REPORT ON U.N. SUSTAINABLE DEVELOPMENT GOALS

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

2017
REPORT ON U.N. SUSTAINABLE DEVELOPMENT GOALS

INTRODUCTION ................................................................. 4

ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA
KEY FACTS ................................................................. 6

ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA
U.N. SDG HIGHLIGHTS .................................................... 8

1. NO POVERTY .................................................................. 10

2. ZERO HUNGER ............................................................ 12

3. GOOD HEALTH AND WELL-BEING .............................. 14

4. QUALITY EDUCATION ................................................ 18

5. GENDER EQUALITY .................................................... 22

6. CLEAN WATER AND SANITATION ............................... 26

7. AFFORDABLE AND CLEAN ENERGY ............................ 28

8. DECENT WORK AND ECONOMIC GROWTH ................. 32

9. INDUSTRY, INNOVATION AND INFRASTRUCTURE .......... 36

10. REDUCED INEQUALITIES .......................................... 42

11. SUSTAINABLE CITIES AND COMMUNITIES ................. 44

12. RESPONSIBLE CONSUMPTION AND PRODUCTION ........ 48

13. CLIMATE ACTION .................................................... 50

14. LIFE BELOW WATER ................................................ 52

15. LIFE ON LAND .......................................................... 54

16. PEACE, JUSTICE AND STRONG INSTITUTIONS ............. 56

17. PARTNERSHIPS FOR THE GOALS ............................... 60

WHAT THEY SAY ABOUT US ........................................... 64

METHODOLOGICAL NOTE .............................................. 66
Consistent with the perspective adopted in the Strategic Plan 2016-2018, and in continuity with the effort of extensively reporting started since the publication of the Social Report and the Gender Report, the University of Bologna adopts 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 organisational, 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. Last version of this report has been presented at the G7 Environment held in June 2016 in Bologna (Italy), and also it has been mentioned by the International Association of Universities, OnuItalia.com and Sustainable Development Solution Network Australia/Pacific.

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 formulate this 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

30 RESEARCH PAPERS
PER DAY

11,000 RESEARCH PAPERS
PER YEAR

152 RESEARCH PROJECTS
7PQ-H2020-LIFE-INTERREG
The funded projects create networks with over 1200 partners, 470 of which are private

2,777 INCOMING
3,465 OUTGOING

> 30
> 11,000

STUDENTS IN THE CAMPUSES

BOLOGNA
66,455

RAVENNA
3,287

CESENA
5,967

FORLÌ
4,586

RIMINI
4,949

85,244
TOTAL NUMBER OF STUDENTS
ENROLLED IN DEGREE PROGRAMMES
OF ALL LEVELS, PHDS, MASTERS, POSTGRADUATE TRAINING AND LIFELONG LEARNING PROGRAMMES

4,949
INTERNATIONAL STUDENTS

STUDENTS’ INTERNATIONAL MOBILITY

215 DEGREE PROGRAMMES
(61 INTERNATIONAL)

110
FIRST CYCLE DEGREE PROGRAMMES

92
SECOND CYCLE DEGREE PROGRAMMES

13
SINGLE CYCLE DEGREE PROGRAMMES
ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
U.N. SDG HIGHLIGHTS

4,405 Course Units According to Sustainable Development Goals

<table>
<thead>
<tr>
<th>Sustainability Related Course Unit</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical and Health</td>
<td>603</td>
</tr>
<tr>
<td>Natural and Life Sciences</td>
<td>654</td>
</tr>
<tr>
<td>Technology and Engineering</td>
<td>1,150</td>
</tr>
<tr>
<td>Management and Social Sciences</td>
<td>1,023</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>975</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4,405</strong></td>
</tr>
</tbody>
</table>

152 Research Projects According to Sustainable Development Goals

<table>
<thead>
<tr>
<th>Sustainability Related Research Projects</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical and Health</td>
<td>18</td>
</tr>
<tr>
<td>Natural and Life Sciences</td>
<td>31</td>
</tr>
<tr>
<td>Technology and Engineering</td>
<td>12</td>
</tr>
<tr>
<td>Management and Social Sciences</td>
<td>83</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>152</strong></td>
</tr>
</tbody>
</table>
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 registered in single learning activities for the Academic year 2017/2018 and 9 refugees enrolled in degree programmes for the Academic year 2017/2018. Most of these students come from Sub Saharan Africa (Ethiopia, Nigeria, Ghana, Gambia, Guinea, Mali, Somalia, Sudan, Liberia, Uganda), some others come from Pakistan, Mongolia, Syria, Ukraine. Among the projects developed by Unibo4Refugees in 2017, there is the construction of a new stable at the Department of Veterinary Medical Sciences of the Alma Mater. Donated by the Archbishop of Bologna, Matteo Maria Zuppi, will allow two young people requesting international protection to continue their path of work placement.
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

THIRD MISSION

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

EUROPE: 2
AFRICA: 1
SOUTH AMERICA: 1
ASIA: 2

TEACHING

- 98 COURSE UNITS
- 4 COLLABORATIONS, TEACHING, MOBILITY (3 EUROPE, 1 AFRICA)
- 6,237 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

- 11 PUBLICATIONS IN SCOPUS 2007-2017
- 150 "CITED BY" IN SCOPUS
- PUBLICATIONS PER CAPITA INDEX NUMBER: 65 INTERNATIONAL BENCHMARKING = 100
- PUBLICATIONS PER CAPITA INDEX NUMBER: 72 NATIONAL BENCHMARKING = 100
- 11 H2020 FP7 LIFE-INTERREG RESEARCH PROJECTS (3,799,895€)
- 8 INDEX

H2020-FP7
LIFE-INTERREG
RESEARCH
PROJECTS
3. ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES

TEACHING

791 COURSE UNITS
9 COLLABORATIONS, TEACHING, MOBILITY (EUROPE: 8, ASIA: 1)

58,512 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

<table>
<thead>
<tr>
<th>DEGREE PROGRAMME</th>
<th>STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacy and Biotechnology</td>
<td>3,146</td>
</tr>
<tr>
<td>Medicine and Surgery</td>
<td>5,964</td>
</tr>
<tr>
<td>Psychology</td>
<td>3,327</td>
</tr>
<tr>
<td>Medical Specialization</td>
<td>1,014</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13,451</strong></td>
</tr>
</tbody>
</table>

RESEARCH

95 PUBLICATIONS IN SCOPUS 2007-2017
8,269 “CITED BY” IN SCOPUS

PUBLICATIONS PER CAPITA
INDEX NUMBER 76
INTERNATIONAL BENCHMARKING = 100

PUBLICATIONS PER CAPITA
INDEX NUMBER 63
NATIONAL BENCHMARKING = 100

H INDEX 26
H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (13,687,655 €)
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: 3

INSTITUTION

<table>
<thead>
<tr>
<th>UNIBO STAFF WORKING IN HOSPITALS</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching staff</td>
<td>265</td>
</tr>
<tr>
<td>Technical-administrative staff</td>
<td>129</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 services: students, families, companies, institutions, etc.

The system envisages the periodic 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) collected both by the University and by the National Agency for the Evaluation of the University and Research System (ANVUR).

For each study programme, the outcome of the analysis is a self-evaluation report, in which strengths and weaknesses are identified and concrete actions for improvement are planned.

After the study programmes have completed their activities, the Joint Teacher-Student Committees and the University Quality Committee examine the documentation, in order to monitor the functioning of the self-assessment activities and identify ideas for improving the quality of teaching, based on an overview of all the degree programmes offered by the University.

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>47.2%</td>
</tr>
<tr>
<td>Incoming exchange students</td>
<td>2,777</td>
</tr>
<tr>
<td>International students (UE and Extra-UE)</td>
<td>7.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIAL INCLUSION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Value of scholarships (merit and status based)</td>
<td>25,920,694</td>
</tr>
<tr>
<td>Students followed by the Service for disabled</td>
<td>625</td>
</tr>
<tr>
<td>Enrolled students by gender</td>
<td>M 44.6%</td>
</tr>
<tr>
<td></td>
<td>F 55.4%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROGRAMMES OFFERED AND MAIN RESULTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree programmes</td>
<td>215</td>
</tr>
<tr>
<td>Degree programmes taught in English</td>
<td>47</td>
</tr>
<tr>
<td>Masters’ programmes and post-graduate/lifelong learning programmes</td>
<td>97</td>
</tr>
<tr>
<td>Courses with at least three quarters of students satisfied with the course</td>
<td>75%</td>
</tr>
<tr>
<td>Graduates</td>
<td>18,068</td>
</tr>
<tr>
<td>Graduates within regular enrollment</td>
<td>84.2%</td>
</tr>
</tbody>
</table>
4. QUALITY EDUCATION

RESEARCH

- 502 publications in Scopus 2007-2017
- 12,433 "cited by" in Scopus
- 51 H-index

PUBLICATIONS PER CAPITA INDEX NUMBER
- INTERNATIONAL BENCHMARKING = 100
- NATIONAL BENCHMARKING = 100

THIRD MISSION

- 2,204 students on lifelong learning programmes
- 1,73 teachers on lifelong learning programmes
- And 8,900 enrolled to obtain university credits for qualification

INSTITUTION

- Trained people in 2017: 1,424 (48% on UNIBO staff)

GUIDANCE (CURRENT AND OUTGOING STUDENTS) 2017

- Curricular internships: 19,978
- Professional internship: 980
- Career Days participants: 2,816
- Recruiting Day participants: 1,267
- Job Days (School of Agriculture and Veterinary Medicine) participants: 540
- Job Placement - web site visitors: 69,646
- Job Placement service: no. of participants to Companies presentations: 1,333
- No. of beneficiaries of the Guidance - Education and Support to Entrepreneurship services: 3,520

RESEARCH PRODUCTS

<table>
<thead>
<tr>
<th>No.</th>
<th>Articles</th>
<th>Chapters</th>
<th>Books</th>
<th>Proceedings</th>
<th>Translations</th>
<th>Patents/licences</th>
<th>Other</th>
<th>Research-related activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles</td>
<td>5,866</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chapters</td>
<td></td>
<td>1,637</td>
<td></td>
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<tr>
<td>Books</td>
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<td></td>
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<tr>
<td>Proceedings</td>
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<td></td>
<td></td>
<td>988</td>
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</tr>
<tr>
<td>Translations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>49</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patents/licences</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
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<td>77</td>
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<td>Research-related activities</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9,223</td>
</tr>
</tbody>
</table>

Data updated to 2017
5. ACHIEVE GENDER EQUALITY AND EMPOWER ALL WOMEN AND GIRLS

### INTEGRATED RESEARCH TEAM - IRT ALMA GENDER

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 2017 were published 32 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 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 peculiarities and needs of each single University or Research Center.

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 analysis carried out through the valuable collaboration of its researchers, professors, Vice-Rectors and Rector technicians and administrative staff, during the Gender Audit phase of the PLOTINA project, that has been undertaken from February to December 2016. The measures are addressed to specific beneficiaries, being the main target of the GERI 4 call “female researchers”. The individual measures were specifically foreseen for the years 2017 - 2020 (total duration of the PLOTINA project) and will be verified through the use of indicators and by peer-reviewers.
## 6. Ensure Availability and Sustainable Management of Water and Sanitation for All

### Teaching
- **72** Course Units

### Research
- 264 Publications in Scopus 2007-2017
- 3,171 “Cited by” in Scopus
- **33** Publications per capita index number: 97
- **100** Publications per capita international benchmarking: 100

### Institution

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Consumption /Year (M³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>1,381,404</td>
</tr>
<tr>
<td>2016</td>
<td>824,067</td>
</tr>
<tr>
<td>2017</td>
<td>422,130</td>
</tr>
</tbody>
</table>

- **More than 75% of installed appliances are water efficient**
- **4 H2020-FP7 LIFE-INTERREG Research Projects (1,430,153 €)**
- **97** Research Publications per capita index number
- **100** National benchmarking = 100
- **72** Course Units
- **4,968** Students who could choose the course units
7. ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY

TEACHING

- 168 COURSE UNITS
- 8,086 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

- 195 PUBLICATIONS IN SCOPUS 2007-2017
- 2,901 "CITED BY" IN SCOPUS
- 32 H INDEX
- 122 PUBLICATIONS PER CAPITA INTERNATIONAL BENCHMARKING = 100
- 104 PUBLICATIONS PER CAPITA NATIONAL BENCHMARKING = 100
- 9 H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (2,455,032 €)

INTEGRATED RESEARCH TEAM - IRT ALMA LOW CARBON

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.
7. AFFORDABLE AND CLEAN ENERGY

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>

1,426,186 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

THIRD MISSION

ENGAGEMENT IN ACADEMIC ENTREPRENEURSHIP

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 builds:

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

Academic entrepreneurship

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

TEACHING

- 364 COURSE UNITS
- 69.7% GRADUATES EMPLOYED
- 24,152 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

- 78 PUBLICATIONS IN SCOPUS 2007-2017
- 1,211 “CITED BY” IN SCOPUS
- 364 PUBLICATIONS IN SCOPUS 2007-2017

H-index

- 20

INTERNATIONAL BENCHMARKING = 100

NATIONAL BENCHMARKING = 100

2 H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (713,420 €)

30 SPIN OFFS AND START UPS
INITIATIVES TO SUPPORT ADMINISTRATIVE STAFF WITH DISABILITIES: 230

The University pays particular attention to people with disabilities or in situations of personal hardship, to whom specific initiatives aimed at inclusion are promoted. Among these initiatives there is the creation of the Mobility and Labor Protection Office. The objective of this office is to promote targeted placement throughout the working life. Among the planned actions are: the promotion of actions aimed at the protection of individuals and the management of situations of conflict and criticism, support in the provision of aids and adaptations of environments, organize focus groups with subject specialists for the analysis of critical situations, carry out a mapping permanent status of disabilities in the University, etc. This is accompanied by a widespread policy of sensitization of working contexts and the creation of a collaboration network both within the University, between institutional figures and services in charge of work well-being, and outside the university with the local authorities interested in various aspects of disability, for a multimodal approach to critical situations. Finally, the office provides for the mandatory obligations according to the provisions of the current legislation on the right to work of persons with disabilities.

FINANCIAL PERFORMANCE 2017

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expenses for personnel</td>
<td>65.19%, within the limit of 80%</td>
</tr>
<tr>
<td>Debt-to-equity ratio</td>
<td>5.09%, within the limit of 15%</td>
</tr>
<tr>
<td>Indicator of financial sustainability</td>
<td>1.21 (higher than 1, the legal limit)</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.

**Start up day:** event organised by University of Bologna to promote the merging of skills and entrepreneurial development in young people. The aim of the event is helping students and graduates to successfully kickstart their entrepreneurial ideas and facilitating the encounter between those who have an idea (startppers) and those who want to practice their skills (players).

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.

RESEARCH

390 PUBLICATIONS IN SCOPUS 2006-2017

6,404 “CITED BY” IN SCOPUS

35 H-index

35

PUBLICATIONS PER CAPITA

INDEX NUMBER: 117

INTERNATIONAL BENCHMARKING = 100

PUBLICATIONS PER CAPITA

INDEX NUMBER: 108

NATIONAL BENCHMARKING = 100

41 H2020-FP7 - LIFE-INTERREG RESEARCH PROJECTS (19.961.492 €)

TEACHING

| 606 COURSE UNITS |
| 3 COLLABORATIONS, TEACHING, MOBILITY (EUROPE: 2, ASIA: 1) |
| 37,366 STUDENTS WHO COULD CHOOSE THE COURSE UNITS |
| 14,737,109 € TOTAL INVESTMENT FOR PhD STUDENTS (2017) |
Engagement in Academic Entrepreneurship: 
Launch Pad - Maker Space

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.

Maker space 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.
9. INDUSTRY, INNOVATION AND INFRASTRUCTURE

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

INCUBATORS

AlmaCube 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.
10. REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

**TEACHING**
- **380** Course Units
- **13** Collaborations, Teaching, Mobility (Europe)

**RESEARCH**
- **134** Publications in Scopus 2007-2017
- **2,869** "Cited By" in Scopus

**THIRD MISSION**
- **3,360** Downloads of Social Responsibility Report

**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

**TEACHING**

- **369** course units
- **2** collaborations, teaching, mobility (Europe)
- **136** publications in Scopus 2007-2017
- **1,803** "cited by" in Scopus
- **27** "H" index
- **21,280** students who could choose the course units
- **83%** students' satisfaction with classrooms (courses with at least three-quarters of students satisfied with the classrooms)

**RESEARCH**

- **11** H2020-FP7 LIFE-INTERREG research projects (4,349,163 €)
- **369** publications in Scopus 2007-2017
- **1,803** "cited by" in Scopus
- **27** "H" index

**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. Caftaneo” 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 Capelletti Geological Museum
- The Herbarium and the Botanical Gardens

PUBLIC ENGAGEMENT: EVENTS BY TYPE

INSTITUTION

GEOGRAPHICAL DISTRIBUTION OF BUILDINGS (2016)
Total 979,632.70 m²

- BOLOGNA: 37,203 m²
- CESENA: 23,010 m²
- RIMINI: 37,203 m²
- FORLÌ: 23,403 m²
- OTHER: 12,868 m²
- 251,153 m² of Smart Buildings
- 4,567,861 m² of Green Areas

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

TEACHING

- 312 COURSE UNITS
- 19,509 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

- 157 PUBLICATIONS IN SCOPUS 2007-2017
- 2,388 “CITED BY” IN SCOPUS
- PUBLICATIONS PER CAPITA INDEX NUMBER: 124
- PUBLICATIONS PER CAPITA INDEX NUMBER: 124

INSTITUTION

- RECYCLING PROGRAM FOR UNIVERSITY WASTE (GREEN METRIC 2017 ON 2016 DATA)
  - EXTENSIVE (MORE THAN 50%)
- INORGANIC WASTE TREATMENT (GREEN METRIC 2017 ON 2016 DATA)
  - FULLY RECYCLED (MORE THAN 50%)
- H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (4,310,003 €)
  - 13
13. TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACTS

### TEACHING
- 160 course units
- 6,681 students who could choose the course units

### RESEARCH
- 6 publications in Scopus 2007-2017
- 303 "cited by" in Scopus
- Publications per capita
  - Index number: 24 (International benchmarking = 100)
  - Index number: 105 (National benchmarking = 100)
- 3 H2020-FP7 Life-Interreg research projects (710,036 €)

### INSTITUTION
- 2,581 personal passes for use of public transport on favorable terms
- 6,333 mean number of bicycle around the university (Green Metric 2016 on 2015 data)
- 507 CO₂ emission over the last 12 months (tons)
- 6,150 persons passes for use of public transport on favorable terms
- 40% of electric cars in the university fleet of cars (Green Metric 2016 on 2015 data)
14. CONSERVE AND SUSTAINABLY USE THE OCEANS, SEAS AND MARINE RESOURCES FOR SUSTAINABLE DEVELOPMENT

14. LIFE BELOW WATER

TEACHING

- 55 COURSE UNITS
- 2 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)
- 2 COLLABORATIONS, TEACHING, MOBILITY (EUROPE)
- 1,984 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

- 82 PUBLICATIONS IN SCOPUS 2007-2017
- 2,072 “CITED BY” IN SCOPUS
- 19 H INDEX
- 149 PUBLICATIONS PER CAPITA INDEX NUMBER
- 216 PUBLICATIONS PER CAPITA INDEX NUMBER
- 19 H INDEX
- 6 H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (1.293,157 €)

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 Agricultural Sciences and Veterinary Medical Sciences.

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

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 works:
- 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.

TEACHING

386 COURSE UNITS
3 COLLABORATIONS, TEACHING, MOBILITY (EUROPE: 2, NORTH AMERICA: 1)
35,902 STUDENTS WHO COULD CHOOSE THE COURSE UNITS

RESEARCH

19 PUBLICATIONS IN SCOPUS 2007-2017
117 “CITED BY” IN SCOPUS
6 H-index

PUBLICATIONS PER CAPITA INDEX NUMBER: 61
INTERNATIONAL BENCHMARKING = 100
PUBLICATIONS PER CAPITA INDEX NUMBER: 100
NATIONAL BENCHMARKING = 100

H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (1,954,536 €)
## INSTITUTION

### ISTITUTIONAL ACCOUNTABILITY AND TRANSPARENCY

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

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

## STAKEHOLDERS MAP

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

### THIRD MISSION

#### INVOLVEMENT IN EXTERNAL INSTITUTIONAL ACTIVITIES: PARTICIPATION INTO THE MAGNA CHARTA OBSERVATORY

The University of Bologna widely supports the goals and activities of the Magna Charta Observatory of Fundamental Values and Rights (MCO). Founded by the University of Bologna and the European University Association, the Magna Charta Observatory is the global guardian of fundamental university values set out in the Magna Charta Universitatum and assists universities and higher education systems to operate effectively in accordance with these values.

The University of Bologna was among the first universities to sign the Magna Charta in 1988 and to declare its core values, such as academic freedom and autonomy. Since then, over 800 universities from 85 countries have signed this statement and the University of Bologna continues to support it through a number of initiatives. In 2017, it produced a conference statement on diversity and social engagement that was promoted during the 2017 G7 in Taormina and is now taking part in a pilot project to review universities values worldwide, thus continuing to strengthen the bonds between universities and society.

#### COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

<table>
<thead>
<tr>
<th>Region</th>
<th>Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUROPE</td>
<td>2</td>
</tr>
<tr>
<td>ASIA</td>
<td>2</td>
</tr>
</tbody>
</table>
17. STRENGTHEN THE MEANS OF IMPLEMENTATION AND REVITALIZE THE GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT

IRI 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.

INTEGRATED RESEARCH TEAM - IRT BRASIL

- PROMOTIONS: 90 PUBLICATIONS IN SCOPUS 2007-2017
- "CITED BY" IN SCOPUS: 2,679
- 72 COURSE UNITS
- 4,655 STUDENTS WHO COULD CHOOSE THE COURSE UNITS
- 27 H-INDEX
- 82 PUBLICATIONS PER CAPITA (INTERNATIONAL BENCHMARKING = 100)
- 78 PUBLICATIONS PER CAPITA (NATIONAL BENCHMARKING = 100)
- 4 H2020-FP7 LIFE-INTERREG RESEARCH PROJECTS (998,975 €)
17. PARTNERSHIP FOR THE GOALS

No. OF DEVELOPMENT COOPERATION INITIATIVES

- Western Balkans: 5
- North Africa: 7
- Middle East and Gulf region: 8
- Central and South America: 15
- Near East: 3
- Asia: 13
- Sub-Saharan Africa: 8

DEVELOPMENT COOPERATION: ALMAENGAGE

AlmaEngage is a virtual structure for coordinating development cooperation activities within the University of Bologna at a local and an international level. AlmaEngage is part of a broader process in which universities are opening up to the outside world, are actively engaging in social and public issues and are sharing as well as transferring knowledge to the benefit of society. This project serves as a way to promote and put in place any planned initiatives, as well as to create and implement new ones aimed at sensitizing and stimulating academic and non-academic stakeholders on the themes of development cooperation.

Within the activities of AlmaEngage, the University of Bologna has collaborated with international NGOs to identify opportunities for student mobility within development cooperation projects. As for promotion and communication, the University has recently created a photographic exhibition that shows its projects on development cooperation all over the world.

UI GREENMETRIC 2017

UI GreenMetric is an international ranking of universities, published by the Universitas Indonesia of Jakarta, focused on the evaluation of their environmental sustainability. The assessment is based on a list of items grouped including six areas: Setting and Infrastructure, Energy and Climate Change, Waste, Water, Transportation and Education. In the last edition of the ranking (2017) the University of Bologna has been ranked at position 29th in the world, and at 1st position in the Italian rank. UniBo is the national coordinator of Italian Hub of GreenMetric network, and in the September of 2017 has organized the first National and Technical workshop of UI GreenMetric in Bologna, hosting the representatives of over than 30 Italian universities.

RUS - NETWORK OF UNIVERSITIES FOR SUSTAINABLE DEVELOPMENT

The University of Bologna is a part of The Italian Network of Universities for Sustainable Development (RUS), the first experience of coordination and sharing, with the main goal to spread the culture of sustainability. The Institutional Objectives are:

- Harmonizing institutional activities and improving the management of the members environmental and social aspects, even through continuous monitoring of the state of sustainability within the Universities.
- Creating a community which is able to develop/spread/transfer/adapt national and international best practises with particular attention to sustainability in international rankings and the achievement of Sustainable Development Goals.
- Promoting projects, and developing joint initiative, in areas such as knowledge and skills transmission, education and university management, with a focus on learning and on a multi-stakeholder/ multidisciplinary blend.
- Developing a multidisciplinary approach in university programs, with the purpose of contributing in the growth of the sustainable development culture
- Training and updating the staff of Italian universities (professors, technical-administrators, collaborators and linguistic experts) on the topics of sustainable development, including teachers and professors from different levels of education, if necessary.
- Developing awareness and promotion campaigns at local, national and international level, to stimulate stakeholder engagement.
- Increasing collaboration with public bodies as well as with public and private businesses, in order to join forces and achieve RUS’ goals regarding the Third Mission of the University.
- The RUS Network actively collaborates with the Italian Alliance for Sustainable Development (AsviS) and is officially represented inside the seventeen working groups related with SDGs promotion.
The International Association of Universities, created under the auspices of UNESCO in 1950, is a membership-based organisation serving the global higher education community through: expertise & trends analysis, publications & portals, advisory services, peer-to-peer learning, events, global advocacy. The Higher Education and Research for Sustainable Development (HESD) global portal, a tool developed by the International Association of Universities; it provides access to actions and initiatives developed around the world to promote sustainability. http://www.iau-hesd.net/en/universities/3901-university-bologna.html

Sustainable Development Solution Network Australia/Pacific
Was commissioned by UN Secretary-General Ban Ki-moon in 2012 to mobilise scientific and technical expertise from academia, civil society, and the private sector to support practical problem solving for sustainable development at local, national, and global scales. The SDSN operates national and regional networks of knowledge institution, solution-focused thematic networks, and is building the SDG Academy, an online university for sustainable development.

Getting Started with the SDG in Universities - A guide for Universities, higher education institutions, and the academic sector [page 42: A selection of University annual reports]

Impresa Progetto - Electronic journal of management
Pubblicazione atti del workshop “L’Università: quale performance, come misurare, come monitorare, come rendicontoare”, in collaborazione con l’Università del Piemonte Orientale

http://www.onuitalia.com/2017/06/06/g7-environment-unibo-launches-first-sustainability-report/
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 2018 to July 2018. The data presented herein refers to 2017, as well as A.Y. 2017/18 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.

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.
INTERNATIONAL BENCHMARKING

Benchmarking includes universities within the top 10 European Universities ranked in QS World Universities Ranking 2017/2018 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 10 universities:

- UCL (University College London)
- The University Of Manchester
- Ludwig-Maximilians-Universität München - DE
- Sorbonne University - FR
- University of Copenhagen - DK
- Katholieke Universiteit Leuven - BE
- University of Leeds - UK
- Utrecht University - NL
- University of Ghent - BE
- Rheinisch-Westfälische Technische Hochschule Aachen - DE

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 10 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.

“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 Hirsch and counts the highest number of papers having at least the same number of citations. It express 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.

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 2017/2018.

- 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.

METHODOLOGICAL NOTE

Research regarding the number of publications was taken from the Scopus database, considering all articles from 2007-2017 which contain a specific sequence of keywords and an author affiliated with 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.

PUBLICATIONS IN SCOPUS

“CITED BY” IN SCOPUS

H-INDEX

NATIONAL 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 2017/2018 has a link with at least a SDG.

STUDENTS

The number of students attending a course unit “tagged” for that SD Goal in A.Y. 2017/2018.

COLLABORATIONS, TEACHING, MOBILITY

The number of collaboration, teaching and mobility projects which were active in 2017.

FP7, H2020 RESEARCH PROJECTS

The number of FP7, H2020 research projects active on 2017.

COOPERATION AND SOCIAL ENGAGEMENT RESEARCH PROJECTS

The number of cooperation and social engagement projects active in 2017.

PATENTS (INCLUDING NEW PLANT VARIETIES)

The number of active patents and vegetal varieties registered in 2017 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
Mirko Degli Esposti - Deputy Rector and National Coordinator for Italy for the UI GreenMetric Network
Angelo Paletta - Delegate on Budget
Tullia Gallina Toschi - Delegate on Occupational well-being
Giovio Ecchia - Coordinator of the Alma Mater Technical Group for H2020
Benedetta Sironi - Chair of the Guarantee Committee for Equal Opportunities, Employee Wellbeing and Non-Discrimination at Work - CUG
Riccardo Gulli - Delegate on Building and Sustainability
Alessandra Scagliarini - Pro Rector on International Relations
Paola Salamoni - Pro Rector on Digital Technologies
Alessandra Bonoli - Member of Network of Universities for Sustainable Development (RUS) for University of Bologna
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
Andrea Braschi - Head of Administrative Division - AUTC - Buildings and Sustainability Division
Camillo Valentin, Danilo Roberto Cinti, Anna Rita D'Archi, Enrico Galli, Giancarlo Gentiliuomo, Gian Piero Mignoli, Luca Ramazzotti, Anja Riceputi
ARAG – Evaluation and Strategic Planning Unit
Mirella Cerato, Vincenza Ferraro, Alex Rinaldi, Michela Versari
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Pasqua Rignanese, intern at Alma Mater, Department of Management

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