



UNIVERSITY OF  
EASTERN FINLAND

# About YUFE Pilot

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**The 3<sup>rd</sup> Nordic Bibliometric  
Infrastructure Spring Meeting  
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# Agenda

- What is a YUFE pilot?
- What was piloted and why?
- How was the pilot carried out?
- Where did we end up?
- Remarks



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| OpenAlex



# What is a YUFE pilot?



- The main objective is to **promote research cooperation** between YUFE universities
- The pilot has been involved in
  - Maastricht University (Netherlands)
  - Nicolaus Copernicus University (Poland)
  - Universidad Carlos III de Madrid (Spain)
  - Université Sorbonne Nouvelle (France)
  - University of Cyprus (Cyprus)
  - University of Eastern Finland (Finland)





# What was piloted and why? 1/2

## ■ YUFE 2030 WP5 (Work Package)

### – WP5: YUFE Responsible Interdisciplinary and Inclusive Research

- Task 5.1 Research on responsible research assessment and development of a joint policy framework
  - Task 5.2 Development and implementation of research on Innovation in Education in YUFE Student Journey
  - **Task 5.3 Fostering research collaborations**
  - **Focusing on Research Tools**
- Task 5.3 started with two complementary approaches (06/2024):
- Research Services/Grant Office involvement
    - Takes care of large lines, such as a survey for researchers
  - **Library and bibliometric approach**
    - Provides background support e.g. by finding out about existing joint research



# What was piloted and why? 2/2

- YUFE Libraries Group (Library and bibliometric approach)
- Timetable
  - Started in June 2024 with the goal of being completed by the end of 2024 (unsuccessful – finally completed by the end of 2025)
- Aiming to bring together (beginning) researchers from the YUFE network
  - Create a **profile** for each university
  - Identify **collaboration** (fields/subfields level)



# How was the pilot carried out? 1/2

- The first objective: Identify the most useful tool
- Commercial databases: Scopus/SciVal (Elsevier), Web of Science/InCites (Clarivate)
  - Benefits: comprehensive, stable, reliable, well-known and widely used
  - Disadvantages: services subject to a charge, require subscription (not available for all YUFE members & subscriptions may expire at any time)
- Alternative non-commercial database: **OpenAlex**
  - Advantages: **open**, comprehensive, stable and increasingly known and used... and **compatible with the new guidelines of CoARA and the Barcelona Declaration on Open Science**
  - Disadvantages: data is not yet of high quality (inaccuracies and omissions)



# How was the pilot carried out? 2/2

- Specs:
  - Field and Subfield levels by Domain were selected
    - The Domain level (4 domains) alone was too rough.
    - The number and level of accuracy of Topics (~4 500) was perhaps too much
  - Time frame: 2018–2023
- Starting point: Finding relevant ROR identifiers
- Step 1: **Extracting** comprehensive information on publications
- Step 2: **Identifying** the fields and subfields that each university is working on (*profile*)
- Step 3: **Identifying** existing collaboration w/i domains (*collaboration*)



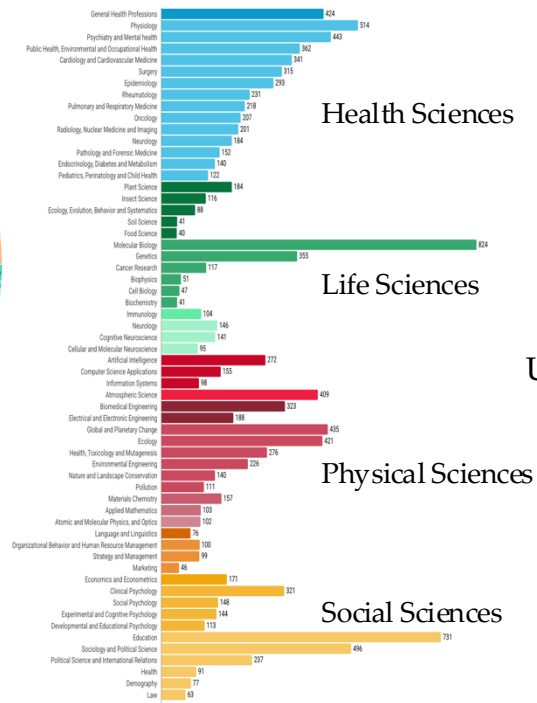
# Where did we end up?

- OpenAlex's web interface (w/ Excel & Infogram) and API (w/ Python Programming & Plotly.js) were used
- The Python code for the YUFE project is officially licensed and openly accessible: <https://github.com/MaastrichtU-Library/Yufe-Task5.3-Research-Collaboration>
- Resulting **Profile** graphs (4+1):
  - ROBOT PORTRAIT: **TOP 15 SUBFIELDS** BY DOMAIN | **Sunburst**
  - ROBOT PORTRAIT: **TOP 15 SUBFIELDS** BY DOMAIN | **Bar chart**
  - ROBOT PORTRAIT: **TOP 5 SUBFIELDS** BY DOMAIN | **Sunburst**
  - ROBOT PORTRAIT: **TOP 15 FIELDS-SUBFIELDS OVER TIME** | **Line graph**
  - YUFE ROBOT **PORTRAIT OF INSTITUTIONS**: COMPARATIVE | **Sunburst**
- Resulting **Collaboration** graphs (4+1):
  - YUFE ROBOT PORTRAIT OF INSTITUTIONS: **CURRENT** COLLABORATION | Connection net for each domain (4)
  - YUFE ROBOT PORTRAIT OF INSTITUTIONS: **POTENTIAL** COLLABORATION | Scatter plot



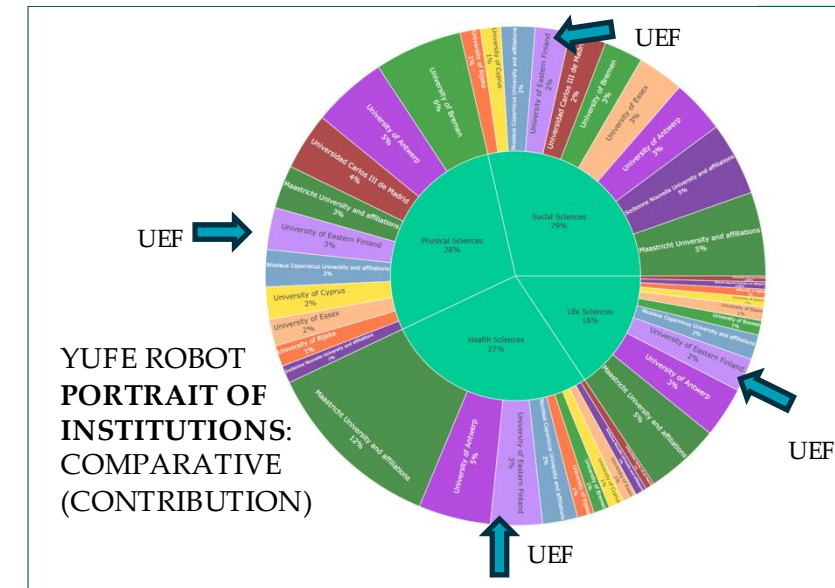


## Time frame 2018–2023



These graphs represent the subfields with a higher number of publications in the top 15 subfields per domain.

**Disclaimer:** The subfields shown in the ranked charts are selected based on publication volume. This does not necessarily reflect their importance, novelty, or impact.



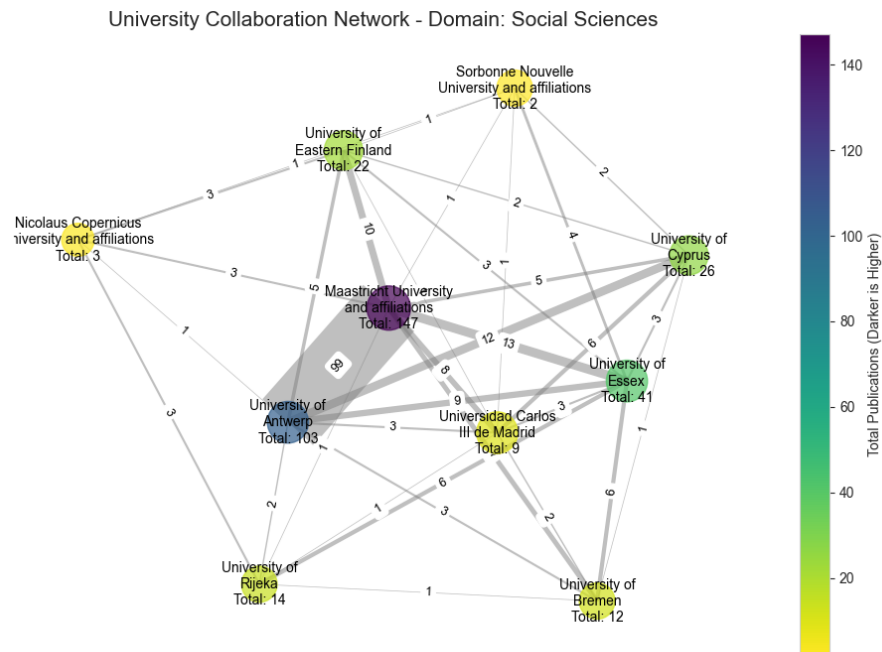


Time frame 2018–2023

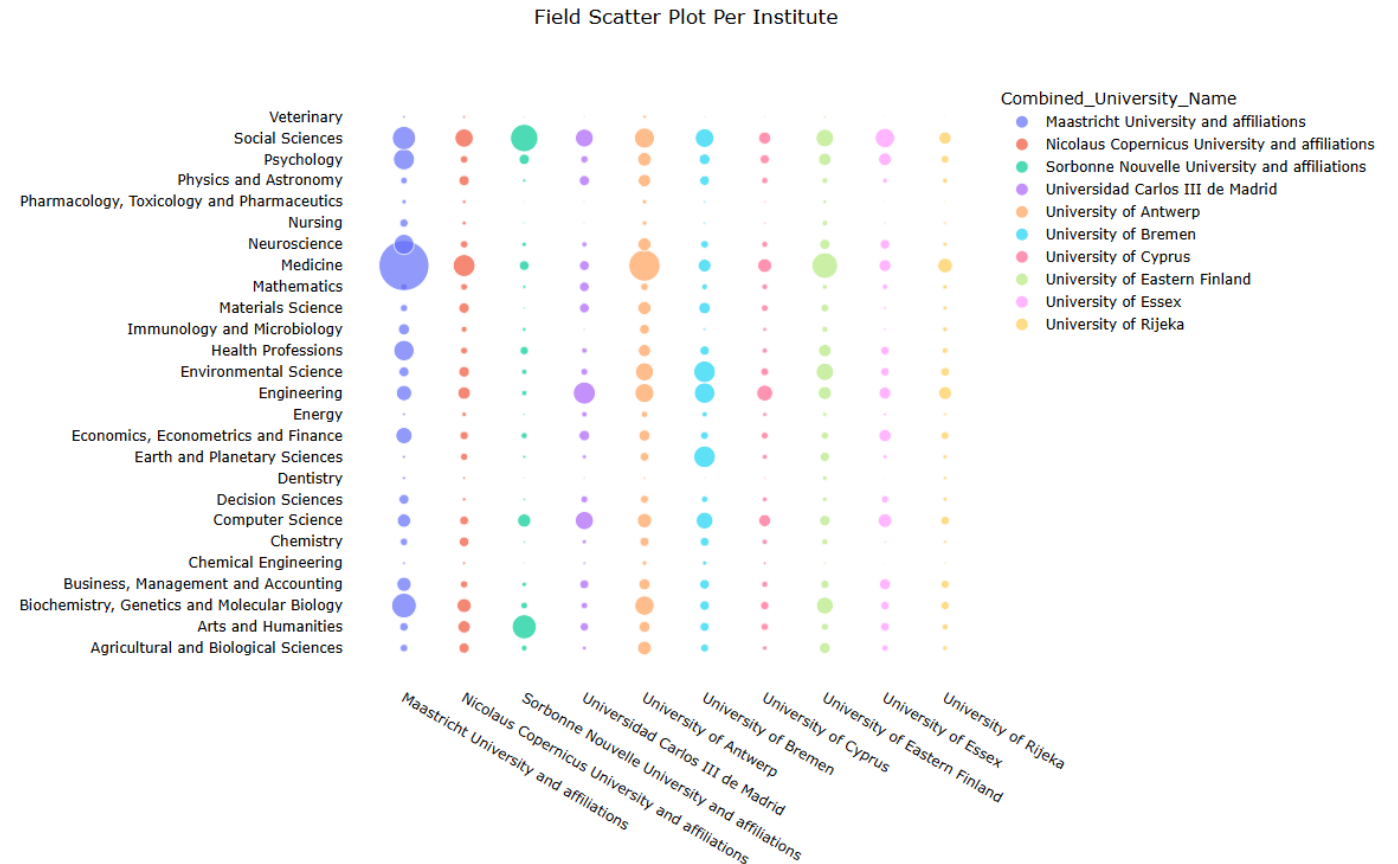
# Collaboration graphs

YUFE ROBOT PORTRAIT OF INSTITUTIONS:  
**POTENTIAL COLLABORATION**

YUFE ROBOT PORTRAIT OF INSTITUTIONS: **COMPARATIVE**



This graph represents the **current collaboration** among YUFE universities **in Social Sciences**.



This graph represents **the areas for potential collaboration among YUFE universities** in the fields with a higher number of publications.



# Remarks

- Understanding of what we have been doing in UEF during 2018–2023: Most prolific subfields, trends etc.
  - Overview of existing YUFE cooperation
  - Potential collaboration fields and partners within YUFE and beyond (e.g. in Nordic collaboration)
  - Possibility to generate UEF profile as needed in future
- 
- Finding out the cooperation of ten universities was a more challenging task than we had expected.



**Thank you!**

**May the  
Library be  
with you.**

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