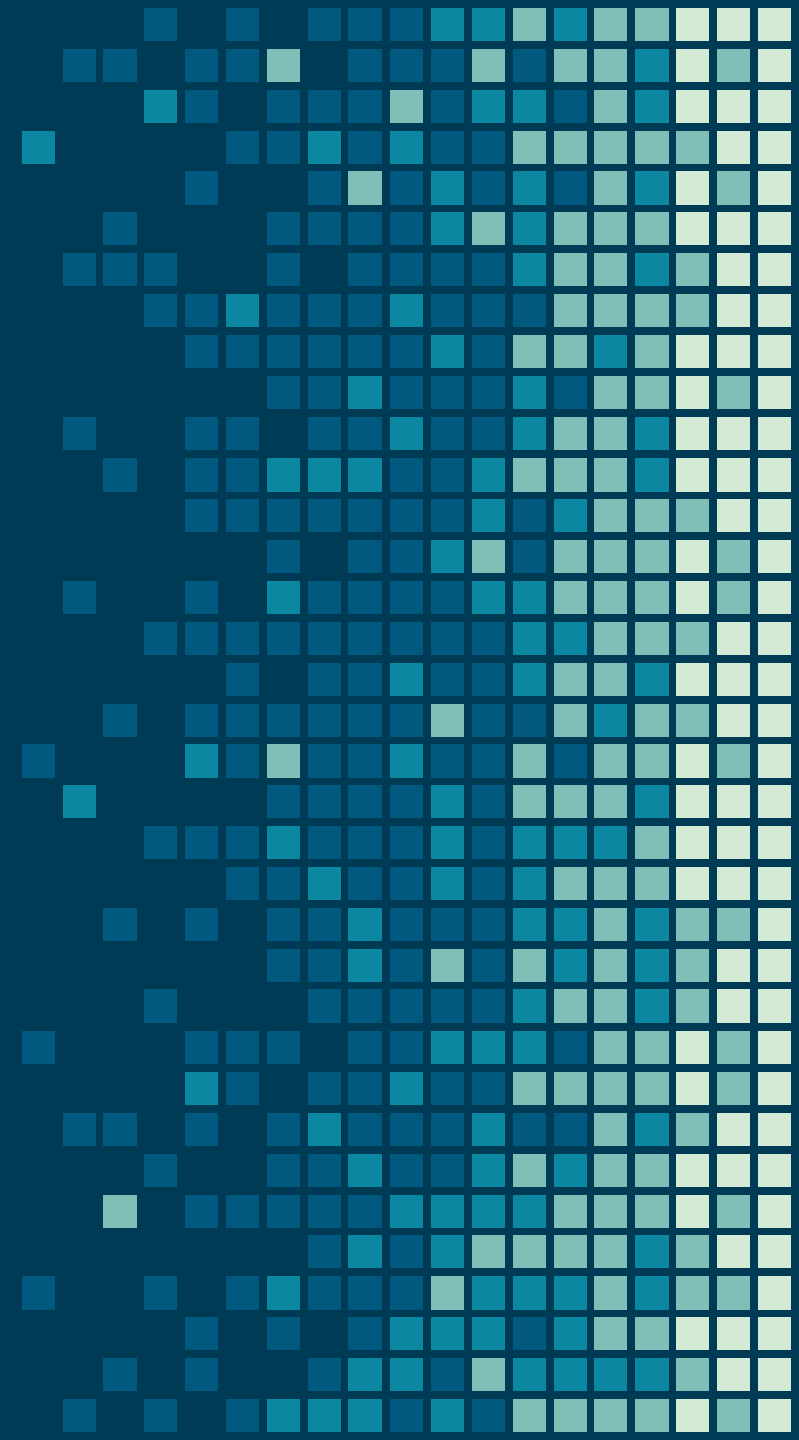


HEAL-Link

moving Greek academic landscape to FAIRness



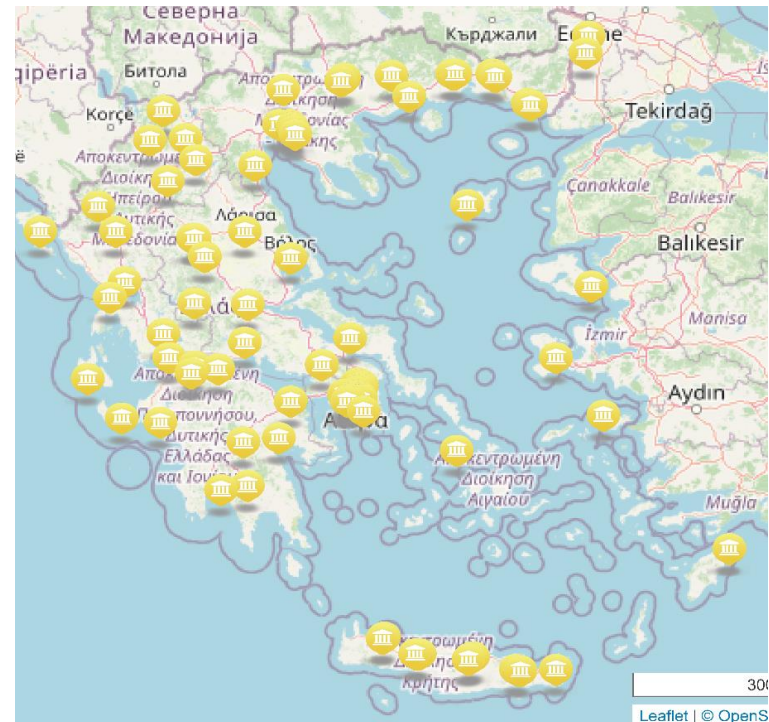
This figure displays a 20x20 grid of handwritten digits from the MNIST dataset. Each digit is represented by a unique color, ranging from light yellow to dark blue, indicating the pixel intensity of the digit. The digits are arranged in a grid, with each row and column containing a different digit. The background is white, and the digits are centered within their respective grid cells.

Based in Greece

43 Institutions

24 are academic

- The National Library of Greece
- Hellenic Parliament Library
- National Hellenic Research Foundation
- National Documentation Centre
- Research Institutions (Historical members)



Organizational Structure

Head:

Prof. Mavroeidis Angelakeris (Aristotle University of Thessaloniki)

Governing Body:

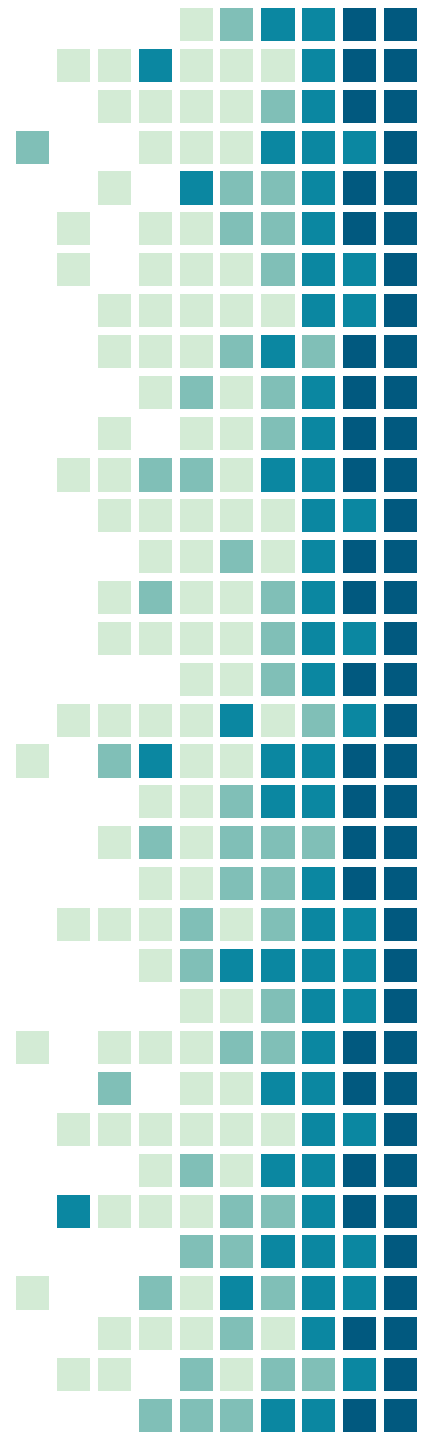
27 members Committee (one representative per institution)

Steering Committee for Electronic Resources:

5 members (elected from the Governing Body)

Funding:

Central, from the Ministry of Education and Religious Affairs



Defining factors for OA-FAIR transition

- Mapping our position (policies, infrastructures, processes, cost-effective agreements).
- Analysis & Evaluation:
 - Financial data
 - Publication cost
 - Cost per download
- Monitoring of publications.
- Collective strength: learning, cooperation, participation, reasoning.
- Transparency.
- Budget constraints:
 - Cost unprecedented (determination of viability and sustainability)
 - Doubts regarding the allocation of funds for full OA publications
 - Article Processing Charge (APC)

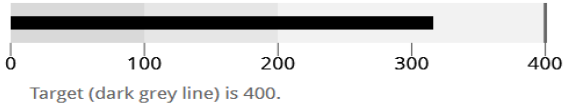
HEAL-Link focusing in OA transition and FAIRness

Publisher	Read & Publish 2022-2024 No of publications
Association for Computing Machinery (ACM)	0
American Chemical Society (ACS)	0
Cambridge University Press(CUP)	unlimited
DeGruyter	75
Emerald	0
IEEE	180
Institute of Physics (IoP)	Unlimited
Oxford University Press	231
Royal Society of Chemistry (RSC)	189
SpringerNature	1118
Wiley	1320

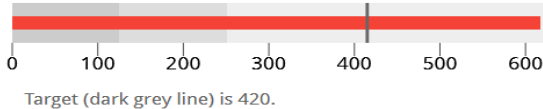
[HEAL1000](#): publishing hub for the members of HEAL-Link on the F1000 platform.



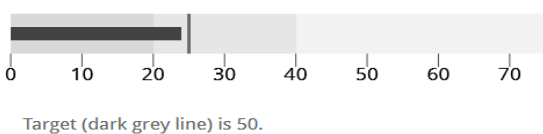
WILEY



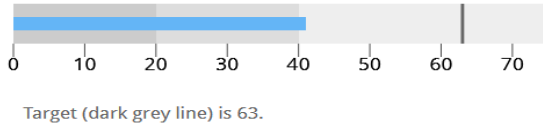
SPRINGER
NATURE



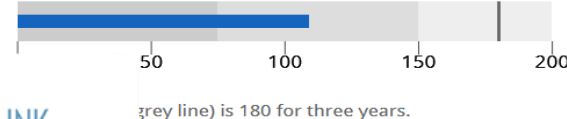
DE GRUYTER



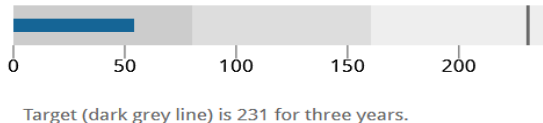
ROYAL SOCIETY
OF CHEMISTRY



IEEE



OXFORD
UNIVERSITY PRESS



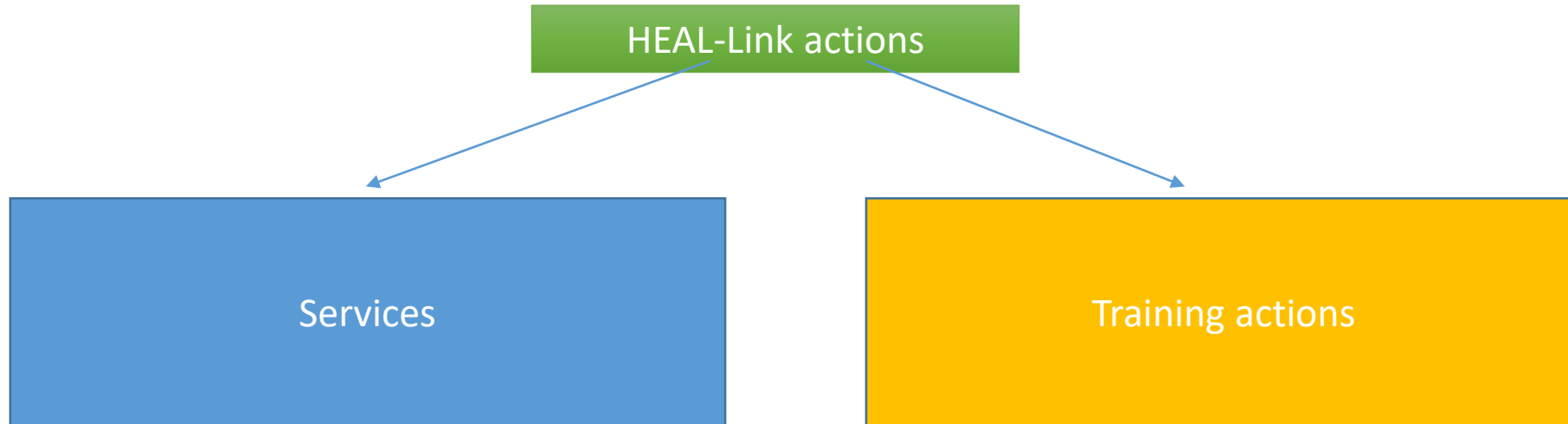
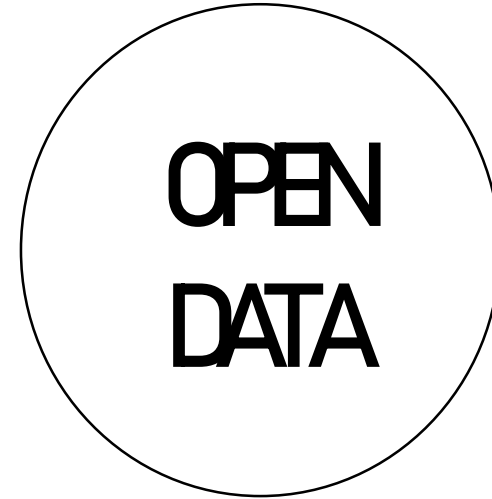
HEAL-Link focusing in OA transition and FAIRness

- All the agreements are on a 3-year basis.
- Ongoing negotiations for the period 2025-2027.
- Equity in publishing. All consortium members have access to/are included in the agreements. Not an opt-in/opt-out model.
- Eligibility criteria: (a) the corresponding author and his/her affiliation, (b) type of article, (c) type and title of journal/list.
- The [Scholarly Communication Unit](#) was established in 2020 to help implement and monitor the agreements.
- The articles are handled centrally, on a first-come, first-served basis.
- Pages and tools for the support of the HEAL-Link community:
 1. Detailed tables for each agreement
 2. [Journals Index](#)
 3. [Open access options guide](#)
 4. [Reporting on the publishing output](#)

Current status of FAIR adoption

Current status for Greek academic landscape:

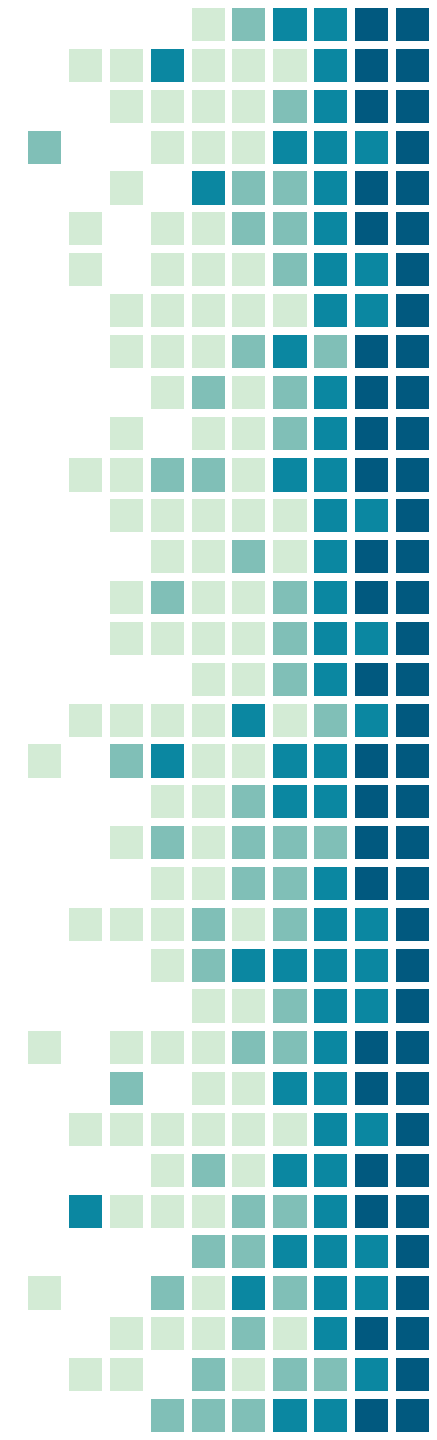
- Scattered repositories
- Scattered data
- Various initiatives
- Key aspects
 - Dissemination of knowledge and services
 - Sustainability of services



HARDMIN

(Hellenic Academic Research Data Management Initiative)

- HARDMIN (<https://hardmin.heal-link.gr/>) is the Greek academic libraries' **data repository** infrastructure.
- Horizontal infrastructure
- Directory and a Data Repository and is identical to the Hellenic Data Service subsystem based on the open source software CKAN
- Gathers in one place all the scientific data produced, utilized and managed by Greek researchers, allowing their safe, customizable and scalable search




Benefits of HARDMIN

- Facilitates compliance with the FAIR Data Principles (Findable, Accessible, Interoperable, and Reusable)
- Enables data indexing, search, and metadata integration
- Supports collaboration across Greek academic institutions and integrates with European open science infrastructures (e.g., EOSC, OpenAIRE)

HARDMIN in Action

- Researchers can upload, search, and manage datasets
- Integration with the DOI system ensures research data is citable

Ίδρυμα



Κατηγορίες

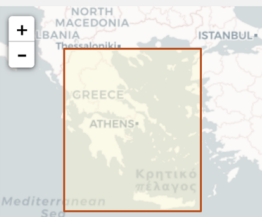
physical geography and environmental geoscience

Ετικέτες

HYDROGRAPHY WATER

ΠΟΤΑΜΙΑ

Έκταση



© OpenStreetMap contributors, © CartoDB

ΙΔΡΥΜΑΤΑ \\\... \\\ ΤΑ ΠΟΤΑΜΙΑ ΤΗΣ ΕΛΛΑΔΑΣ.

Τα ποτάμια της Ελλάδας.

☆ 📅 GR

Δημοσίευση: 2020-05-07
Τελευταία αναθεώρηση: 2020-05-07

ΣΥΝΟΛΟ ΔΕΔΟΜΕΝΩΝ # ΘΕΜΑΤΙΚΕΣ © ΡΟΗ ΔΡΑΣΤΗΡΙΟΤΗΤΩΝ

Τα δεδομένα δημιουργήθηκαν για τους σχολικούς χάρτες του Παιδαγωγικού Ινστιτούτου. Η πηγή των δεδομένων είναι η ΓΥΣ. Τα δεδομένα τροποποιήθηκαν το 2004 και το 2005 από το Εργαστήριο Χαρτογραφίας και Γεωπληροφορικής του Τμήματος Γεωγραφίας του Πανεπιστημίου Αιγαίου. Το παραγόμενο αρχείο είναι τύπου ESRI shapefile με γραμμικά δεδομένα.


Δεδομένα και Πόροι

Πόρος δίχως όνομα
Δεν υπάρχει περιγραφή

ΜΕΤΑΦΟΡΤΩΣΗ

Πόρος δίχως όνομα
Δεν υπάρχει περιγραφή

ΜΕΤΑΦΟΡΤΩΣΗ

 _152_metadata.xml
Metadata of the imported dataset

ΜΕΤΑΦΟΡΤΩΣΗ

Μεταδεδομένα

ΜΕΤΑΦΟΡΤΩΣΗ

SHOW MORE

HARDMIN

Hellenic Academic
Research Data Management
Initiative



- Integration with European Open Science Infrastructures (OpenAIRE, European Open Science Cloud-EOSC)
- Integration with Datacite for DOI assignment
- Dataset connection with ORCID IDs of authors
- How FAIRness is achieved?
 - **F** indable → through DOIs and ORCID IDs
 - **A** ccessible → because HARDMIN is a certified repository available to all HEAL-Link members
 - **I** nteroperable → usage of well established and trusted metadata schemas (OpenAIRE Guidelines v4 based on DataCite Metadata Schema)
 - **R** eusable → promoting dataset archiving based on CC licenses
- Interconnection of records with other repositories hosting related material



HARDMIN-Provided Integration Capabilities

- **Connectors**

- Datacite API Integration This integration allows for the automatic assignment of DOIs (Digital Object Identifiers) to new datasets added to the repository. It ensures that all datasets are easily citable and can be reliably referenced.

- **APIs:**

- REST API: HARDMIN offers a comprehensive REST API that allows for interaction with the repository, including creating, reading, updating, and deleting datasets. The REST API can be used for various automation tasks and integrating with other systems.

- **OAI-PMH**

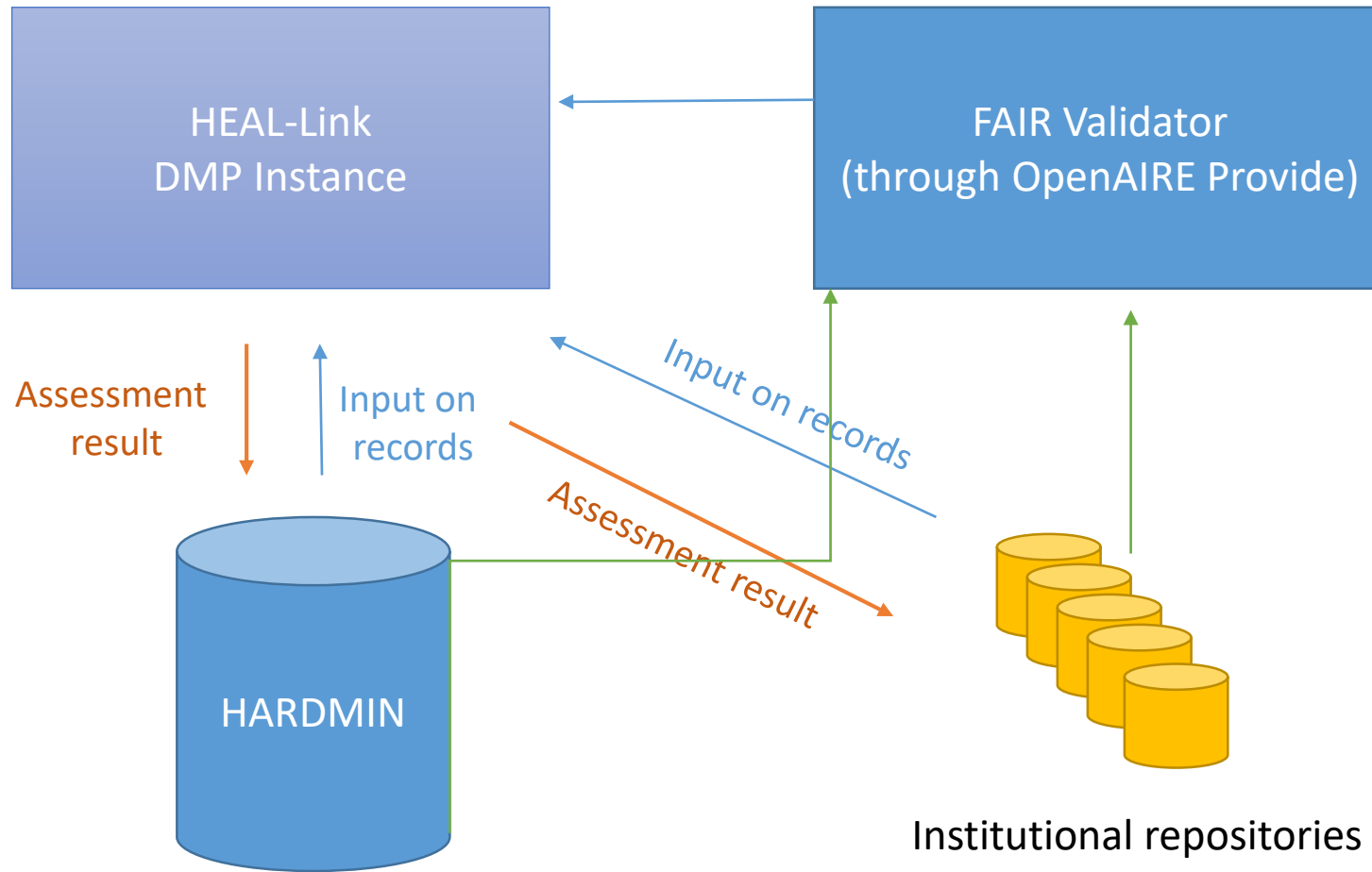
- (Open Archives Initiative Protocol for Metadata Harvesting): This protocol is enabled for harvesting metadata from other repositories, facilitating data sharing and interoperability.

Data Management Planning



- **DMP instance for maDMPs**
 - process of creating a plan for data management during a research project and after its completion
 - organize, store, share and maintain their data in a way that ensures its quality and the possibility of reusing it in the future
- **HARDMIN and DMP tool integration**
 - additional API endpoints for connecting records to machine actionable DMPs (maDMP)
 - By leveraging metadata from the HARDMIN repository, the DMP platform will automatically populate relevant fields, simplifying the DMP creation process for researchers and ensuring data consistency

Data Management Planning

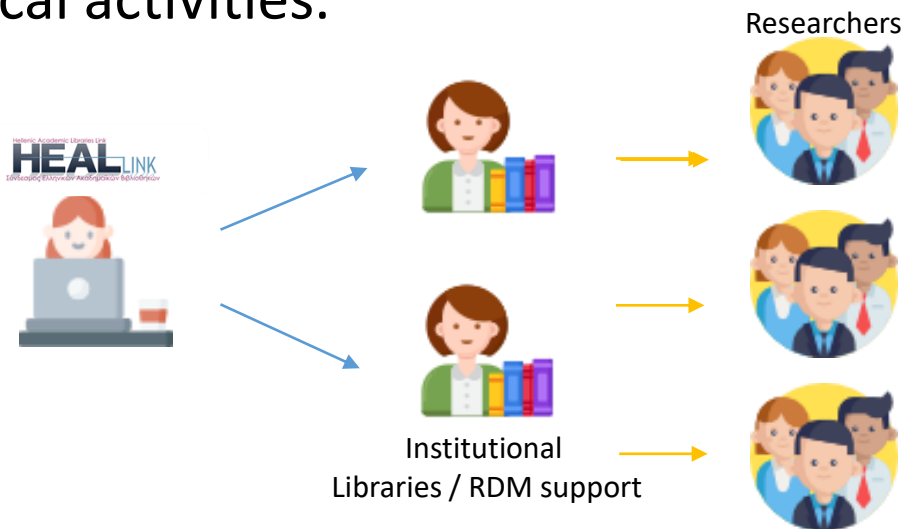


Academic dissemination and application

- Many stakeholders in the academic landscape
- Many stakeholders participate in the implementation of the European Open Science Cloud in Greece.
- In collaboration with "OpenAIRE-Advance" project on Open Access and Open Data in Europe (<https://www.openaire.eu/advance/>), constructive collaborations for the facilitation and acceleration of the procedure in Greece are being planned (webinars, Data Management Planning activities) .
- HEAL-Link and Academic Libraries have the ability and opportunity, with a highly trained staff, to be an important link in the chain between the Academic Community and the National Research Infrastructure Roadmap.

Academic dissemination and application

- **Establishing Regional RDM Trainers**
 - Identify and train representatives from each participating university to act as local champions for RDM practices.
 - Conduct intensive workshops to ensure they are well-versed in FAIR principles and proficient in tools like the HARDMIN Data Repository and the DMP tool.
 - Encourage institutions to act as knowledge multipliers in their institutions through seminars, on-campus sessions, and local activities.



Academic dissemination and application

- **Centralized Training Hub and Resource Library**
 - step-by-step guides, interactive e-learning modules on using FAIR data tools, tailored to the needs of HEAL-Link's members.
 - Organize regular live webinars, virtual Q&A sessions, to provide ongoing support and updates on new RDM developments.
 - Ensure materials and resources are regularly updated, incorporating feedback from university members
 - Engaging in international initiatives and projects (osTrails, PATTERN etc) to ensure alignment with European stakeholders

Academic dissemination and application

- Enhance individual institutional infrastructures
 - HEAL-Link has recently funded institutional repositories upgrade (2019 first batch / 2024 second batch)
 - Dspace 7
 - Support interoperability with HARDMIN Data Repository
 - Align with OpenAIRE Guidelines v4
 - Register Reps to OpenAIRE Provide to promote FAIR Data Assessment

Thank you

