

How to enhance transversal competences in doctoral education in various international contexts: Insights from an ongoing programme between European and Mozambican Universities



Fostering a sustainable platform to support
PhD training in Health Sciences in Mozambique

EUA-CDE Annual Meeting, “20 years of progress - Celebrating the achievements and shaping the future of doctoral education in Europe”, 4-6 June 2025, in Lausanne



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TECMINHO
UNIVERSIDADE DO MINHO INTEGRALE



Universidade de Lisboa
Escola de Medicina



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Erasmus+
capacity building
in higher education



November 2023 – October 2026



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Higher Education Institutions

Karolinska Institutet

University of Minho

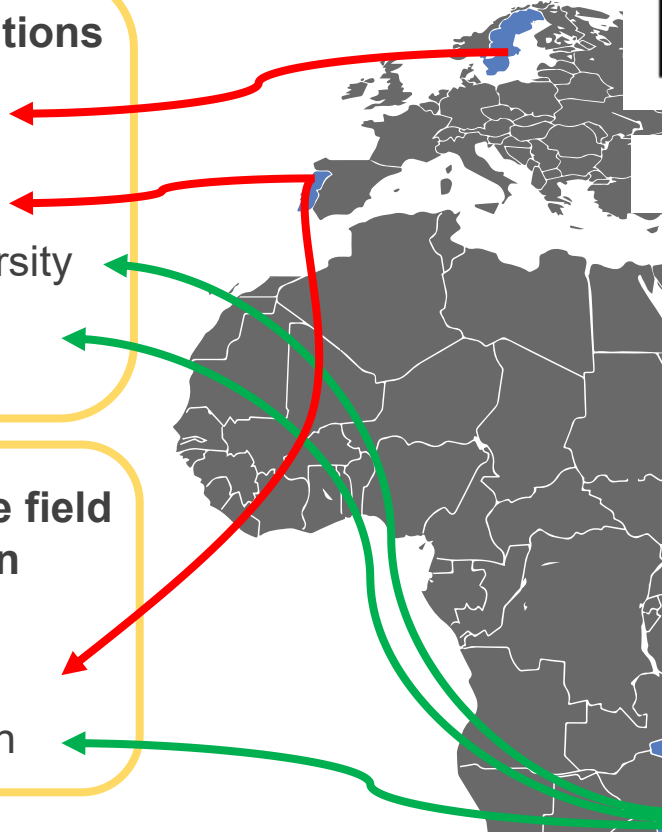
Eduardo Mondlane University

Pedagogical University of
Maputo

Institutions active in the field of Higher Education

TecMinho

National Institute of Health



orpheur

Organisation of PhD Education in Biomedicine and Health Sciences in the
European System

Associated institution;
supports voluntarily the
consortium



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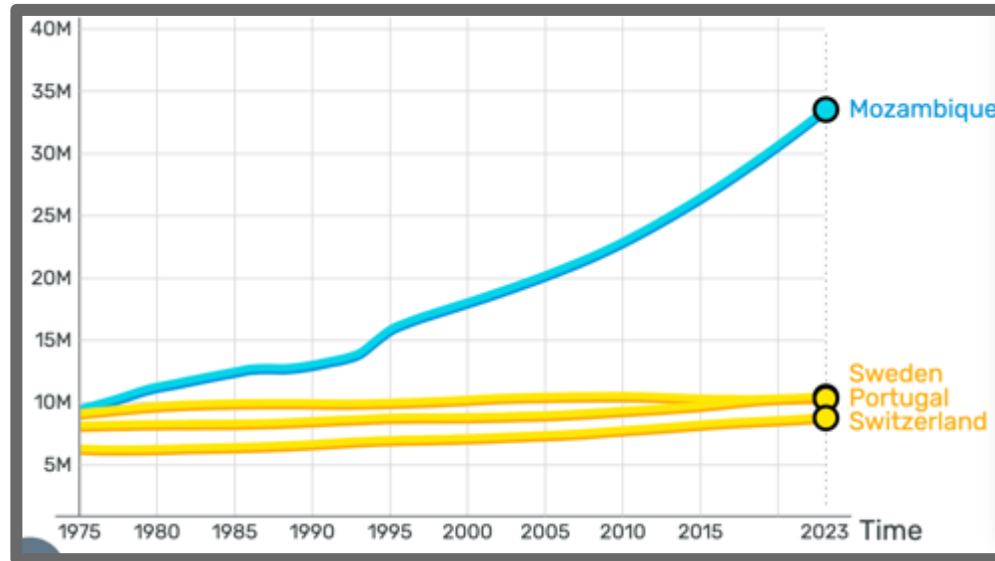
TECMINHO
UNIVERSIDADE DO MINHO INTERFACE



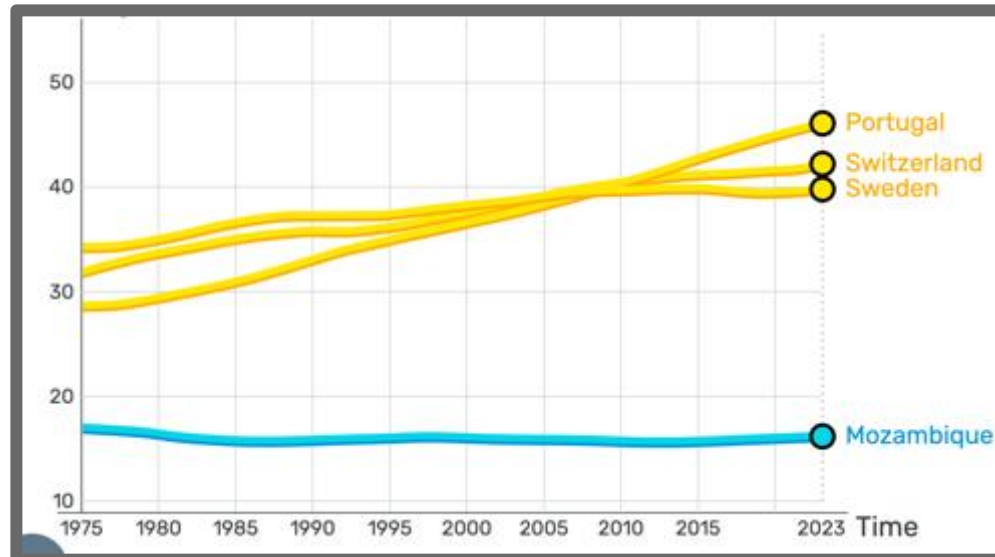
Universidade do Minho
Escola de Medicina

Mozambique

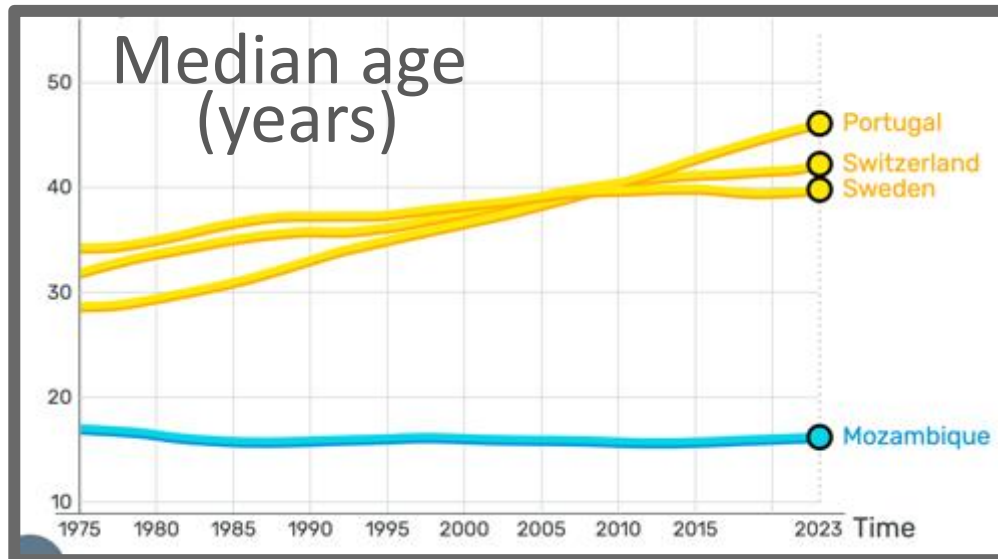
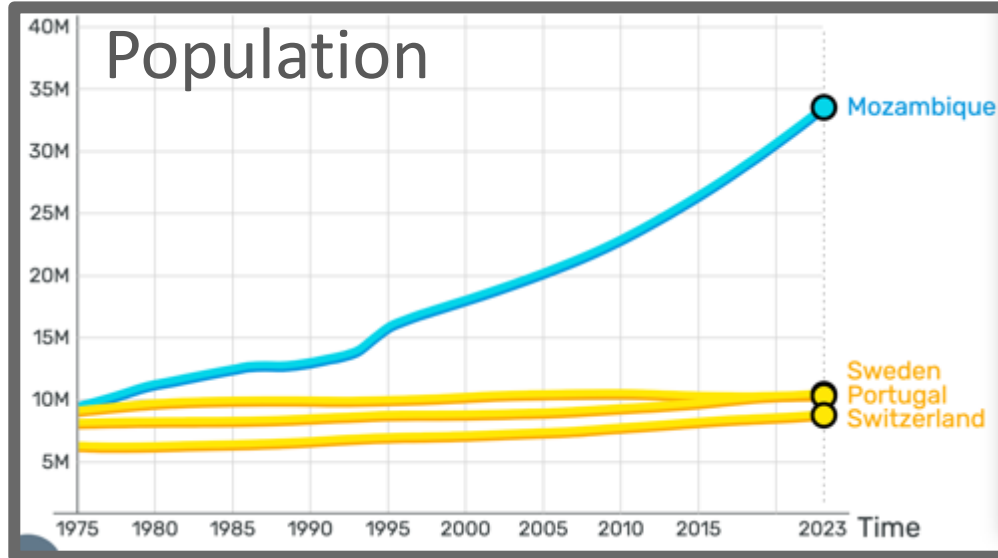
Population



Median age
(years)

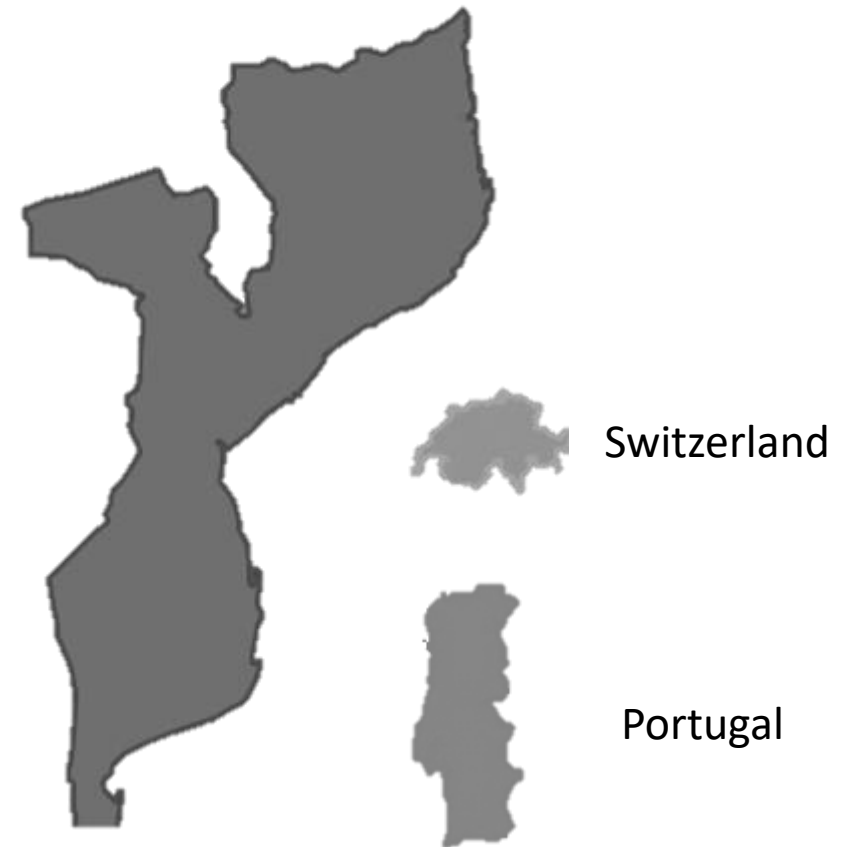
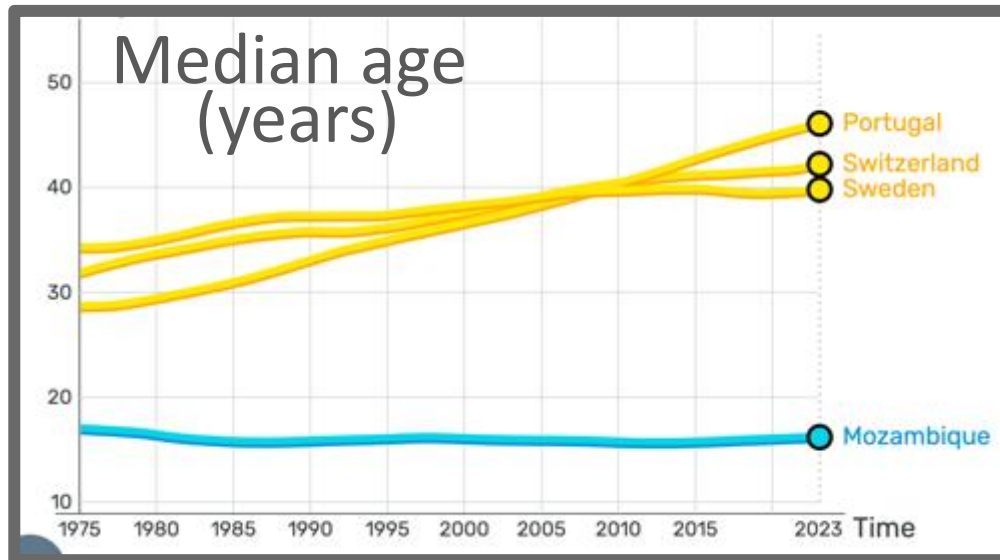
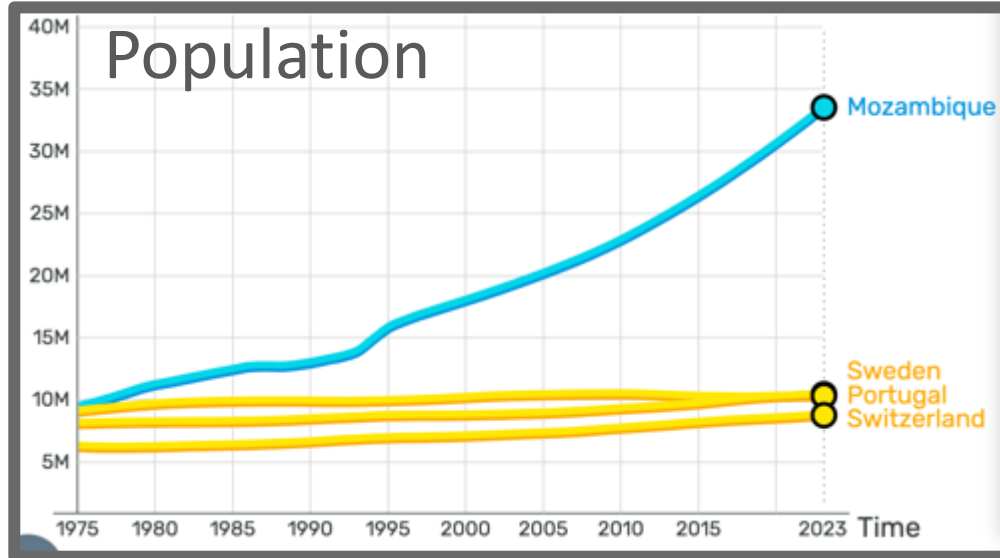


Mozambique



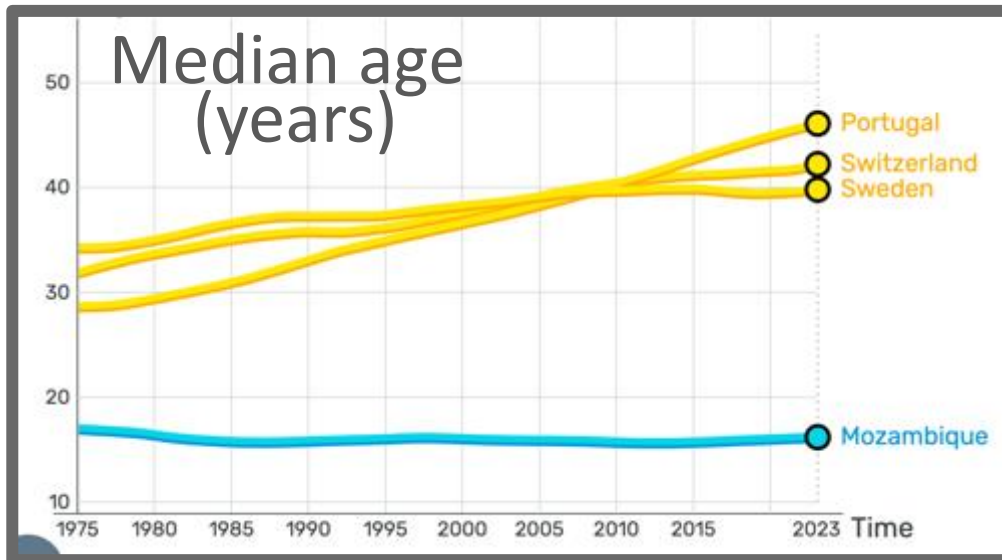
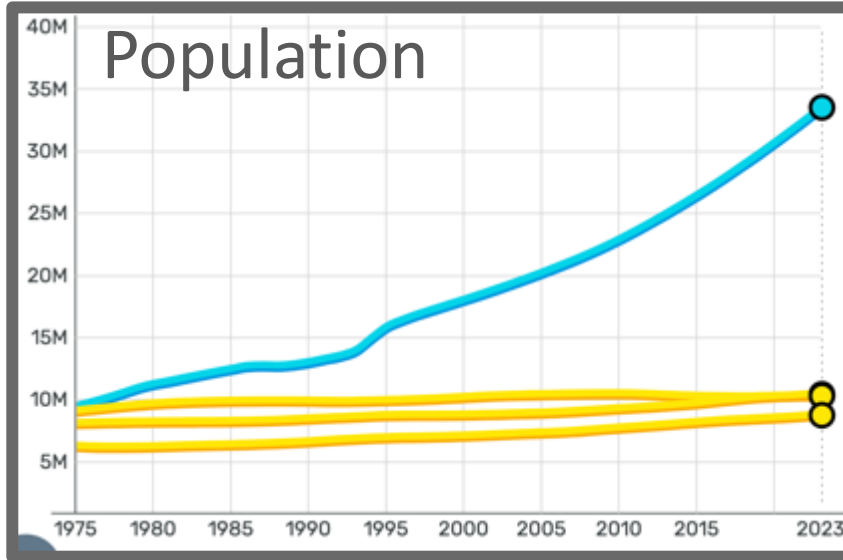
801,590 km²

Mozambique

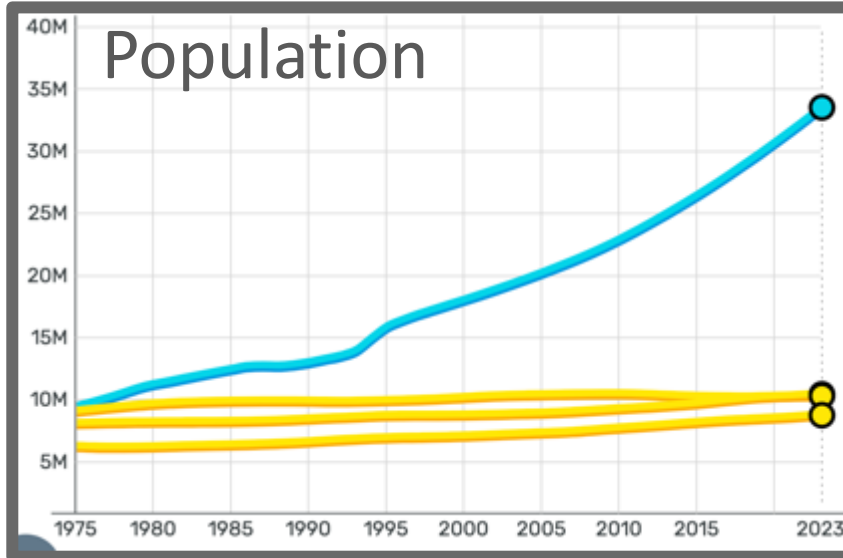


801,590 km²

Mozambique



Mozambique



Support PhD training in Mozambique is needed....



Pilar 1

transversal
skills

Pilar 2

discipline-
based
courses

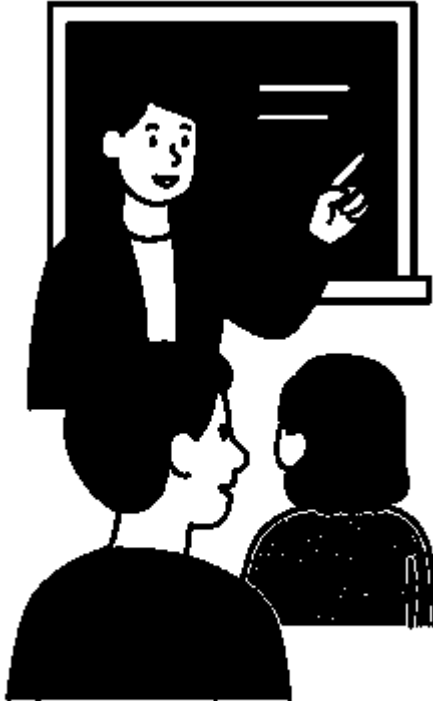
Pilar 3

supporting
PhD
supervision

Online eLearning platform

In-person versus on-line

Synchronous versus asynchronous



In-person



On-line

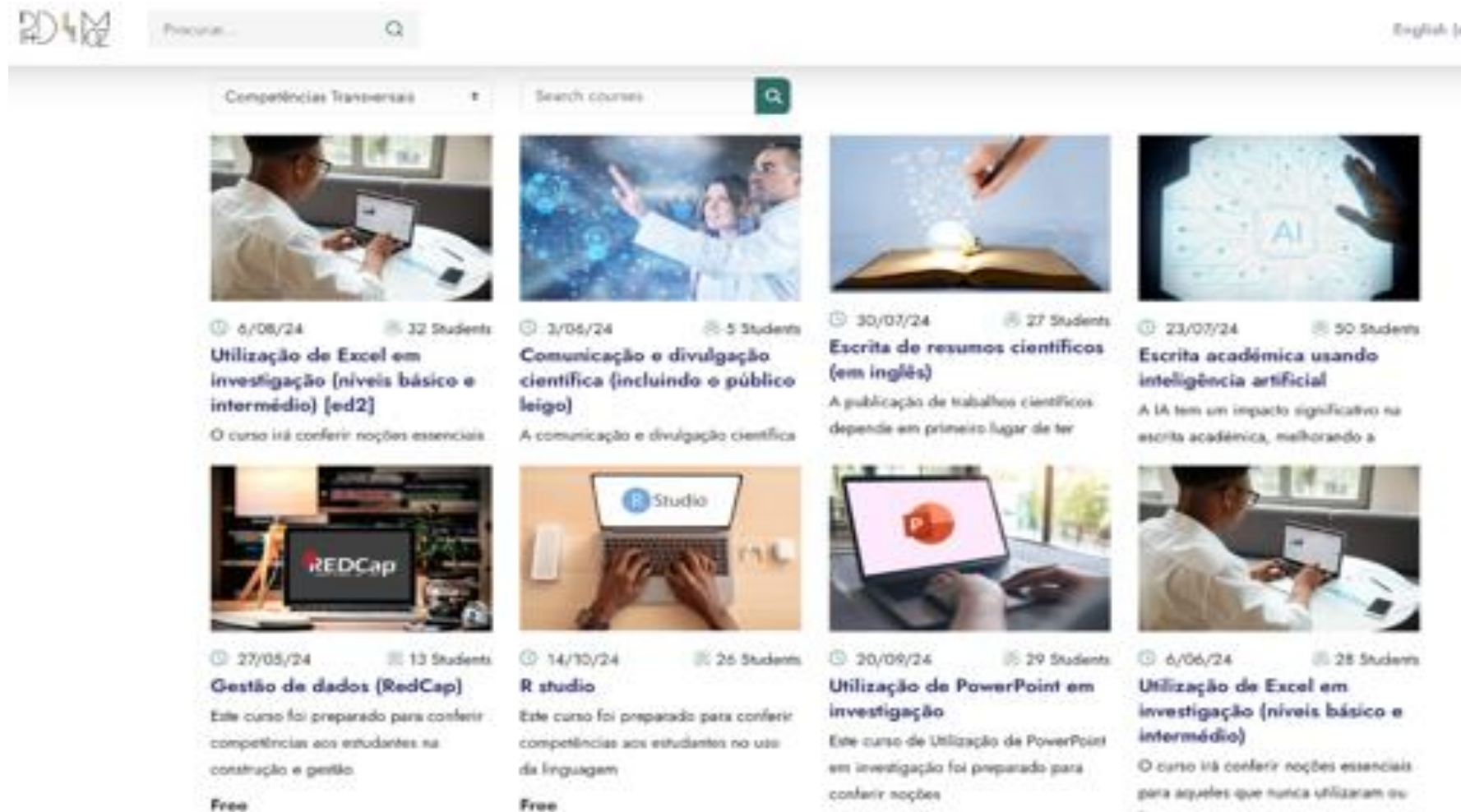


Synchronous



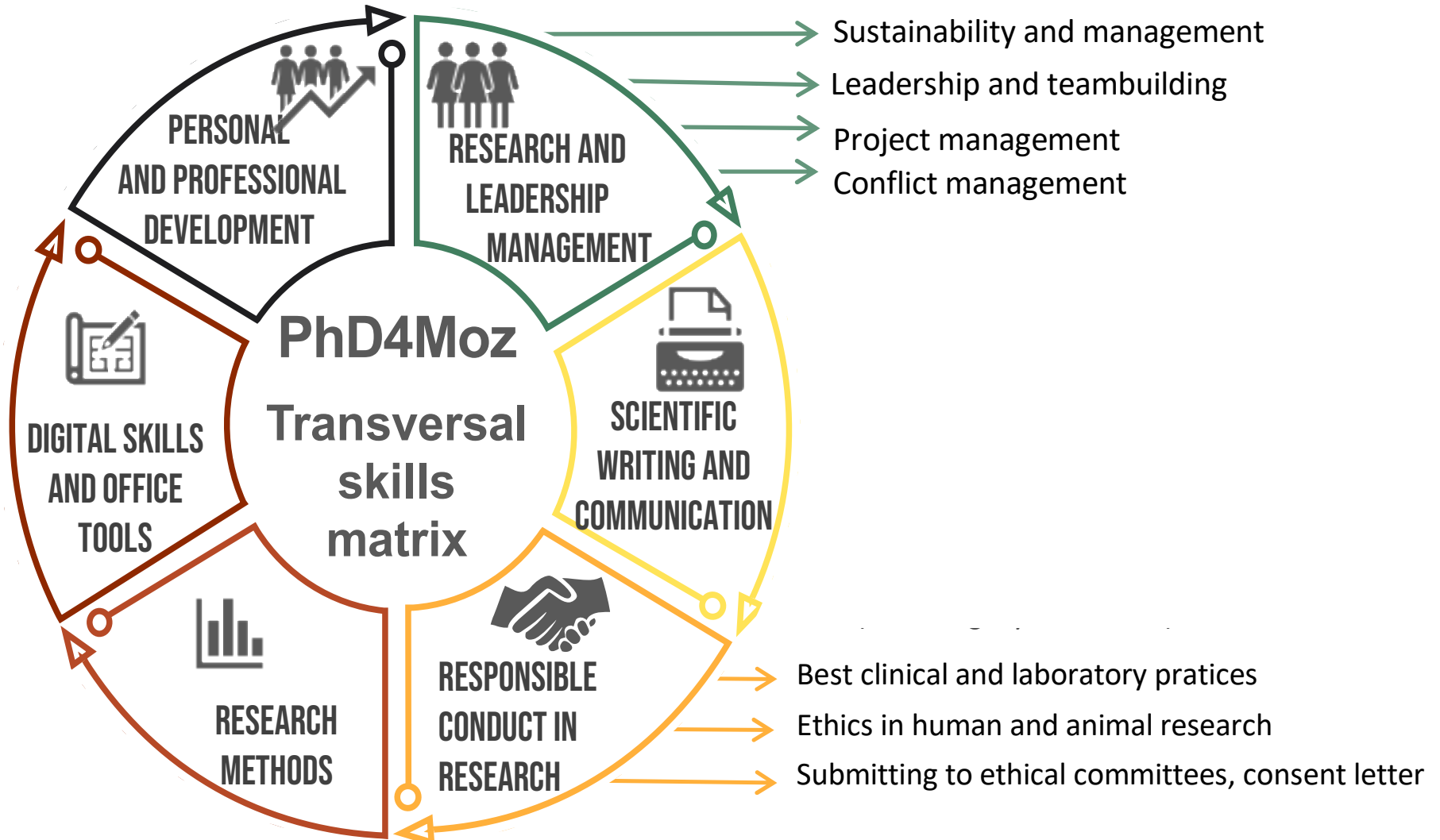
Asynchronous

PhD4Moz E-Learning platform



Used for each course.
Students can go back to the training materials.

What transversal skills do PhD students in Mozambique need the most?



Transversal skills Matrix – a continuous ongoing work



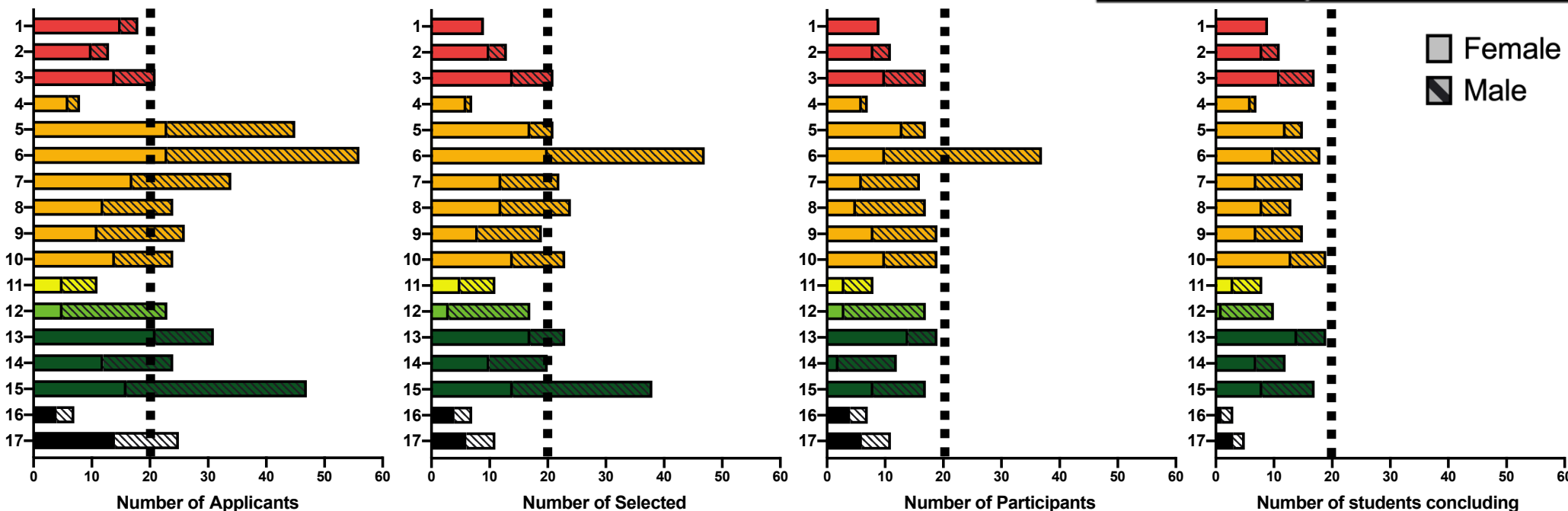
Categorias Categories		
	Português	English
	Desenvolvimento pessoal e profissional Personal and professional development	Self management strategies Career management Habits that boost success Continuous professional development Time management strategies Organization of data and documents Collaboration strategies
1 →	Competências digitais e ferramentas do office Digital skills and office tools	How to use word in research How to use Excel in research How to use Power-point in research Basic digital competences R studio Data management (RedCAP) Project management tools (Asana) Using artificial intelligence for academic writing
2 →		Power BI
3 →		SPSS
4 →		STATA
5 →	Métodos em investigação Research methods	Study design Fundamentals in biostatistics Advanced biostatistics Biomatemática Programming language Python Qualitative data analysis using MAXQDA Spatial Analysis or Geoprocessing Critical analysis of scientific papers
6 →		
7 →		
8 →		
9 →	Gestão e liderança em investigação Research and leadership management	Interpersonal communication Leadership and teambuilding Project management Public relations and protocol Identification of funding sources for science Conflict management
10 →		
	Comunicação e escrita científica Scientific writing and communication	Oral presentations (2, 10, 30 min) Communicating in Public Communication and dissemination of research (including lay audiences) Successful grant proposal writing Abstract writing (Portuguese and English) Full paper with original data writing Scientific writing Selecting key references and referentiation Systematic reviews Meta-analysis Spoken English / conversation
11 →	Conduta responsável em investigação Responsible conduct in research	Best laboratory practices in research Best practices in clinical research Ethics in animal research Ethics in clinical research Submitting to ethical committees, consent letter Research ethics and integrity Ethics and regulations in clinical trials

Transversal skills – year 1

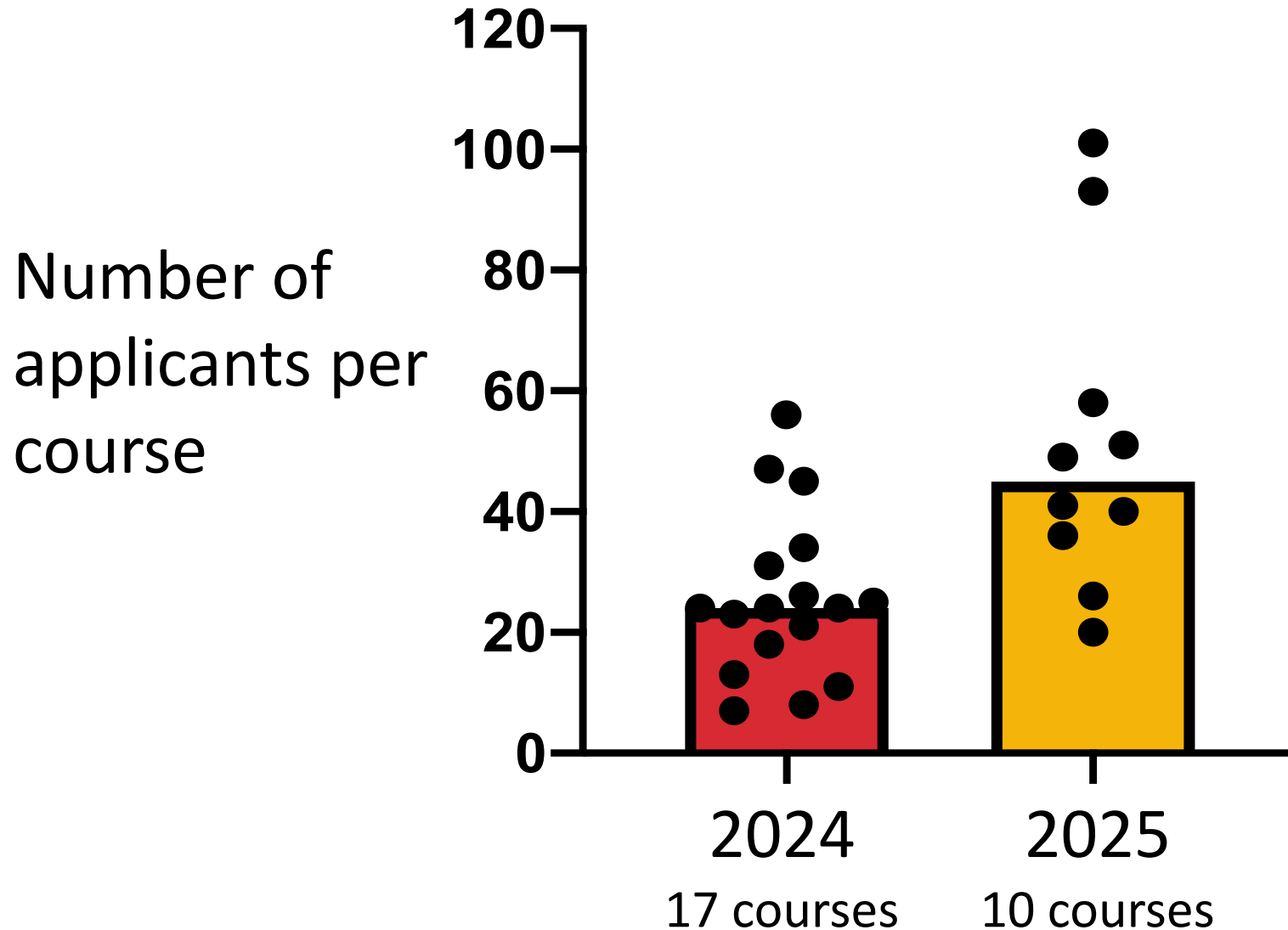
- Over 100 students
- Each student completed 1 to 8 courses
- Feedback from students - for each course and each trainer

1	Organization of data, documents and emails
2	Habits that boost success
3	Time management strategies
4	Data management (RedCAP)
5	Excel in research 1st
6	Academic writing with artificial intelligence
7	Excel in research 2nd
8	Word in research
9	Power-point in research
10	RStudio
11	Study Design
12	Conflict management
13	Abstract writing (Portuguese)
14	Abstract writing (English)
15	Communication and dissemination of research
16	Good clinical practices
17	Good Laboratory Clinical Practices

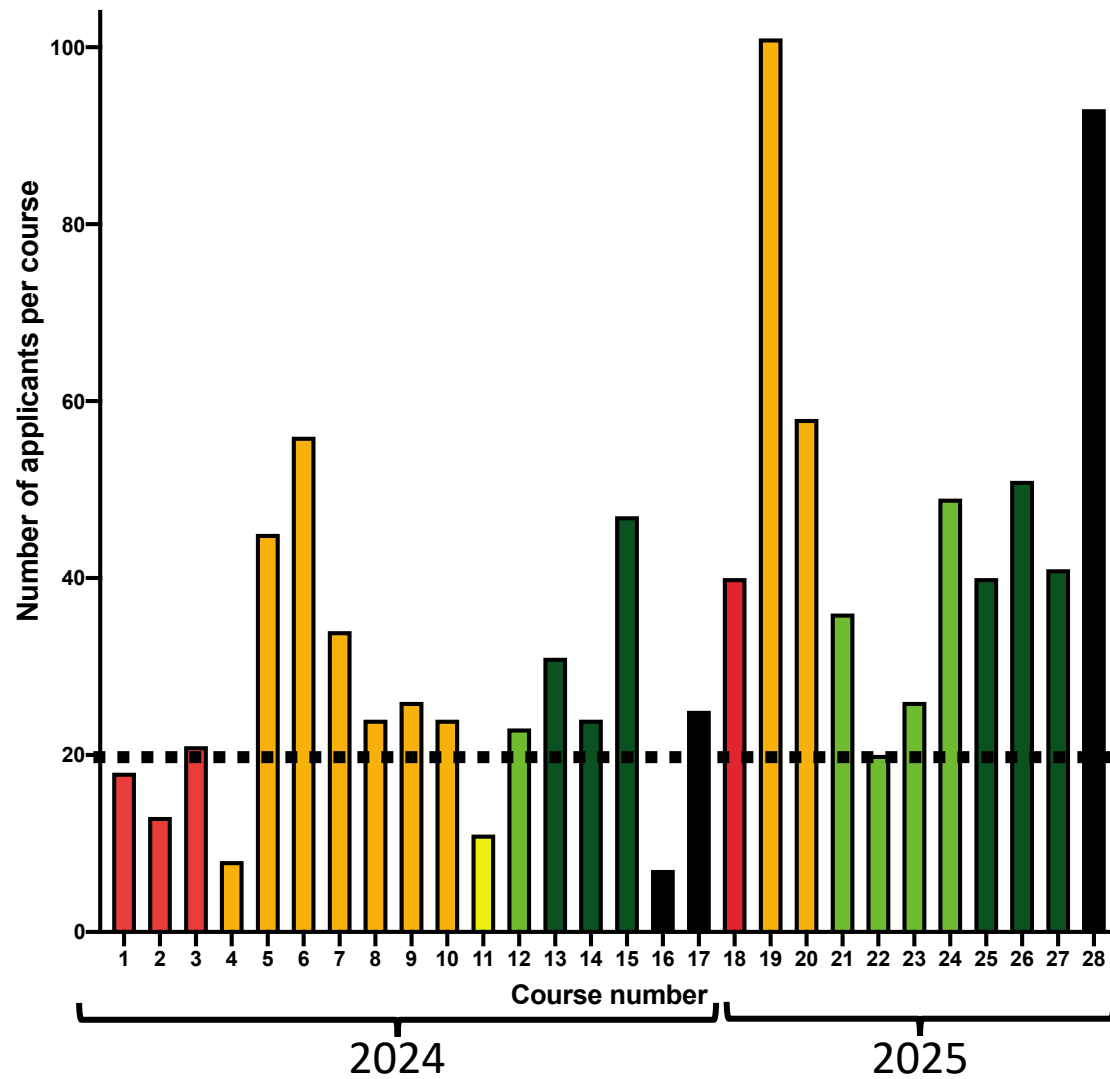
Female
 Male



Year 2 ongoing - Increasing interest!



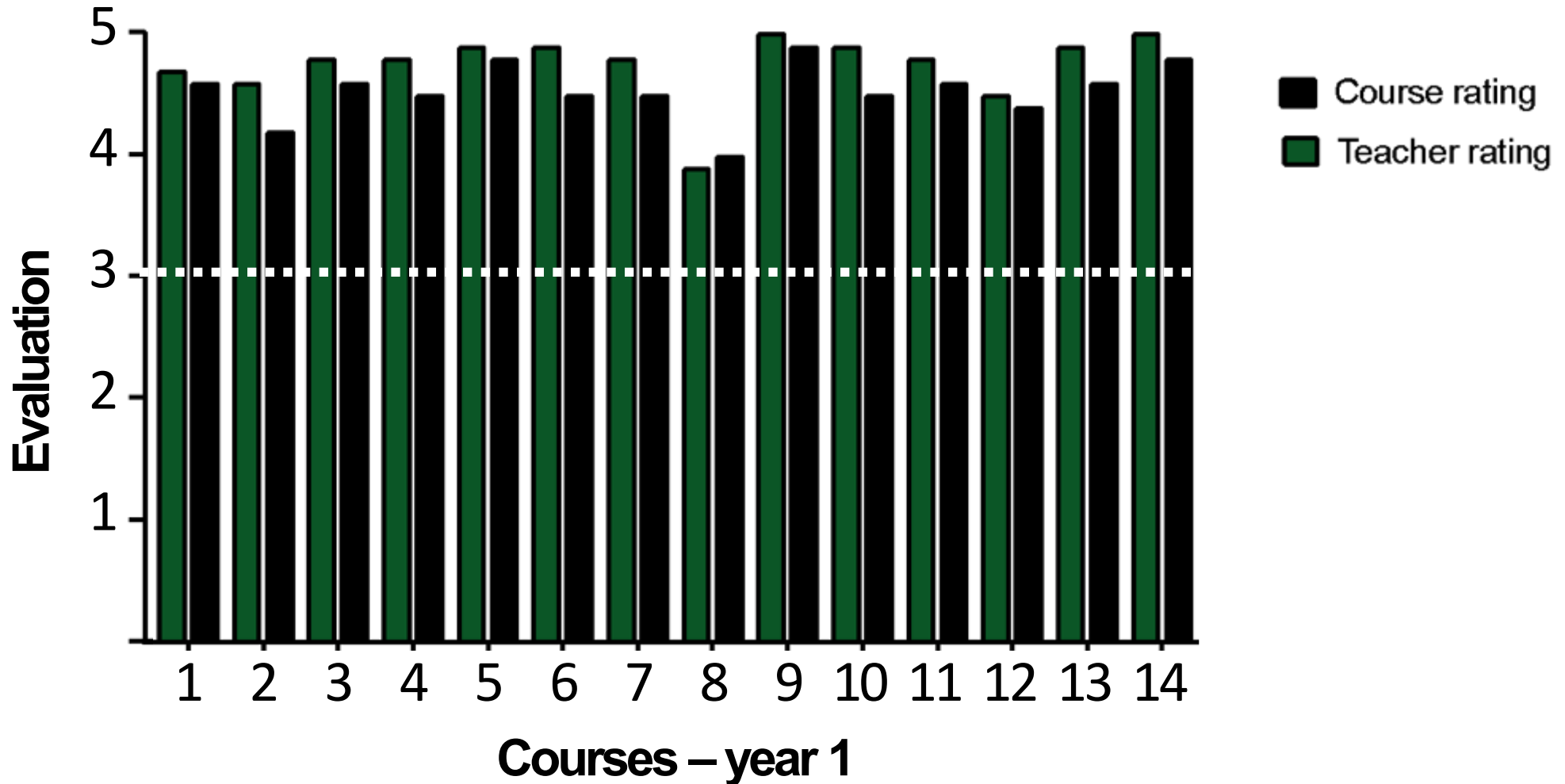
Transversal skills – year 1 and 2 (ongoing)



Courses Year 1 PhD4Moz	
1	Organization of data, documents and emails
2	Habits that boost success
3	Time management strategies
4	Data management (RedCAP)
5	Excel in research 1st
6	Academic writing with artificial intelligence
7	Excel in research 2nd
8	Word in research
9	Power-point in research
10	RStudio
11	Study Design
12	Conflict management
13	Abstract writing (Portuguese)
14	Abstract writing (English)
15	Communication and dissemination of research
16	Good clinical practices
17	Good Laboratory Clinical Practices
Courses Year 2 PhD4Moz	
18	Self-management strategies
19	Word in research 2nd
20	Digital tools for teaching-learning and research
21	Interpersonal communication
22	Leadership and teambuilding
23	Public relations and protocol
24	Conflict management
25	Abstract writing
26	Successful grant writing
27	Systematic reviews
28	Research ethics and integrity

Personal and professional development	Digital skills and office tools	Research methods	Research and leadership management	Scientific writing and communication	Responsible conduct in research
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Feedback from students



Sustainability – a big challenge



Increase the number of editions for courses with high demand

->need to coordinate with other initiatives

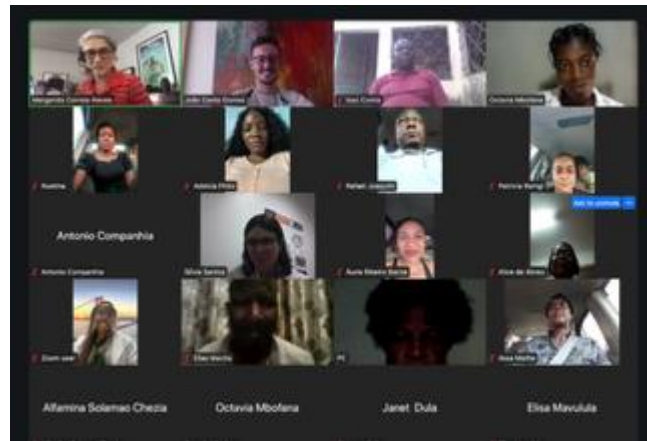
Increase funding

->Apply for additional funding in collaboration with other institutions

Sustain continuous improvement and innovation

-> Continuously incorporate feedback – students, supervisors and advisors

-> Development of App to support self-evaluation of progress



Thanks for your attention



<https://phd4moz.ins.gov.mz>

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