



Fonte: il presente documento di reportistica di sostenibilità è stato scaricato dal sito dell'Alma Mater Studiorum – Università di Bologna al seguente link: <https://www.unibo.it/it/ateneo/chissiamo/bilancio-di-sostenibilita/reporting-on-united-nations-sustainable-development-goals>




ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

# REPORT ON U.N. SUSTAINABLE DEVELOPMENT GOALS | 2021

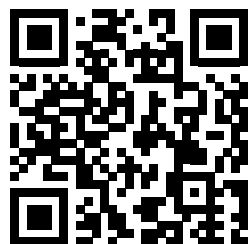


This document was created in order to redirect the readers to AlmaGOALS website for more information and further details.

The title of the boxes, title of sections, banners, icons of the SDGs are clickable and they address specific pages and projects. Follow the symbol 

The following QR Code refers to AlmaGOALS homepage.

Please, interact with the report and discover our actions towards SDGs.



*Report on U.N. Sustainable Development Goals drawn up by:*

Alma Mater Studiorum - Università di Bologna

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# INTRODUCTION

The United Nations' Agenda 2030 is the flagship to lead us toward a more sustainable, consistent, and just world. As announced by United Nations, "The Sustainable Development Goals are more important now than ever. Now is the time to secure the well-being of people, economies, societies, and our planet". The University of Bologna is committed to the values of Agenda 2030 and plays a leading role in guiding all institutional actions toward the pursuit of sustainable development.

This is in line with a very important principle of our new strategic plan stating that Alma Mater wish to promote social responsibility in every field and every activity.

In fact, the seventeen Goals are incorporated into the strategic plan that serves as a blueprint for action and positioning the University of Bologna as an agent of positive change in the world, as well as one of the leading universities according to the Times Higher Education Impact Ranking list in the last few years.

The University of Bologna have published a Report on U.N. Sustainable Development Goals since 2016 to systematically monitor progresses towards the SDGs and form bridges between the university and a range of local, national, and international stakeholders.

Thanks to the work of our scientific group, methodology, metrics and data gathering have been defined, generating a thorough and helpful report for the use of all stakeholders.

The Sustainable Development Goals are for all, and everybody must play their part. Everyone's involvement, is essential to creating a solid base from which it is possible to build a better present and a sustainable future for all. This will be anything but easy but we will continue to work to make sure we are part of the solution.

**Giovanni Molari**  
Rector  
Alma Mater Studiorum-Università di Bologna

The University of Bologna is extremely proud that its efforts regarding the SDGs have been certified by **Times Higher Education**.

In 2021, it was ranked 37<sup>th</sup> in the World, out of more than 1,406 universities in 106 countries/regions. This ranking is the only global performance table that assesses universities against the United Nations' Sustainable Development Goals.

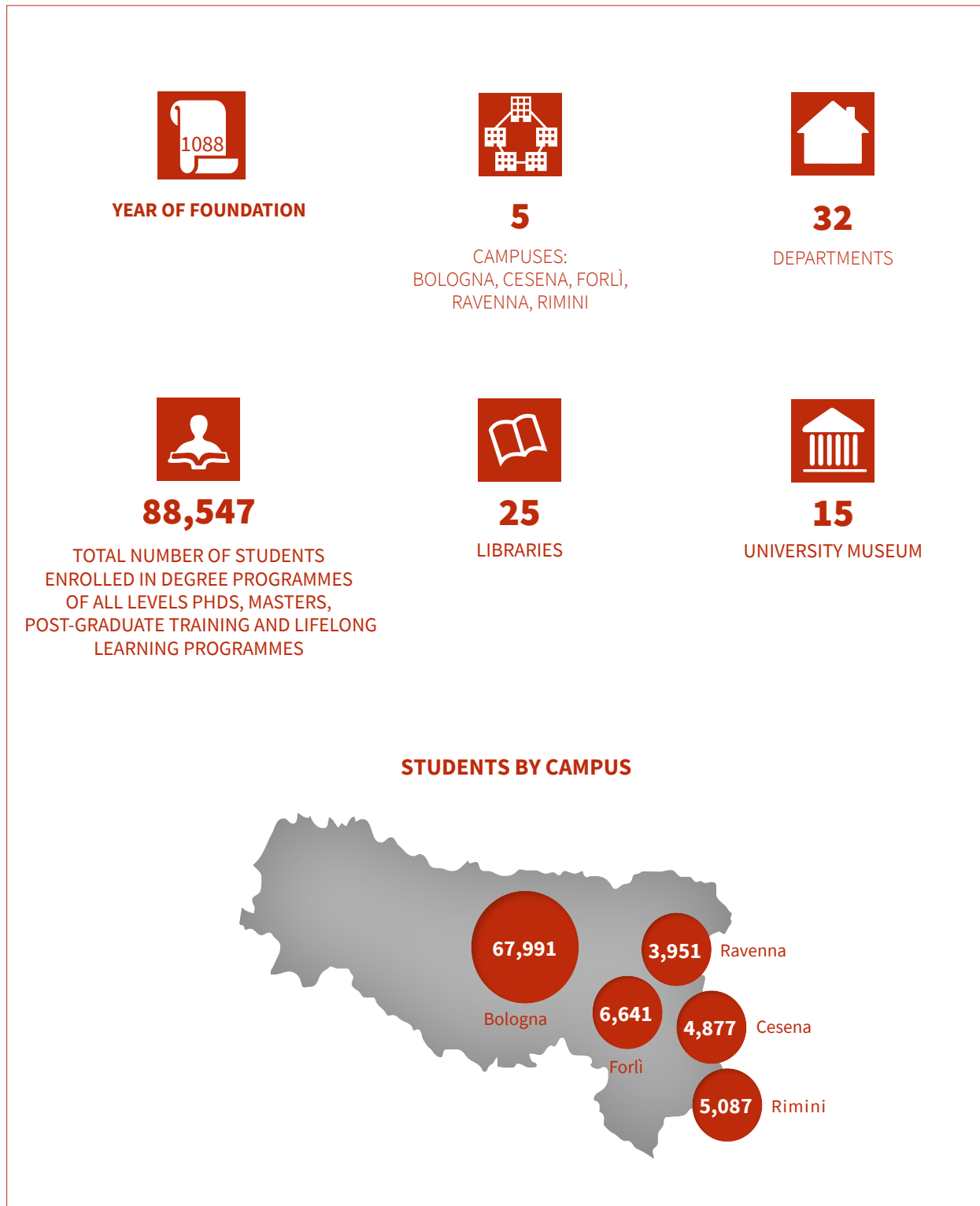
More specifically, the University of Bologna ranked:

**4**  
number of sdgs  
in top 30



# ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA

## KEY FACTS



**34**

RESEARCH PAPERS  
PER DAY



**> 12,233**

RESEARCH PAPERS  
PER YEAR



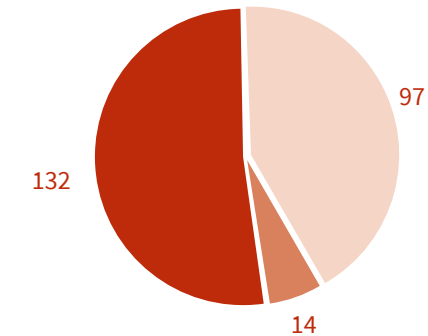
**270**

7PQ-H2020-LIFE-INTERREG  
RESEARCH PROJECTS

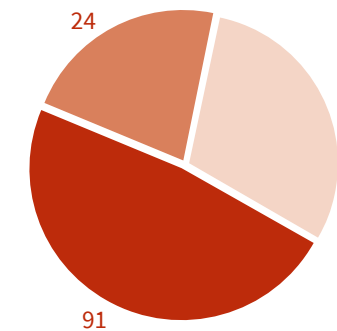


**243**

DEGREE PROGRAMMES  
(79 INTERNATIONAL)



FIRST CYCLE DEGREE PROGRAMMES  
SECOND CYCLE DEGREE PROGRAMMES  
SINGLE CYCLE DEGREE PROGRAMMES



PHD PROGRAMMES  
MASTER PROGRAMMES  
HIGHER EDUCATION  
AND LIFELONG  
LEARNING PROGRAMMES

### STUDENTS' INTERNATIONAL MOBILITY



**3,407**

INTERNATIONAL STUDENTS



**1,480**

INCOMING



**1,927**

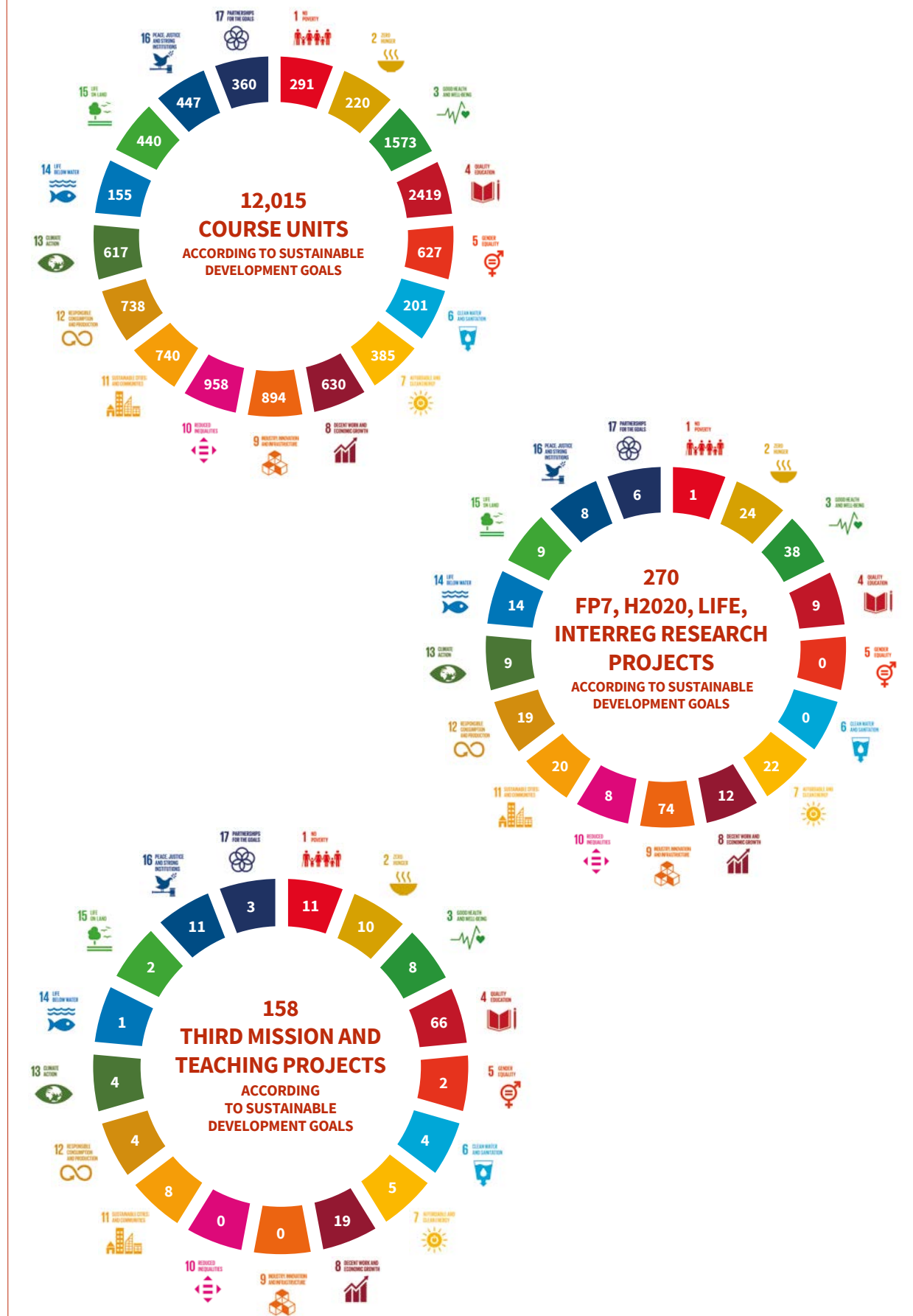
OUTGOING



# ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA U.N. SDGS HIGHLIGHTS



## SDGS RELATED COURSE UNITS



# 1. END POVERTY IN ALL ITS FORMS EVERYWHERE



TEACHING

<b>291</b>	<b>23,687</b>	<b>8</b>
COURSE UNITS	STUDENTS WHO CHOSE THE COURSE UNITS	COLLABORATIONS, TEACHING, MOBILITY UNITS

THIRD MISSION

**3**

COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS

RESEARCH

PUBLICATIONS IN SCOPUS 2016-2021	"CITED BY" IN SCOPUS	H INDEX
<b>554</b> (UNIBO) <b>16</b> (ELSEVIER)	<b>22,710</b> (UNIBO) <b>161</b> (ELSEVIER)	<b>43</b> (UNIBO) <b>7</b> (ELSEVIER)
<b>108</b>	<b>69</b>	<b>1</b>
PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK	PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK	RESEARCH PROJECTS (246,411 €)

THIRD MISSION

**UNI-CO-RE**

The University Corridors for Refugees (Ethiopia University of Bologna 2020-22) initiative was created to allow refugee students from Ethiopia to continue their academic careers at the University of Bologna. The project is supported by the University of Bologna and United Nations High Commissioner for Refugees (UNHCR) Italy - UN Agency for Refugees and carried out through the support of numerous partners.



## 2. END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE



### TEACHING



**220**  
COURSE UNITS



**12,783**  
STUDENTS WHO  
CHOSE THE COURSE  
UNITS



**4**  
COLLABORATIONS,  
TEACHING, MOBILITY

### THIRD MISSION



**6**  
COOPERATION, SOCIAL  
AND INDUSTRY  
ENGAGEMENT  
RESEARCH PROJECTS

### RESEARCH



PUBLICATIONS IN  
SCOPUS 2016-2021  
**577** (UNIBO)  
**235** (ELSEVIER)



"CITED BY"  
IN SCOPUS  
**94,422** (UNIBO)  
**3,681** (ELSEVIER)



H INDEX  
**42** (UNIBO)  
**31** (ELSEVIER)



**155**  
PUBS PER CAPITA  
INDEX NUMBER  
INTERNATIONAL  
BENCHMARK



**97**  
PUBS PER CAPITA  
INDEX NUMBER  
NATIONAL  
BENCHMARK



**24**  
RESEARCH  
PROJECTS  
(127,559,755 €)



### THIRD MISSION

#### FOODLAND PROJECT

This project seeks to increase the nutritional performance of agri-food systems in Africa and promote healthy diets to combat the various forms of malnutrition on the continent. The University of

Bologna, alongside 27 other partners, is aiming to find solutions and innovations for the development of agriculture and aquaculture in African nations.

### INSTITUTION

#### KM0 PROJECT

The KM0 project is coordinated by the "Azienda agraria" of the University of Bologna with the scientific contribution of the Department of Agricultural and Food Sciences, to ensure the highest quality for the supply chain. This initiative aims to promote a closer relationship between the city and the countryside, encouraging consumers to get to know and appreciate the typical agricultural

products of the area, following seasonal trends. This project educates consumers about the place of origin, cultivation techniques, and above all, the consumption of products at their ripest. In addition, the farm also cultivates minor species of fruit trees, of which there are numerous varieties, some of which can be considered heritage or even "ancient".





# 3. ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES



## 3 GOOD HEALTH AND WELL-BEING

### TEACHING



**1,573**  
COURSE UNITS



**110,703**  
STUDENTS WHO  
CHOSE THE COURSE  
UNITS



**13,205**  
STUDENTS OF  
HEALTH DEGREES



**7**  
COLLABORATIONS,  
TEACHING, MOBILITY

### THIRD MISSION



**1**  
COOPERATION, SOCIAL  
AND INDUSTRY  
ENGAGEMENT  
RESEARCH PROJECTS

### RESEARCH



PUBLICATIONS IN  
SCOPUS 2016-2021  
**8,402** (UNIBO)  
**8,364** (ELSEVIER)



“CITED BY”  
IN SCOPUS  
**214,421** (UNIBO)  
**218,446** (ELSEVIER)

### INSTITUTION



**248**  
N. UNIBO PROFESSORS AND  
RESEARCHERS IN AGREEMENT  
WITH USL AND HOSPITAL  
COMPANIES



H INDEX  
**160** (UNIBO)  
**161** (ELSEVIER)



**38**  
RESEARCH  
PROJECTS  
(17,092,834 €)



**101**  
UNIBO ADMINISTRATIVE  
TECHNICIANS IN AGREEMENT  
WITH USL AND HOSPITAL  
COMPANIES



**127**  
PUBs PER CAPITA  
INDEX NUMBER  
INTERNATIONAL  
BENCHMARK



**74**  
PUBs PER CAPITA  
INDEX NUMBER  
NATIONAL  
BENCHMARK



THIRD MISSION **ELEPHANT****Empowering universities' Learning and rEsearch caPacities in the one Health Approach for the maNagement of animals at the wildlife, livestock, and human interface in souTh Africa – ELEPHANT.**

The ELEPHANT consortium consists of two European universities and six South African universities. This partnership helps African participants to improve their quality of teaching and research by upgrading

capacities in terms of better-equipped laboratories, standardised methodologies, and continuous interactions, within and beyond the project period, with all staff of other partners and graduate students. This will positively impact evidence-based One Health interventions to improve the health and welfare of animals and humans.

**ACTLIFE**

Physical activity is a tool to improve quality of life for osteoporosis sufferers. ACTLIFE is a partnership project among various institutions and universities focusing on preventing some of the consequences of

osteoporosis through physical activity. In particular, the project aims to deal with bone density and fear of falling in people with osteoporosis.

**LOCAL COLLABORATION****Rizzoli Hospital**

The Rizzoli Orthopaedic Institute combines treatment and research with high-level healthcare. It houses the Cell and Musculoskeletal Tissue Bank, which is the regional centre of reference for the collection, conservation and distribution of cells and tissues.

students, as well as expanding the full potential of its skilled staff through goal sharing and assuming responsibility for results.

**Institute of Neurological Sciences**

Our university offers healthcare services which are part of the Italian state healthcare system. The U.O.C. of the Neurological Clinic of the IRCCS Institute of Neurological Sciences of AUSL Bologna is a structure for the diagnosis and treatment of neurological diseases in adults and children. It works in a synergistic and integrated manner with the University Department of Biomedical and Neuromotor Sciences.

**Sant'Orsola-Malpighi Hospital**

The University of Bologna Hospital Authority St. Orsola-Malpighi Polyclinic develops and delivers multi-specialist research, education and training in an integrated manner. The hospital promotes innovation and pursues the highest degree of both patient/customer care and the training of medical

INSTITUTION **COVID 19 TRACKING**

This initiative was started in October 2020 with the contribution of Hygiene and Health postgraduate students, aiming for timely management of reported SARS-CoV-2 positive cases at the university. The following activities were carried out:

- Contact tracing at the university
- Disinfection of the premises where necessary
- Temporary and rational suspension of activities in the case of outbreaks
- Invitation to passive surveillance of low-risk contacts
- Reporting of possible close contacts or intermediate risks.

In 2021, the work carried out involved 593 cases examined, of which 591 were positive. More than 3,200 emails were processed; 222 reports were made through the online format; more than 200 sanitisation interventions were also requested.

**Flu Vaccination**

The AUSL Specialist Unit, in collaboration with CESIA, handled the organisational phase (sign-ups and reservations) of the vaccination campaign, with the achievement of 2,100 reservations. The logistics phase was managed (reception and stay in safety according to anti covid, document control, and information procedures) at the clinics of the Palagi Pavilion, where implementation was entrusted to the hospital's occupational medicine service. A total of 1,623 employees of the University of Bologna were vaccinated between October-December 2021. In addition, a flu vaccination campaign was carried out in collaboration with the Vasta Romagna AUSL on other campuses of the university: Ravenna, Rimini, Cesena, and Forlì Campuses.

**Health Surveillance**

In 2021 a significant part of the activities of the assigned occupational physician involved the management and health surveillance of staff for known or possible vulnerability to Covid 19. The extent of the activities has progressively expanded, contrary to potential expectation. Fewer than 300 personnel of the University of Bologna required the intervention of an occupational physician.

**Healthcare services**

As of January 1, 2019, the collective health policy for access to health services is active (including the package of preventive visits, divided by age groups) and reimbursement of the same health expenses for the university's contracted staff. In 2021, 1,753 employees and 252 family members used one or more healthcare services. The services include:

**Podiatry clinic**

The University of Bologna Outpatient Clinic for Podiatry provides the public with a complete range of services, with a high standard of care, for foot health and well-being, and provides podiatry services at reduced rates. The Outpatient Clinic is equipped with four podiatry units for the prevention and treatment of foot conditions.

**Dental care**

Students, teaching staff and technical and administrative staff (currently employed and retired, including dependent children and spouses) can take advantage of the dental care service at the department's dental clinic.

**PSYCHOLOGICAL SUPPORT****For students:**

This service is aimed at young people with emotional and relational problems, affective and behavioural disorders, and difficulties with university and/or work life, and is free of charge for students studying at the University of Bologna and for all young people aged between 18 and 28 years who use the health service in Bologna.

**For staff:**

This service is aimed at teaching and technical-administrative staff who wish to share psychological discomfort and/or relational and communicative

problems in the workplace in a totally confidential space.

**“Avrò cura di te”: psychological support service for the care of children and family members**

This service offers psychological support for the caring role that adults can be required to perform as parents of preschool/school-age children and adolescents, and as relatives of the sick or elderly.

- Supporting parents in developing independence in preschool age children
- Support for parenting for a conscious use of technologies
- Support in acquiring a caring role.

## UNITS OF EXCELLENCE

### The Paediatric and Evolutionary Cardiac Surgery Unit

is part of the Cardiothoracovascular Department, and is the only accredited centre in the Emilia-Romagna region for the surgical treatment of congenital heart disease. The unit's activities consist of treatment of all congenital heart disease in patients of any age. This unit has been designated as the centre of reference in the Emilia Romagna Region for the surgical treatment of congenital heart disease.

### Haematology Institute and Unibo

The Istituto di Ematologia Lorenzo e Ariosto Seràgnoli haematology institute, the Department of Diagnostic and Experimental Specialised Medicine and the national healthcare system partner to boost the diagnosis of haematological diseases, and care and treatment of patients, through multidisciplinary methods, and with the development of innovative approaches.

### Cross-Cultural Counselling

The Cross-Cultural Counselling Service aims to prevent critical situations relating to adaptation, study, excessive demands and complaints, isolation, conflicts with other students and/or teachers, practical environmental problems etc. from a cultural diversity standpoint. The service is free and offers assessment and analysis of psychosocial-cultural needs, primary assistance and orientation.

### Sexually Transmitted Diseases

Our students have free access to the "Sexually Transmitted Disease Centre" at our university hospital. Conditions treated and services provided: Specialist visits and treatment of sexually transmitted diseases and genital conditions, information, education, prevention, and counselling (also psychological).

## CUSB

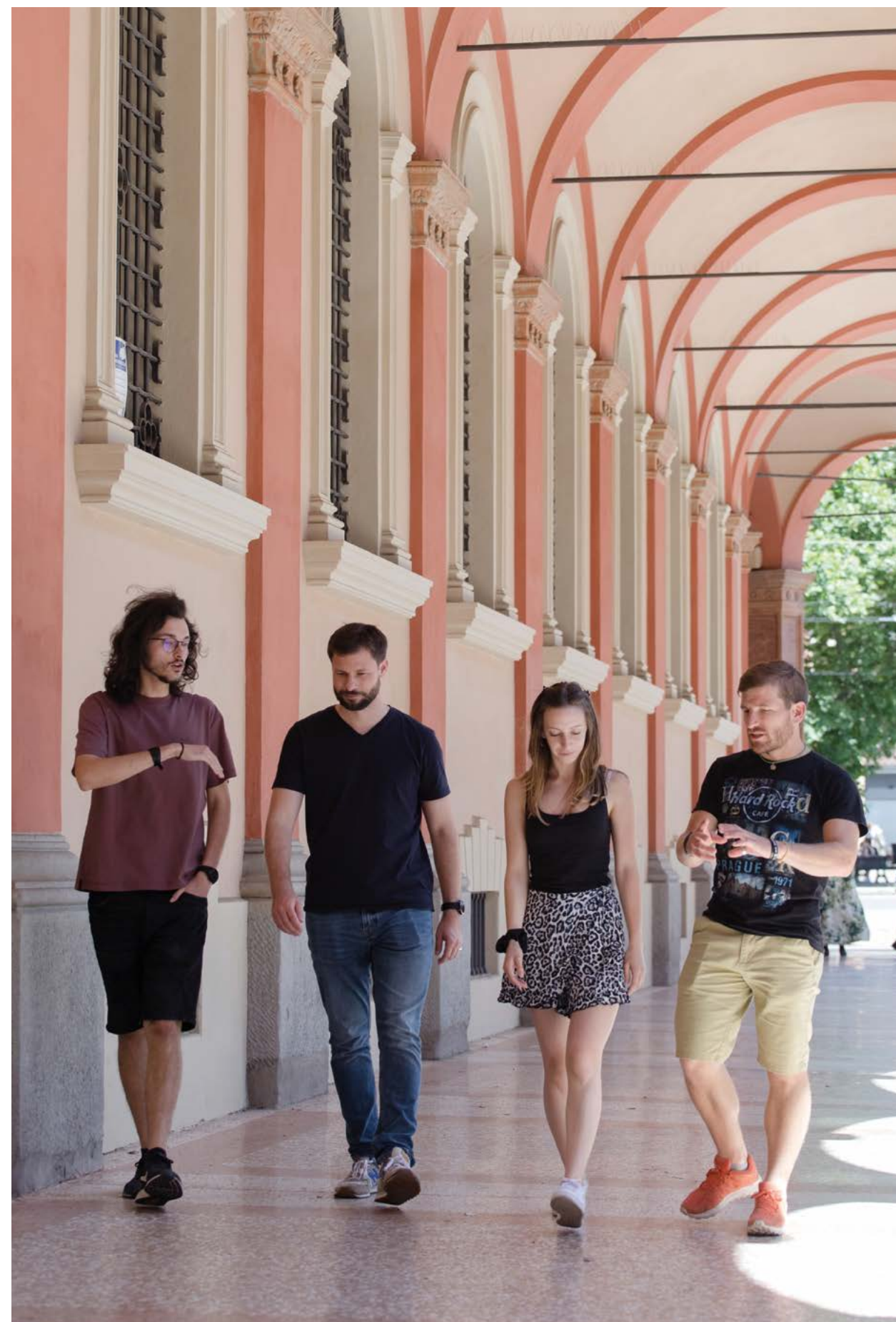
Our students have free access to sports facilities managed by the University of Bologna Sports Centre. This service allows local schools to access the facilities at no charge during the free events/projects. For the local community, only access to the garden and the refreshment areas is free of charge. The University of Bologna Sports Centre also offers

pay-per-use services such as sports facilities and courses (competitive, non-competitive, amateur sports). Services organised by CUSB are open to both students and employees, and the local community (citizens – sports clubs – associations) with discounts for CUSB-members.

## OUTRACE

In order to enhance outdoor spaces as necessary elements to increase the quality of life in university spaces and promote a healthy lifestyle, outrace sports equipment was inaugurated in 2019 at the Campus of Forlì within the framework of the

Sustainable Multicampus Project. University communities and citizens can use the facilities to carry out gymnastic activities. It also fits harmoniously into the context of the campus park.





# 4. ENSURE INCLUSIVE AND QUALITY EDUCATION FOR ALL AND PROMOTE LIFELONG LEARNING



## TEACHING



**2,419**  
COURSE UNITS



**53**  
COLLABORATIONS,  
TEACHING, MOBILITY



**185,853**  
STUDENTS WHO  
CHOSE THE COURSE  
UNITS



**5,076**  
ALL COURSE UNITS  
RELATED TO SDGS

## PARAMETERS FOR QUALITY EDUCATION

### STUDENT ATTRACTIVENESS

Students enrolled in Second cycle degree programmes (from other universities)	12,623
Incoming exchange students	1,480
International students (UE and Extra-UE)	7.5%

### SOCIAL INCLUSION

Value of scholarships (merit and status based)	13,020,542€
Students followed by the Service for disabled	1,957
Enrolled University students by gender (first, second and single cycle degrees)	38,739 M 49,808 F

### PROGRAMMES OFFERED AND MAIN RESULTS

Degree programmes	243
Degree programmes taught in English	1,557
Masters' programmes and post-graduate/lifelong learning programmes	115
Courses with at least three quarters of students satisfied with the course	83.8%
Graduates	20,086
Graduates within regular enrollment	69%

RESEARCH 



PUBLICATIONS IN SCOPUS 2016-2021

**118** (UNIBO)  
**18** (ELSEVIER)



"CITED BY" IN SCOPUS

**869** (UNIBO)  
**149** (ELSEVIER)



H INDEX

**14** (UNIBO)  
**7** (ELSEVIER)



**72**  
PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK



**110**  
PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK



**9**  
RESEARCH PROJECTS (5,508,702 €)

RESEARCH PRODUCTS 2020

No.

Articles	8,577
Chapters	1,905
Books	488
Proceedings	1,153
Translations	23
Patents/licences	259
Other	87
<b>Total</b>	<b>12,492</b>

THIRD MISSION 



**13**  
COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS



**2,495**  
STUDENTS ON LIFELONG LEARNING PROGRAMMES



**4,075**  
TEACHERS ON LIFELONG LEARNING PROGRAMMES IN EDUCATION STUDIES

GUIDANCE (CURRENT AND OUTGOING STUDENTS)

No.

Curricular internships	10,900
Abroad curricular internships	867
Job Incontra Online participants	2,111
Recruiting Week participants online participants	2,157 1,079
Job Placement service: N. ads posted on the bulletin board N. of companiers accredited to the bulletin board	4,166 7,290
N. CV consulted	50,169



INSTITUTION 

TRAINED PEOPLE	% ON UNIVERSITY STAFF
2,521	83.7%

**WELCOME DAY FOR INTERNATIONAL STUDENTS**

Every year, the University of Bologna welcomes its international students to the university community and the city. With this event, the university intends to help international students in their transition to university life in Bologna. As such, the event includes presentations of university facilities, services, and opportunities, as well as

networking activities to build and foster a sense of community among international and Italian students and ambassadors. In **2021**, due to the health emergency, the welcome day was held online through a platform for new initiatives and communicational possibilities.

**RESEARCHERS' NIGHT**

For the sixth consecutive year, the European Union has approved the project Society Rinascimento / Researchers' Night 2021, a public event dedicated to research and researchers' careers. The keyword of the 2021 edition was "Renaissance". Building on this concept, initiatives have been planned and promoted dissemination of research along three

lines: human and environment, human and frontier of knowledge, human relations. These dimensions were considered key factors to exiting the pandemic and bringing about tangible renewal of society through research, including as a response the sustainability objectives identified in the UN 2030 Agenda. The event took place both in person and online.

**UNIBO OPEN KNOWLEDGE (BOOK)**

The University of Bologna Open Knowledge (BOOK) is an initiative designed to develop and deliver MOOCs (Massive Open Online Courses). All courses are open to the general public and a specific certification is provided to every learner who completes a course.

The course Higher Education for Sustainable Development Goal introduces the concept of Sustainable Development and the recent debate and policies promoted at the global level to deal with urgent environmental and societal challenges.

**ALMA MATER FEST**

On 11 October 2021, Alma Mater Fest, the welcome event for students of the University of Bologna, was held live and via streaming: it was an opportunity for participation and sharing that saw the involvement of fourteen locations and channels active simultaneously in Bologna and the campus cities.

Events, talks, guests, stories from ambassadors, emotional videos, and dialogue with students told the story of the university community through sport, sustainability, culture, and music. Over 2,000 people attended in person, and there were around 15,000 live stream views.

**DEPARTMENTS OF EXCELLENCE**

Fourteen of out 32 Departments were selected by MIUR (Italian Ministry of Education, University and Research) as Departments of Excellence. This initiative provides

recognition to 180 Italian Universities Departments for the quality of their research and development projects.

INSTITUTION 

**NEW UNIVERSITY RESIDENCE "UMBERTO ECO"**

In October 2021, renovation works began on the former red cross site, with spaces for teaching and the Umberto Eco dormitory, which will provide 40 new accommodation spaces for University of

Bologna students. This project is for regulatory adaptation of the historic heritage and the expansion of equipment to meet the needs for new classrooms and student services.

**CLASSROOM UPGRADES**

The multi-year classroom improvement project (2020-2022) aims to increase student satisfaction with infrastructure, the usability of blended learning and efficient use of teaching spaces. The most viable actions are first and foremost strengthening of IT tools for management and the use of the classrooms such as touchscreen monitors, height adjustable monitor stands etc. Another change is the preparation and management of the classrooms according to infection control

and containment security protocols such as definition of Covid capacity; definition of incoming and outgoing flows; logistic supervision; graphic material (totems, place cards, signs etc.); daily sanitisation of contact surfaces; hand sanitiser dispensers; non-separate Covid waste collection. The project also aims to redevelop the teaching areas: furnishings, equipment, building and plant maintenance, cleaning, accessibility and décor.

**NEW LIBRARY FOR BOLOGNA CAMPUS STUDENTS**

The libraries sector of the Municipality of Bologna has further expanded the offering of spaces for students with the opening of a study room, a space created thanks to the collaboration between the Municipality, the University of Bologna, Foundation for Urban Innovation (FIU) and the DumBO Open Event. On May 8, 2021, the library room was opened with fifteen seats and unlimited free wi-fi.

The services offered to students include a study room open 24 hours a day, spaces dedicated to distance learning and group work, as well as shared social and meeting spaces. It will be dedicated to studying and reading, close to the community and its needs, and will be part of a large future library spread across all regions.

### THIRD MISSION

#### SPREAKER: PODCAST SERIES

Road to 2030 is the University of Bologna podcast review promoted in 2021 as part of public engagement initiatives for research. Ten episodes are available on the Spreaker platform and on Spotify and Google Podcast. Global warming and ice

melting, future transport and sustainable mobility, inclusive language, food chain sustainability, and artificial intelligence against the pandemic are some of the many topics you can listen to directly from the mouth of the researchers themselves.

#### UNICORN - UNIVERSITY-COMMUNITY-LEARNING

The Unicorn project, through a wide-ranging collaboration, seeks to set up a new International Mobility Scheme for higher education students incorporating the Service-Learning approach. The main objective is to offer higher education students

a new, unique learning opportunity that will help them to develop so-called “civic and democratic competences”. The Unicorn MOOC is also available for all for a unique Service-Learning experience abroad.

#### WHAT MAKES LIFE LIFE?

This is a cultural event organised by approximately 400 volunteers from the Student Office association and the non-profit organisation that took place on the 7<sup>th</sup>, 8<sup>th</sup>, and 9<sup>th</sup> October 2021, in partnership with Almafest and the offices of the University of Bologna. The purpose of the event is to bring the entire academic community

and the city of Bologna together. The 18<sup>th</sup> edition developed around a question arising from the months of lockdown: “How do we consider this critical moment as an opportunity and not as a deprivation?” In addition, one of the topics debated in the meetings was Agenda 2030 and SDGs.








# 5. ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS





**5** GENDER EQUALITY





TEACHING

		
<b>927</b> COURSE UNITS	<b>74,970</b> STUDENTS WHO CHOSE THE COURSE UNITS	<b>2</b> COLLABORATIONS, TEACHING, MOBILITY UNITS

RESEARCH

		
PUBLICATIONS IN SCOPUS 2016-2021 <b>248</b> (UNIBO) <b>62</b> (ELSEVIER)	"CITED BY" IN SCOPUS <b>27,454</b> (UNIBO) <b>4,766</b> (ELSEVIER)	H INDEX <b>33</b> (UNIBO) <b>13</b> (ELSEVIER)
		
<b>90</b> PUBs PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK	<b>84</b> PUBs PER CAPITA INDEX NUMBER NATIONAL BENCHMARK	

INSTITUTION

	
<b>1.40</b> GLASS CEILING INDEX OF UNIVERSITY OF BOLOGNA	<b>166</b> GOVERNING BODIES
	 <b>78</b> +  <b>88</b>

TEACHING **GEMMA- MASTER'S DEGREE IN WOMEN'S AND GENDER STUDIES**

The attention that the University of Bologna places on the topics of diversity, gender, and human rights is also reflected in its educational offering. Following this logic, the university is continuing its participation in the Master's Degree in Women's and Gender Studies "Gemma", born of the collaboration of several European and American universities operating within the Erasmus Mundus Gemma Consortium.

This degree offers an interdisciplinary program that provides high-level education and professional skills in the areas of gender studies, and women's and peer opportunities. The curriculum on Protection of Human Rights and International Cooperation within the Master's Degree in International cooperation on human rights and intercultural heritage active was also active at the Ravenna Campus in the 2021/22 academic year.

INSTITUTION **PLOTINA AND THE GENDER EQUALITY PLAN**

Through the PLOTINA project and our Gender Equality Plan (GEP) we promote and facilitate women's access to university studies even in those areas of study traditionally dominated by men. The overall objective of PLOTINA is to enable the development, implementation, and assessment of self-tailored Gender GEP with innovative and sustainable strategies for the Research Performing Organisations (RPOs) involved. GEP is a flexible tool, comparable to a Positive Action Plan, which

is constructed by considering the peculiarities and needs of every single university or research centre. Moreover, to fight gender biases in the evaluation and recruitment of professors and researchers, we produced and distributed a downloadable training video. Last but not least, our university is participating in a national project that allows transgender students to adopt the name they want without being discriminated against at any time during their university career.

**THE GENDER EQUALITY PLAN 2021-2024**

Based on the experience of the first Gender Equality Plan (GEP) and responding to the call from the Research Department and Innovation of the European Commission approved in October 2021, we adopted the Gender Equality Plan 2021-2024. It is a policy document that looks at the next three

years and beyond, by fielding actions and projects that favour the reduction of gender disparities and at the same time allow the enhancement of all diversities, linked, for example, to the variable of age, culture, physical ability, sexual orientation, and multilingualism.

**GENDER EQUALITY ANNUAL REPORT**

The University of Bologna applies the national policy against any form of gender pay gap as stated in the Italian Constitutional Chart, art. 37, which states: "Working women are entitled to equal rights and, for comparable jobs, equal pay to men". Thus, a specific academic position corresponds to a specific pay equal for both genders. To monitor the application of this national policy, as well as

to monitor its overall position in terms of gender equality in teaching, research, career progression, and leadership positions, the University of Bologna provides its data by year in its Gender Equality Annual Report. In this document the University of Bologna also provides a specific index named "University gender inequality index (UGII)".

**WOMEN IN SCIENCE**

In 2021, the Guarantee Committee for Equal Opportunities, Employee Wellbeing and non-Discrimination at Work" (CUG) held a workshop in which the role of women in science and technology was discussed, addressing the gender issue between school,

university, and the world of work. Another event titled "Science at the cinema 2021" dedicated two evenings to scientists: Marie Curie and Iranian mathematic Maryam Mirzakhani (Fields Medal for Mathematics in 2014, the only woman to have won the award).

**EMMA PEZEMO MEMORIAL**

In early May 2021, the university community was directly affected by the femicide epidemic with the death of Emma Pezemo - a university student enrolled at the University of Bologna - at the hands of her partner. Unibo has named a classroom at the Department of Sociology and Economic Law where Emma was enrolled with the intent of keeping alive

her memory and her determination and passion for studying, but also for her to be an indelible sign of the commitment of the department and the entire university which will continue with ever-greater strength for collective reflection on the fight against gender-based violence.

**GENDER EQUALITY PROTECTION BODIES AT UNIBO**

Guarantee Committee for Equal Opportunities, Employee Wellbeing and Non-Discrimination at Work - CUG, the Harassment Adviser; 2) Vice-Rector

of Human Resources; 3) Delegate for Occupational Welfare; 4) Delegate for Equal Opportunities; 5) Harassment Adviser.

**BABY PIT-STOP**

Baby Pit-Stop is a special quiet area for mothers who are students, PhD students, research fellows, academics, staff, and visiting friends and relatives,

to feed and change their babies at the University of Bologna (Sustainable Multicampus Project).

THIRD MISSION **EVENTS CARRIED OUT IN COLLABORATION WITH OTHER ASSOCIATIONS / SERVICES / BODIES OF THE TERRITORY**

To promote the implementation of third mission actions aimed in particular at schools, we try to partner in the creation of youth centres, and bodies/institutions/

associations focused on the fight against stereotypes and gender-based and gender identity violence, and moral and sexual harassment.



# 6. ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL



## TEACHING



**201**  
COURSE UNITS



**12,117**  
STUDENTS WHO  
CHOSE THE COURSE  
UNITS



**2**  
COLLABORATIONS,  
TEACHING, MOBILITY

## RESEARCH



PUBLICATIONS IN  
SCOPUS 2016-2021  
**730** (UNIBO)  
**108** (ELSEVIER)



"CITED BY"  
IN SCOPUS  
**18,797** (UNIBO)  
**1,553** (ELSEVIER)



H INDEX  
**49** (UNIBO)  
**24** (ELSEVIER)



**177**  
PUBS PER CAPITA  
INDEX NUMBER  
INTERNATIONAL  
BENCHMARK



**111**  
PUBS PER CAPITA  
INDEX NUMBER  
NATIONAL  
BENCHMARK



INSTITUTION 

**WATER MANAGEMENT SYSTEM**

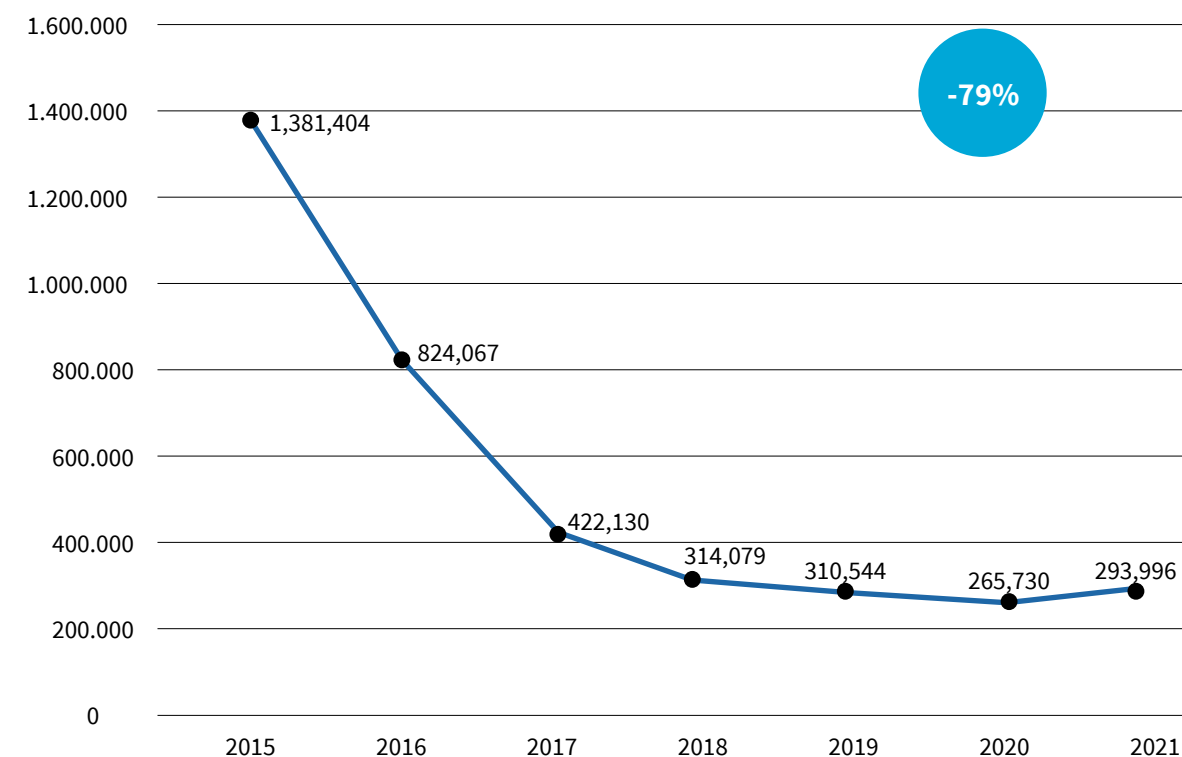
In general, the University offices are located in urban contexts, where there is an aqueduct network from which water is drawn for uses of the university community. In 2021 the university renewed participation in the "Consumption Control Project Acqua" of HERA Spa, which provides for various targeted monitoring for action to be taken on water consumption, including georeferencing on the map of the supply points, computerisation of notices of possible abnormal consumption, and the possibility to increase the meter reading frequency for the supply points at highest risk of hidden loss. Overall, water consumption for 2021 is higher than the

previous year in the absence of measures related to the Covid emergency and shutdown of the campuses. Drinking water, after being used by the university community, is transported through internal pipe networks to the mixed or foul sewer networks. The university's water discharges are mainly civil discharges with sewers connected to city sewage treatment plants, as the university sites are located in urban settings. At the Ozzano campus, the university is equipped with a sewage treatment plant that handles wastewater from university activities, which complies with relevant standards.



THIRD MISSION 

**WATER CONSUMPTION: DATA IN M<sup>3</sup> OF WATER**



**>50%**

OF INSTALLED APPLIANCES  
ARE WATER EFFICIENT

**WASTEWATER FOR AGRICULTURE – ARPA**

This project deals with Treated Wastewater in Agriculture and its sociocultural implications in the Beit Dajan Community in Palestine. It aims to promote the adoption of sustainable farming systems among Palestinian communities in the West Bank by increasing the use of treated wastewater for agricultural purposes in the Beit Dajan area, a

community located in Nablus Governorate. This is being achieved through the implementation of wastewater treatment plant rehabilitation activities and the use of treated water for irrigation of agricultural fields, but also through outreach and training of farmers and consumers and advocacy activities towards the Palestinian Authority.



# 7. ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY



**7 AFFORDABLE AND CLEAN ENERGY**

TEACHING

<b>385</b> COURSE UNITS	<b>23,738</b> STUDENTS WHO CHOSE THE COURSE UNITS	<b>4</b> COLLABORATIONS, TEACHING, MOBILITY

THIRD MISSION

**1**  
COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS

RESEARCH

PUBLICATIONS IN SCOPUS 2016-2021 <b>823</b> (UNIBO) <b>614</b> (ELSEVIER)	"CITED BY" IN SCOPUS <b>16,714</b> (UNIBO) <b>11,995</b> (ELSEVIER)	H INDEX <b>53</b> (UNIBO) <b>45</b> (ELSEVIER)
<b>135</b> PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK	<b>99</b> PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK	<b>22</b> RESEARCH PROJECTS (5,924,210 €)

INSTITUTION

<b>1,258</b> MWH/YEAR SOLAR ENERGY PRODUCED	<b>&gt; 75%</b> CONVENTIONAL APPLIANCES REPLACED BY ENERGY EFFICIENT ONES	<b>1,052</b> GREEN ROOF M <sup>2</sup> IN THE DEPARTMENTS OF: • CIVIL, CHEMICAL, ENVIRONMENTAL, AND MATERIALS ENGINEERING - DICAM • AGRICULTURAL AND FOOD SCIENCES - DISTAL



## INSTITUTION

### ENERGY POLICIES AND CONSUMPTIONS

Following the strict policies of the university toward energy consumption, starting in January 2021, the University and HERA Spa have embarked on a path of comparison that will lead to the drafting of a new contract for the supply of the district heating and cooling service. They led to the definition of a document that outlined some strategic guidelines relating to new connections to the district heating network, new supply price, interventions of technical-plant efficiency, and service innovation. Since 2009 the university has been pursuing energy requalification, including through the improvement of real estate management.

An adaptation program was launched in 2021 to regulate the heating and cooling systems, including the replacement of some machinery and obsolete

accessories. At the end of 2019, the university also launched an operational and behavioural action plan to promote efficient use and rationalisation of resources, which continued throughout 2021, thanks also to the multiservice maintenance contract for more effective and efficient management of technological systems. The main actions include creating a database for the main energy users, the installation of tools for the metering of medium voltage electricity consumption of transformer cabins, of energy meters on all buildings powered by low voltage, and on all low voltage generator switchboards of transformers substations. In addition, approximately 30% of the university's real estate area has technological heating and air conditioning systems managed through remote control devices that allow regulation and management of alarms.

### PHOTOVOLTAIC SYSTEM

Active since 2012, the photovoltaic plants were installed to reduce energy consumption, through the enhancement of energy efficiency and the promotion of responsible use of energy, providing a reduction in the university's greenhouse gas emissions.


In 2021 an evaluation process was started for the stipulation of a new custom maintenance contract for the PV plants aimed at ensuring the highest performance of production and manufacturability of the system.








# 8. PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

**8 DECENT WORK AND ECONOMIC GROWTH**



TEACHING

		
<b>630</b> COURSE UNITS	<b>51,188</b> STUDENTS WHO CHOSE THE COURSE UNITS	<b>14</b> COLLABORATIONS, TEACHING, MOBILITY

RESEARCH

		
PUBLICATIONS IN SCOPUS 2016-2021	"CITED BY" IN SCOPUS	H INDEX
<b>560</b> (UNIBO) <b>204</b> (ELSEVIER)	<b>9,922</b> (UNIBO) <b>5,166</b> (ELSEVIER)	<b>39</b> (UNIBO) <b>27</b> (ELSEVIER)
		
<b>126</b> PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK	<b>120</b> PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK	<b>12</b> RESEARCH PROJECTS (5,246,831€)

THIRD MISSION

	
<b>5</b> COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS	<b>59</b> SPIN OFFS AND START UPS



INSTITUTION 

TEACHING STAFF	Women	Men	TECHNICAL-ADMINISTRATIVE STAFF	Women	Men
Full Professors	242	585	Heads of administrative divisions	8	9
Associate Professors	612	739	Technical-Administrative staff	1,915	1,004
Assistant Professors	376	448	Language assistants	59	13
Research fellows	595	644	Farm workers	0	2
<b>Total</b>	<b>1,825</b>	<b>2,416</b>	<b>Total</b>	<b>1,982</b>	<b>1,028</b>

TRAINING ON HEALTH AND SAFETY IN WORKPLACES	No.	ECONOMIC AND FINANCIAL PERFORMANCE	%
Training initiatives	101	Personnel expenses indicator	62.83%
Participants	3,993	Indebtedness indicator	4.67%
Training hours	19,808	Economic-Financial Sustainability Indicator	1.26%

**START-UP DAY**

Start-up Day is an event dedicated to promoting the meeting of skills and the development of youth entrepreneurship. In 2021 it was held online with 18,000 visits and a constant attendance of 2000. The 30 entrepreneurial projects selected were led through a training and coworking path.

**ALMALABOUR**

This is a workshop for prototyping business ideas, training space and coworking. It is dedicated to student and doctoral researchers, faculty and research staff, and is also open to accredited spin-offs and start-ups.

**OCCUPATIONAL HEALTH AND SAFETY**

The University of Bologna guarantees the protection of the health and safety of its community through the Health and Safety Service to improve health and safety conditions within the university's facilities. The priority functions of the Service include: the assessment of risks in the different and multiple work activities present in the university (teaching, research and service), the definition of the H&S measures for the control of work risk, the adoption of management measures through the preparation of manuals and regulations on the subject of safety, the drafting of emergency plans, the definition of procedures for safe working, the identification of the safety personnel and the scheduling of their training, the selection of safety signs, the organisation of fire-fighting facilities, and health surveillance for all categories of workers working in specific risk situations.

INSTITUTION 

**PERSONNEL TRAINING IN THE TIME OF COVID**

In 2021, the investment in training continued in the area of health and safety in the workplace. Continuity was given to general training and training on specific risks transversal to the different tasks addressed to the staff and delivered via e-learning in both Italian and English. Training was also given for personnel with emergency responsibilities, with a total of 32 sessions provided for 534 participants, as well as specific and specialised training aimed at administrative technicians, particularly those figures who work at the workplace health and safety service.

**WORK-RELATED STRESS ASSESSMENT**

This project aims to evaluate the risk of stress among university staff and subsequently to identify improvement actions. The university has launched a survey for the assessment of work-related stress risk using the Stress Assessment and Research Toolkit methodology, developed by occupational medicine practitioners and psychologists from our university.

**INITIATIVES TO SUPPORT ADMINISTRATIVE STAFF WITH DISABILITIES**

The University of Bologna pays particular attention to people with disabilities or in situations of personal hardship, and organises various initiatives targeting these people. One is the Mobility and Labour Protection Office, which promotes targeted placement throughout working life. There is a widespread policy of raising awareness in work contexts and a collaboration network within and beyond the university.

**CUG AND CONFIDENTIAL COUNSELLOR FOR PEOPLE WITH DISABILITIES**

The University of Bologna fights all forms of discrimination, particularly through the activities of CUG. CUG fosters a culture of equal opportunities, and ensures well-being and non-discrimination at work, within the competencies laid down in article 14 of the University Statute. It uses the university services dedicated to the promotion of well-being at work, operating in partnership with the University's Confidential Counsellor. The Confidential Counsellor appointed by the Rector is an expert called on to prevent, manage and intervene in cases of workplace harassment and other forms of discrimination.



THIRD MISSION **■ BYLLIS - EU FOR ECONOMIC DEVELOPMENT - TOURISM-LED, LOCAL, ECONOMIC DEVELOPMENT, WITH A FOCUS ON CULTURAL HERITAGE**

The Byllis - Albania project brings together University of Bologna and the Emilia - Romagna Region as institutions involved in the implementation of a Delegated Cooperation project awarded to AICS

by the European Union Delegation in Tirana. The Project is aimed at the economic development of the province of Fier, through a process of recovery and enhancement of the archaeological site of Byllis.

**■ UNIVERSITY BUSINESS ENGAGEMENT IN INDONESIA: SUPPORTING EMPLOYABILITY AND TRANSITION INTO THE GRADUATE LABOUR MARKET -SMART**

The SMART project provides a set of focused and complementary activities for enhanced university-business cooperation at Indonesian Higher Education Institutions (HEIs) to help them identify development opportunities, generate research-based knowledge, and contribute to ongoing education in the field. The project will facilitate the transfer of good practice from the EU to the PC HEIs; the setting up of professional units (Business

Engagement Centres) at seven PC HEIs, and training of their staff to allow them to accompany students and researchers in making their business ventures a reality. The creation of a University-Business Network, as a platform for dialogue and exchange of experiences, and "Start-Up Nights" and other stakeholder events will also contribute to inspiring nation-wide change.

**■ I-CAN - INDEPENDENCE, CAPABILITY, AUTONOMY, INCLUSION. CENTRE FOR INDEPENDENT LIVING FOR PERSONS WITH DISABILITIES IN THE GAZA STRIP**

The general goal of this project is to promote the full inclusion of persons with disabilities, in particular women with disabilities, in Palestine, more specifically in the Gaza Strip. To strengthen the independence and self-determination of the targets, the project aims to set up a holistic and innovative

centre able to support teachers, educators, youth workers and families in the promotion of project initiatives (school and extracurricular) aimed to the construction of inclusive community educational contexts.

**■ THE COMMUNITY OF THE FUTURE: MEASURES OF SOCIAL AND WORKING INCLUSION FOR SKHODER'S ORPHANS**

The goal of this project is to facilitate social inclusion of child and teenage orphans. This aim will be made possible through upgrading of the skills of all operators working in public and private social services in the city, improving the social, educational, and economic independence of the orphans living in the municipality. Results: development of certified

training for social workers; establishment of a residential and educational community for eight children; improvement of cohabitation capacity of orphans living in some group homes; provision of training and working opportunities for at least 60 orphans in order to allow them to achieve professional and financial independence.



# 9. BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE

TEACHING

- 894** COURSE UNITS
- 64,503** STUDENTS WHO CHOSE THE COURSE UNITS
- 2** COLLABORATIONS, TEACHING, MOBILITY

RESEARCH

- 1,950** (UNIBO) **91** (ELSEVIER) PUBLICATIONS IN SCOPUS 2016-2021
- 45,949** (UNIBO) **1,120** (ELSEVIER) "CITED BY" IN SCOPUS
- 75** (UNIBO) **18** (ELSEVIER) H INDEX
- 107** PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK
- 103** PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK

- 32** RESEARCH DEPARTMENTS
- 231** TOTAL H2020 RESEARCH PROJECTS (106,771,719€)
- 7** INTERDEPARTMENTAL CENTRES FOR INDUSTRIAL RESEARCH (CIRI)
- 57** RESEARCH PROJECTS (27,547,683 €)

INTERDEPARTMENTAL CENTRES FOR INDUSTRIAL RESEARCH - CIRI

- 58** RESEARCH CONTRACTS BETWEEN CIRI AND COMPANIES
- 66** PARTICIPATIONS IN RESEARCH PROJECTS
- 15,846,000 €** NET REVENUES
- 3** AGREEMENTS BETWEEN CIRI AND OTHER RESEARCH INSTITUTES
- 259** PATENTS (INCLUDING NEW PLANT VARIETIES)





INSTITUTION **INNOVATION. DEVELOPMENT. ENTREPRENEURSHIP. ALMAMATER (I.E.D.A) CENTRE**

The I.E.D.E centre is dedicated to inspiring students and gives space to their ideas through many projects and initiatives. This centre encourages students, teachers, and researchers to explore their business potential, and to generate social impacts based on

innovation and sustainability. A few of the projects set in motion by I.E.D.A:

- Challenge Based Innovation (CBI)
- Creativity and Innovation Course
- Innovate by doing.

**INCUBATORS**

Networks of incubators located in different Campuses of the University of Bologna offering incubation, pre-incubation and idea-scouting services, in addition to space

- Innovation Square – Rimini
- Cesena Lab – Cesena
- Basement – Forlì
- AlmaCube.

**ALMA CLUB**

This club, launched in 2017, is an open community for University of Bologna's faculty members and scholars of all disciplines to spread entrepreneurial culture within the University of Bologna network. The club gives participants the chance to:

- Learn about entrepreneurship
- Be inspired by speakers
- Contribute with ideas and expertise to support entrepreneurship within our university.

**FOUNDATION FOR EDUCATION UNIVERSITY ORIENTED PROFESSIONAL-FUP**

A public-private partnership that connects world university and industrial networks in the Emilia-Romagna region for the design, promotion and management of new vocationally oriented degrees. Vocationally oriented degrees are courses designed for three-year degrees with a strong focus on technical education, designed to train

highly qualified and specialised personnel in the various sectors of the production ecosystem and thus ensure the continuous development of the country-wide system. Increasing the supply of professionalising degree programs is, indeed, fundamental to increasing the number of graduates in Italy, particularly in the technical sector.

**EMILIA 4LT, THE UNIBO SOLAR CAR**

Emilia 4LT, a car from the University of Bologna, won the European Solar Challenge for solar-powered vehicles, which took place at the Zolder racetrack in Belgium.

The purpose of the competition is to reward the most

energy-efficient vehicle; consequently, in addition to the quality of design and construction, it looks for the best compromise between number of laps driven and consumption, through appropriate strategies.



# 10. REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES



## TEACHING



**958**  
COURSE UNITS



**80,687**  
STUDENTS WHO  
CHOSE THE COURSE  
UNITS

## RESEARCH



PUBLICATIONS IN  
SCOPUS 2016-2021  
**1,452** (UNIBO)  
**113** (ELSEVIER)



“CITED BY”  
IN SCOPUS  
**51,913** (UNIBO)  
**1,008** (ELSEVIER)



H INDEX  
**72** (UNIBO)  
**18** (ELSEVIER)



**114**  
PUBs PER CAPITA  
INDEX NUMBER  
INTERNATIONAL  
BENCHMARK



**98**  
PUBs PER CAPITA  
INDEX NUMBER  
NATIONAL  
BENCHMARK



**8**  
RESEARCH  
PROJECTS  
(6,465,307 €)



THIRD MISSION 

### FRIENDS - FOSTERING RESILIENCE-INCLUSIVE EDUCATION AND NON-DISCRIMINATION IN SCHOOLS

Differences of cultures, nationalities, languages and gender in education systems often play into factors like low self-esteem, learning difficulties, and social exclusion. In addition to this, discrimination and violence in schools lead to worse outcomes, higher drop-out rates, and obstacles in the integration process of minority students. The FRIENDS project seeks a solution for this! FRIENDS is a 24-month project co-funded by the Erasmus program of the European Union under the Key Action 3: Support for

policy reform: social inclusion through education, training, and youth. It aims to contribute to national and European strategies in response to the "Paris Declaration", fostering social inclusion and intercultural understanding in education systems through the implementation on a wider scale of an innovative whole-school approach known as the Quiet Time based on the Transcendental Meditation program (Quiet Time/TM program).

INSTITUTION 

### STUDENT OMBUDSMAN

The role of the **Student Ombudsman**, provided for by article 15 of the University Statute, is to receive reports on dysfunctions and restrictions affecting the rights of students. This independent body does not report hierarchically or functionally, in any way, to university bodies and exists solely to ensure compliance with current regulations. Students can contact the Ombudsman to report any forms or types of abuse, dysfunctions, shortfalls, delays, violations of the law

or the principles of good administration, or lack of respect for values. The Student Ombudsman monitors teaching, research and services activities of the University of Bologna with an impact on the rights and interests of the university's students, to ensure that they are in compliance with the values and rules laid down in the University's Code of Ethics and the principles and rights specified in the University Statute.

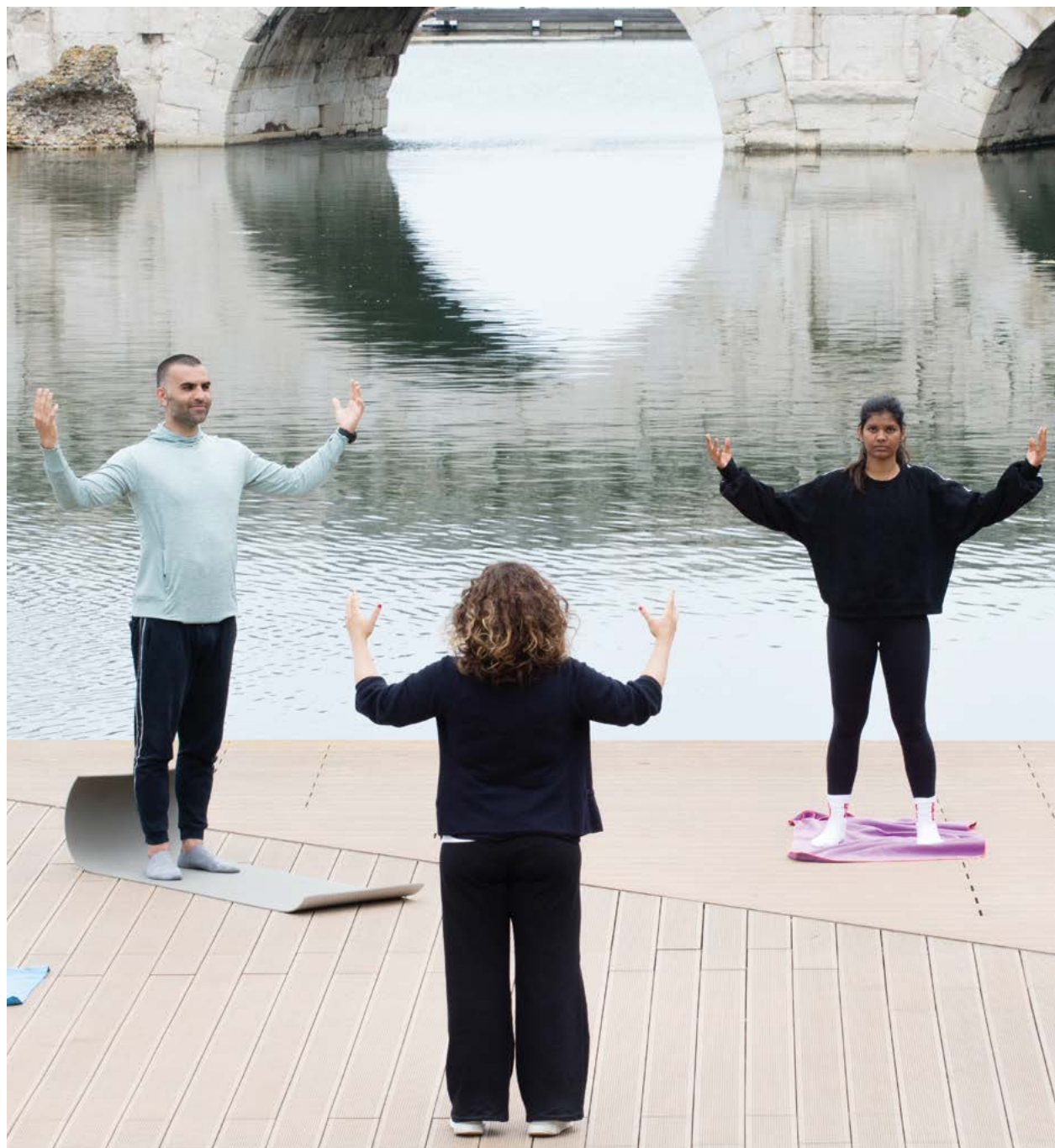
### CUG - THE GUARANTEE COMMITTEE FOR EQUAL OPPORTUNITIES, EMPLOYEE WELLBEING AND NON-DISCRIMINATION AT WORK

This committee makes proposals, provides consultation, ensures equal opportunities, enhances employee wellbeing, and prevents discrimination, as regards current Italian legislation and article 14 of the

University Statute. It makes use of the internal services for the promotion of employee wellbeing provided by the University of Bologna and works closely with the Harassment Advisor.



# 11. MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE



**11 SUSTAINABLE CITIES AND COMMUNITIES**

THIRD MISSION

**3**  
COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS

**1,151**  
EVENTS IN ALL CAMPUSES

TEACHING

**740**  
COURSE UNITS

**42,778**  
STUDENTS WHO CHOSE THE COURSE UNITS

**5**  
COLLABORATIONS, TEACHING, MOBILITY

**93%**  
STUDENTS' SATISFACTION WITH CLASSROOMS

RESEARCH

PUBLICATIONS IN SCOPUS 2016-2021  
**969** (UNIBO)  
**314** (ELSEVIER)

"CITED BY" IN SCOPUS  
**17,585** (UNIBO)  
**6,530** (ELSEVIER)

H INDEX  
**49** (UNIBO)  
**35** (ELSEVIER)

**117**  
PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK

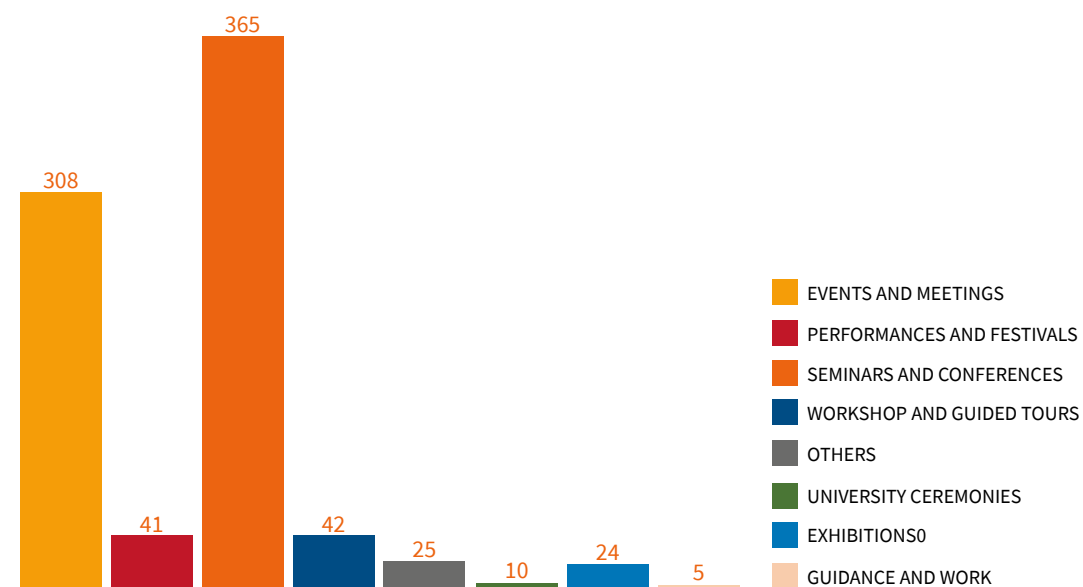
**110**  
PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK

**20**  
RESEARCH PROJECTS (7,193,545 €)



THIRD MISSION 

## PUBLIC ENGAGEMENT: EVENTS BY TYPE



15

UNIVERSITY MUSEUM



+10.4%

FACEBOOK FANS

 IMPROVING RESEARCH CAPACITIES OF ALBANIAN HIGHER EDUCATION INSTITUTIONS IN CONSERVATION AND RESTORATION OF CULTURAL HERITAGE – REACH

The REACH Project started in 2020 for a period of three years, involving Albanian, Italian and Spanish universities. The goal is to create multidisciplinary research techniques and technological skills to conserve and restore cultural heritage in Albania.

Given that cultural heritage is a key resource for the growth of the local economy, REACH aims to contribute to its EU accession process, thanks to the modernisation and internationalisation of higher education institutions.

THIRD MISSION 
 ROCHEMP – ARMENIA: CREATION OF A REGIONAL CENTRE FOR THE CONSERVATION, MANAGEMENT AND ENHANCEMENT OF CULTURAL HERITAGE

This project is divided into five core topic areas (Management, Training, Regulations, Communication, Regional-Hub), with the direct training of the centre's staff and local and regional experts, according to the principles and standards applicable in the European context. The project involves teachers, researchers, and technical staff from the Department of Cultural Heritage, Architecture, History, Cultures and Civilisation,

and the Centre for Advanced Studies for Tourism. They share their skills and knowledge in the field of restoration, survey and intervention planning, diagnostics, digital heritage and tourist enjoyment of cultural heritage, through the creation of permanent training courses for local and regional experts, conferences, workshops, round tables, seminars, and practical on-the-job training activities.

 PUBLIC ENGAGEMENT: EVENTS IN UNIVERSITY CAMPUS CITIES

## Promote culture and heritage

- **BOLOGNA UNIVERSITY MUSEUM NETWORK – (SMA):**

brings together the corpus of fourteen University Museums and Archives. Only the Palazzo Poggi Museum (the Rectorate) requires paid entrance, while the other thirteen are free to access.

- **LIBRARY SYSTEM – SBA**

All SBA users have free access to the libraries and their resources for study and research purposes.

- **HISTORICAL ARCHIVE:**

All SBA users have free access to the libraries and their resources for study and research purposes.

- **BOTANIC GARDEN HERBARIUM:**

one of the earliest in Europe, containing collections of dried plants dating from the sixteenth century onwards. The Botanical Garden is about five acres in size, where more than 5,000 examples of local and exotic plants grow.

- **LA SOFFITTA:**

a research centre for the arts (cinema, music, theatre, dance). It organises performances, workshops and exhibitions throughout the year.

- **COLLEGIUM MUSICUM:**

university orchestra that involves 300 students yearly, putting on fifteen concerts equating to 400 hours of music.

INSTITUTION 

**UNIBOCULTURA**

The mission of the University of Bologna has always included a fundamental role involving the promotion of cultural events aimed primarily at students and other public participants. UniboCultura gathers together all the non-specialist events organised and

promoted by the university and its various structures, into one major program, often partnering with other cultural institutions and other organisations from the surrounding community.

**GREEN OFFICE**

The Green Offices of the University of Bologna (GOAL) is a project to strengthen the relationship between the components of the University of Bologna University Community (students, staff, and teachers) and promoting planning on sustainability issues. GOALS represents a community action and involves young people to build the university's future

and define sustainability strategies and policies. The synergy between the various players involved allows the enthusiasm and ideas coming from all the university bodies to be made concrete through the implementation of projects and initiatives related to the various sustainability issues.

**UNI READING 2021**

Uni Reading was created through a partnership with the University of Bologna, with the aim of involving the university community in the cultural life of the city. Uni Reading also aims to be an opportunity for the "new" student community, all the new freshmen who appear in Cesena and Bologna in the first months of the academic year, to get to know a part of the symbolic places of our city's historical heritage

through innovative cultural events that have been very successful around Italy. In 2021, this event also aimed to actively support the entertainment sector, which suffered particularly badly with the coronavirus crisis, and provide opportunities to professionals involved in the world of culture (artists, technicians, venue, graphic design etc).

**CASA TRAVERSARI RESTORATION**

Casa Traversari represents one of the offices of the most prestigious Ravenna Campus; located a few steps from the Basilica of San Vitale which dates back to the thirteenth century, it is considered the oldest house in the city. Home to the Alma Mater Studiorum since 1961, today it houses the Department of History Cultures Civilisations. The current activities and those of future programs within the building

require work that can no longer be postponed, both in terms of structural and fire safety standards, in addition to the maintenance of the mechanical and electrical systems and masonry restoration. The final design is currently being drafted and it is planned to start the bidding process by the end of 2022, with a view to completion of works by early 2024.

INSTITUTION 



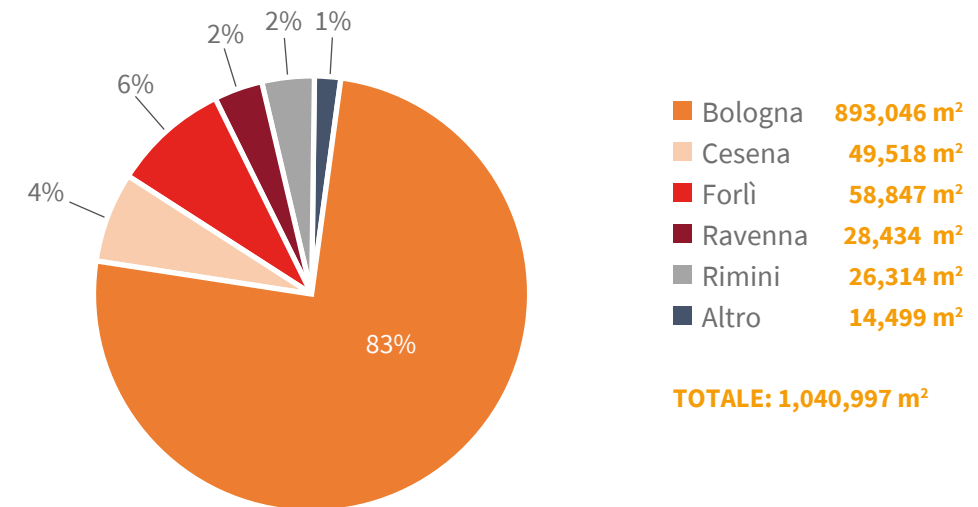
**229,925**  
M<sup>2</sup> OF SMART BUILDINGS



**5,197,321**  
M<sup>2</sup> OF GREEN AREAS

The ration parking area is 2% of the 80000 m<sup>2</sup> of the total area of campus.

**GEOGRAPHICAL DISTRIBUTION OF BUILDINGS**



The data refer to the indoor surface area of the buildings and do not include outdoor areas.





# 12. ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

**12** RESPONSIBLE CONSUMPTION AND PRODUCTION

TEACHING

<b>738</b>	<b>4</b>	<b>47,727</b>
COURSE UNITS	COLLABORATIONS, TEACHING, MOBILITY	STUDENTS WHO CHOSE THE COURSE UNITS

RESEARCH

PUBLICATIONS IN SCOPUS 2016-2021	"CITED BY" IN SCOPUS	H INDEX
<b>2,681</b> (UNIBO) <b>296</b> (ELSEVIER)	<b>6,925</b> (UNIBO) <b>7,145</b> (ELSEVIER)	<b>80</b> (UNIBO) <b>35</b> (ELSEVIER)
PUBs PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK	PUBs PER CAPITA INDEX NUMBER NATIONAL BENCHMARK	RESEARCH PROJECTS (8,215,403 €)
<b>128</b>	<b>102</b>	<b>13</b>

THIRD MISSION

<b>&gt;75%</b>	<b>&gt;75%</b>
EXTENSIVE RECYCLING PROGRAM FOR UNIVERSITY WASTE	ORGANIC, INORGANIC AND TOXIC RECYCLED WASTE





INSTITUTION **RESOURCES AND WASTE POLICIES AND MANAGEMENT**

In order to be fully compliant with the regulations in this area, as well as to apply models of prevention and reduction of waste, and exploitation and optimisation of resources with a view to the circular economy, in 2021 the University of Bologna integrated competencies related to the laboratory waste management performed by Nucleo Tecnico Rifiuti (Nu.Te.R.) Two main areas of activities are:

**Municipal waste management**

The University of Bologna carries out separate collection of plastic, paper, cans, glass, toner cartridges

and batteries in its facilities in the historical centre and decentralised sites in Bologna and in all the Romagna campuses.

**Management of special laboratory waste**

The management of special laboratory waste is overseen by the (Nu.Te.R.), through regulations, a manual and specific procedures for special cases (e.g., disposal of reagents, unstable substances), as well as two centralised contracts that cover the most common types of laboratory waste.

**EUROPEAN WEEK FOR WASTE REDUCTION**

To raise community awareness of behaviours to prevent waste generation, in 2021 the University of Bologna participated in the European Week for the Reduction of Waste, now in its 13<sup>th</sup> edition and dedicated to the theme "Circular Communities." In particular, students from the Green Office (GOAL) made presentations throughout the week at information points in Bologna and the Romagna campuses, to encourage discussion on a wide range of topics such as reducing, reusing and recycling

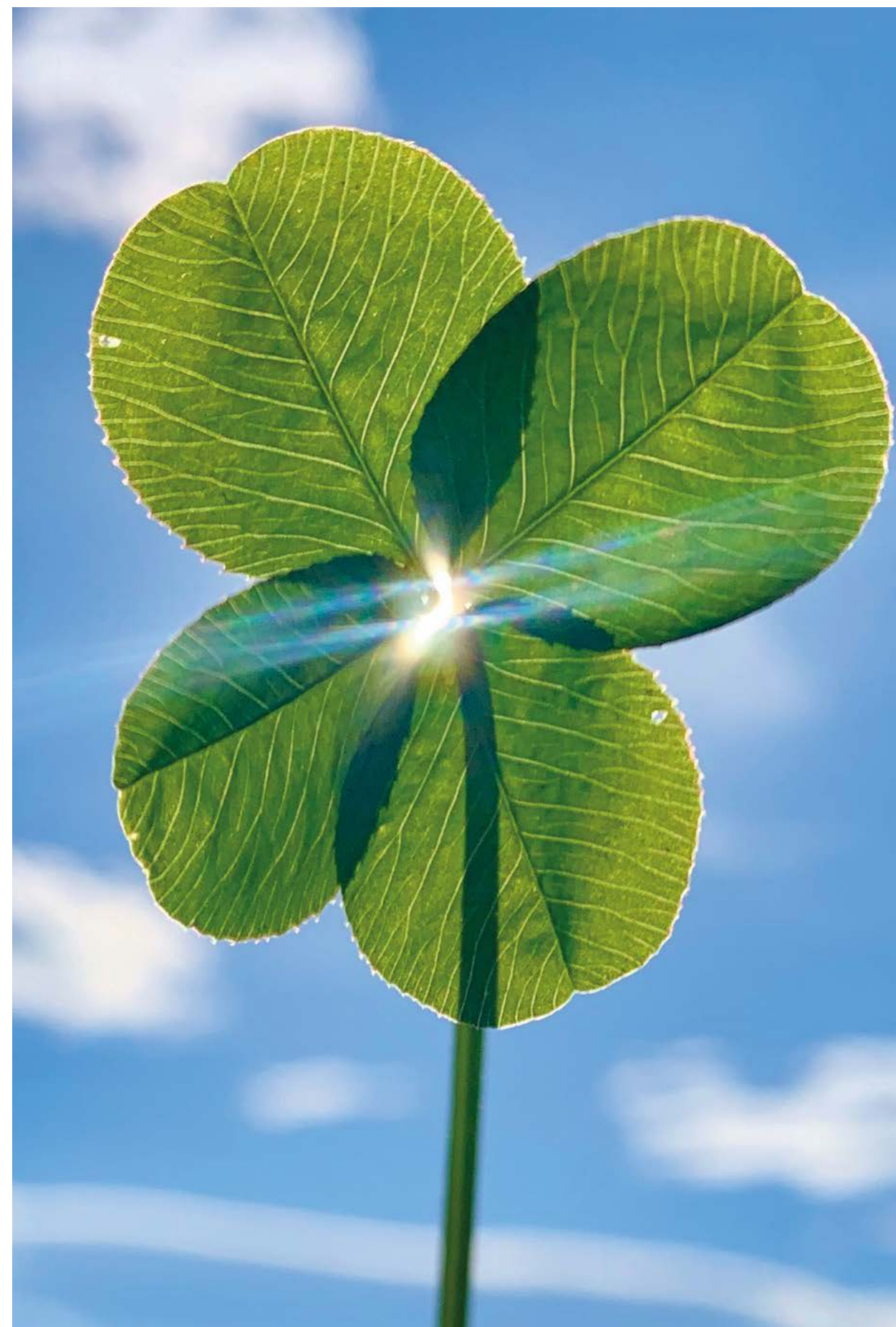
of waste and discovery of the actions implemented by the university. Among the scheduled events, there was also the action collective "CAMPIONiamo il litterING urBanO" in which students, along with professor Alessandra Bonoli, competed in a team competition on the "study" of urban littering recovered from courtyards and gardens at the engineering department, collecting waste of all kinds including more than 1,700 grams of cigarette butts in less than an hour.

THIRD MISSION **GREENATHON**

The second edition of Greenathon - the hackathon for students to confront issues of sustainability - was held in 2021 as part of the Alma fest event. The theme of the 2021 edition was carbon neutral packaging for the food sector, with the participation of experts from Profood (Manufacturers' Group packaging for fresh food) and professors of the university. The winning group's proposal was to apply a colour scale rating to identify the sustainability of packaging.

Various ideas sparked from the other groups were also interesting:

- An automated machine to recycle items of stationery associated with a reward system
- Packaging derived from food waste that can be reused as fertiliser for house plants
- An intermediary service between customers and restaurants for the recovery of containers for food delivery, etc.





# 13. TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS



## 13 CLIMATE ACTION

### TEACHING



**617**  
COURSE UNITS



**33,691**  
STUDENTS WHO  
CHOSE THE COURSE  
UNITS



**3**  
COLLABORATIONS,  
TEACHING, MOBILITY  
UNITS

### RESEARCH



PUBLICATIONS IN  
SCOPUS 2016-2021  
**390** (UNIBO)  
**460** (ELSEVIER)



"CITED BY"  
IN SCOPUS  
**5,162** (UNIBO)  
**6,818** (ELSEVIER)



H INDEX  
**32** (UNIBO)  
**36** (ELSEVIER)



**93**  
PUBs PER CAPITA  
INDEX NUMBER  
INTERNATIONAL  
BENCHMARK



**131**  
PUBs PER CAPITA  
INDEX NUMBER  
NATIONAL  
BENCHMARK



**9**  
RESEARCH  
PROJECTS  
(4,604,302 €)

### INSTITUTION



**516**  
CARBON FOOTPRINT



**13,181**  
PERSONAL PASSES  
FOR USE OF PUBLIC  
TRANSPORT ON  
FAVORABLE TERMS



**44**  
EVERAGE  
PASSENGER IN  
A BUS



**14**  
KM OF VEHICLES' DAILY  
TRAVEL INSIDE CAMPUS



**8**  
SLOW MOBILITY  
INITIATIVES



**23**  
SHUTTLES IN UNIVERSITY



**172**  
TOTAL TRIPS OF DAILY  
SHUTTLE SERVICES



**8,000**  
ZERO EMISSION VEHICLES  
ON CAMPUSES PER DAY

THIRD MISSION 

#### DEAR - END CLIMATE CHANGE, START CLIMATE OF CHANGE: A PAN-EUROPEAN CAMPAIGN TO BUILD A BETTER FUTURE FOR CLIMATE-INDUCED MIGRANTS, THE HUMAN FACE OF CLIMATE CHANGE (#CLIMATEOFCHANGE)

The purpose of this project is to raise awareness about the complex relationship between climate change and migration and make informed people ready to change their lifestyle based on new environmental policies. The initiative is sponsored by the European Commission with the DEAR (Development Education and Awareness Rising) project, which supports initiatives concerning EU citizens in social, economic, and environmental issues of global concern.

#### GREAT - GESTIONE DELLE RISORSE ECONOMICHE, AMBIENTALI E DEL TERRITORIO

This project aims to strengthen the resilience of rural communities in dry zones for fostering their climate change adaptation. It aims to help people enhance their nutrition and their income through differentiation, year-round extension of production activities and improvements in natural resources management skills. The effects due to climate change will be mitigated by operations at three different levels: with the beneficiaries, at the community level, and by involving public actors and institutions.

#### UNIBO AND UNIVERSITY COLLEGE OF CORK TOGETHER FOR SUSTAINABLE DEVELOPMENT

The universities are joined by a partnership agreement that is giving rise to several joint actions on sustainability issues. One of the most ambitious goals of this project is to define new methodologies for calculating the carbon footprint of universities. The goal is to develop a new method to be proposed to the managers of the GreenMetric ranking and then applied worldwide to improve the one currently used by the ranking.

INSTITUTION 

#### ALMA CLIMATE

The Alma Climate Institute is the manifestation of the efforts made by the University of Bologna towards adopting a holistic approach to promote scientific research aimed at investigating the wide range of issues implied by climate change and outlining remedies, with a view to producing reliable normative prescriptions.

#### EMISSIONS AND TRANSPORT POLICIES

In order to monitor, inventory and evaluate emissions of greenhouse gases, in 2021 the University of Bologna adopted a new method for calculating its carbon footprint, developed according to the ISO 14064 standard. The emissions inventory includes three areas of application (or scopes):

- Direct emissions (in the university they are mainly connected to heating systems and transport)
- Indirect emissions from energy consumption (emissions resulting from the generation of electricity, heat and steam imported and consumed by the organisation)
- Other indirect emissions (emissions deriving from products and services used by the organisation, such as transport, waste produced etc.).

INSTITUTION 

#### MI MUOVO LIBERO

This project encourages the use of public transportation with fares for students and staff at reduced rates compared to market conditions. During 2021, with the cessation of the promotional measures for TPL related to Covid, there was a significant growth in applications for season tickets, equal to those of 2018-2019, with a total of 12,751 subsidised passes granted to students and staff for local road travel on the five campuses and for rail travel.

#### ALMA BIKE

The Almabike project was created to encourage the use of bicycle travel on the university's campuses, and provides students with 600 bicycles with a personalised design. The bicycles are assigned annually on a free loan for use basis, subject to a deposit of €99, to students selected based on a specific call for applications. In 2021, the call for applications collected nearly 1,000 applications; 2021 also saw the completion of the phase related to the sensor technology components for the project "Almabike for scientific research" and which will see the deployment of 50 Almabikes in 2022, equipped with sensors capable of detecting air quality (PM 2.5, PM10) with the aim of testing a timely and dynamic system of measurement of environmental quality data.

#### ZETA A

This project aims to achieve the transition to increasingly sustainable service mobility by promoting car-sharing and BEV and hybrid vehicles. The university's sustainable vehicle fleet in 2021 features 35 full electric cars, five petrol hybrids and ten CNG-capable vehicles. In 2021, a 22 kW charging system was installed at the Rimini campus, in addition to the already completed systems of Bologna and Cesena. The e-Charge project involves some research aspects in the area of analysis on electricity consumption and the development of innovative systems for charging.

#### MICROMOBILITY

In 2021, the University of Bologna undertook some initiatives to encourage the use of micromobility for the University of Bologna staff as well. In particular, 100 electric scooters, 50 pedal-assisted e-bikes and 50 Almabikes were provided for their use.



# 14. CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINES RESOURCES FOR SUSTAINABLE DEVELOPMENT




THIRD MISSION




**1**  
COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS


TEACHING



**155**  
COURSE UNITS




**6,842**  
STUDENTS WHO CHOSE THE COURSE UNITS




**2**  
COLLABORATIONS, TEACHING, MOBILITY


RESEARCH



PUBLICATIONS IN SCOPUS 2016-2021  
**24** (UNIBO)  
**359** (ELSEVIER)




"CITED BY" IN SCOPUS  
**444** (UNIBO)  
**4,488** (ELSEVIER)




H INDEX  
**11** (UNIBO)  
**31** (ELSEVIER)



**239**  
PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK



**195**  
PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK



**14**  
RESEARCH PROJECTS (5,219,925 €)



THIRD MISSION 

**TRASMARES - SPECIALISED TRAINING ON APPLIED TOOLS FOR SUSTAINABLE MARINE ECOSYSTEMS**

TRASMARES consists of three higher-education institutions including the University of Bologna developing higher-level technical training on new methods, procedures, and tools for the sustainability of marine ecosystems, within the context of the climate change scenario. With this goal, the main

output of TRASMARES will be an open online micro-credential of four MOOCs integrated into the MiriadaX platform, which will run beyond the project lifetime as committed by Telefónica Educación Digital (TED) in the partnership agreement.

**MARINA DI RAVENNA, THE NEW ENVIRONMENT, ENERGY AND SEA RESEARCH CENTRE**

On 16 July 2021 the new Environment, Energy and Sea Research Centre was inaugurated in Marina di Ravenna: a place of scientific research and technological innovation, but also intended to support business creation and new forms of entrepreneurship. The Centre is the result of the agreement between the Municipality of Ravenna, the University of Bologna and the Flaminia Foundation. The centre will constitute an extension and consolidation of the Tecnopolo di Ravenna technological hub and will represent one of the

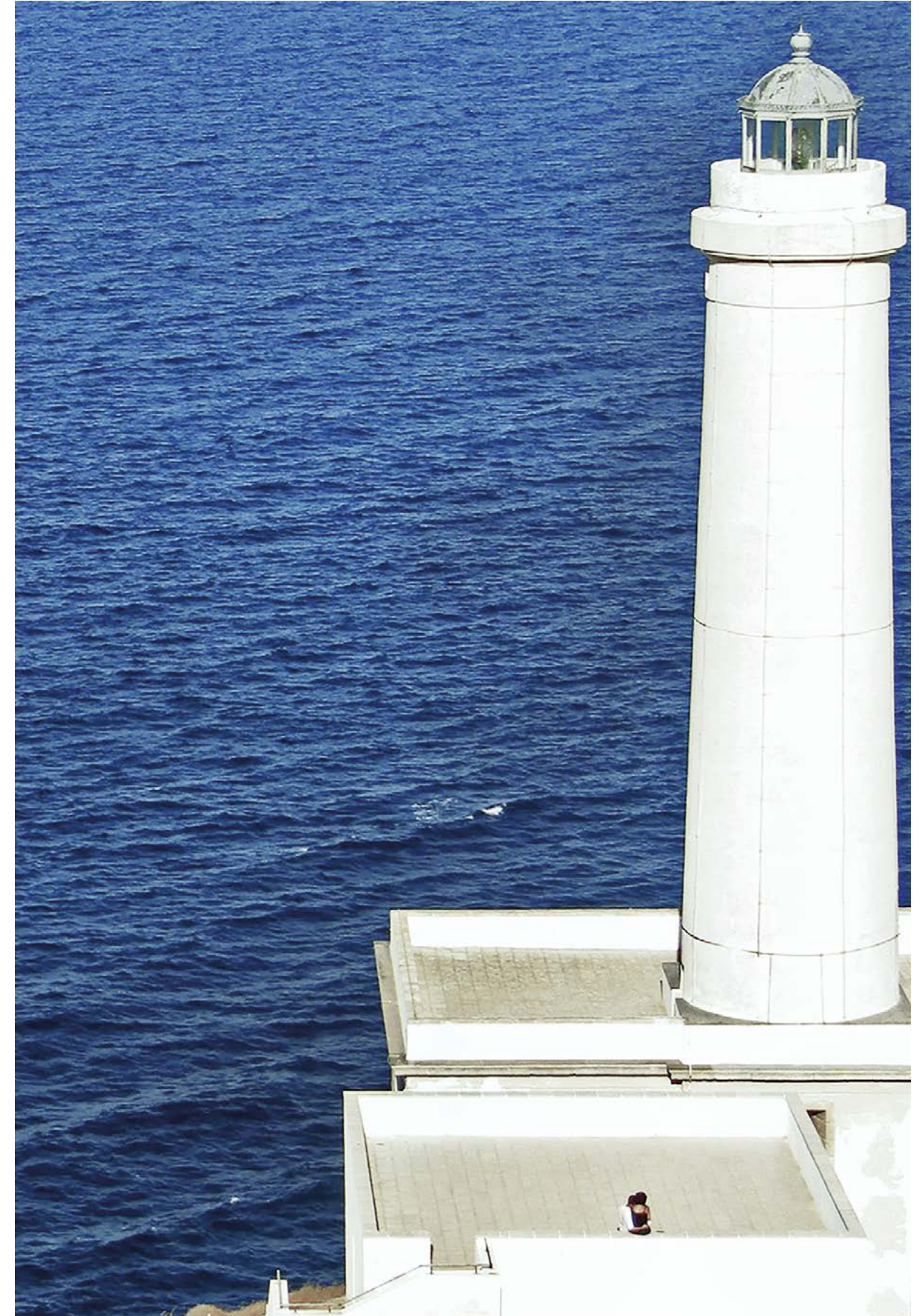
main offices for carrying out research activities on technologies for Sustainable Blue Growth. It will also host research, innovation and technology transfer activities in collaboration with the Fraunhofer Gesellschaft, one of the most prestigious research institutes in Europe. Finally, work is planned for the creation of the spaces to be allocated to the business incubation and co-working activities, with particular reference to the circular economy and the Blue Economy, whose management will be the responsibility of the Municipality of Ravenna.

INSTITUTION 

**MERAVIGLIE BLU EVENT**

This event was held in September 2020 in partnership with National Geographic to discover how to safeguard the enormous marine heritage by recovering the ancient balance between Man and

Nature. A closer look at the secrets that oceans hold – underwater worlds of wonders and coral forests with a fundamental role for the planet.





# 15. PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS




THIRD MISSION




**2**  
COOPERATION, SOCIAL AND INDUSTRY ENGAGEMENT RESEARCH PROJECTS

TEACHING



**440**  
COURSE UNITS



**26,176**  
STUDENTS WHO CHOSE THE COURSE UNITS

RESEARCH



PUBLICATIONS IN SCOPUS 2016-2021

**121** (UNIBO)  
**206** (ELSEVIER)



"CITED BY" IN SCOPUS

**2,111** (UNIBO)  
**2,959** (ELSEVIER)



H INDEX

**22** (UNIBO)  
**28** (ELSEVIER)



**106**

PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK



**78**

PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK



**9**

RESEARCH PROJECTS (4,749,399 €)



## INSTITUTION

### THE EXPERIMENTAL FARM-AUB

The University of Bologna Experimental Farm - AUB, operational since 1974, supports research and experiments conducted by agricultural science and veterinary medical science departments. Today, the farm provides services for the design, implementation and maintenance of green areas throughout the university. It also runs a canteen at the

Cadriano Centre for teaching and experimentation. In general, it is an 'observatory' of agriculture as practised in Italy, fielding the kind of questions that consumers and agriculturists expect the academic world to answer. This whole multi-faceted facility forms a training ground for students.

## THIRD MISSION

### BIODIVERSITY FESTIVAL

On the occasion of the International Day for Biological Diversity, established by the United Nations in 1992 to raise awareness on the ecological crisis and the importance of Nature, the students of the Green Office and the association UniversiRà organised the second edition of the Biodiversity Festival.

The initiative aims to promote the Conservation of Biodiversity, its protection, safeguarding and restoration, and is aimed at citizens and the university community to accompany them towards the celebrations of Biodiversity Day on 22 May.





# 16. PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS



## TEACHING



**447**

COURSE UNITS



**40,565**

STUDENTS WHO  
CHOSE THE COURSE  
UNITS



**7**

COLLABORATIONS,  
TEACHING, MOBILITY

## THIRD MISSION



**4**

COOPERATION, SOCIAL  
AND INDUSTRY  
ENGAGEMENT  
RESEARCH PROJECTS



PUBLICATIONS IN  
SCOPUS 2016-2021

**429** (UNIBO)  
**238** (ELSEVIER)



"CITED BY"  
IN SCOPUS

**23,956** (UNIBO)  
**1,371** (ELSEVIER)



H INDEX

**42** (UNIBO)  
**19** (ELSEVIER)



**97**

PUBs PER CAPITA  
INDEX NUMBER  
INTERNATIONAL  
BENCHMARK



**128**

PUBs PER CAPITA  
INDEX NUMBER  
NATIONAL  
BENCHMARK



**5**

RESEARCH  
PROJECTS  
(4,149,141 €)

THIRD MISSION

**MORALE- CAPACITY BUILDING FOR CURRICULA MODERNISATION OF SYRIAN AND LEBANESE HEIS AND LIFELONG LEARNING PROVISION: TOWARDS SUSTAINABLE NGOS MANAGEMENT AND OPERATION WITH SPECIAL FOCUS ON REFUGEES**

Morale is a joint project between Syria & Lebanon to provide the NGO labour market sector with highly skilled professionals trained to effectively manage and operate in NGO environments by means of modernising social and behavioural sciences-related curricula and by offering Life Long Learning (LLL) courses targeting NGO professionals at partner universities. To raise the awareness on the key role of HE in the provision of high-level skills and expertise

of future NGO professionals and strengthen inter-institutional cooperation among HEIs, NGOs, and governments through targeted networking actions. The project is in keeping with the national & regional priorities and the undeniable need to integrate and make the HE sectors, specifically PC HEIs, the key players in the future generation of NGOs (working with refugees), highly skilled professionals and for the provision of LLL for NGO staff and skills updating.

**INCLUSIVE SCHOOLS AND COMMUNITIES FOR ANOTHER CITIZENSHIP. COMMUNITY ALLIANCE FOR SOCIAL INCLUSION AND VIOLENCE PREVENTION IN THE DEPARTMENT OF CHALATENANGO (EL SALVADOR)**

This project aims to reduce youth violence by increasing the opportunities for access and participation of children in the formal and informal educational system. The University of Bologna will contribute with its expertise on inclusive education, strengthening teachers' pedagogical/didactic skills and supporting planning of educational methods; it will contribute to the evaluation of the inclusion and empowerment level of the educational services involved. The activities to be carried out by the University of Bologna are:

- Providing remote and on-site technical assistance aimed at supervising the design and/or revision of tools to identify and analyse specific issues concerning the exclusion of vulnerable groups
- Providing remote and on-site technical assistance aimed at supervising the development and formalisation of operating instructions (specific protocols) for each school, starting from its needs, to support the scholastic integration of vulnerable children and to assist teachers.

INSTITUTION

**INSTITUTIONAL ACCOUNTABILITY AND TRANSPARENCY**

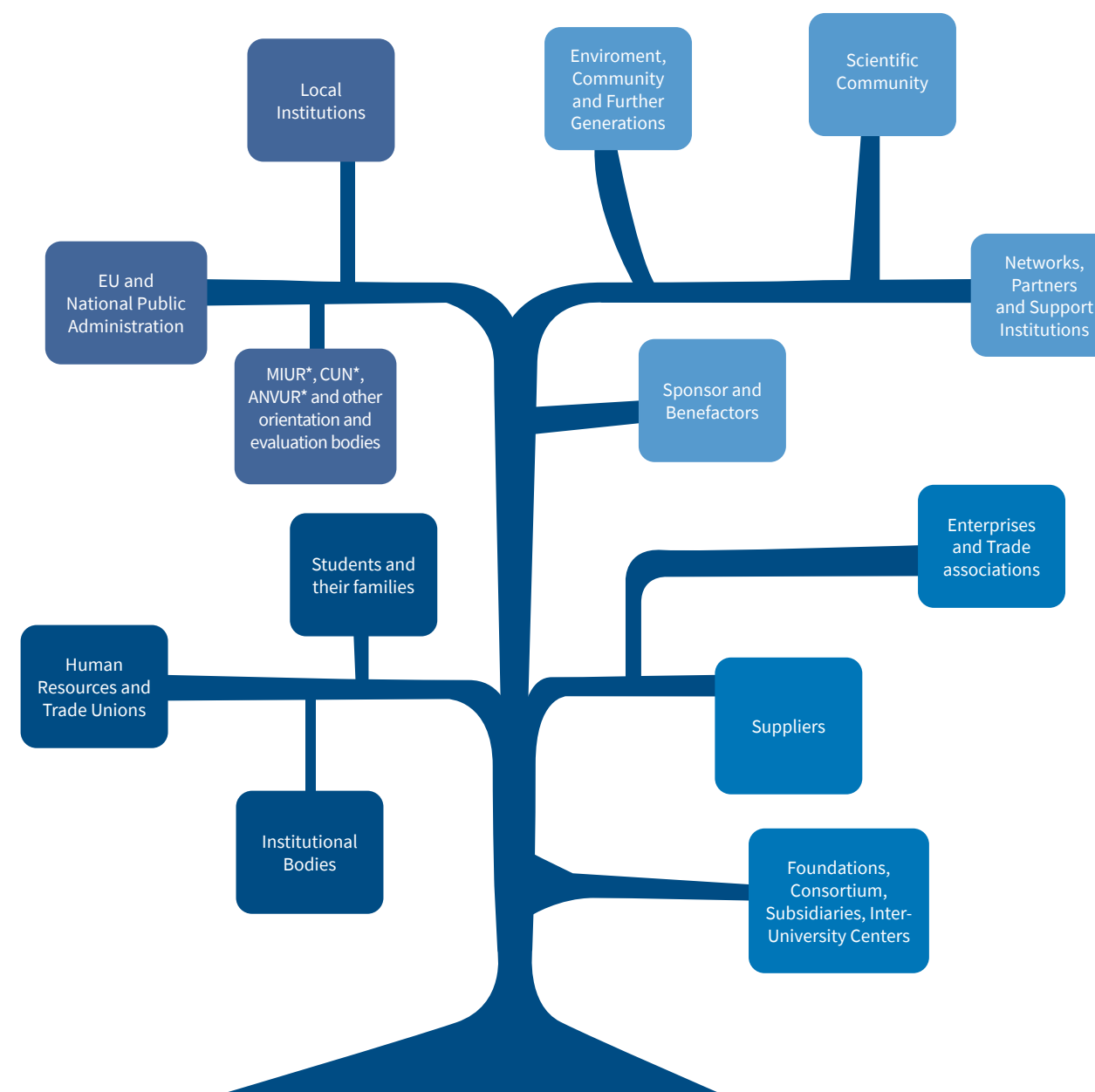
On the University of Bologna website, all institutional documents and regulations, including planning and reporting documents, are accessible and available.

The university has also signed the Berlin Declaration on open access to knowledge in the Sciences and Humanities.

**PATRICK ZAKI FREEDOM**

Patrick George Zaki is an Egyptian student enrolled in the "Gemma" Master's program in gender equality studies at the University of Bologna, who was imprisoned in Egypt two years ago, on Feb. 7, 2020, and released (but not acquitted), after nearly two years. On January 11, 2021, Bologna City Council unanimously approved the granting of honorary citizenship to Patrick Zaki, with which the entire community demanded his release and the possibility of facing judgment under conditions of respect for human rights. The honorary citizenship approved by the City Council confirmed and reaffirmed that Bologna defends freedom and

considers it one of the first values in all its expressions. On December 8, 2021 he was released after 22 long months of imprisonment. A positive sign in this affair that has been going on for too long, finally allowing Patrick to leave the oppressive living conditions dictated by imprisonment and to regain his affections, his family and his life in Bologna. The University of Bologna has been fighting from day one for the rights of Patrick Zaki to be respected and to reaffirm its support for the fundamental rights of the individual, freedom of speech and teaching, and the unparalleled value of critical thinking.



ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

\*Ministry for University (MIUR),  
\*National University Council (CUN),  
\*National Agency for Evaluation of University and Research (ANVUR)



# 17. STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALIZE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

**17 PARTNERSHIPS FOR THE GOALS**

TEACHING

<b>380</b>	<b>26,206</b>	<b>3</b>
COURSE UNITS	STUDENTS WHO CHOSE THE COURSE UNITS	COLLABORATIONS, TEACHING, MOBILITY



RESEARCH

PUBLICATIONS IN SCOPUS 2016-2021	"CITED BY" IN SCOPUS	H INDEX
<b>1,556</b> (UNIBO)	<b>33,136</b> (UNIBO)	<b>66</b> (UNIBO)
<b>107</b>	<b>90</b>	<b>6</b>
PUBS PER CAPITA INDEX NUMBER INTERNATIONAL BENCHMARK	PUBS PER CAPITA INDEX NUMBER NATIONAL BENCHMARK	RESEARCH PROJECTS (1,216,847 €)

INSTITUTION

<b>1,480</b>	<b>1,927</b>
INCOMING	OUTGOING

THIRD MISSION **INTERNATIONAL MOBILITY**

In 2021, distinguished among several active international mobility programs, is Erasmus+ for study and internship, which allows students to spend a period ranging between 3 and 12 months in another European university for study, and a period ranging between 3 and 6 months for internship. Another

program of great interest is Overseas, a mobility program intended for students at the University of Bologna which offers the opportunity to spend a period of study in universities outside Europe, organised and financed entirely by the University of Bologna.

**ALAMAENGAGE**

Development co-operation represents a core activity of the University of Bologna, in that it unites two main themes of its identity: internationalisation and social commitment. Current global changes and the increasingly fundamental and visible role of universities in promoting sustainable social development require a thorough systematisation of individual efforts by coordinating a wide variety of initiatives and providing support.

AlmaEngage is a virtual structure for coordinating activities of development cooperation and public engagement at the local and international levels. AlmaEngage is part of a broader process that sees universities opening up to the world by promoting

active participation in the social and public sphere and by sharing and transferring knowledge to the benefit of society.

Within the framework of AlmaEngage, students are involved in extra-curricular activities and work on issues of common interest linked to co-operation development and social engagement. In this way, AlmaEngage allows for their professional growth and strengthening of those soft skills that are increasingly essential in a global society. In 2020, AlmaEngage shared and gave space to students' experiences, suggested virtual mobility in collaboration with the Una Europa Alliance, and organised focus groups on Africa."

**IHEA - ITALIAN HIGHER EDUCATION WITH AFRICA**

The Italian Higher Education with Africa Foundation is composed of six prestigious Italian universities that represent an international development co-operation project to support young African talents and promote the growth of local universities.

The University of Bologna, along with other Italian universities, is a member of the IHEA Foundation project to strengthen the international collaboration between universities and contribute to forming a multidisciplinary university program by adapting it specifically to the African continent.

In Africa, supporting the development of teaching, training, student empowerment, and staff training becomes increasingly urgent by the day. Therefore, one of the Foundation's missions is a programme for young people aimed at providing educational qualifications recognised in Italy and within the European area of education that will grant them access to managerial, academic, or political-administrative

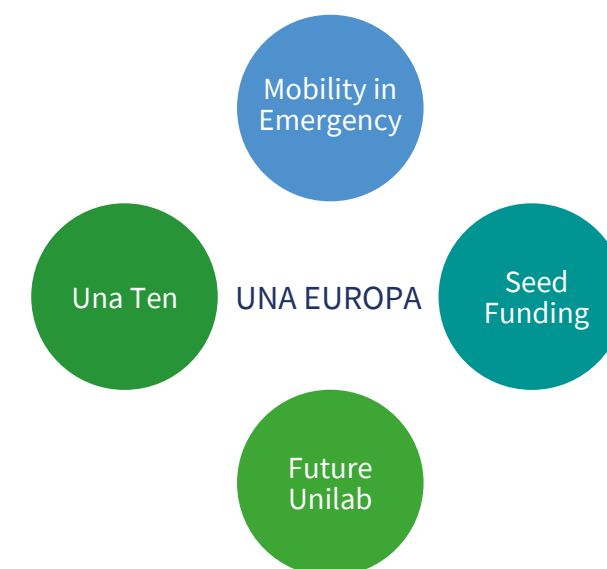
careers in the European countries involved. The program also envisages an alumni community that will consolidate the cultural, educational, and training heritage of its countries while strengthening the relations and opportunities for exchange with Italy and the other countries.

One of the Foundation's short-term objectives is to support the resilience of African educational systems, starting with a strategic action based on three pillars: a virtual mobility program, and the design of dedicated Bachelor's and Master's Degrees aimed at shaping a new generation of qualified researchers and teachers. The need for qualified training to support socio-economic development in the African continent emerged even more overwhelmingly during the Covid-19 emergency and, thanks to the prompt response of the universities of the IHEA Foundation, the virtual mobility program began in the first semester of the Academic Year 2020/21.

THIRD MISSION **UNA EUROPA**

As of April 2018, the University of Bologna, together with seven other prestigious European universities – Freie Universität Berlin (Germany), University of Edinburgh (Scotland), Helsingin Yliopisto (Finland), Uniwersytet Jagielloński (Poland), KU Leuven (Belgium), Universidad Complutense de Madrid (Spain), Université Paris 1 Panthéon-Sorbonne (France) – has been part of the European university alliance known as Una Europa. This alliance has opened up a shared, multilingual and multidisciplinary academic space and its goal is to create a European University.

The European Commission has funded two projects submitted by Una Europa concerning the initiatives of European alliances. The project is implementing innovative teaching, joint training, and public engagement initiatives, focusing on four themes (European Studies, Sustainability, Cultural Heritage, Data Science/ Artificial Intelligence) and on encouraging the mobility of students, teachers, and technical-administrative staff between the universities of the Alliance, and on the creation of a European university.

**SUSTAINABILITY NETWORKS**

The University of Bologna is part of many international networks composed of groups of institutions, within the European and Mediterranean areas, to promote

cooperation in several fields and create a common European area of higher education and research.

**RUS-NETWORKS OF UNIVERSITIES FOR SUSTAINABLE DEVELOPMENT**

The University of Bologna has contributed to the establishment of the RUS - Italian Network of Universities for Sustainable Development, aware of the key role that universities play in the training of future generations and in the dissemination of knowledge within society, also regarding the ability to promote sustainable development. This network is the first experience of coordination and sharing among the universities, with the main goal of spreading a culture of sustainability. The main aim of the Network is the diffusion of the culture

and good practices of sustainability, both within and outside the Universities (at urban, regional, national, international level), to increase the positive impacts in environmental, ethical, social and economic terms of the actions implemented by the members of the Network, to contribute to the achievement of the Agenda 2030 for Sustainable Development SDGs, and to strengthen the recognition and value of the Italian experience at international level. The RUS is officially represented inside the seventeen working groups involved in promotion of the SDGs.

**ASVIS**

The University of Bologna has joined the Italian Alliance for Sustainable Development (ASviS) in order to increase its contribution to the process of transition to a sustainable society. We want to expand our commitment to education for sustainable development and the dissemination of a culture of

sustainability, recognising the value of the UN Global Agenda for Sustainable Development and making its objectives our own. The Alliance represents a possibility to extend our areas of intervention to the definition of shared strategies that allow consolidation of a sustainable approach.



THIRD MISSION **IAU CLUSTER LEADER INSTITUTION ON GENDER EQUALITY**

The **IAU Cluster on HESD (Higher Education and Research for Sustainable Development)** promotes the role that Higher Education Institutions globally must fulfil to achieve the SDGs and Agenda 2030. Universities are to address the SDGs, which themselves impact on and transform universities. The Cluster encourages a holistic approach to the SDGs, focusing specifically on the whole institution approach. The

IAU Clusters brings HEIs from all continents together and encourages them to develop joint initiatives and synergies toward the achievement of the SDGs and to build a Worldwide Higher Education Community. The University of Bologna is a Leader Institution of SDG 5 Gender Equality, thanks to the many initiatives and projects we have implemented to raise awareness of this important need of our society at all levels.

**OTHER NETWORKS****Scholars at Risk (SAR)**

SAR is a network of institutions and individuals who share a mission: protecting scholars and promoting academic freedom. SAR supports scholars facing threats to their safety by setting up temporary academic positions at partner institutions.

**UniAdrion**

UniAdrion promotes scientific-academic cooperation through the implementation of educational initiatives, joint mobility, research projects and interregional cooperation, prioritising the areas of interest of the European Strategy for the Adriatic-Ionian Region.

**COIMBRA GROUP**

The Coimbra Group, established in 1987, is a network composed of 39 multidisciplinary European universities with important traditions aimed at creating academic and cultural ties and promoting internationalisation, academic collaboration, excellence in research and education and relations with society. It pursues the aim of fostering a university policy integrated at the European level through an intensive exchange of relations with community institutions, the sharing of practices and academic mobility among universities. The University of Bologna is among the founding members of.

is the association that brings together some of the most prestigious European universities with characteristics of excellence in research, education and third mission. The Guild's goal is to collaborate on the development of innovative solutions to some of the social and scientific challenges facing Europe.

**The Europaeum**

Europaeum is an association of eighteen European universities founded in 1992 by the University of Oxford. Students from the member universities come together in multidisciplinary groups to discuss European issues. The network organises events significant public events in the fields of the humanities and social sciences.

**Guild of European Research Intensive Universities**

The Guild of European Research Intensive Universities

**UNIMED**

UNIMED, Union of Mediterranean Universities, founded in October 1991, is an association that brings together 140 Universities belonging to countries bordering the Mediterranean basin. It aims to promote research and university education in the Euro-Mediterranean region including through the establishment of

thematic sub-networks and represents an important stakeholder in the Euro-Mediterranean by fostering the integration of university systems between the two shores of the Mediterranean through forms, including innovative, of academic mobility and collaboration.





# METHODOLOGICAL NOTE



This document presents the methodological approach used to define the direct and indirect impact of the university's activities in their four dimensions - training, research, third mission and institution - in order to measure their contribution to the advancement of the United Nations 2030 Agenda.

This document was formulated by the Scientific and Technical Committee for Social Reporting at the University of Bologna from April **2022 to July 2022**. The data presented herein refers to **2021**, as well as A.Y. **2021/22** for training data. Following the Rector's introduction, the report presents the key figures of the University of Bologna, followed by 17 sections, each one dedicated to a U.N. 2030 Agenda goal, reporting the impact generated by the University of Bologna through its diversified activities.

In particular, each goal is reported on in relation to the four dimensions of activities carried out at the University of Bologna (training, research, third mission and institution, where available) using a set of metrics specially formulated to match and integrate with the institutional documents adopted by the University of Bologna.

The data comes mainly from the University Data Warehouse, a database powered by the Alma Mater Studiorum's management systems, also drawing upon ad hoc surveys by the coordinators of the study programme, content analysis of research projects and cooperation programmes, and SCOPUS queries. Below is a description of how certain metrics were quantified in the document.



### PUBLICATIONS IN SCOPUS

Research regarding the number of publications was taken from the Scopus database, considering all articles from **2016-2021** which contain a specific sequence of keywords and an author affiliated with University of Bologna.



This year the document reports two different results for research data, because two sets of keywords were chosen.

This decision was made in order to consider a new way of benchmarking with other universities:

- the first result, it is the outcome of the University of Bologna set of keywords, determined for each UN SD goal by considering the general declaration of the goals and all targets of each goal.
- the second information, it is determined by using a set of Scopus queries related to each of the SDGs except for the 17 Goal: Partnership for the goals, generated by Elsevier.

This approach for some Research information affects also the citations count and the calculation of the H-index which both maintain the two different outcomes.

### “CITED BY” IN SCOPUS

The number of documents that have cited the author for a document’s publication in the DB Scopus.



### H-INDEX

The *h-index* was developed by the physician Jorge Eduardo Hirsh and counts the highest number of papers having at least the same number of citations. It expresses an easy to read 1:1 relationship between publishing articles and citations. In the bibliometric sectors is widely used to measure the impact in terms of scientific output of a researcher. Here is used to measure the scientific output of the University of Bologna, using the keywords’ clusters, extracted from each SDG, to contain and limit its topics and objectives.



### FP7, H2020, LIFE, INTERREG RESEARCH PROJECTS

The number of FP7, H2020 research projects active on **2021**.



### INTERNATIONAL BENCHMARKING

Benchmarking includes universities within the top 10 European Universities ranked in QS World Universities Ranking **2022** comparable to the University of Bologna in terms of:

- Size (XL - more than 30,000 students)
- Focus (FC - all 5 QS faculty areas, including the school of medicine)
- Research Intensity (Very High - more than 13,000 publications in the last years)
- Status (Public)

Using the above parameters, the field was narrowed to 10 universities:



UCL (University College London)

University of Edinburgh

The University of Manchester

University of Amsterdam

Ludwig-Maximilians-Universität München

University of Copenhagen

Sorbonne University

Katholieke Universiteit Leuven

Université Paris-Saclay

University of Birmingham

### NATIONAL BENCHMARKING

Following the parameters used for the selection of the international benchmarking, five Italian universities were selected from the first 400 in the QS World Universities Ranking **2022**.



Sapienza - Università di Roma

Università degli Studi di Padova (UNIPD)

Università degli Studi di Milano

Università di Pisa

The Scopus research criteria and the index number calculation criteria were the same as that of international benchmarking.

### COURSE UNITS

This data came from a survey investigating the link between the single course unit of a study programme and the U.N. Sustainable Development Goals. The survey was conducted asking to all teachers the link for each their course units using a web procedure. More than 95% of course units of the A.Y **2021/2022** has a link with at least a SDG.



### STUDENTS

The number of students who could choose to attend a course unit “tagged” for that SDG in A.Y. **2021/2022**.



### COLLABORATIONS, TEACHING, MOBILITY

The number of collaboration, teaching and mobility projects which were active in **2021**.



### COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

The number of cooperation and social engagement projects active in **2021**.



### PATENTS (INCLUDING NEW PLANT VARIETIES)

The number of active patents and vegetal varieties registered in **2021** by the university (both ownership and co-ownership), including their various international extensions.









ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

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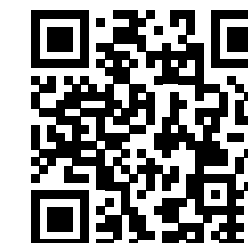
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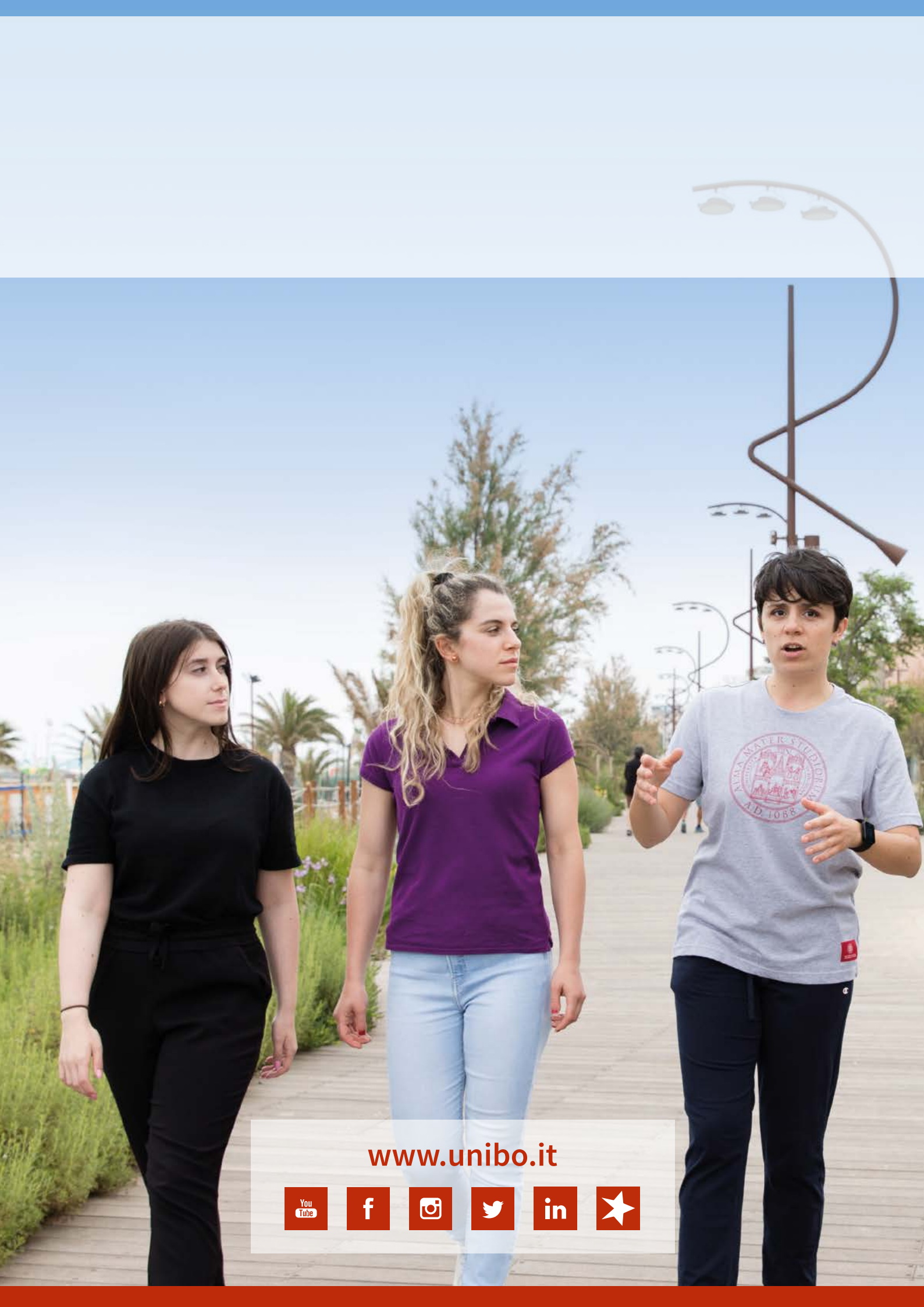
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