



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



Department of Agricultural and
Food Sciences | DISTAL

MISSION

Promoting
knowledge and scientific culture
in agricultural and food sciences
by advanced research



DISTAL

Born in 2018 as an integrated organisation incorporating all the teaching and research activities of the agricultural area of the University of Bologna



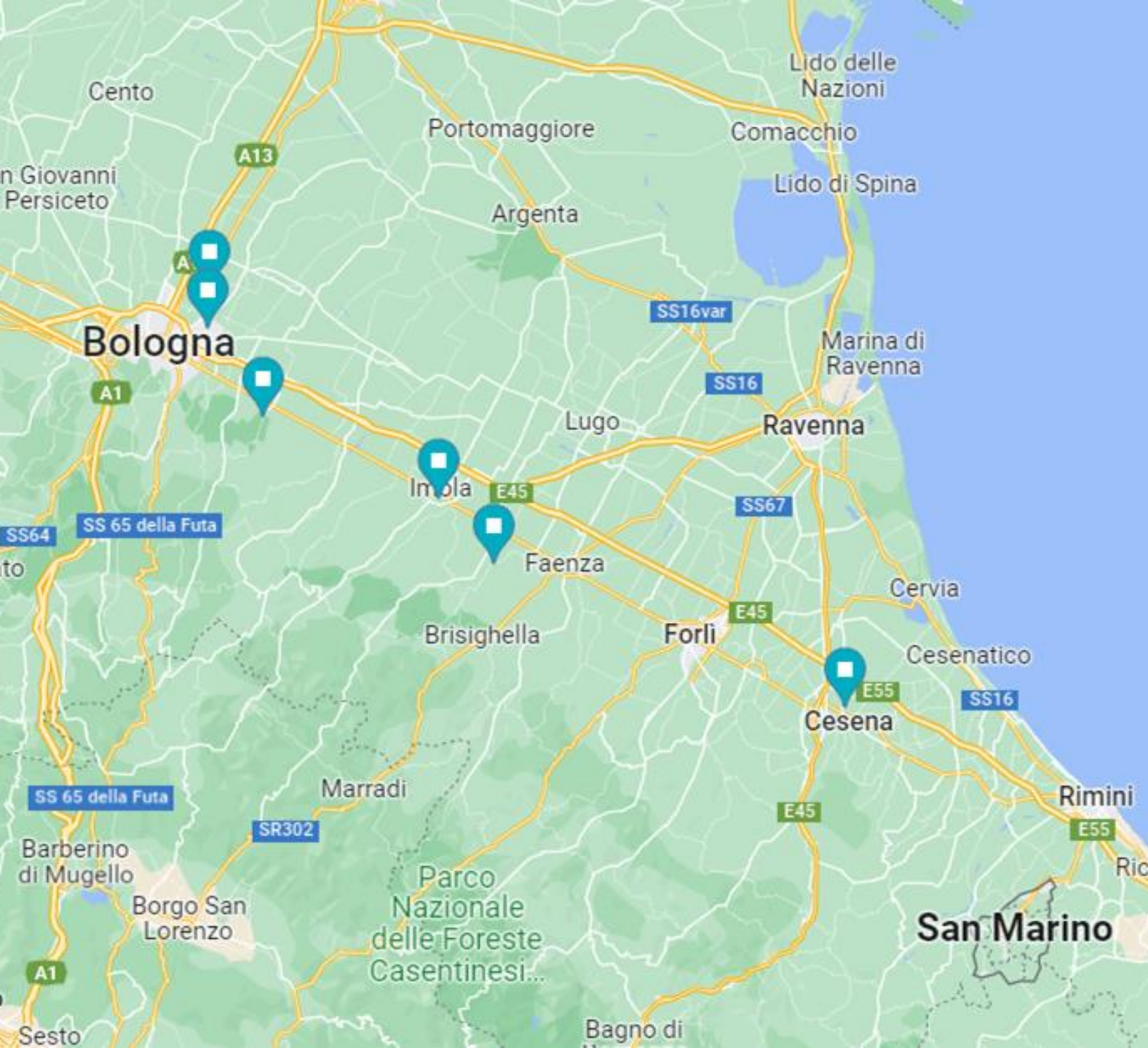
Agriculture & Forestry:
UNIBO 1st out of 21
Italian Universities



DISTAL LOCATIONS

Two main headquarters in:
Bologna (BO)
Cesena (FC)

Other teaching and research
activities in:
Ozzano (BO)
Cadriano (BO)
Imola (BO)
Tebano (RA)



DISTAL SPACES

Research labs

31 for about 5.000 m²

Teaching labs

about 1.000 m²

Computer classrooms

about 200 m²

Classrooms

more than 2.000 m²

Greenhouse

more than 2.000 m²

Green areas

more than 7.000 m²

Study/lunch rooms

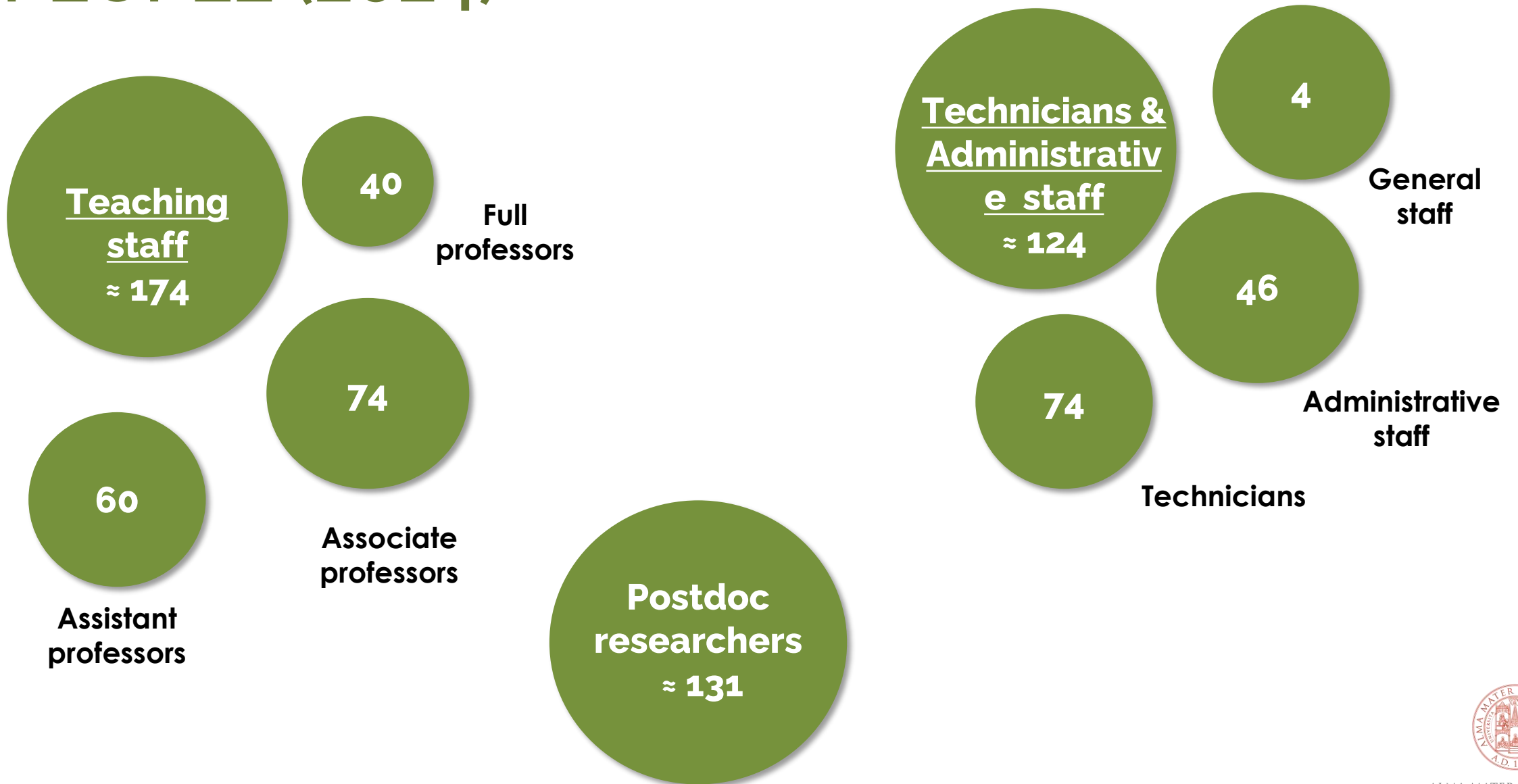
about 400 m²

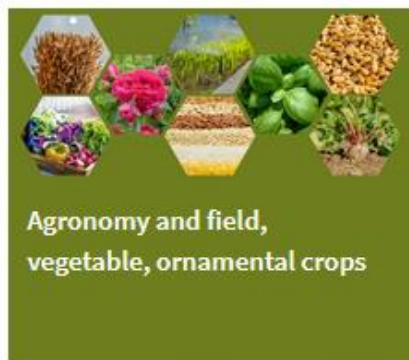
Shade structures

more than 100 m²

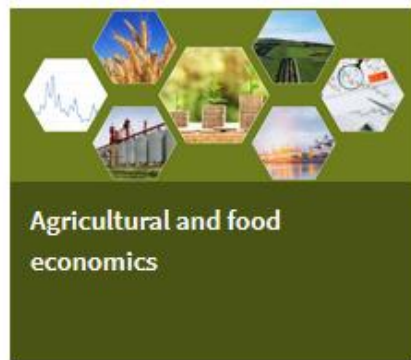


PEOPLE (2024)

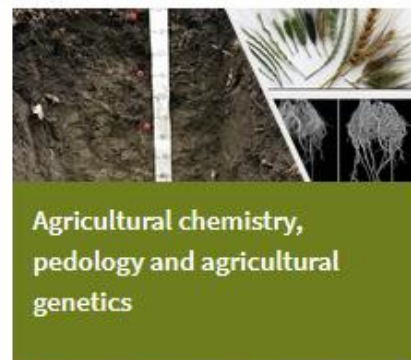




Agronomy and field, vegetable, ornamental crops



Agricultural and food economics



Agricultural chemistry, pedology and agricultural genetics



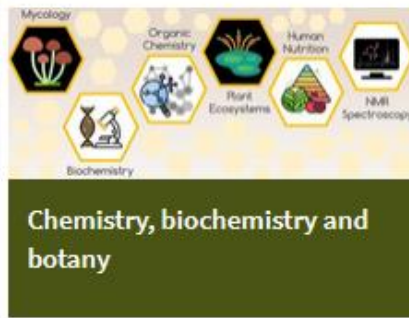
Agricultural engineering



Agro-environmental and food microbiology



Animal sciences



Chemistry, biochemistry and botany



Food science and technology



Fruit tree and woody plant sciences



Plant pathology and entomology

10 RESEARCH AREAS

- Agronomy and field, vegetable, ornamental crops
- Agricultural and food economics
- Agricultural chemistry, pedology and agricultural genetics
- Agricultural engineering
- Agro-environmental and food microbiology
- Animal sciences
- Chemistry, biochemistry and botany
- Food science and technology
- Fruit tree and woody plant sciences
- Plant pathology and entomology



**«GABRIELE GOIDANICH»
LIBRARY OF AGRICULTURE
Reference library in Bologna**



**«LEON BATTISTA ALBERTI»
CESENA CAMPUS LIBRARY - FOOD SCIENCE SECTION
Reference library in Cesena**

Main services:

- Library loan
- Interlibrary loan
- Document delivery

Useful links:

- [On-line books catalogue](#)
- [On-line Italian catalogue of journals \(ACNP\)](#)
- [University librarian system](#)

EDUCATION AND PROGRAMMES



TEACHING PROGRAMMES

4

PhD
programmes

7

Master's degree
programmes

8

Bachelor's degree
programmes



8 BACHELOR'S DEGREE PROGRAMMES



At Bologna campus

Agricultural Technology

Animal Production

Land and Agro-Forestry Technologies

Marketing and Economics of the Agro-Industrial System

At Imola campus

Sciences and Technologies for Green and Landscape

At Cesena campus

Food Technology

Sciences and Culture of Gastronomy

Viticulture and Enology



7 MASTER'S DEGREE PROGRAMMES



At Bologna campus



Agricultural Sciences and Technologies

Food Safety and Food Risk Management

International Horticultural Science

Planning and management of forest territory, landscape and environment

Precise and Sustainable Agriculture

At Imola campus

Plant and agricultural biotechnology

At Cesena campus

Food Science and Technology



STUDENTS ENROLLED (A.Y. 2023/24)

196

PhD

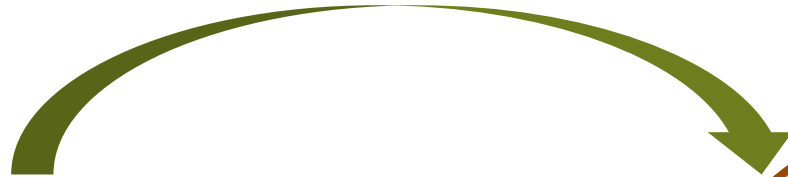
566

Master

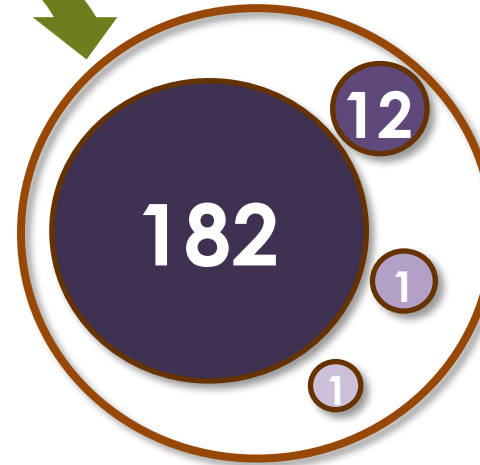
1.622

Bachelor

(702 new careers)



PhD Course -
Agricultural,
Environmental
and Food Science
and Technology
(STAAA)



PhD Course -
Health, Safety and
Green Systems

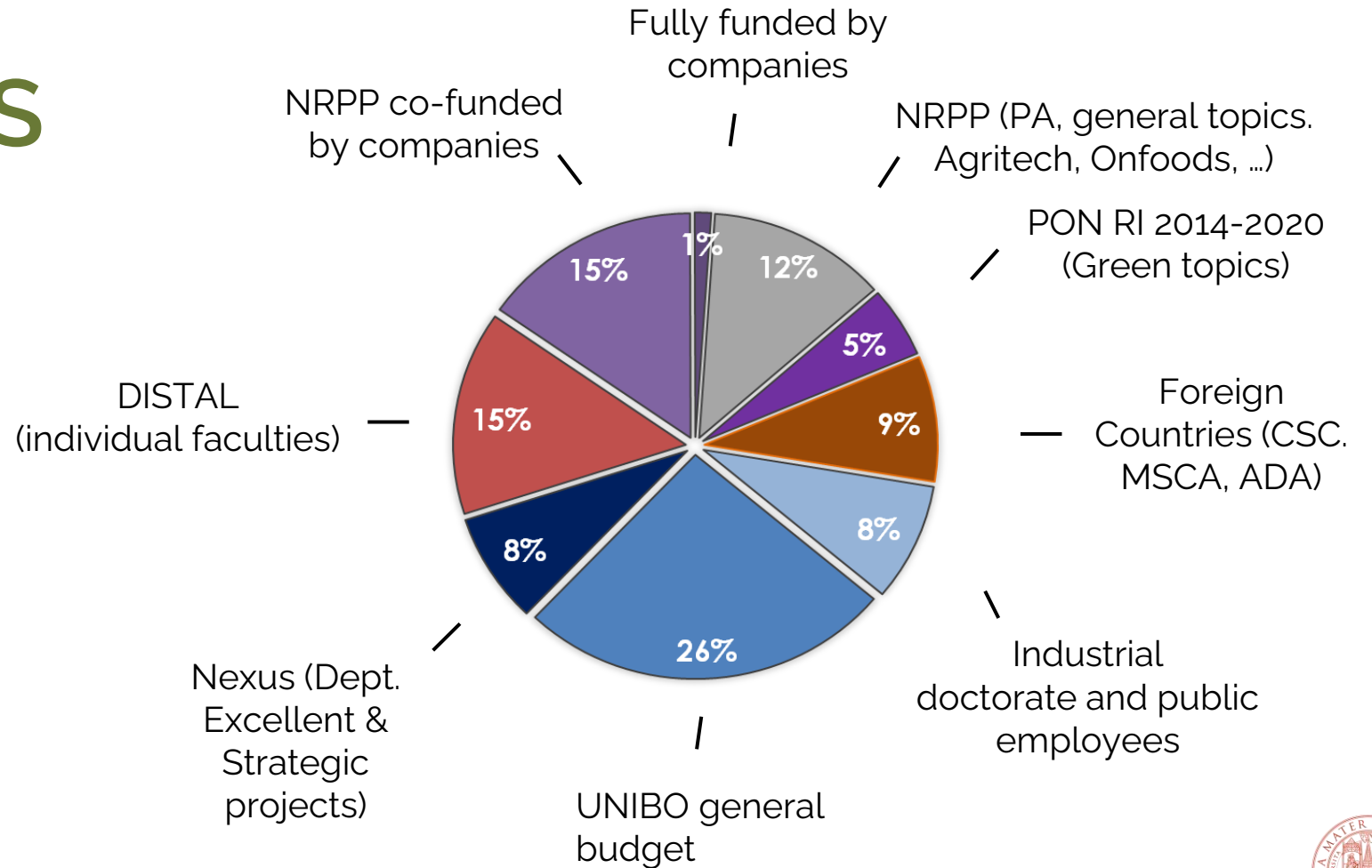
PhD Course - Future
Earth, Climate
Change and Societal
Challenges

PhD Course - Innovative
Technologies and Sustainable
Use of Mediterranean Sea
Fishery and Biological Resources
(FishMed-PhD)



DISTAL PhD PROGRAMMES

PhD positions activated (2021-2024)



STUDENTS' & GRADUATES' SATISFACTION

2023	%
Students satisfied with teaching	86
Students satisfied with infrastructure	93
Graduated students satisfied with the degree program	93
Average satisfaction of Italian students in the same degree program class	91.3

Source: RAD 2023 Focus didattica



EMPLOYMENT STATUS OF MASTER DEGREE GRADUATES

YEAR	EMPLOYED 1 YEAR AFTER DEGREE %
2020	85.1
2021	72.6
2022	88.6

Source: Alma Laurea



INTERNATIONAL DIMENSION



ENROLLED FOREIGN STUDENTS

A.Y.	%
2019/2020	5.3
2020/2021	5.7
2021/2022	5.1
2022/2023	6.3

Enrolled students with previous foreign educational qualification or foreign citizenship on total of enrolled students.

Data source: RAD 2023

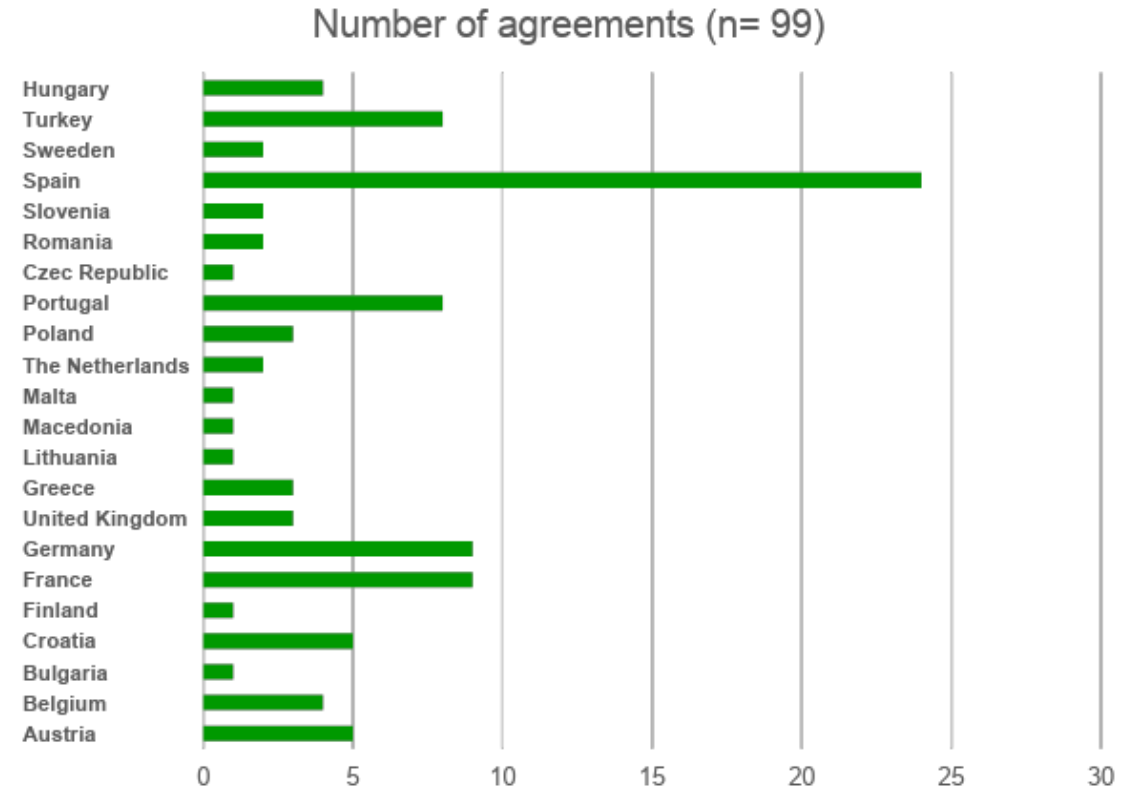


INTERNATIONAL MOBILITY WITHIN THE ERASMUS+ PROGRAMME

A.Y.	No. active Erasmus+ agreements
2019/2020	49
2020/2021	35
2021/2022	67
2022/2023	62

International agreements with at least one incoming or outgoing mobility of students or staff in indicated academic years (A.Y.)

Source: ALMA RM



Bilateral agreements for Erasmus+ programme KA1, mobility for students and staffs



EXCHANGE STUDENTS

INCOMING STUDENTS	
A.Y.	No.
2019/2020	43
2020/2021	28
2021/2022	61

Number of incoming exchange students involved in EU or extra EU mobility programmes in a.y. t/ t+1.

OUTGOING STUDENTS	
A.Y.	No.
2019/2020	67
2020/2021	44
2021/2022	91

Number of outgoing exchange students involved in EU or extra EU mobility programmes in a.y. t/ t+1.

Data source: RAD 2023



OUTGOING PhD STUDENTS

YEAR	%
2019	32.5
2020	18.2
2021	27.1
2022	31.4

Percentage of outgoing PhD students of DISTAL who have spent abroad at least 30 days on total number of PhD students enrolled in DISTAL courses.

Data source: RAD 2023



VISITING PROFESSORS & RESEARCHERS

YEAR	No.
2019	40
2020	5
2021	23
2022	41
2023	42

Number of visiting professors and PhD students from international research institutions hosted by DISTAL

Data source: ALMA RM



RESEARCH AND RESULTS



9 MULTIDISCIPLINARY THEMATIC GROUPS



Water & agriculture



Apidology & apiculture



Agriculture & climate change



Genetic resources



Precision agriculture



Soil health



Plant health



Circular bioeconomy



Big data

Activities: openDISTAL,
workshops & position papers





31 RESEARCH LABS

- Agricultural garden | Greenhouse complexes | Growth chambers
- Phytotrons & Plant Physiology Labs
- Agri-environmental Microbiology labs
- Agricultural Chemistry and Pedology Labs
- Animal Production Quality and Food Safety labs
- Experimental Economics in Agriculture, Food, Environment | FARE-La
- Applied research and food formulation | RAFA
- Enology, Beverages and Sensory Analysis | LEBS
- Nutritional Biochemistry Labs
- Chemistry, instrumental and sensory analysis of food | LACASS
- Seed Research and Testing | LaRAS
- Mycology and Applied Botany | LAMBA
- Agricultural mechanics Labs
- Food Characterization and Food Technologies | LCTA



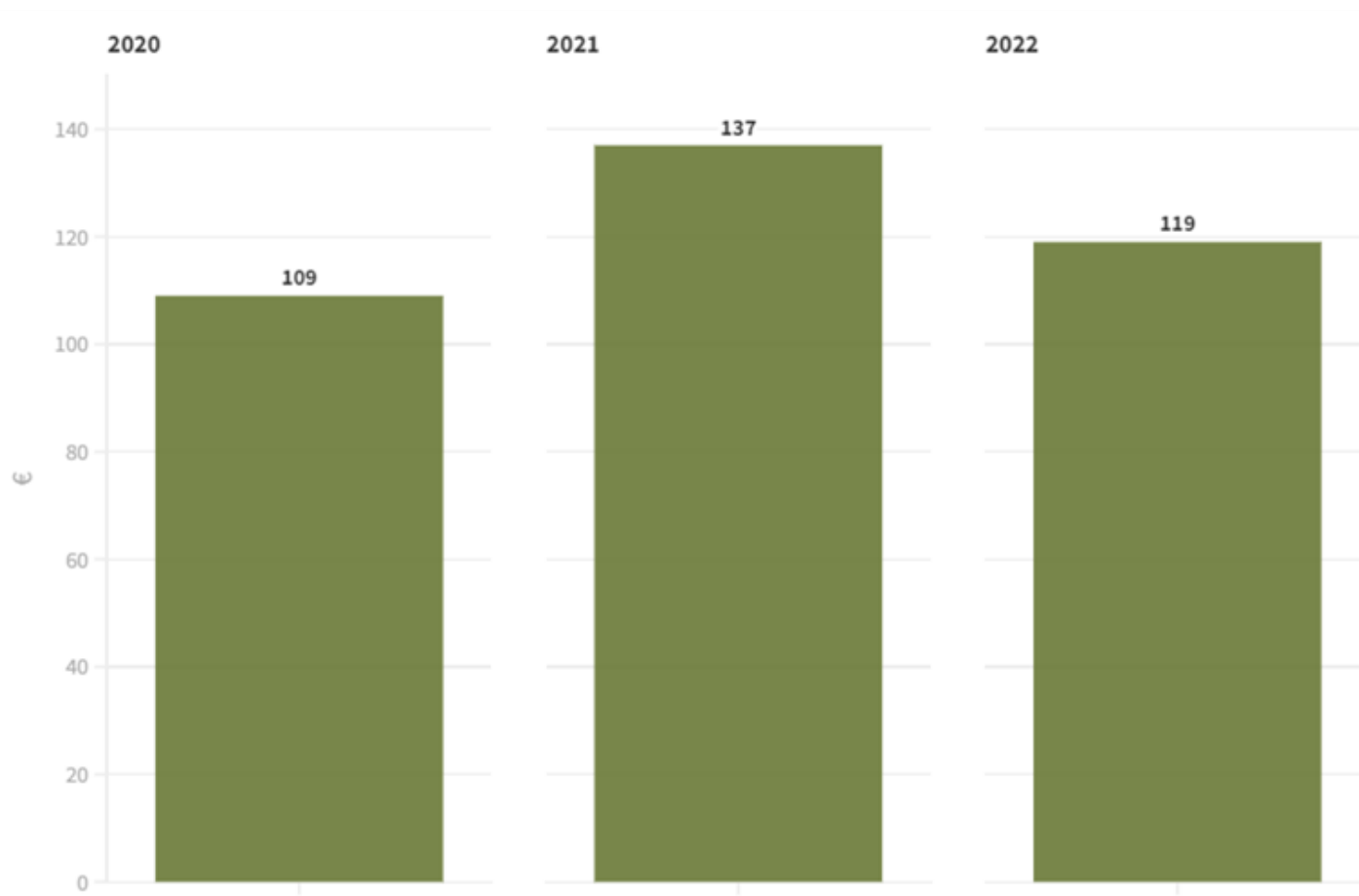
SCIENTIFIC PERFORMANCE OUTPUT (2022)

Wos/Scopus total citations	6,470
Wos/Scopus total citations by researcher	50.9
Number of publications/year	648
Number of publications/year by researcher	4.0
Publications with foreign co-authors	43.7%
Interdisciplinary publications	20.8%

Source: RAD 2023



NUMBER OF COMPETITIVE INTERNATIONAL & NATIONAL PROJECTS (2020-2022)



Source: RAD 2023

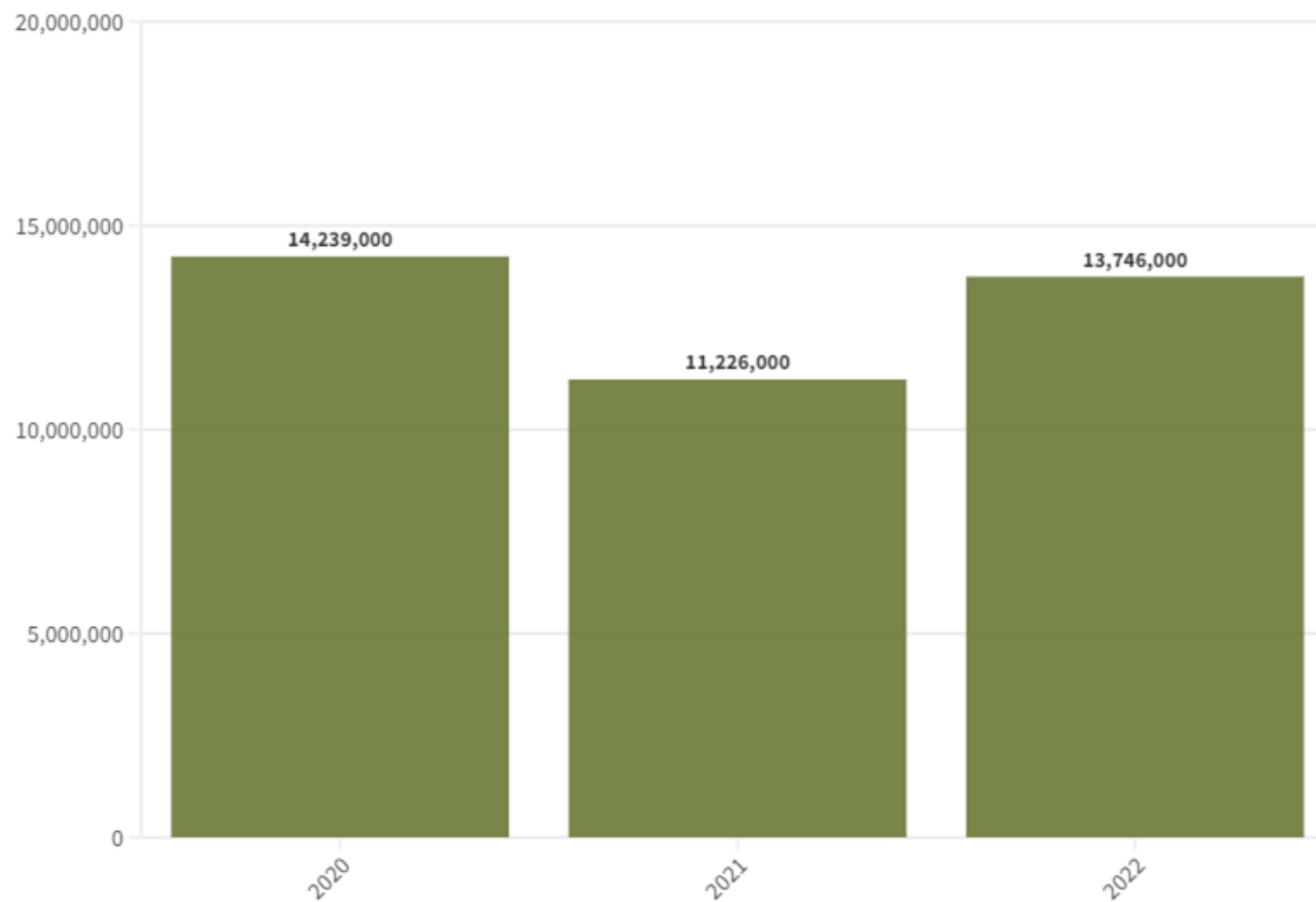


COORDINATED H2020 & HEU PROJECTS

YEAR	No. of project	Total funding (ML €)
2014	1	0.434
2015	10	3.390
2016	8	3.879
2017	8	2.423
2018	6	1.555
2019	6	3.722
2020	3	2.118
2021	1	0.192
2022	1	1.285
2014 - 2022	44	17.448



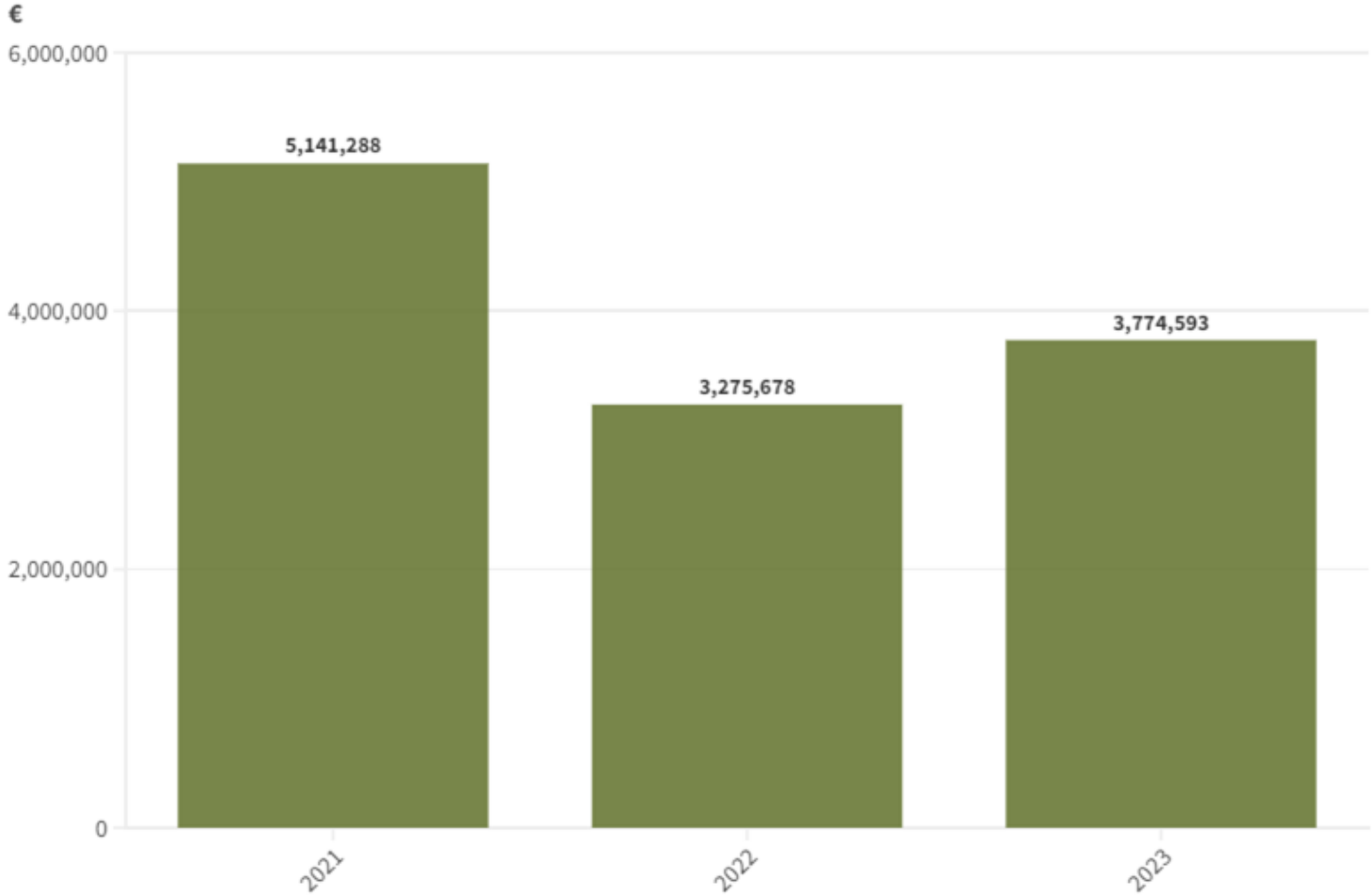
FUNDS FROM COMPETITIVE NATIONAL & INTERNATIONAL PROJECTS (2020-2022)



Source: RAD 2023



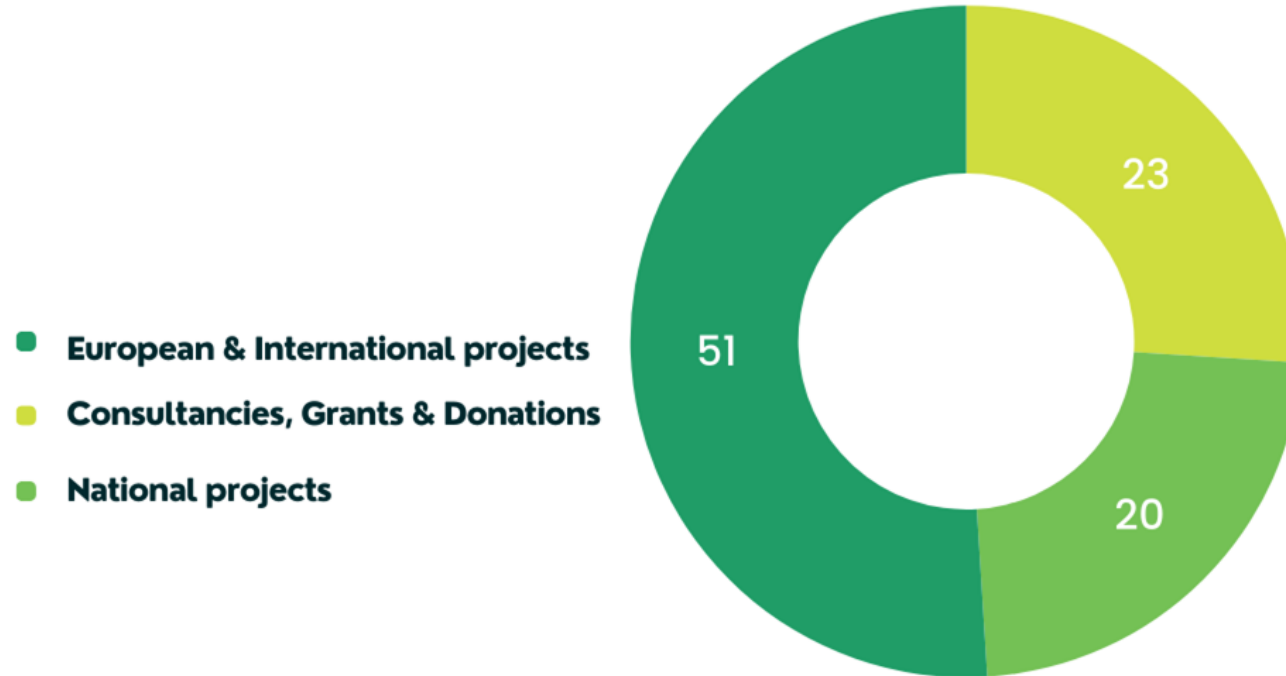
FUNDS FROM EXTERNAL CONSULTANCIES (2020-2022)



Source: RAD 2023



INCOMING FUNDS ~20 Million € per year (% average 2020-2022)



DISTAL CONTRIBUTION TO UNIVERSITY OUTREACH

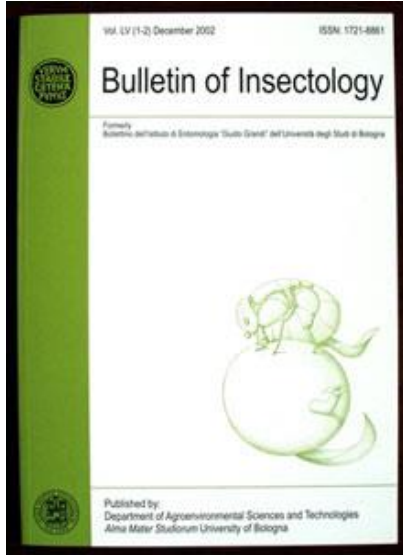


PATENTS | PLANT BREEDERS RIGHTS | SPIN-OFF

- **25 Patent Families** for a total of 83 patents
 - 58 granted
 - 25 pending
- **34 plant breeders rights (link)**
 - 16 for cherries
 - 4 for apples
 - 5 for pears
 - 9 for kiwi
- **3 Spin-off**
 - [Aquaponic Design](#)
 - [Ergo Consulting](#)
 - [Last Minute Market](#)

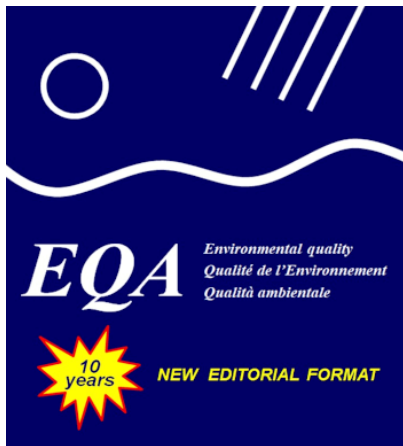


DISTAL OPEN ACCESS JOURNALS



Bulletin of Insectology

Publishes original articles mainly on morphology, biology, behaviour and physiology of insects and other arthropods; controls of insects, mites and other arthropods pests with particular reference to biocontrol and integrated pest management.



EQA – International Journal of Environmental Quality

Publishes original research or brief reviews and analyses dealing with the aspects concerning soil, water and air quality and the sustainable use of these environmental resources.



DISTAL COLLABORATIONS

154

**BUSINESS
COMPANIES**

58

**MUNICIPALITIES
CONSORTIA
ASSOCIATIONS
NGOs**





Guido Grandi found in 1926 the Entomological Institute of the University of Bologna and soon gave a strong impulse to improve the entomological collections.

The collection is composed of several entomological boxes classified under the different Insect orders:

·15 Odonata; · 4 Blattoidea; · 2 Phasmoidea; · 26 Dermaptera; · 2 Mantoidea; · 40 Orthoptera; · 102 Hemiptera; ·36 Neuroptera; 3 Trichoptera; · 4 Mecoptera; · 292 Lepidoptera; · 299 Diptera; 461 Coleoptera; · 619 Hymenoptera

The «Guido Grandi» collection presents more than **51,000 specimens** belonging to approximately 3,000 different insect species.

[Link to collection](#)



A composite image showing various microscopic views of bifidobacteria. The bacteria appear as dark, rod-shaped structures, some in pairs and some in chains. The background is light gray with some darker, out-of-focus areas. Three orange lines are overlaid on the image: one horizontal line and two diagonal lines forming a triangular shape.

BOLOGNA UNIVERSITY SCARDOVI COLLECTION OF BIFIDOBACTERIA | BUSCOB

10.000 Bacterial strains, 9.000 of which belong to Bifidobacteriaceae family
[BUSCOB website](#)



NEWS & EVENTS (2023)

128
NEWS

210
EVENTS



Source: distal website



DISTAL SOCIAL NETWORKS



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...thanks for your attention