

# The role and initiatives of HEAL-Link in advancing open science

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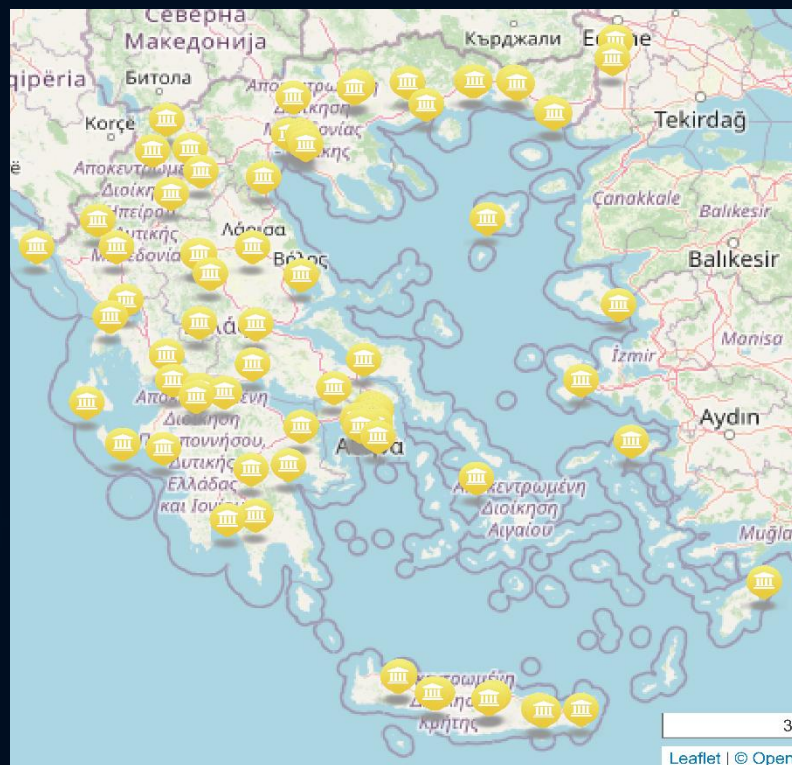
# HEAL-Link Consortium Members

Based in Greece

43 Institutions

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

24 are academic



# HEAL-Link Structure

- HL General Assembly
- Board of Directors
- Steering Committee for Electronic Resources
- HEAL-Link office
- Administrative base: the Aristotle University of Thessaloniki

## Funding

From the Ministry of Education, Religious Affairs and Sports

The Academic Institutions cover administrative costs based on the size and usage of the resources

# Open Science in academic institutions

- No national mandate or policy.
- There is a mention in the [Digital Transformation Bible 2020-2025](#) (document in Greek).
  - *Adoption of a National Strategy for Open Science in Greece*
  - *Strengthening national infrastructure and digital research services*
  - *National Open Science Cloud*
  - *Free availability and reuse of research data generated from public funding*
  - *Development and management of research software*
  - *Open access to Research Infrastructure*
  - *Upgrade of national, thematic, and institutional repositories and electronic scientific journals*
  - *Strengthening the National Research Web*



# Open Access

## More practices than policies

- No national mandate. Some mentions in the government laws.
- In the [resolution](#) of the 71<sup>st</sup> Hellenic Universities Rectors' Synod, the [Berlin Declaration](#) was signed and adopted the Open Access principle in the bibliography.
- In June 2018, HEAL-Link issued the [Declaration on Open Access in Greece](#), supported by the Ministry of Education, Research, and Religious Affairs through then Minister Kosta Gavroglou.
- In March 2019, the [resolution](#) of the 90<sup>th</sup> Hellenic Universities Rectors' Synod invited institutions to:
  - Develop and implement Open Access policies
  - Inform their professors and researchers.
  - Provide open access support structures and processes by the guidelines of the European University Association, the European Commission, and the largest research funding bodies in the European Union.
  - Make the self-archiving of publications in institutional or subject repositories and provide open access a precondition for funding from institutional resources.
  - Make resources available to cover Article Processing Charges that are imposed by the publishers of open access journals to support the golden open-access route.

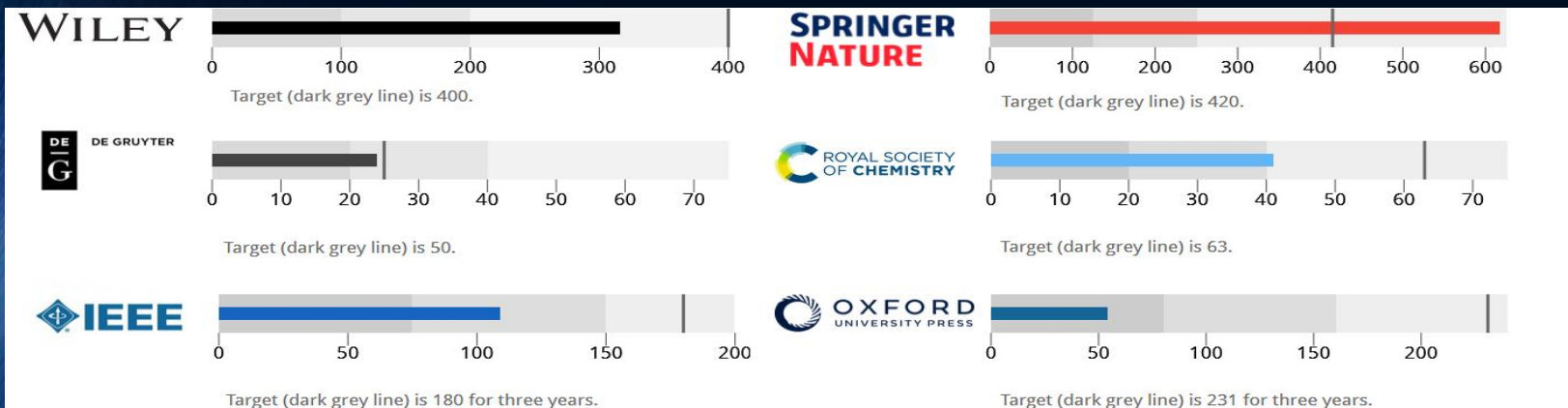
# Defining factors for OA transition

- 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)

# Read & Publish Agreements

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.



# Implementation of OA agreements

- 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](#)



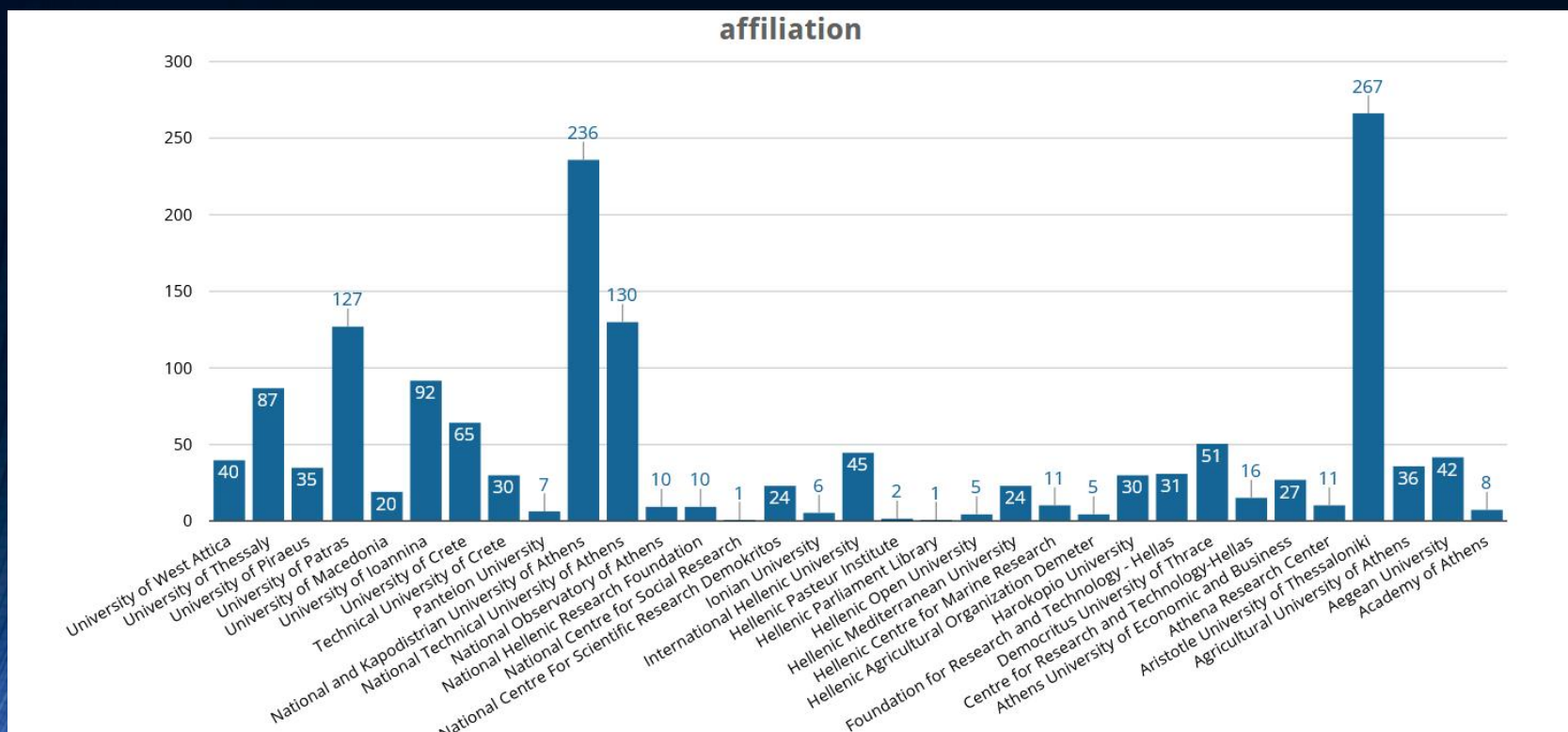
## Alignment of stakeholders (libraries, University leaders etc.)

- HEAL-Link General Assembly.
- Scholarly Communication Unit (University of Patras).
  - ✓ HEAL-Link OA Group: a representative from each participating University
    - Webinars
    - Meetings in person, brochures, questionnaires
  - ✓ Dissemination of a portion of the Greek scientific production
    - Research output, APC payments, etc.)
- Open Science Committee (Rectors' Synod).

# Engagement of the academic community

- Adjust the system of incentives.
- Adjustment of evaluation metrics of scientific publications.
- An opportunity to initiate their participation & presence in science communication, to become more visible and gain a reputation.
- Doubts regarding full governmental support.
- OS policy.

# OA publications in 2023 per University



# Open Data

## Hellenic Academic Research Data Management Initiative (HARDMIN)

- It aims to collect all the research data created by Greek researchers and academics.
- All researchers from Greek universities can connect to the repository with their credentials and easily upload their research data. Special editorial teams, either within an academic unit (e.g. laboratory manager) or at an institutional level (e.g. library staff), can make data public, which will have permanent identifiers. Also, it offers the ability to link with a unique ORCID identifier and published work, e.g., with a scientific journal article.
- It was developed with the open-source software CKAN and, together with Hellenic Data Service (HELIX), constitutes the national digital scientific infrastructure of software for providing catalogue and repository services for scientific data, as part of the infrastructure grid for Open Science.

Hellenic Academic  
Research Data Management  
Initiative





# Open educational resources

## Kallipos Initiative of Open Academic Textbooks

**960 published books with  
more than 3.500 daily  
visitors**
















- First phase 2013-2015
  - Budget: ~ 8M€
  - Production of 520 books in total:
    - Engineering & Informatics (164 books): 32%
    - Social & Economic Sc. (92 books): 18%
    - Math, Physics, Chemistry (89 books): 17%
    - Humanities (89 books): 17%
    - Medicine & Life Sciences (82 books): 16%
- Second Phase (KALLIPOS+) 2020-2024
  - Budget: ~ 10M€
  - Production of up to 700 books in total.
    - Humanities and Arts (198 books): 28%
    - Law & Social Sc. (129 books): 19%
    - Engineering & Technology (114 books): 16%
    - Mathematics & Computer Sc. (95 books): 14%
    - Natural Sc. & Agriculture (88 books): 13%
    - Medicine & Life Sc. (71 books): 10%

# Open Software

- Unified Search Engine to search all HEAL-Link sources: books and journals at an article level. Based on the VuFind software.
- Supported the implementation of institutional repositories in selective universities based on DSpace.
- ILSaS: Integrated Library System as a Service
  - A cooperative Library System among 17 + 3 academic institutions.
  - Ongoing project to migrate to Koha until early 2025:
    - Union Catalogue
    - 17 libraries will share a common infrastructure but separate catalogues
    - 3 will have independent installations
  - VuFind as discovery software

# Hellenic Open Science Initiative (HOSI)

- HEAL-Link is a founding member.
- National Open Science Cloud Initiative (NOSCI).
- Manages the national representation of the [European Open Science Cloud](#) (EOSC-A), and across its bodies and actions.
- Shapes the national strategy, initiatives, and actions for Open Science in Greece.
- Revises and specializes the [National Plan for Open Science](#) (in Greek).
- Provides specific recommendations to the Government, HOSI members, and stakeholders.
- 15 Members + Aristotle University of Thessaloniki (open; expanding), Governance via its General Assembly (1 vote per member) and its elected officials (President, Vice-president, Secretary).
- Collaboration ties with the [General Secretariat for Research and Innovation \(GSRI\)](#) and the Government but independent (self-governed, not funded); all resources contributed by its members.

	<b>ΑΘΗΝΑ</b> - Ερευνητικό Κέντρο Καινοτομίας στις Τεχνολογίες της Πληροφορίας, των Επικοινωνιών και της Γνώσης.		Εθνικό Κέντρο Κοινωνικών Ερευνών (ΕΚΚΕ)
	Ακαδημαϊκό Διαδίκτυο (GUnet)		Ελληνικό Ινστιτούτο Παστέρ (Ε.Ι. Παστέρ)
	Εθνικό Αστεροσκοπείο Αθηνών (ΕΑΑ)		Ελληνικό Κέντρο Θαλασσίων Ερευνών (ΕΛ.ΚΕ.Θ.Ε.)
	Εθνικό Δίκτυο Υποδομών Τεχνολογίας και Έρευνας (ΕΔΥΤΕ)		Ερευνητικό Κέντρο Βιοϊατρικών Επιστημών «Αλέξανδρος Φλέμιγκ»
	Εθνικό Ίδρυμα Ερευνών (ΕΙΕ)		Ίδρυμα Ιατροβιολογικών Ερευνών Ακαδημίας Αθηνών (ΙΙΒΕΑΑ)
	Εθνικό Κέντρο Έρευνας και Τεχνολογικής Ανάπτυξης (ΕΚΕΤΑ)		Ίδρυμα Τεχνολογίας και Έρευνας (ΙΤΕ)
	Εθνικό Κέντρο Έρευνας Φυσικών Επιστημών «ΔΗΜΟΚΡΙΤΟΣ» (ΕΚΕΦΕ «Δ»)		Οργανισμός Ανοικτών Τεχνολογιών (ΕΕΛ/ΛΑΚ)
			Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών (ΣΕΑΒ)

# National Plan for Open Science

- Delivered as a comprehensive proposal for officially establishing a National Open Science Strategy for Greece.
- Addressed to the Greek Government and Ministries, our Political Leadership, Research-funding organisations, as well as all national R&I actors.
- Fully aligned with the European Open Science Cloud (EOSC), as well as all EU Open Science policies.
- Also, a model for the self-adoption of Open Science principles by interested organisations.

## Objectives

### Adopt the National Strategy for Open Science

- Support national participation in the European Open Science Cloud (EOSC)
- Implement the required legal framework by 2021
- Plan the implementation of infrastructures for Open Science by 2021
- Horizontal coordination and monitoring of the implementation of Open Science by the National Council for Research, Technology, and Innovation

### Open Access to scientific publications supported by public funds

- Green Open Access by default from 2021
- Gold Open Access. Assess universal implementation and compliance with Plan S principles by 2024

### Open Access and reuse of research data supported by public funds

- Open data by default from 2021
- FAIR data management Pilot from 2022

### Development and management of Research Software

- Open source by default for research software produced with the support of public funds from 2021

### Open Access to National Research Infrastructures and e-Infrastructures

- Access Policies to Research Infrastructures and e-Infrastructures from 2022
- Sustainable operation and enhancement of national Research Infrastructures and e-Infrastructures





# Current Actions

- Three (3) Working Groups; open call for participation (non-members too).
- Revision of the National Open Science Plan .
- Update, review, and specialize (EOSC progress, national RI landscape).
- Open Science Education and Training.
- Collect, translate, adapt, package, and prepare open training courses (trainers + end users) for core OS topics.
- Software in support of Open Science.
- Identify open-source software (e.g., data catalogues) to support OS, assemble it in an open repository and package it.
- [HOSI website](#)
- Provide all background information and latest news on Open Science and EOSC to Greek scientists.
- Discover and reuse training courses, software and best practices.
- Assist in OS (e.g., organize training) and matchmaking with HOSI members.
- The Policy Support Facility (PSF) of Horizon Europe, in the [country report](#) designates HOSI as “the Greek Forum for Open Science”.



Ευχαριστούμε  
Thank you!  
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