathon - EMERGENCE@U.PORTO - is an initiative that aims to deepen skills in science communication. Through teamwork and in a multidisciplinary environment, the initiative brings together qualified professionals in art, programming, communication and research from U.Porto research ecosystem.

47

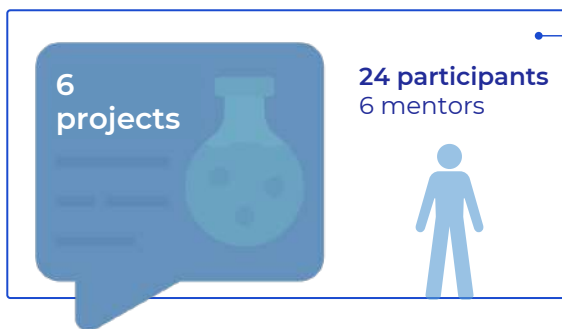
TOTAL PARTICIPANTS

12

PROMOTED PROJECTS



2019



2021



5

PUBLICATIONS AND KNOWLEDGE TRANSFER & VALORIZATION

PUBLICATIONS AND KNOWLEDGE TRANSFER & VALORIZATION

Assuming its role as a Research-oriented University, U.Porto's R&D+i ecosystem is one of the main producers of Science in Portugal.

The effort and investment in human resources has been essential to ensure the competitiveness of the scientific production of the U.Porto.



25 249 TOTAL PUBLICATIONS 2016-20 WEB OF SCIENCE (WoS)

2018	4 773
2019	5 332
2020	5 807
WITH INTERNATIONAL COLLABORATION	
2018	2 566 (53,8%)
2019	2 812 (52,7%)
2020	3 226 (55,6%)



TOP 10 countries collaborating with University of Porto, 2016-20. Source: SciVal, 2021.

Source: U.Porto, Gabinete de Avaliação e Qualidade, 03 of October 2022.



1823 SUPPORTED INVENTORS

460	ACTIVE PATENTS
346	GRANTED PATENTS
77	NATIONAL PATENTS
269	INTERNACIONAL PATENTS

Source: U.Porto Inovação, 8 of July 2022.

6

RESEARCH NETWORKS AND INTERINSTITUTIONAL COOPERATION

RESEARCH NETWORKS AND INTERINSTITUTIONAL COOPERATION

To strengthen the internationalisation and empowerment of the research "made in U.Porto", the University integrates several research networks. The participation of the U.Porto in these research networks, besides fostering the development of scientific knowledge of researchers and

promoting the integration and relationship of the scientific community of the U.Porto with other internationally recognised counterparts, is one of the main components of the internationalisation strategy of the University of Porto.

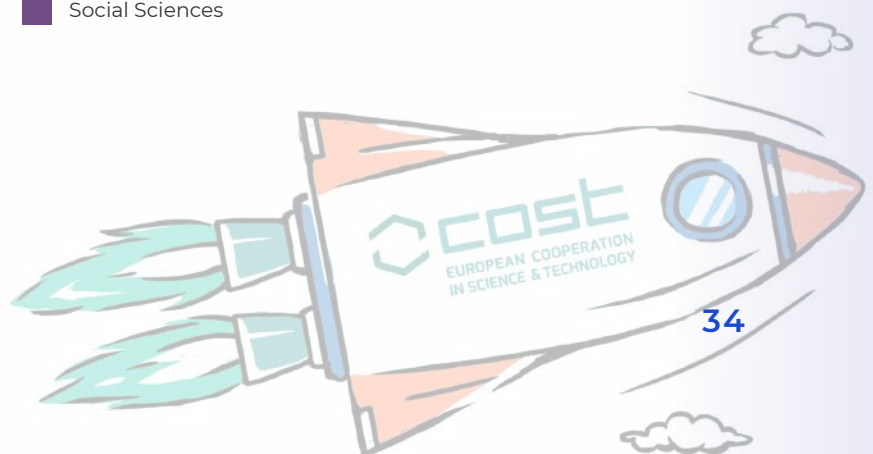
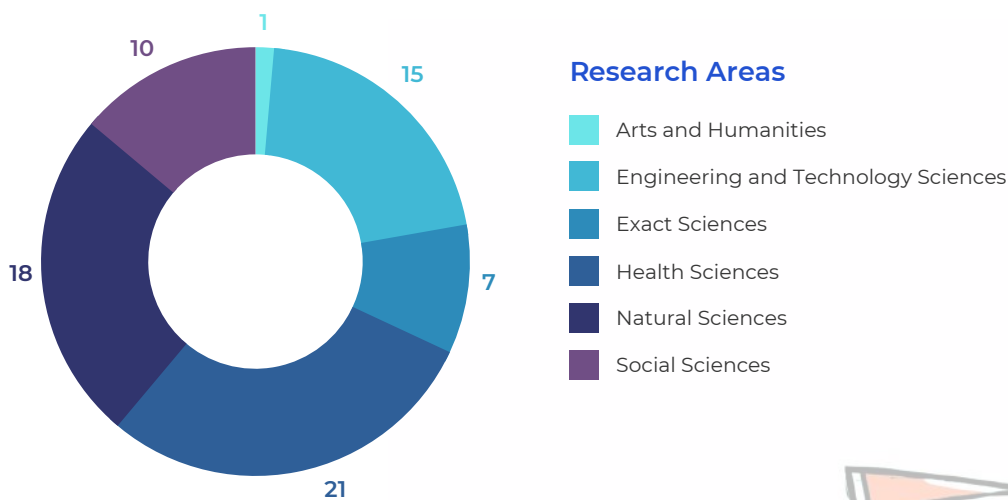
COST ACTIONS

94

Number of U.Porto members involved in COST Actions

72

COST Actions in which U.Porto is or was involved



EUROPEAN UNIVERSITY ALLIANCE FOR GLOBAL HEALTH

The European University Alliance for Global Health (EUGLOH) is a strategic partnership between the Université Paris-Saclay (UPSaclay), Lund University (LU), Ludwig-Maximilians-Universität München (LMU), Universidade do Porto (U.Porto) and the University of Szeged (UZG) in the

context of the European Commission's European Universities Initiative. Within the EUGLOH network, a balanced interfaculty consortium of researchers and students develop interdisciplinary activities, particularly in education and training, related to global health.

18

Research activities
(1 hosted by U.Porto)

1079

Students
(328 of U.Porto)



EUGLOH

The EUGLOHRIA project consolidates the EUGLOH Alliance's efforts and achievements towards establishing a European University around Global Health, by broadening its scope to include the 'Research and Innovation' dimension. The coordinated actions within the Alliance

will revolve around following transformational modules on a joint Research & Innovation agenda, sharing infrastructures and resources, and promoting Academia-Business cooperation.



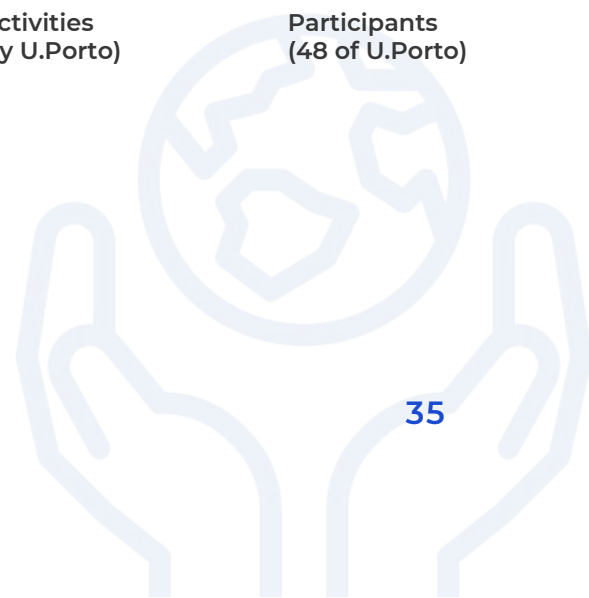
6

Research activities
(2 hosted by U.Porto)

217

Participants
(48 of U.Porto)

EUGLOHRIA



IACOBUS

The IACOBUS Program encourages cooperation and exchange between human resources from higher education entities in the Euroregion Galicia - Northern Portugal, facilitating the sharing of training, research and dissemination

activities. U.Porto has encouraged and supported the participation of the reserach ecosystem in the annual calls for funding for 'Research Stays' and 'Scientific Publication Support' (Papers).

93

Incoming stays

79

Supported articles

30

Outgoing stays

38.3 k€

Total funding attributed to supported articles

PROGRAMA
IACOBUS



7

R&D+i FUNDING

R&D+i FUNDING

U.Porto's ecosystem has encouraged competitive external funding to support research, development and innovation activities, including the protection and enhancement of R&D results.



NATIONAL FUNDING

RESEARCH UNITS AND ASSOCIATE LABORATORIES

70.6 M€

Total funding
2020-2023

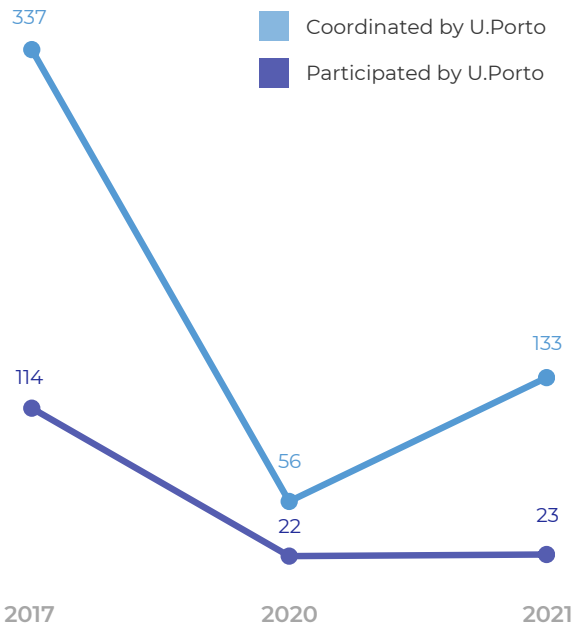
33.8 M€

Total funding

FCT: PROJECTS IN ALL SCIENTIFIC DOMAINS

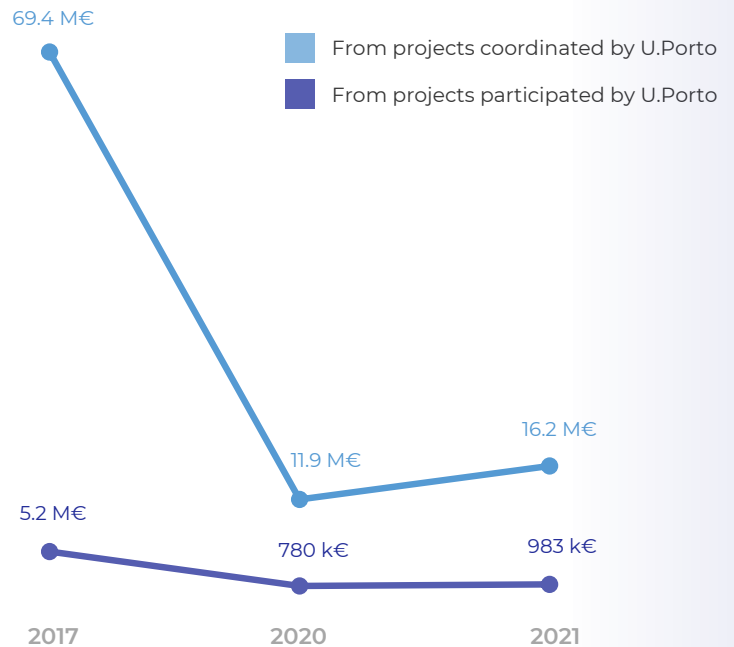
685

Total projects



103.2 M€

Total raised funding



PORTUGAL 2020

417 *

Total coordinated projects

* Funding not included: FCT 2017 (SAICT-45-2017-02), Doctoral programs (NORTE-69-2015-15) and Research Units funding FCT (SAICT-45-2015-01)



INTERNATIONAL FUNDING

HORIZON 2020 & HORIZON EUROPE

130

Total projects

31

Coordinated projects

99

Participated projects

66.1 M€

Total raised funding

EUROPEAN RESEARCH COUNCIL (ERC) GRANTS

3

ERC Grants

5.4 M€

Total raised funding



PEDRO LEÃO
CIIMAR

Starting Grant



RITA COVAS
BIOPOLIS

Consolidator Grant



MIGUEL CARNEIRO
BIOPOLIS

Consolidator Grant

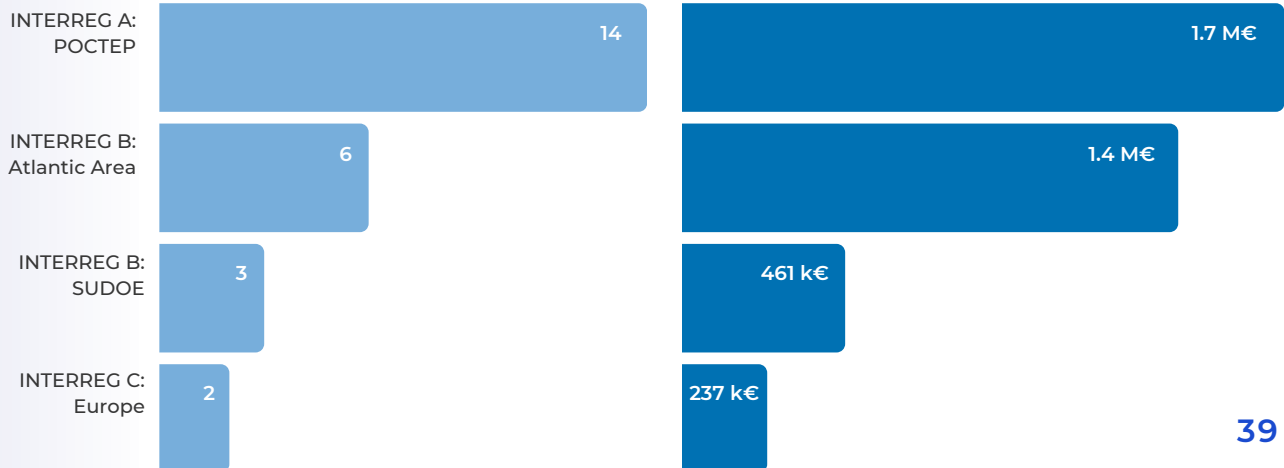
INTERREG

25

Total projects

3.9 M€

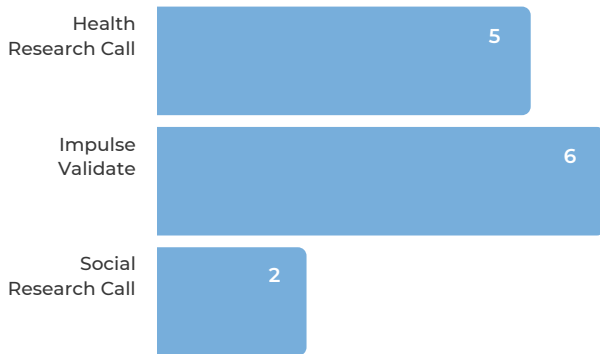
Total raised funding



"la Caixa" Foundation

13

Total projects



2.5 M€

Total raised funding



EEA GRANTS

49

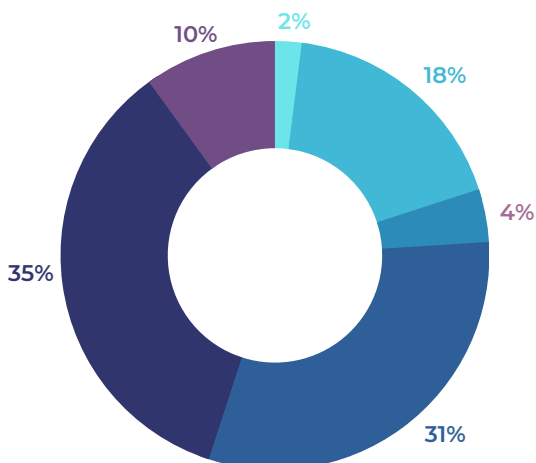
Total projects

30

Coordinated projects

8.1 M€

Total raised funding



Research Areas

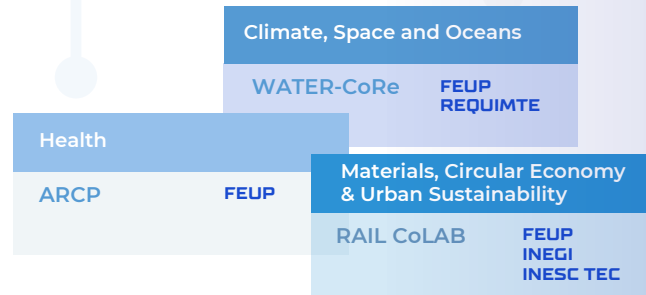
- Art
- Environment and Climate Change
- Gender Equality
- Health
- Integrated Marine and Coastal Management and Blue Growth
- Social Sciences

40

INSIGHTS 2022

SECTION 2

+3 CoLAB



+1 UNESCO CHAIR



Blue Exoert - Science Education of Children for Ocean Stewardship: in support of the Blue Economy
CIIMAR

+3 FLAGSHIP INITIATIVES



510 works presented

1154 participants



6 projects


23 participants
6 mentors



Nuno Santos
FCUP / CAUP

+6 ERC GRANTS

 SUSANA SOARES LAQV/REQUIMTE	 ANDRÉ TAVARES FAUP	 NUNO SANTOS CAUP
Starting Grant	Consolidator Grant	Advanced Grant
 BRUNO LOFF FCUP	 RITA LADO FEUP	 SALOMÉ PINHO i3S
Starting Grant	Starting Grant	Synergy Grant

A fluorescence microscopy image showing a dense population of cells. The cells are stained with three different dyes: red, green, and blue. The red staining highlights the cytoplasm and cell membranes, forming a complex network. The green staining is concentrated in the nuclei of many cells. The blue staining is also present in the nuclei, appearing as bright spots. The overall background is dark, making the stained cells stand out. The text 'U. PORTO' is overlaid on the image in a white serif font, enclosed in a white rectangular border.

U. PORTO