REPORT ON
U.N. SUSTAINABLE
DEVELOPMENT
GOALS

2016
The efforts of the Alma Mater Studiorum - University of Bologna to report extensively on the results of its activities, which has led to the publication of the Social Report since 2012 and of the Gender Report since 2015, have been renewed today with the decision to publish a new document describing the University’s profound commitment to respond to the demands of a constantly evolving society, with continuously changing paradigms.

Consistent with the perspective adopted in the Strategic Plan 2016-2018, the University of Bologna proposes an innovative way to report on the contributions generated by its institutional activities, including training, research and social and public engagement, aimed at the achievement of the 17 Sustainable Development Goals (SDGs) of the U.N. 2030 Agenda.

The 2030 Agenda is an action plan for transforming the world, acting in favour of people, peace, the planet, prosperity and partnerships. This becomes realistically possible the more the values and the communicative and inspirational power of the SDGs enter into daily life, with real impact on the behaviours of teachers, administrators, executives and auditors within different institutes.

The University of Bologna is committed to the values of sustainability, such as enhancing and safeguarding the territory, improving community wellbeing, promoting a knowledge-based development economy, social equity, and the ability of those involved to work effectively together for the common good.

Faithful to its mission, and thanks to a history that has consolidated over time, the Alma Mater Studiorum is fully aware that its activities can produce significant impact, both direct and indirect, on the community and on the region. Therefore, it continues to invest in the quality of training and in research related to the needs of society, as well as in a valuable organizational, institutional and multicampus structure, allowing their members to operate over a vast territory.

In line with its mission of a large public university and the pursuit of social responsibility, the Alma Mater Studiorum has taken an innovative path based on the careful classification and reporting of its activities in a framework that considers its contribution to the achievement of the sustainable development goals. Along this journey, Alma Mater has highlighted not only the connection between the university and the theme of the quality of education, but also the possible interconnections with the goals of the U.N. 2030 Agenda.

These are the reasons behind this publication, which is also a methodological proposition to be discussed and shared, and a statement of intent and responsibility that can be adopted by universities to achieve the values of the hoped-for future society described in the 2030 Agenda. The work found in this first report is likely to be improved and refined in the future; it is a starting point to be shared with the university system as a whole.

Finally, I would like to thank all the faculty members and the technical and administrative staff members participating to the Scientific and Technical Committee for Social Reporting at the University of Bologna, who have worked intensively during the last few months to propose an innovative reporting approach and to collect and organize the data reported in this publication, which summarizes the daily contribution of a large community of men and women – the Alma Mater Studiorum – working with enthusiasm and great professionalism.

Francesco Ubertini
Rector
Alma Mater Studiorum - Università di Bologna
ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
KEY FACTS

YEAR OF FOUNDATION
1088

MUSEUMS
5

CAMPUSES:
BOLOGNA, CESENA, FORLÌ, RAVENNA, RIMINI

LIBRARIES
27

SCHOOLS:
Agriculture and Veterinary Medicine
Arts, Humanities, and Cultural Heritage
Economics, Management, and Statistics
Engineering and Architecture
Foreign Languages and Literatures, Interpreting and Translation
Law
Medicine
Pharmacy, Biotechnology and Sport Science
Political Sciences
Psychology and Education
Science

RESEARCH PROJECTS
FP7, H2020 Research Projects. The projects funded create networks with over 900 partners, 330 of which are private

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

84,724
TOTAL NUMBER OF STUDENTS ENROLLED IN: DEGREE PROGRAMMES OF ALL LEVELS, PHDS, MASTERS, POST-GRADUATE TRAINING AND LIFELONG LEARNING PROGRAMMES

5,916
INTERNATIONAL STUDENTS

1,088

30
RESEARCH PAPERS PER DAY

> 11,000
RESEARCH PAPERS PER YEAR

> 30
RESEARCH PAPERS PER DAY

5,916
INTERNATIONAL STUDENTS

110

STUDENTS IN THE CAMPUSES

STUDENTS’ INTERNATIONAL MOBILITY

210
DEGREE PROGRAMMES (61 INTERNATIONAL)

2,480
INCOMING

3,156
OUTGOING

27 LIBRARIES

14 MUSEUMS

5,830

4,708

5,156

3,378

4,708

5,156

3,378
The doors of the University of Bologna are now open to refugee students with the Unibo4Refugees project.

In orientation interviews, students get the chance to submit their CVs, find out about the opportunities for study and financial aid and draw up an educational plan for rebuilding their future.

Even before obtaining refugee status and without having to pay enrolment fees, students can enrol in single learning activities and attend Italian language courses.

Enrolment in degree programmes is made easier thanks to special procedures for checking academic qualifications and admission requirements, obtaining study grants, getting exemption from fees and access to microcredit.

Through this action 19 asylum seekers from 10 different countries were able to enroll for the Academic year 2015/2016 and 22 in the Academic year 2016/2017.

The main part of these students come from Sub Saharan Africa (Ethiopia, Nigeria, Ghana, Gambia, Guinea, Mali, Somalia, Sudan, Liberia, Uganda).
2. END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

Mission of the IRT:
• To guarantee the safety, quality and healthiness of food, both for enhancing quality of life and for the sustainable development of the agro-food systems.
• To develop the agenda of future research needs in collaboration with political, social, and economic stakeholders.
• To promote knowledge and innovation within food-related areas and to meet the changing social demand and the latter answer to the challenges for a more efficient and productive research activity within the University of Bologna.
• To provide scientific and technological support, as well as specific training, to stakeholders of the food sector.

INTEGRATED RESEARCH TEAM - IRT ALMA FOOD

TEACHING

- 76 COURSE UNITS
- 1 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)

RESEARCH

- 10 PUBLICATIONS IN SCOPUS 2007-2016
- 147 “CITED BY” IN SCOPUS
- 6 FP7, H2020 RESEARCH PROJECTS (2,494,182 €)

- 3,863 STUDENTS WHO COULD CHOOSE THE COURSE UNITS
- PUBLICATIONS PER CAPITA INDEX NUMBER: 94
  INTERNATIONAL BENCHMARKING = 100
- PUBLICATIONS PER CAPITA INDEX NUMBER: 101
  NATIONAL BENCHMARKING = 100

THIRD MISSION

- COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS
  EUROPE: 1
  SOUTH AMERICA: 1
3. ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

TEACHING

<table>
<thead>
<tr>
<th>Degree Programme</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacy and Biotechnology</td>
<td>3,064</td>
</tr>
<tr>
<td>Medicine and Surgery</td>
<td>6,134</td>
</tr>
<tr>
<td>Psychology</td>
<td>3,248</td>
</tr>
<tr>
<td>Medical Specialization</td>
<td>942</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13,388</strong></td>
</tr>
</tbody>
</table>

568 Course Units
7 Collaborations, Teaching, Mobility (Europe)
24,735 Students Who Could Choose the Course Units

RESEARCH

73 Publications in Scopus 2007-2016
3,315 "Cited By" in Scopus
24 FP7, H2020 Research Projects (11,808,504 €)

Publications per Capita

- International Benchmarking = 42
- National Benchmarking = 73

Publications Per Capita

- Index Number: 24
- Index Number: 3,315
- Index Number: 24
INTEGRATED RESEARCH TEAM - IRT ALMA SEQUENCING

Alma Sequencing Integrated Research Team (IRT) combines the competences of many of the Alma Mater’s research groups, whose fields of activity go from genetics of rare diseases and cancer to evolutionary analysis; from pharmacogenomics to preventive genetic screenings; from the identification of biological markers for the improvement of animal and plant production to systems biology and the study of microbiota.

The use of NGS platforms also implies the development of several innovative applications: bioinformatics analysis, generation and storage of large amount of data; cloud computing and elaboration of algorithms for analyzing nucleotide sequences; processing of complex data and protection of sensitive data.

THIRD MISSION

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

EUROPE: 2
ASIA: 2

INSTITUTION

UNIBO STAFF WORKING IN HOSPITALS

<table>
<thead>
<tr>
<th>Type</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching staff</td>
<td>283</td>
</tr>
<tr>
<td>Technical-administrative staff</td>
<td>142</td>
</tr>
</tbody>
</table>
4. ENSURE INCLUSIVE AND QUALITY EDUCATION FOR ALL AND PROMOTE LIFELONG LEARNING

UNIVERSITY QUALITY ASSURANCE

The University of Bologna has an Internal Quality Assurance System involving a self-assessment that allow the University to improve the quality of its study programmes. This process aims to provide an adequate response to the expectations of all actors who have an interest in the offered training service: students, families, companies, institutions, etc.

The system envisages the periodic collection and analysis of significant data (such as the number of graduates in the course, the views of the students and the employment status of the graduates) and the planning of concrete actions for improvement.

The outcome of this analysis is represented by the Report of the course, a document published annually, both in Italian and in English, which contains the information required for Quality Assurance.

PARAMETERS FOR QUALITY EDUCATION

<table>
<thead>
<tr>
<th>STUDENT ATTRACTIVENESS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Students enrolled in Second cycle degree programmes (from other universities)</td>
<td>48.4%</td>
</tr>
<tr>
<td>Incoming exchange students</td>
<td>2,480</td>
</tr>
<tr>
<td>International students (UE and Extra-UE)</td>
<td>6.6%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIAL INCLUSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value of scholarships (merit and status based)</td>
</tr>
<tr>
<td>Students followed by the Service for disabled</td>
</tr>
<tr>
<td>Enrolled students by gender</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROGRAMMES OFFERED AND MAIN RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree programmes</td>
</tr>
<tr>
<td>Degree programmes taught in English</td>
</tr>
<tr>
<td>Masters’ programmes and post-graduate/lifelong learning programmes</td>
</tr>
<tr>
<td>Courses with at least three quarters of students satisfied with the course</td>
</tr>
<tr>
<td>Graduates</td>
</tr>
<tr>
<td>Graduates within regular enrollment</td>
</tr>
</tbody>
</table>
4. QUALITY EDUCATION

RESEARCH

397 PUBLICATIONS IN SCOPUS 2007-2016

8,393 PUBLICATIONS PER CAPITA
INDEX NUMBER: 53
INTERNATIONAL BENCHMARKING = 100

397 PUBLICATIONS IN SCOPUS
INDEX NUMBER: 77
NATIONAL BENCHMARKING = 100

RESEARCH PRODUCTS

<table>
<thead>
<tr>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles: 5,651</td>
</tr>
<tr>
<td>Chapters: 1,702</td>
</tr>
<tr>
<td>Books: 436</td>
</tr>
<tr>
<td>Proceedings: 1,273</td>
</tr>
<tr>
<td>Translations: 37</td>
</tr>
<tr>
<td>Patents/licences: 27</td>
</tr>
<tr>
<td>Other: 85</td>
</tr>
<tr>
<td>Research-related activities: 171</td>
</tr>
<tr>
<td>Total: 9,382</td>
</tr>
</tbody>
</table>

Data updated to 2014

INSTITUTION

TRAINED PEOPLE IN 2016 % ON UNIBO STAFF

2,135 71%

THIRD MISSION

GUIDANCE (CURRENT AND OUTGOING STUDENTS) 2016

Curricular internships 19,880
Professional internship 899
Career Days participants 4,569
Recruiting Day participants 2,667
Job Days (School of Agriculture and veterinary Medicine) participants 120
Job Placement-web site visitors 70,241
Job Placement service: no. of participants to Companies presentations 1,918
No. of beneficiaries of the Guidance - Education and Support to Entrepreneurship services 3,908

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

EUROPE: 3
AFRICA: 4
SOUTH AMERICA: 4
ASIA: 4
5. ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

Alma Gender IRT promotes research on gender issues, focusing on how societies shape, organize, and innovate gender roles, relations, identities, and representations of gender, and how these interact with other variables such as nationality, ethnicity, sexual orientation, gender identity, disability, age, profession, religion, economic status, etc.

Alma Gender IRT’s main goal is to create a network of scholars from different fields in order to promote research and teaching on gender issues and to advance gender equality within the University of Bologna’s community of students, teachers, and workers.
5. GENDER EQUALITY

THIRD MISSION

EVENTS PROMOTED ON GENDER RELATED ISSUES
The University of Bologna promotes the valorisation of gender-related issues through organization, the participation, the patronage, the dissemination of public initiatives (such as presentations, seminars, conferences, etc.) carried out in the Campuses where the University operates, as well as through the dissemination of publications, flyers, brochures, etc. to gender issues.

From an analysis of the events advertised through the online magazine of the University of Bologna - “UniboMagazine” (www.magazine.unibo.it), in 2016 were published 23 articles on gender-related issues.

INSTITUTIONS

BODIES FOR THE PROTECTION OF GENDER EQUALITY AT UNIVERSITY OF BOLOGNA
1) 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.

THE GLASS CEILING INDEX (SHE FIGURES, 2015)
The Glass Ceiling Index (GCI) is a relative index comparing the proportion of women in academia (grades A, B, and C) with the proportion of women in top academic positions (grade A positions; equivalent to full professors in most countries) in a given year.

The GCI can range from 0 to infinity. A GCI of 1 indicates that there is no difference between women and men in terms of their chances of being promoted. A score of less than 1 means that women are more represented at the grade A level than in academia generally (grades A, B, and C) and a GCI score of more than 1 indicates the presence of a glass ceiling effect, meaning that women are less represented in grade A positions than in academia generally (grades A, B, and C).

In other words, the interpretation of the GCI is that the higher the value, the stronger the glass ceiling effect and the more difficult it is for women to move into a higher position.

The Glass Ceiling Index of University of Bologna (SHE FIGURES, 2015)

<table>
<thead>
<tr>
<th>Year</th>
<th>GCI</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>1.83</td>
</tr>
<tr>
<td>2015</td>
<td>1.80</td>
</tr>
<tr>
<td>2016</td>
<td>1.65</td>
</tr>
</tbody>
</table>

THE GENDER EQUALITY PLAN
The Gender Equality Plan (GEP) is a flexible tool, comparable to a Positive Action Plan, which is constructed taking into account the characteristics and individual needs of each single Research Performing Organization (University or Research Centre).

The GEP of University of Bologna contains measures developed on the basis of the needs and the context analysis of the University of Bologna, an first assessment carried out through the valuable collaboration of its researchers, professors, technicians and administrative staff, vice-rectors, delegates, managers and Rector (namely “key actors”), during the Gender Audit phase of the H2020 PLOTINA project, coordinated by the University of Bologna, that has been undertaken from February to December 2016.

The measures are mainly, but not exclusively, addressed to specific beneficiaries, being the main target of the GERI 4 call “female researchers”.

The individual measures have been specifically foreseen for the years 2017 - 2020 (total duration of the PLOTINA project) and will be verified through the use of indicators, a monitoring system, the annual gender report and by peer-reviewers.

815 DOWNLOADS OF GENDER REPORT

EVENTS PROMOTED ON GENDER RELATED ISSUES
The University of Bologna promotes the valorisation of gender-related issues through organization, the participation, the patronage, the dissemination of public initiatives (such as presentations, seminars, conferences, etc.) carried out in the Campuses where the University operates, as well as through the dissemination of publications, flyers, brochures, etc. to gender issues.

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

**INSTITUTION**

<table>
<thead>
<tr>
<th>WATER CONSUMPTION / YEAR</th>
<th>M³</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>1,352,277</td>
</tr>
<tr>
<td>2015</td>
<td>1,381,404</td>
</tr>
<tr>
<td>2016</td>
<td>824,067</td>
</tr>
</tbody>
</table>

**MORE THAN 75% OF INSTALLED APPLIANCES ARE WATER EFFICIENT**

### TEACHING

- **24 COURSE UNITS**

### RESEARCH

- **225 PUBLICATIONS IN SCOPUS 2007-2016**
- **3,015 “CITED BY” IN SCOPUS**
- **3 FP7, H2020 RESEARCH PROJECTS (995,778 €)**

**PUBLICATIONS PER CAPITA INDEX NUMBER**

- **INTERNATIONAL BENCHMARKING: 69**
- **NATIONAL BENCHMARKING = 100**

**COURSE UNITS**

- **4,133 STUDENTS WHO COULD CHOOSE THE COURSE UNITS**

**RESEARCH PROJECTS**

- **FP7, H2020 RESEARCH PROJECTS (995,778 €)**
7. ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

The Alma Low Carbon Integrated Research Team coordinates the scientific competences of the University of Bologna, its thematic structure based on the European Horizon 2020 priorities for Research and Innovation:

- Energy efficiency;
- Competitive low carbon energy;
- Waste: a resource to recycle, reuse and recover raw materials;
- Water Innovation: boosting its value for Europe;
- Growing low carbon, resource efficient economy with sustainable supply of raw materials;
- Social, environmental, and economic aspects of the energy system.

INTEGRATED RESEARCH TEAM - IRT ALMA LOW CARBON

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- Social, environmental, and economic aspects of the energy system.
THIRD MISSION

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

AFRICA: 1
ASIA: 1

INSTITUTION

<table>
<thead>
<tr>
<th>GREEN ROOFS</th>
<th>M²</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Engineering and Architecture (via Terracini)</td>
<td>120</td>
</tr>
<tr>
<td>School of Agriculture and Veterinary Medicine (viale Fanin)</td>
<td>932</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,052</strong></td>
</tr>
</tbody>
</table>

1,343,958 KWH per year.
Solar energy produced equal to 1,000 tonnes of CO₂ per year not released into the environment.

More than 80% of conventional appliances are replaced by energy efficient ones.
8. PROMOTE SUSTAINED, INCLUSIVE AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

Academic entrepreneurship refers to the interaction between university, industry, markets, and society at large and encompasses different channels through which the output of academic research can be conveyed to the market. These channels include patents, licenses, university industry collaborations, academic consulting, and new venture creation. This latter, among the various mechanisms in support of the commercial exploitation of research, has received increasing attention.

The actions to be implemented at the University of Bologna to support academic entrepreneurship can be grouped according to five main conceptual dimensions, representing five pillars on which the strategy is built:

- inspiring and raising awareness;
- scouting of ideas;
- pre-incubating services;
- incubating;
- accelerating and enabling growth.

Academic entrepreneurship

ENGAGEMENT IN ACADEMIC ENTREPRENEURSHIP

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

EUROPE: 1

25 SPIN OFFS AND START UPS

13 FP7, H2020 RESEARCH PROJECTS (516.123 €)

1,117 "CITED BY" IN SCOPUS

PUBLICATIONS PER CAPITA INDEX NUMBER: 190
NATIONAL BENCHMARKING = 100

PUBLICATIONS PER CAPITA INDEX NUMBER: 135
INTERNATIONAL BENCHMARKING = 100

65 PUBLICATIONS IN SCOPUS 2007-2016

149 COURSE UNITS

13 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)

27,380 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

69.7% GRADUATES EMPLOYED

TEACHING

RESEARCH

THIRD MISSION

8 DECENT WORK AND ECONOMIC GROWTH
INTERNAL SUPPORT INITIATIVES FOR STAFF WITH DISABILITIES

Starting from 2009, the University of Bologna has undertaken several actions in order to support staff with disabilities. The activities are:

- Cognitive talks in order to find the link within the skills of staff with disabilities and University of Bologna’s requirements;
- The permanent mapping of the state of disability at the University of Bologna;
- The creation of the functional tutor figure for job placement, integration and reduction of discomfort situations for staff with disabilities;
- The establishment of the Inclusion and Protection Office for administrative staff with disabilities;
- The presence of the Delegate for Disability;
- The creation of a task force with the purpose of managing and supporting disadvantaged colleagues in discomforts directly at their workplaces;
- The support of civilian volunteers in some situations of particular discomfort;
- The provision of appropriate aids to reduce situations of particular discomfort;
- The presence of a professional interpreter of the Italian Sign Language (LIS) or stenotype for deaf people.

TRAINING ON HEALTH AND SAFETY IN WORKPLACES

<table>
<thead>
<tr>
<th>Training initiatives</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training initiatives</td>
<td>89</td>
</tr>
<tr>
<td>Hours of teaching</td>
<td>738</td>
</tr>
<tr>
<td>Participants</td>
<td>1,809</td>
</tr>
<tr>
<td>Training hours</td>
<td>9,824</td>
</tr>
</tbody>
</table>

INSTITUTION

<table>
<thead>
<tr>
<th>TEACHING STAFF</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Women</td>
</tr>
<tr>
<td>Full Professors</td>
<td>163</td>
</tr>
<tr>
<td>Associate Professors</td>
<td>452</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>474</td>
</tr>
<tr>
<td>Total of teaching staff</td>
<td>1,089</td>
</tr>
<tr>
<td>Research fellows</td>
<td>585</td>
</tr>
<tr>
<td>Total</td>
<td>1,674</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICAL-ADMINISTRATIVE STAFF</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Women</td>
</tr>
<tr>
<td>Heads of administrative divisions</td>
<td>6</td>
</tr>
<tr>
<td>Technical-Administrative staff</td>
<td>1,925</td>
</tr>
<tr>
<td>Language assistants</td>
<td>56</td>
</tr>
<tr>
<td>Farm workers</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>1,987</td>
</tr>
</tbody>
</table>

FINANCIAL PERFORMANCE

<table>
<thead>
<tr>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expenses for personnel</td>
</tr>
<tr>
<td>Debt-to-equity ratio</td>
</tr>
<tr>
<td>Indicator of financial sustainability</td>
</tr>
</tbody>
</table>
9. BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION

ENGAGEMENT IN ACADEMIC ENTREPRENEURSHIP: THE PdA _PHASE1 + PdA _PHASE2 - ENTREPRENEURSHIP EDUCATION

The PdA _phase1 aims at offering students, on a continuous basis, the opportunity to disclose their ideas any time during the year. Students disclose their ideas to a team of experts who will help and assist them to find their way in the initial stages of the generation of an entrepreneurial opportunity and develop a preliminary assessment.

The PdA _phase2 aims at pushing further those students’ ideas showing potential for business development. Students whose ideas are selected in phase 1 are introduced to a training program up to 6/9 months aimed at developing their ideas until they are ready to be submitted to the most appropriate incubators/accelerators.

The Entrepreneurship education consists in ad-hoc courses for undergraduate and postgraduate curricula in all of the disciplines/fields offering the basic notions of entrepreneurship (feasibility analysis, business planning, etc.). More advanced courses are available only in specific disciplines (management and engineering) and Master programs are offered by BBS Bologna Business School.

TEACHING

404 COURSE UNITS

2 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)

26,187 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

15,519,551 € TOTAL INVESTMENT FOR PHD STUDENTS (2015)

RESEARCH

328 PUBLICATIONS IN SCOPUS 2006-2016

4,224 “CITED BY” IN SCOPUS

29 FP7, H2020 RESEARCH PROJECTS (14,642,760 €)

328 PUBLICATIONS PER CAPITA INDEX NUMBER: 102 INTERNATIONAL BENCHMARKING = 100

4,224 PUBLICATIONS PER CAPITA INDEX NUMBER: 134 NATIONAL BENCHMARKING = 100
### FP7, H2020 Projects at 31/12/2016

<table>
<thead>
<tr>
<th></th>
<th>Number of Projects</th>
<th>Funded by University of Bologna</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP7</td>
<td>20</td>
<td>13,995,342</td>
</tr>
<tr>
<td>H2020</td>
<td>90</td>
<td>30,384,748</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>110</strong></td>
<td><strong>44,380,090</strong></td>
</tr>
</tbody>
</table>

### Unibo Launch Pad - FabLab - E-Labs

**Unibo Launch Pad** is a program targeting PhD students, post-doc scholars and young researchers with a strong focus on science-based venturing ideas. Students whose entrepreneurial ideas are selected are introduced to a three months intensive acceleration experience. The program includes a conclusive demo day during which the most promising projects are selected by a panel of VCs and industry experts to participate in a fully funded three weeks immersion program in Silicon Valley and London.

**FabLab** is a coworking space targeting University of Bologna students and equipped with tools for ‘makers’ to create their own prototypes and with an array of computer-controlled tools that cover several different length scales and various materials. This is a brand new project to be open early in 2018.

**E-labs** are laboratories in proximity of departments with specialized tools and research equipment offering professors, scholars and students a unique maker spaces to develop technologies and prototypes.

### Departments

- Agricultural and Food Sciences
- Agricultural Sciences
- Architecture
- Biological, Geological, and Environmental Sciences
- Biomedical and Neuromotor Sciences
- Chemistry «Giacomo Ciamician»
- Civil, Chemical, Environmental, and Materials Engineering
- Classical Philology and Italian Studies
- Computer Science and Engineering
- Cultural Heritage
- Economics
- Education Studies «Giovanni Maria Bertini»
- Electrical, Electronic, and Information Engineering «Guglielmo Marconi»
- Experimental, Diagnostic and Specialty Medicine
- For Life Quality Studies
- History and Cultures
- Industrial Chemistry «Toso Montanari»
- Industrial Engineering
- Interpreting and Translation
- Legal Studies
- Management
- Mathematics
- Medical and Surgical Sciences
- Modern Languages, Literatures, and Cultures
- Pharmacy and Biotechnology
- Philosophy and Communication Studies
- Physics and Astronomy
- Political and Social Sciences
- Psychology
- Sociology and Business Law
- Statistical Sciences «Paolo Fortunati»
- The Arts
- Veterinary Medical Sciences
9. INDUSTRY, INNOVATION AND INFRASTRUCTURE

INTERDEPARTMENTAL CENTRES FOR INDUSTRIAL RESEARCH

BOLOGNA
- Interdepartmental Centre for Industrial Research in Building and Construction - CIRI Building and Construction
- Interdepartmental Centre for Industrial Research in Energy and Environment - CIRI Energy and Environment
- Interdepartmental Centre for Industrial ICT Research - CIRI ICT
- Interdepartmental Centre for Industrial Research in Advanced Mechanical Engineering Applications and Materials Technology - CIRI Advanced Mechanics and Materials
- Interdepartmental Centre for Industrial Research in Health Sciences and Technologies - CIRI Health Sciences and Technologies

CESENA
- Interdepartmental Centre for Industrial Agrofood Research - CIRI Agrofood
- Interdepartmental Centre for Industrial ICT Research - CIRI ICT

FORLÌ
- Interdepartmental Centre for Industrial Aeronautical Research - CIRI Aeronautics
- Interdepartmental Centre for Industrial ICT Research - CIRI ICT

RAVENNA
- Interdepartmental Centre for Industrial Research in Building and Construction - CIRI Building and Construction
- Interdepartmental Centre for Industrial Research in Energy and Environment - CIRI Energy and Environment
- Interdepartmental Centre for Industrial Research in Advanced Mechanical Engineering Applications and Materials Technology - CIRI Advanced Mechanics and Materials

FAENZA
- Interdepartmental Centre for Industrial Research in Advanced Mechanical Engineering Applications and Materials Technology - CIRI Advanced Mechanics and Materials

RIMINI
- Interdepartmental Centre for Industrial Research in Energy and Environment - CIRI Energy and Environment
- Interdepartmental Centre for Industrial Research in Advanced Mechanical Engineering Applications and Materials Technology - CIRI Advanced Mechanics and Materials

INSTITUTION

ALMAECLUB
The club is an open community of the University of Bologna faculty members and scholars from all of the disciplines aimed at spreading entrepreneurial culture within the Alma Mater.

The club gathers on a bimonthly basis and provides participants the chance to:
- learn about entrepreneurship (basic courses are offered to those who are not familiar with entrepreneurship and are willing to know more);
- be inspired by speakers (entrepreneurs, outstanding scholars, managers, etc.) sharing their stories, passions and interests in entrepreneurship;
- join a think tank and contribute with ideas and competences to the development of specific projects/actions to support entrepreneurship within Alma Mater.

AlmaEClub was launched early in 2017.

THIRD MISSION

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

ASIA: 2

AGREEMENTS BETWEEN CIRI AND OTHER RESEARCH INSTITUTES

81 PATENTS (INCLUDING NEW PLANT VARIETIES)

INCUBATORS

AlmaCube
- AlmCube is the incubator jointly founded in March 2013 by the University of Bologna together with Unindustria Bologna to support the generation of highly innovative companies. It serves both spin-offs and start-ups.

Innovation Square - Rimini
- Networks of incubators (Innovation Square, CesenaLab and Basement) other incubating facilities located within different campus of the University of Bologna offering incubation, preincubation and idea-scouting services, on top of spaces. Innovation Square is located in Rimini, CesenaLab is located in Cesena and Basement is located in Forli.

Cesena Lab - Cesena

Basement - Forli
10. REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

**TEACHING**
- 193 COURSE UNITS
- 7 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)
- 20,985 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

**RESEARCH**
- 114 PUBLICATIONS IN SCOPUS 2007-2016
- 1,781 "CITED BY" IN SCOPUS
- PUBLICATIONS PER CAPITA INDEX NUMBER: 48 INTERNATIONAL BENCHMARKING = 100
- PUBLICATIONS PER CAPITA INDEX NUMBER: 87 NATIONAL BENCHMARKING = 100

**THIRD MISSION**
- 1 FP7, H2020 RESEARCH PROJECTS (98,338 €)
- 2,040 DOWNLOADS OF SOCIAL RESPONSIBILITY REPORT
- 1,781 “CITED BY” IN SCOPUS

**ISTITUTION**

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

This committee makes proposals, provides consultation and monitors the development of a culture that promotes equal opportunities, enhances employee wellbeing and prevents discrimination, with reference to Italian current legislation and art. 14 of the University Statute.

It avails of the internal services for the promotion of employee wellbeing provided by Alma Mater and works closely with the Harassment Adviser.
11. MAKE CITIES AND HUMAN SETTLEMENTS INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE

INTEGRATED RESEARCH TEAM - IRT ALMA HERITAGE SCIENCE

Mission and Aims of the IRT Alma Heritage Science:

- To use interdisciplinarity as solution to cope with contemporary challenges related to Cultural Heritage conservation, restoration and valorization.
- To give support to the implementation and development of new solutions by covering several scientific sectors and studying the research field from different perspectives.
- To be a main partner for major stakeholders: foundations, associations, industries, policy makers, research centers and institutes.
- To facilitate multi-disciplinary research.
- To contribute to the strengthening of the European Research Area.
- To develop the agenda of research needs at national and international level.
THIRD MISSION

PUBLIC ENGAGEMENT: EVENTS IN THE TOWNS WHERE THE UNIVERSITY CAMPUSES ARE LOCATED

UNIVERSITY MUSEUM NETWORK (14 MUSEUMS)
The “G. Ciamician” Chemistry Collection
MeuS – The European Student Museum
The Observatory Museum
The “L. Cattaneo” Anatomical Waxwork Museum
Comparative Anatomy Museum
The Domestic Animal Anatomy Museum
The Museum of Veterinary Pathology and Teratology
The Anthropology Museum
The Museum of Physics
The “L. Bombicci” Mineralogy Museum
The Palazzo Poggi Museum
The Zoology Museum
The Giovanni Capellini Geological Museum
The Herbarium and the Botanical Gardens

PUBLIC ENGAGEMENT: EVENTS BY TYPE

INSTITUTION

GEOGRAPHICAL DISTRIBUTION OF BUILDINGS (2016)
Total 971,768.21 m²

Data refer to the indoor surface area of the buildings and do not include outdoor areas.
12. ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

TEACHING

- 89 COURSE UNITS
- 13,477 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

- 112 PUBLICATIONS IN SCOPUS 2007-2016
- 1,361 "CITED BY" IN SCOPUS
- 10 FP7, H2020 RESEARCH PROJECTS (2,793,713 €)
- PUBLICATIONS PER CAPITA INDEX NUMBER: 112
- PUBLICATIONS PER CAPITA INDEX NUMBER: 146
- INTERNATIONAL BENCHMARKING = 100
- NATIONAL BENCHMARKING = 100

INSTITUTION

- RECYCLING PROGRAM FOR UNIVERSITY WASTE (GREEN METRIC 2016 ON 2015 DATA)
  - EXTENSIVE (MORE THAN 50%)
- INORGANIC WASTE TREATMENT (GREEN METRIC 2016 ON 2015 DATA)
  - FULLY RECYCLED (MORE THAN 50%)
13. TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

TEACHING

6 PUBLICATIONS IN SCOPUS 2007-2016

54 COURSE UNITS

4,794 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

164 “CITED BY” IN SCOPUS

1 FP7, H2020 RESEARCH PROJECTS (495,350 €)

6 PUBLICATIONS PER CAPITA INDEX NUMBER: 30

6 PUBLICATIONS PER CAPITA INDEX NUMBER: 131

INTERNATIONAL BENCHMARKING = 100

NATIONAL BENCHMARKING = 100

INSTITUTION

2,492 PERSONAL PASSES FOR USE OF PUBLIC TRANSPORT ON FAVORABLE TERMS

13.3% OF ELECTRIC CARS IN THE UNIVERSITY FLEET OF CARS (GREEN METRIC 2016 ON 2015 DATA)

6,333 MEAN NUMBER OF BICYCLE AROUND THE UNIVERSITY (GREEN METRIC 2016 ON 2015 DATA)

512 CO₂ EMISSION OVER THE LAST 12 MONTHS (TONS) (GREEN METRIC 2016 ON 2015 DATA)

1 FP7, H2020 RESEARCH PROJECTS (495,350 €)

PUBLICATIONS PER CAPITA INDEX NUMBER: 131

INTERNATIONAL BENCHMARKING = 100

NATIONAL BENCHMARKING = 100
14. CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

**TEACHING**

- 31 COURSE UNITS
- 3 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)

**RESEARCH**

- 62 PUBLICATIONS IN SCOPUS 2007-2016
- 1,656 “CITED BY” IN SCOPUS
- 3 FP7, H2020 RESEARCH PROJECTS (459,356 €)

- 2,096 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

**PUBLICATIONS PER CAPITA INDEX NUMBER**

- INTERNATIONAL BENCHMARKING = 103
- NATIONAL BENCHMARKING = 235

**BLUE GROWTH @ UNIBO**

At the University of Bologna there is different expertise on topics related to seas and oceans, in particular with reference to:

- Marine ecosystems, including vulnerabilities and resilience to anthropic impacts;
- Climate change, adaptation and mitigation plans;
- Risks and coastal protection (including erosion, pollution, marine litter and spills);
- Blue & White Biotech for marine environment;
- Fisheries;
- Aquaculture;
- Tourism
- Marine spatial planning and integrated coastal zone management;
- Maritime transport technologies and infrastructures;
- Observation and oceanographic systems;
- Multi-purposes offshore marine platforms;
- Marine coastal cultural heritage.
15. PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESELTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

THE UNIVERSITY OF BOLOGNA EXPERIMENTAL FARM - AUB

The University of Bologna Experimental Farm - AUB dates from 1974 and was designed to support research and experiments conducted by departments of the Bologna University School of Agriculture and Veterinary Medicine.

As concerns research, the Farm enables programmes to be devised for the benefit of theoretical and applied studies.

Experimental projects include issues bound up with farm management: defence of the land, fertilizing the land, and improving techniques of herbaceous and tree cultivation.

The Ozzano Centre has a teaching cow-house for dairy cattle, geared to experimentation with different feeds and their yield.

One section of the Farm is applying an ongoing protocol of organic agriculture, a subject of wide topical interest yet controversial in the technical and scientific world.

Today’s Farm puts on services to design, implement and maintain areas of greenery throughout the University; it also runs a canteen at the Cadriano Centre for teaching and experiment.

In general, it is an ‘observatory’ onto agriculture as practised in our country, fielding the kind of questions that consumers and agriculturists expect the academic world to answer. This helps to make experimental and research projects more ‘targeted’.

This whole multi-faceted facility forms an important training-ground for students; it is used for guided tours and practical work, and can be profitably harnessed to practical applied internships and above all graduation dissertations.
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**

- 160 COURSE UNITS
- 130 COURSE UNITS

**RESEARCH**

- 16 PUBLICATIONS IN SCOPUS 2007-2016
- 85 “CITED BY” IN SCOPUS
- 7 FP7, H2020 RESEARCH PROJECTS (1,740,306 €)

**INTEGRATED RESEARCH TEAM - IRT SOCIAL ECONOMY AND CIVIL SOCIETY**

Mission of the IRT:
Gathering many social researchers, this IRT aims at coping with social problems and contemporary challenges through academic research. Covering several scientific sectors and studying social economy from different perspectives, it gives support to the implementation and development of new solutions.

Its research team strives:
- to be a main partner for major stakeholders: foundations, associations, industrial and cooperative enterprises, policy makers, research centres and institutes;
- to facilitate multi-disciplinary research;
- to contribute to the strengthening of the European Research Area to develop an agenda of scientific research at national and international level;
- to promote the role and culture of social economy in the civil society.

- PUBLICATIONS PER CAPITA INDEX NUMBER: 44 NATIONAL BENCHMARKING = 100
- PUBLICATIONS PER CAPITA INDEX NUMBER: 106 NATIONAL BENCHMARKING = 100

- "CITED BY" IN SCOPUS INDEX NUMBER: 106 NATIONAL BENCHMARKING = 100
- 7 FP7, H2020 RESEARCH PROJECTS (1,740,306 €)
16. PEACE, JUSTICE AND STRONG INSTITUTIONS

THIRD MISSION

PARTICIPATIONS INTO OBSERVATORIES AND EXTERNAL INSTITUTIONS: PARTICIPATION INTO THE MAGNA CHARTA OBSERVATORY

The Magna Charta Observatory of Fundamental Values and Rights (MCO) is the global guardian of fundamental university values and assists universities and higher education systems to operate effectively in accordance with them.

It does this for the benefit of students, staff, society and universities themselves.

Over 800 universities from 85 countries have signed its statement of fundamental values since 1988.

The MCO was founded by the University of Bologna and the European University Association.

It is a non-profit organisation and is based in Bologna.

It works with other national, European or international organisations pursuing similar or compatible aims.

It is funded by the Italian government and donations from signatories.

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

EUROPE: 4
ASIA: 2

INSTITUTION

ISTITUTIONAL ACCOUNTABILITY AND TRANSPARENCY

At the University of Bologna web site (http://www.unibo.it/en/university/who-we-are/who-we-are) are available all the institutional documents and regulations, including planning and reporting documents.

Also, the University of Bologna has signed the Berlin Declaration on open access to knowledge in the Sciences and Humanities.

14,728,053 VISITS UNIBO.IT (ITALIAN VERSION)

33,865,984 VISITED PAGES UNIBO.IT (ITALIAN VERSION)

1,174,023 VISITS UNIBO.IT/EN (ENGLISH VERSION)

3,760,107 VISITED PAGES UNIBO.IT/EN (ENGLISH VERSION)
17. STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALIZE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

**TEACHING**

- **14 COURSE UNITS**
- **5 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)**

**RESEARCH**

- **72 PUBLICATIONS IN SCOPUS 2007-2016**
- **3,239 "CITED BY" IN SCOPUS**
- **3 FP7, H2020 RESEARCH PROJECTS (900,225 €)**

**INTEGRATED RESEARCH TEAM - IRT BRASIL**

IRT Brasil connects a large number of researchers of the University of Bologna who are active in scientific projects with and about Brazil, in order to:

- promote an interdisciplinary approach and coordinate a consistent critical mass of researchers, cooperating with Brazilian partners and working on themes linked with Brazilian culture and knowledge production;
- become a recognized stakeholder, qualified for the dimension and quality of knowledge and research on Brazil and with Brazilian, European and Italian partners;
- promote scientific, institutional and economic dialogue with Brazilian, Italian and European partners, by developing and improving multi and trans-disciplinary research initiatives;
- enhance the quality of scientific, cultural, and economic dialogue between Brazil and Italy, Brazil and Europe;
- contribute at different levels to the diffusion of knowledge on Brazil in Italy, so as to promote shared cultural policies.

**INTERNATIONAL BENCHMARKING = 100**

- **PUBLICATIONS PER CAPITA INDEX NUMBER: 79**
- **"CITED BY" INDEX NUMBER: 100**

**NATIONAL BENCHMARKING = 100**

- **2,616 STUDENTS WHO COULD CHOOSE THE COURSE UNITS**
- **3,239 "CITED BY" IN SCOPUS**
- **3 FP7, H2020 RESEARCH PROJECTS (900,225 €)**
THIRD MISSION

No. OF DEVELOPMENT COOPERATION INITIATIVES

<table>
<thead>
<tr>
<th>Region</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Balkans</td>
<td>4</td>
</tr>
<tr>
<td>North Africa</td>
<td>6</td>
</tr>
<tr>
<td>Middle East and Gulf region</td>
<td>9</td>
</tr>
<tr>
<td>Central and South America</td>
<td>28</td>
</tr>
<tr>
<td>Near East</td>
<td>8</td>
</tr>
<tr>
<td>Asia</td>
<td>10</td>
</tr>
<tr>
<td>Sub-Saharan Africa</td>
<td>8</td>
</tr>
</tbody>
</table>

DEVELOPMENT COOPERATION: ALMAENGAGE

AlmaEngage is the virtual co-ordination structure of development cooperation activities at local and international level of the University of Bologna. AlmaEngage will handle and promote systematically on the already planned initiatives and to devise and implement new themes to raise awareness and animate an academic and extra-academic audience on development cooperation issues. AlmaEngage is part of a broader process of opening universities to the outside world and sharing and transferring knowledge to the benefit of society, its local, national and international organizations.
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 October 2016 to May 2017. The data presented herein refers to 2016, as well as A.Y. 2016/17 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 2007-2016 which contain a specific sequence of keywords and an author affiliated with the University of Bologna. Keywords were chosen for each UN SD goal by considering the general declaration of the goals and all targets of each goal.

“CITED BY” IN SCOPUS
The number of documents that have cited the author for a document’s publication in the DB Scopus. Date of extraction: 4th May 2017.

INTERNATIONAL BENCHMARKING
Benchmarking includes universities within the top 50 of the QS World Universities Ranking 2016/2017 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 5 years)
• Status (Public)

Using the above parameters, the field was narrowed to 14 universities:

UCL (UNIVERSITY COLLEGE LONDON) UK
NATIONAL UNIVERSITY OF SINGAPORE (NUS) SG
UNIVERSITY OF MICHIGAN US
TSINGHUA UNIVERSITY CN
UNIVERSITY OF CALIFORNIA, BERKELEY (UCB) US
THE UNIVERSITY OF MANCHESTER UK
UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) US
UNIVERSITY OF TORONTO CA
PEKING UNIVERSITY CN
UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) US
THE UNIVERSITY OF MELBOURNE AU
UNIVERSITY OF BRITISH COLUMBIA CA
THE UNIVERSITY OF SYDNEY AU
THE UNIVERSITY OF NEW SOUTH WALES (UNSW) AU

The total number of articles was determined as described in “PUBLICATIONS IN SCOPUS”. The total number of articles for each university and each goal was scaled against the number of academic staff as listed by QS for the World University Ranking 2016/2017 and published on www.topuniversities.com. By doing so, we eliminated any dimensional effect caused by simply considering the total number of publications. Finally, for each goal we compared the University of Bologna’s ratio with the average of the ratios for the 14 universities in the benchmark group. The result is the index number “benchmark = 100”; an index number higher than 100 means that “per capita publications” by UNIBO academics is higher than the average of the universities in the international benchmark group. If the index is lower than 100, UNIBO academic productivity is lower than the benchmark.

NATIONAL BENCHMARKING
Following the parameters used for the selection of the international benchmarking, three Italian universities were selected from the first 400 in the QS World Universities Ranking 2016/2017.

SAPIENZA - UNIVERSITÀ DI ROMA (UNIROMA1)
UNIVERSITÀ DEGLI STUDI DI PADova (UNIPD)
UNIVERSITÀ DEGLI STUDI DI MILANO (UNIMI)

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

COLLABORATIONS, TEACHING, MOBILITY
The number of collaboration, teaching and mobility projects which were active as of 31 December 2016.

FP7, H2020 RESEARCH PROJECTS
The number of FP7, H2020 research projects active as of 31 December 2016.

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS
The number of cooperation and social engagement projects active as of 31 December 2016.

PATENTS (INCLUDING NEW PLANT VARIETIES)
The number of active patents and vegetal varieties registered in 2016 by the university (both ownership and co-ownership), including their various international extensions.
REPORT ON U.N. SUSTAINABLE DEVELOPMENT GOALS

Working Group

Francesco Ubertini - Rector
Angelo Paletta - Delegate on Budget
Tullia Gallina Toschi - Delegate on Occupational well-being
Giulio Ecchia - Full Professor on Political Economy
Benedetta Siboni - Associate Professor on Accounting
Daniela Sangiorgi - Research Fellow on Accounting
Marco Degli Esposti - Director General
Elisabetta de Toma - Head of Administrative Division - ARAG – Finance and Subsidiaries Division
Alice Corradi – Head of Administrative Division – APOS – Personnel Division
Giuseppe Conti – ARIC – Research and Third Mission Division
Andrea Braschi – AUTC – Buildings and Works management
Camilla Valentini, Danilo Roberto Cinti, Anna Rita D’Archi, Enrico Goli, Giancarlo Gentiluomo, Gian Piero Mignoli, Luca Ramazzotti, Anja Riceputi
ARAG – Evaluation and Strategic Planning Unit
Mirella Cerato, Vincenza Ferraro, Alex Rinaldi, Michela Versari
SSRD – Communication Unit
Alberto Amuri, Anna Muraro, Stefano Piazza, Susi Poli
AMC – Research and Third Mission Division

CONTACTS AND FURTHER INFORMATION

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