



D-ChallengHE

Digital Challenge in Higher Education

RN Progress Report Template

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RN Progress Report

1. Network details

Research Network	RN.2: Artificial Intelligence in Education
Coordinator <i>(Name/Surname/Affiliation)</i>	Olimpius Istrate – Institute for Education, Bucharest
Reporting Period <i>(2022 – 2024)</i>	

2. Joint activities

Description of the achievements to date of the Scientific Research Network listing all joint activities undertaken in detail:

- Seminars
- Workshops
- Symposia
- Research Visits

3. Academic outputs

- Publications¹

¹ Use **ASA Bibliographical Style** and the following classification for publications:

Articles: A1: Peer reviewed articles in scientific journals; A2: Non-peer reviewed articles in scientific journals.

Books: B1: Author or co-author of published books (limited to books published by a scientific publishing company; no syllabuses, no theses); B2: Chapters in books (no conference proceedings); B3: Books as editor (including editor of conference proceedings).

Other publications: C1: Papers in proceedings of scientific conferences, that do not belong to any of the previous categories (full articles, no abstracts); C2: Doctoral dissertations; C3: Patents; C4: All other publications that are relevant to the project and that cannot be included in any of the previous categories, including preprints.



- Published Data² - a list of recent open datasets related to AI, machine learning, automation in data exploration

(1) Arenas-García, Jerónimo, Cid-Sueiro, Jesus, Calvo-Bartolomé, Lorena (2024). IntelComp AI Science and Technology Indicators.

<https://zenodo.org/records/10706214>

This dataset compiles key indicators surrounding AI technology and scientific production in EU and Spain. Derived from several primary sources, it includes expert-curated topic models via the Interactive Model Trainer (IMT) on AI-related OpenAIRE publications and patents from PATSTAT. These indicators are meticulously crafted for in-depth analyses within the STI Viewer's Artificial Intelligence dashboards.

(2) Bardi, Alessia, Candela, Leonardo, Mangione, Dario, Pavone, Gina (2024). An Overview of Open Science in Italy - Data Set. <https://zenodo.org/records/10611000>
Data sets accompanying the paper "An Overview of Open Science in Italy", an overview of the current state of open science implementation in Italy. The data sets atenei.csv and altri-istituti-ricerca.csv document the organisation selection resulting from the list of Italian universities... Part of EU Open Research Repository (Pilot)

(3) Jaroslaw Szumega, Lamine Bougueroua, Blerina Gkotse, Pierre Jouvelot, Federico Ravotti (2023). The Open Review–Based (ORB) dataset: Towards Automatic Assessment of Scientific Papers and Experiment Proposals in High–Energy Physics.

<https://zenodo.org/records/10291022>

A comprehensive Open Review–Based dataset (ORB); it includes a curated list of more than 36,000 scientific papers with their more than 90,000 reviews and final decisions, from two sources: the OpenReview.net and SciPost.org websites

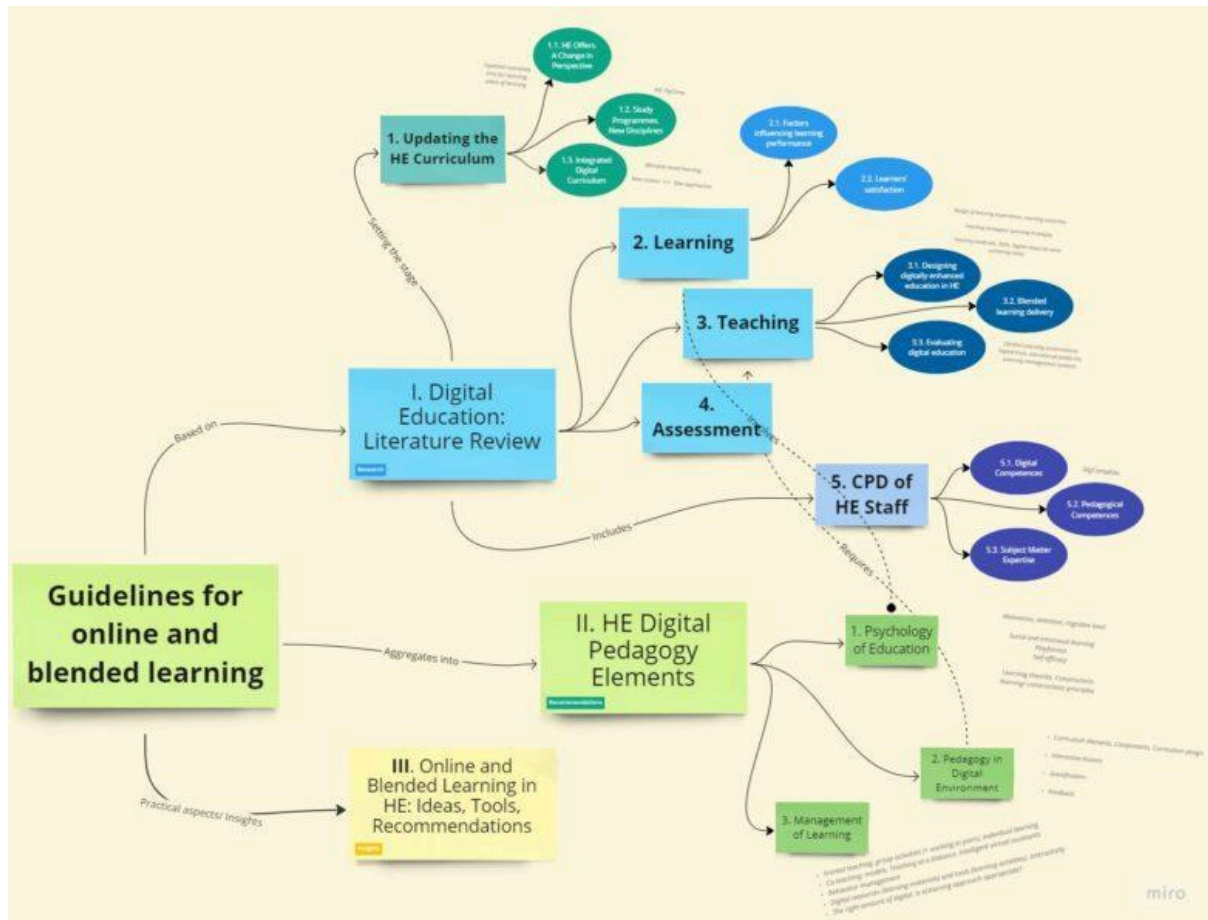
(4) Manghi, Paolo et al. (2023). OpenAIRE Graph: Dataset for research communities and initiatives. <https://zenodo.org/records/10521976>

This dataset contains metadata records of the OpenAIRE Graph relevant for the research communities and initiatives collaborating with OpenAIRE and with a public Open Research Gateway on OpenAIRE CONNECT as of December 2023. Each file is a tar archive containing gzip files with one json per line. Each json is compliant to the schema available at <https://doi.org/10.5281/zenodo.10519297>.

² Provide a list of datasets resulting from the funded scientific research network that were made publicly available. Specify the bibliographical reference to this dataset (or minimally Author(s) – publication year – title), provide the identifier (DOI, URL, handle, ARK, PURL or URN) and specify the open access status (open, under embargo, restricted or closed).

- Other academic output³

Mapping digital education area: <https://miro.com/app/board/uXjVMJaZX0Y=/>



4. Science outreach and public engagement strategy

The main demarche within the Artificial intelligence strand (RN.2) was aiming to build a community of scholars who contributed to the scientific domain by linking it with specific HE needs and expectations. The public interest was also considered, giving priority to themes high on the education policy agenda, at EU and national level. Therefore, the theme of the 2024 conference organized by the Institute for Education in collaboration with Klaipeda University (Lithuania), National University of Political Studies and Public Administration

³ It may be constituted by surveys, a technical diagram, software, objects (e.g., maquettes, prototypes, keynote lectures or other lectures at scientific or other meetings, the organisation of such meetings, the organisation of or participation in exhibitions, and any other type of activity or output you consider to be relevant



(Romania), Link Campus University (Italy) was teacher training:

<https://digital-pedagogy.eu/conference/>. It used AI and digital pedagogy as an interface to explore topics such as teacher training, use of chatbots for learning, and assessment in higher education <https://digital-pedagogy.eu/agenda/>.

Furthermore, the local specialized Facebook group was promoted, in order to get more members and more relevant postings. The group "Higher Education - Digital Pedagogy" is managed by iEdu. It has now more than 200 members, researchers and teaching staff in Romanian universities: <https://www.facebook.com/groups/pedagogiedigitala>.

For K-12 education, the Institute for Education manages another Facebook group dedicated to digital education, with almost 15k members:

<https://www.facebook.com/groups/resurseeducationaledeschise>

Postings related to the outcomes of D-ChallengHE project will be promoted in both groups in September, after the school holidays.

5. References

An updated (extended) bibliographical list on the topics of the research network:

(Most of these works were also used to document the Guidelines <https://digital-pedagogy.eu/guidelines/> - output of WP5, D-ChallengHE project)

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*** Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence. The White House. <https://www.whitehouse.gov/briefing-room/presidential-actions/2023/10/30/executive-order-on-the-safe-secure-and-trustworthy-development-and-use-of-artificial-intelligence/>

*** Exemple de resurse educaționale deschise (accesat în septembrie 2024). Online: <https://digitaledu.ro/>

*** FERPA - Family Educational Rights and Privacy Act. US Department of Education. <https://studentprivacy.ed.gov/>

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