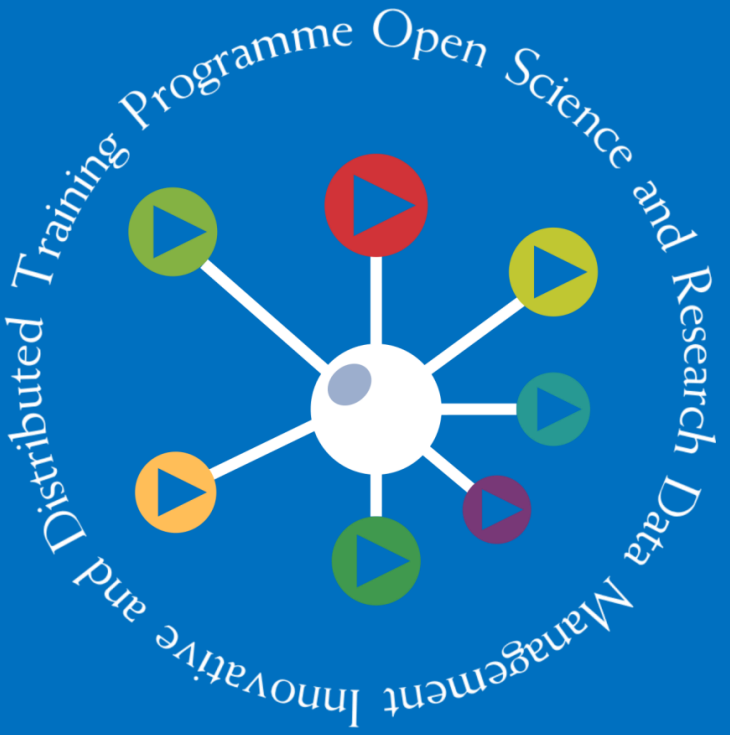
Open Science & Research Data Management: a FAIR European PG Programme



H González-Vélez, C Dobre, B Sánchez-Solis, G Antinucci, D Feenan, D Gheorghe

Computational Archival Science workshop, 19 Dec 2022 @ Osaka, Japan
2022 IEEE International Conference on Big Data (IEEE BigData 2022)

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KA2 Strategic Partnership 30 Months: Nov/20 – Apr/23

Erasmus+ KA2 Strategic Partnerships are **transnational** projects designed to develop and share innovative practices and promote **cooperation**, **peer learning**, and **exchanges** of experiences in the fields of education, training, and youth.

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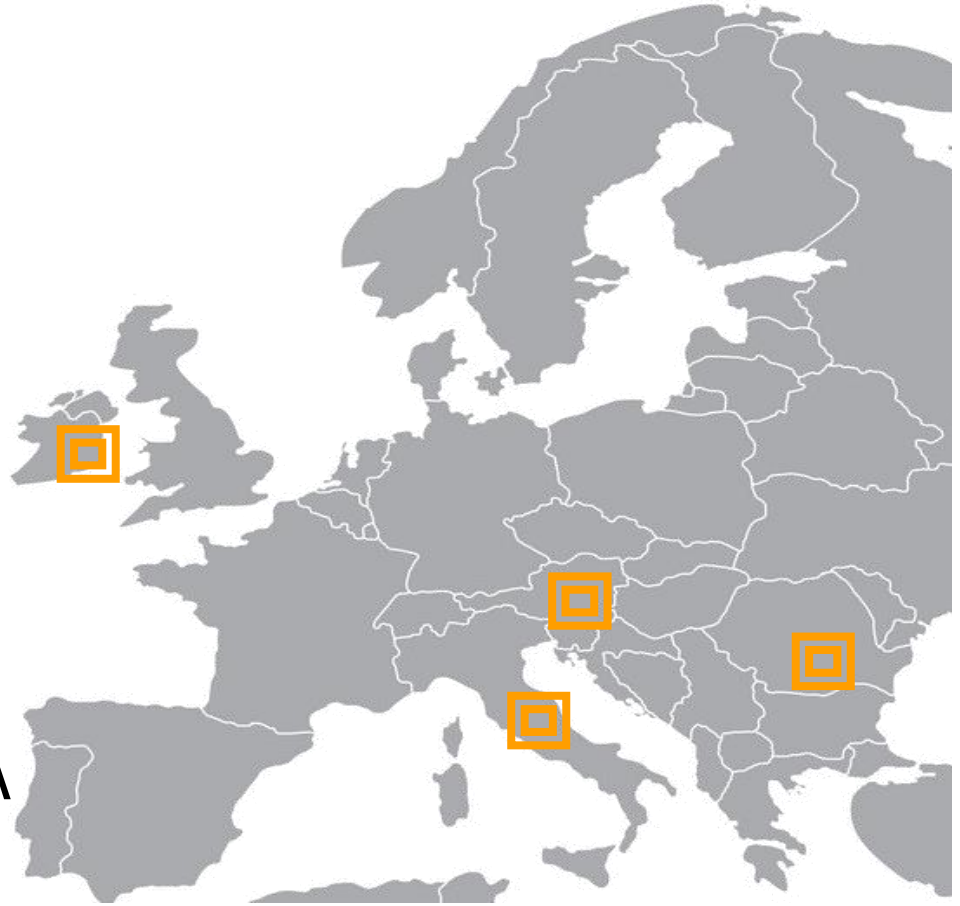
Partners

- UNIVERSITATEA POLITEHNICA DIN BUCURESTI
- TECHNISCHE UNIVERSITAET WIEN
- NATIONAL COLLEGE OF IRELAND
- DIGITAL TECHNOLOGY SKILLS LIMITED
- UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA
- ICI BUCURESTI



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AIM

Empower the **Education** and **Skills** dimension of **Open Science** to provide the skills training in **Research Data Management**

Open Science

- Cooperative work and new ways of diffusing knowledge by using digital technologies and new collaborative tools (EC (2016)).

- Make the outputs of publicly funded research results publicly accessible in digital format with no or minimal restriction (OECD (2015)).

The FAIR Principles

Findability

Accessibility

Interoperability

Reusability

Wilkinson, M., Dumontier, M., Aalbersberg, I. *et al.* The FAIR Guiding Principles for scientific data management and stewardship. *Sci Data* **3**, 160018 (2016). https://doi.org/10.1038/sdata.2016.18

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Key Outputs

- Methodological Toolkit
- Joint Design of MSc Programme
- Distributed eLearning Platform

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Toolkit

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Survey

- Part 1: Everyone
  - 239 Responses
  - 2.58M Researchers @ 90% +/- 5%
- Part 2: Partners only
  - 11 Responses

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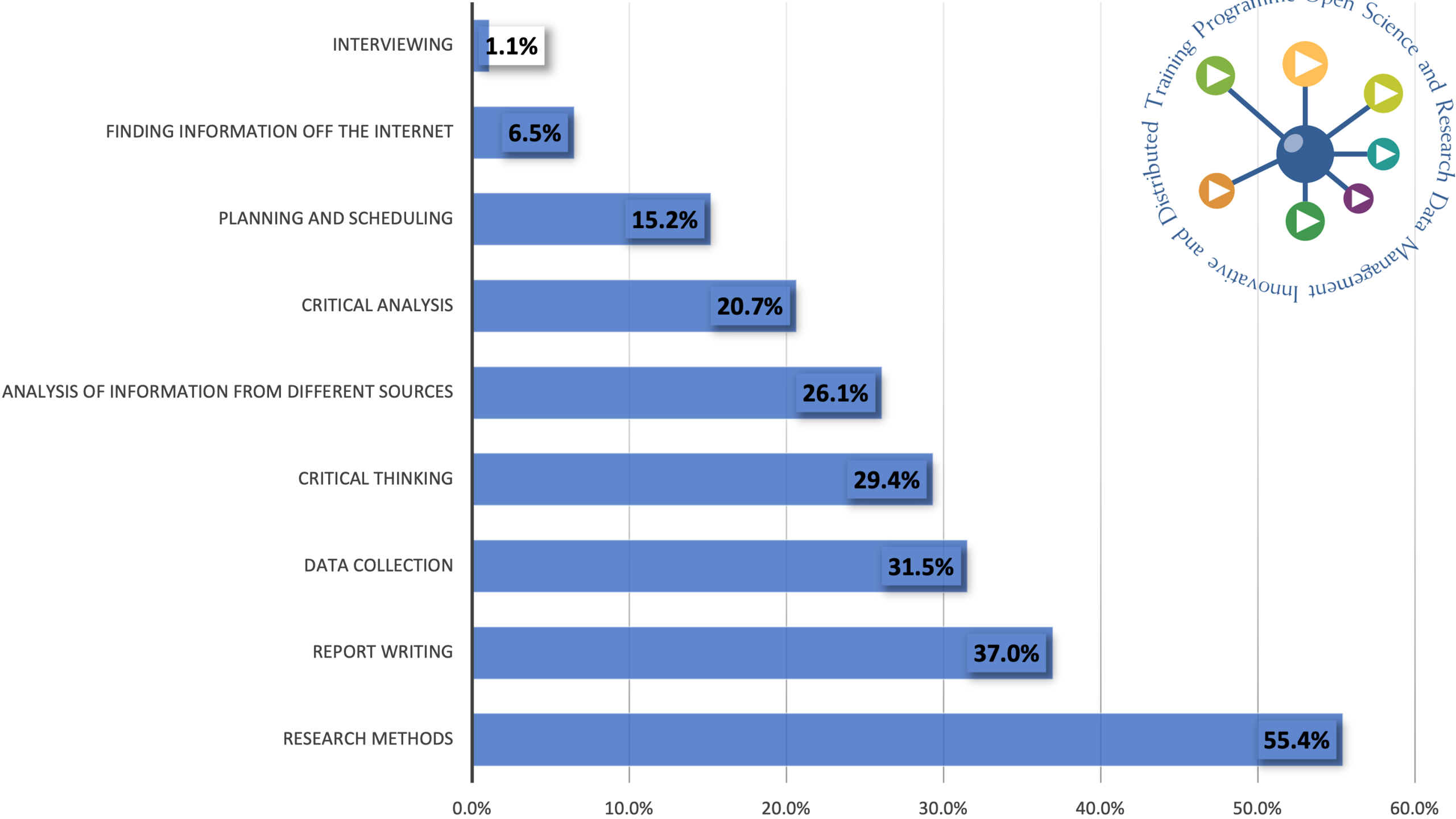
INTERVIEWING
1.1%
FINDING INFORMATION OFF THE INTERNET
6.5%
PLANNING AND SCHEDULING
15.2%
CRITICAL ANALYSIS
20.7%
ANALYSIS OF INFORMATION FROM DIFFERENT SOURCES
26.1%
CRITICAL THINKING
29.4%
DATA COLLECTION
31.5%
REPORT WRITING
37.0%
RESEARCH METHODS
55.4%
0.0%
10.0%
20.0%
30.0%
40.0%
50.0%
60.0%
Distributed Training Programme Open Science and Research Data Management Innovative and

Competencies Matrix

Competency	UPB	TUW	NCI	DTSL	SAPIENZA	ICI
Data Management Plan		✓				✓
Research Ethics		✓	✓		✓	
Data Stewardship		✓				✓
Data Protection		✓	✓			
IPR		✓		✓	✓	
FAIR	✓	✓	✓		✓	
Data Visualisation		✓				
Data Analytics	✓		✓			
Federated Content Management Systems	✓		✓			✓
GDPR	✓		✓			
Open Innovation				✓	✓	
Open Science	✓					✓
Open Source				✓		✓

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MSc Programme

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90-ECTS Structure

Data management

TU VIENNA (15)

Open science

UPB (15)

Ethics, DG, & compliance

NCI (15)

Open Innovation

LA SAPIENZA (15)

Research Project

ALL PARTNERS (30)

European Credit Transfer and Accumulation System (ECTS) is a tool of the European Higher Education Area for making studies and courses more transparent.

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Distributed eLearning Platform

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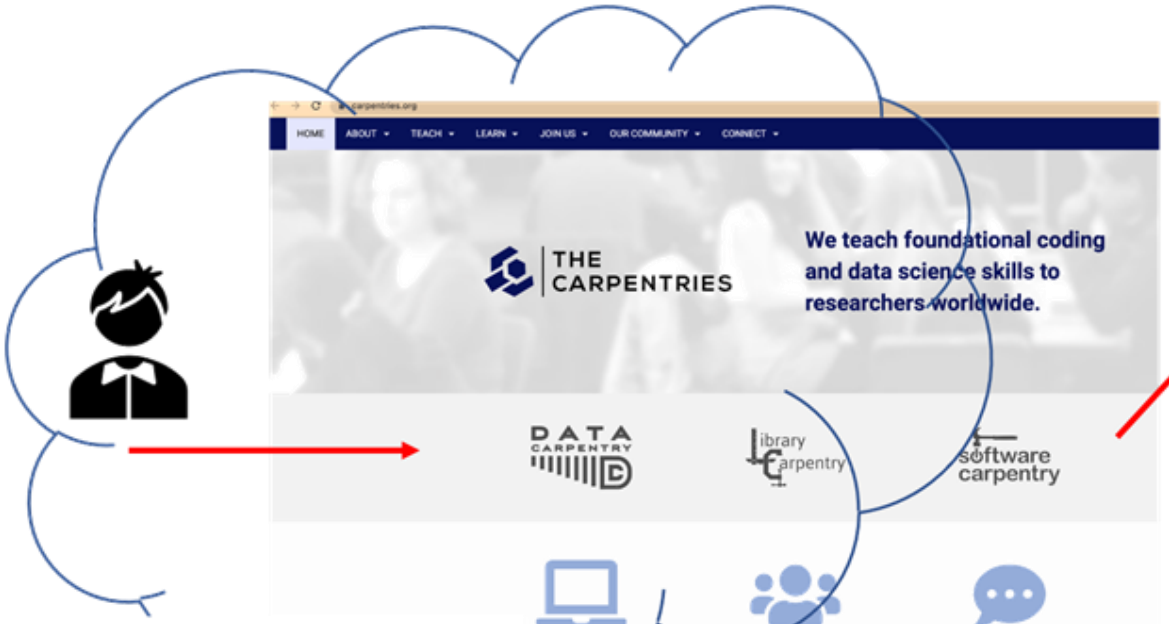
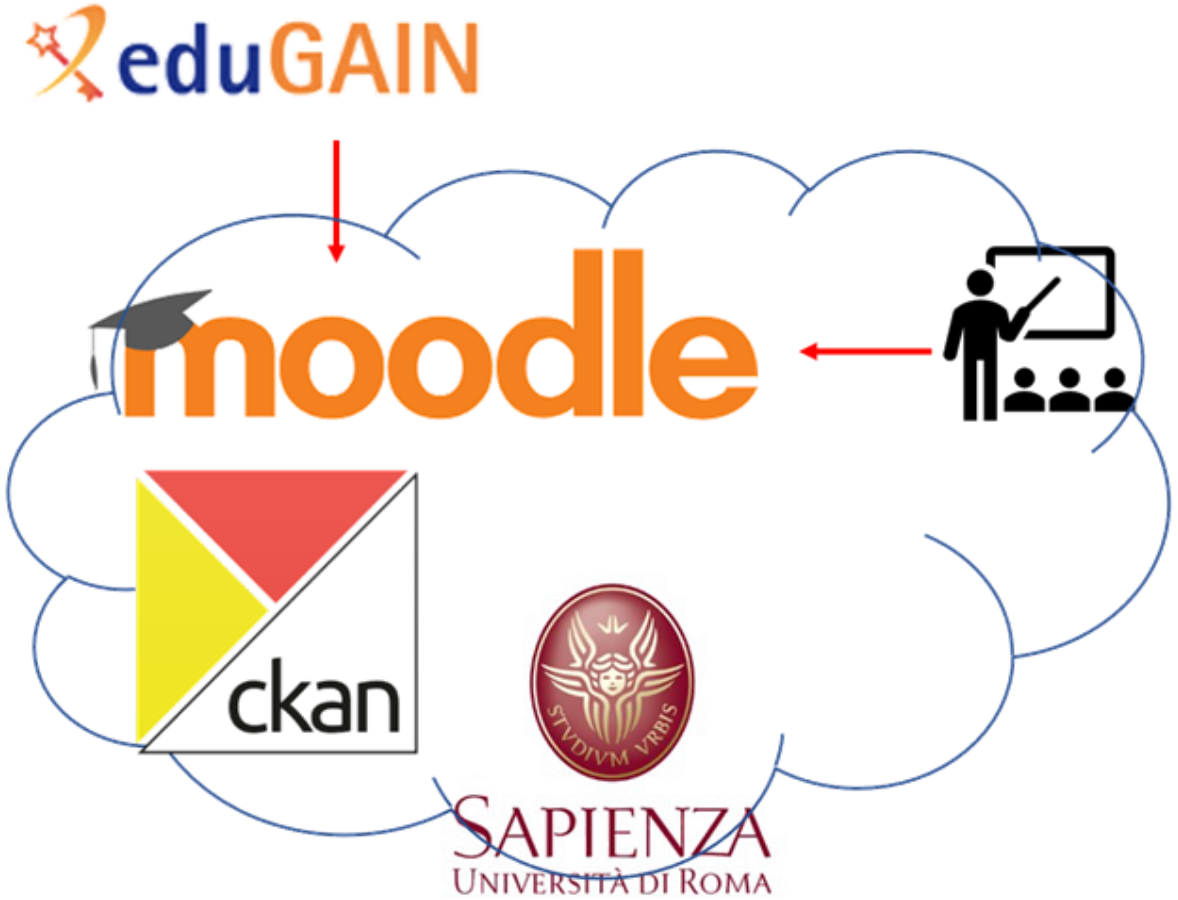
Distributed Moodle/eduGAIN





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Further steps

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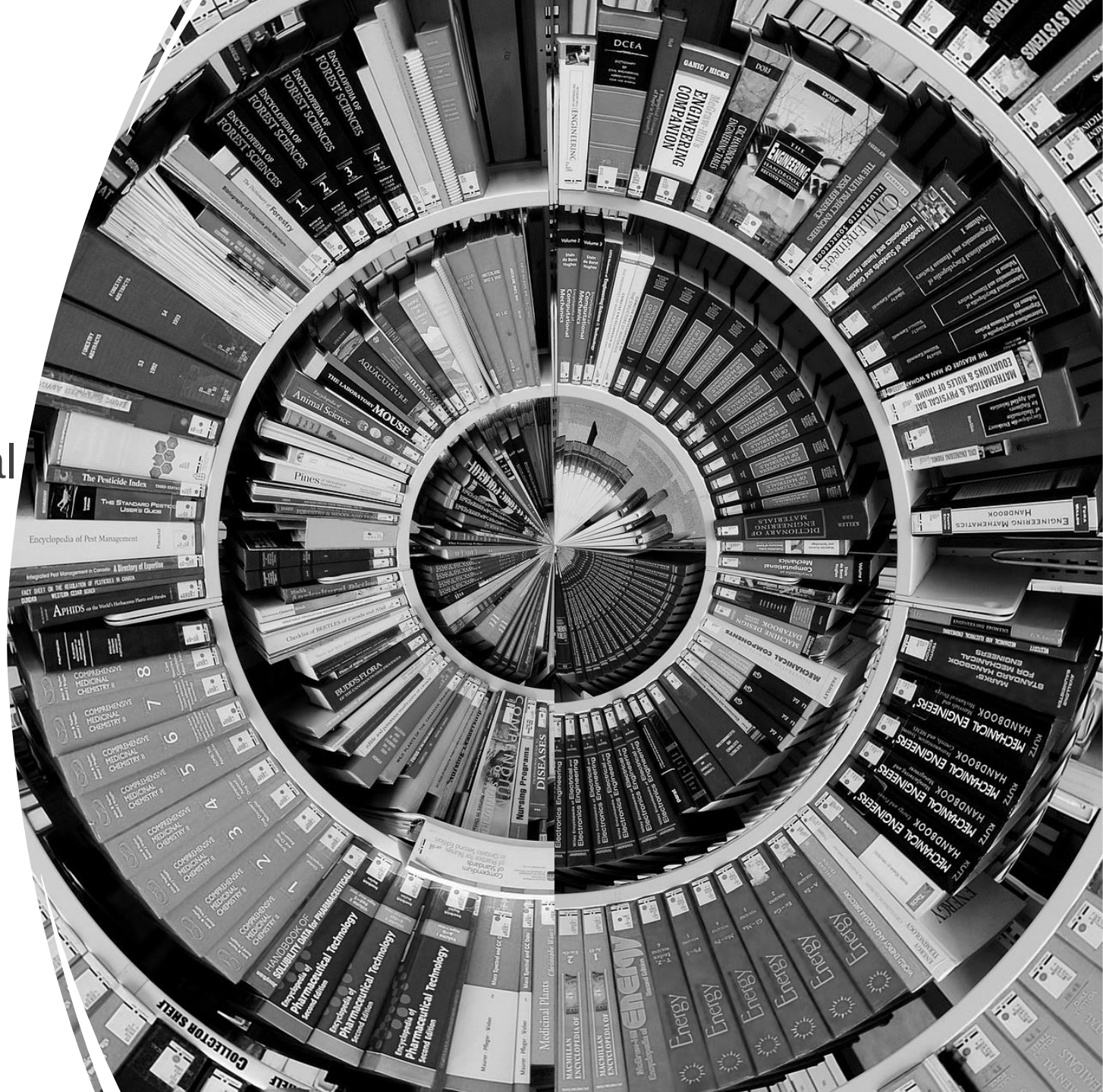
Validation @ Ireland

- Initial Programme Lifecycle Approval
  JAN-FEB 2022
- Internal/Industry Panel
  Autumn 2022
- QQI panel
  Winter 2022
- Official Approval
  Summer 2022
- First Cohort
  Winter 2023



THANK YOU!

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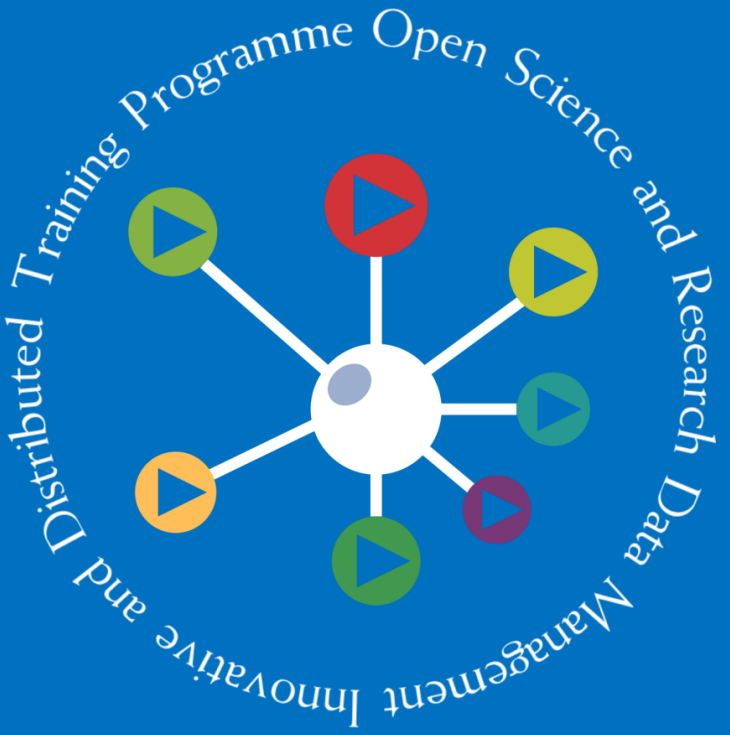

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