



DABAR: Croatia's National Infrastructure for Digital Repositories

Draženko Celjak, SRCE - University of Zagreb University Computing Centre

PHAIDRAcon 2024, Vienna

14 November 2024



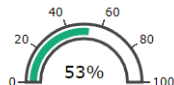
DABAR: National infrastructure for digital repositories

181

Number of repositories in DABAR

Last updated on*: 2024-11-03

Percentage of objects in open access



285146

Total of published objects in DABAR

- DABAR = Digital Academic Archives and Repositories
- Repository as a Service for Croatian research and higher education institutions
- Preservation and dissemination on the institution's internet domain

Croatian higher education and research system:

- ~226 institutions
- ~22K researchers
- ~142K students



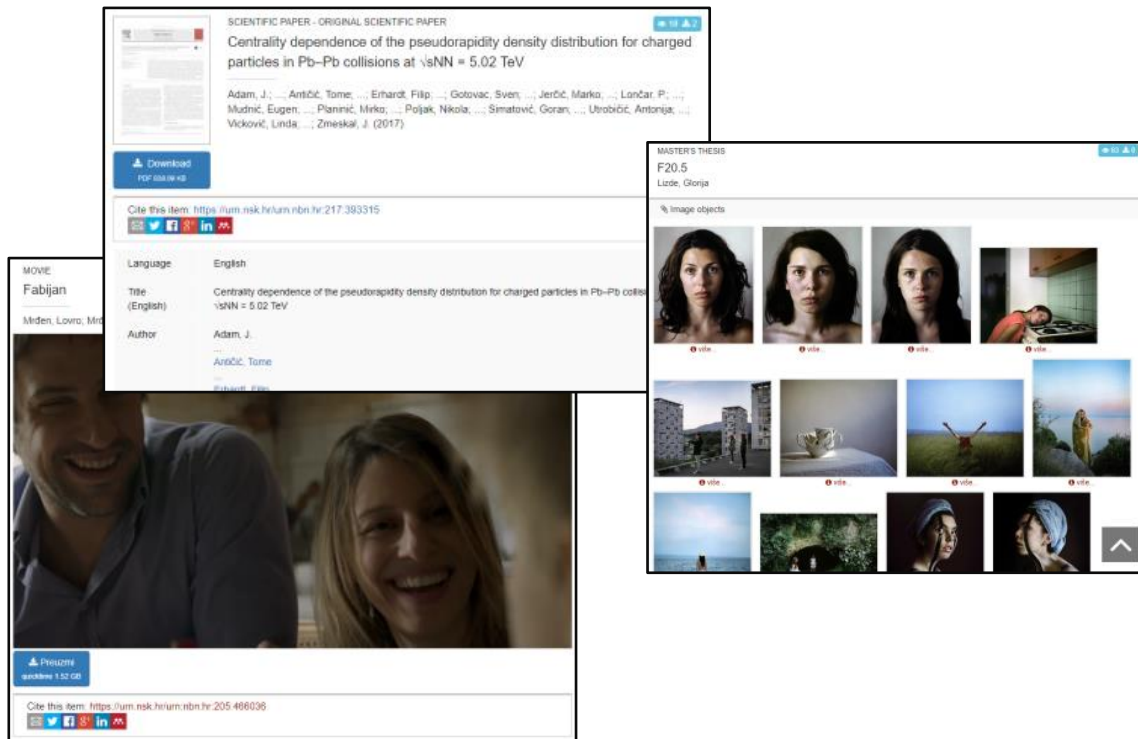
DABAR: 16 (nationally agreed) digital objects

- Journal articles
- Papers published in proceedings
- Books
- Book chapters
- Conference abstracts and presentations

- Theses
- Artistic theses
- Dissertations
- Appendices

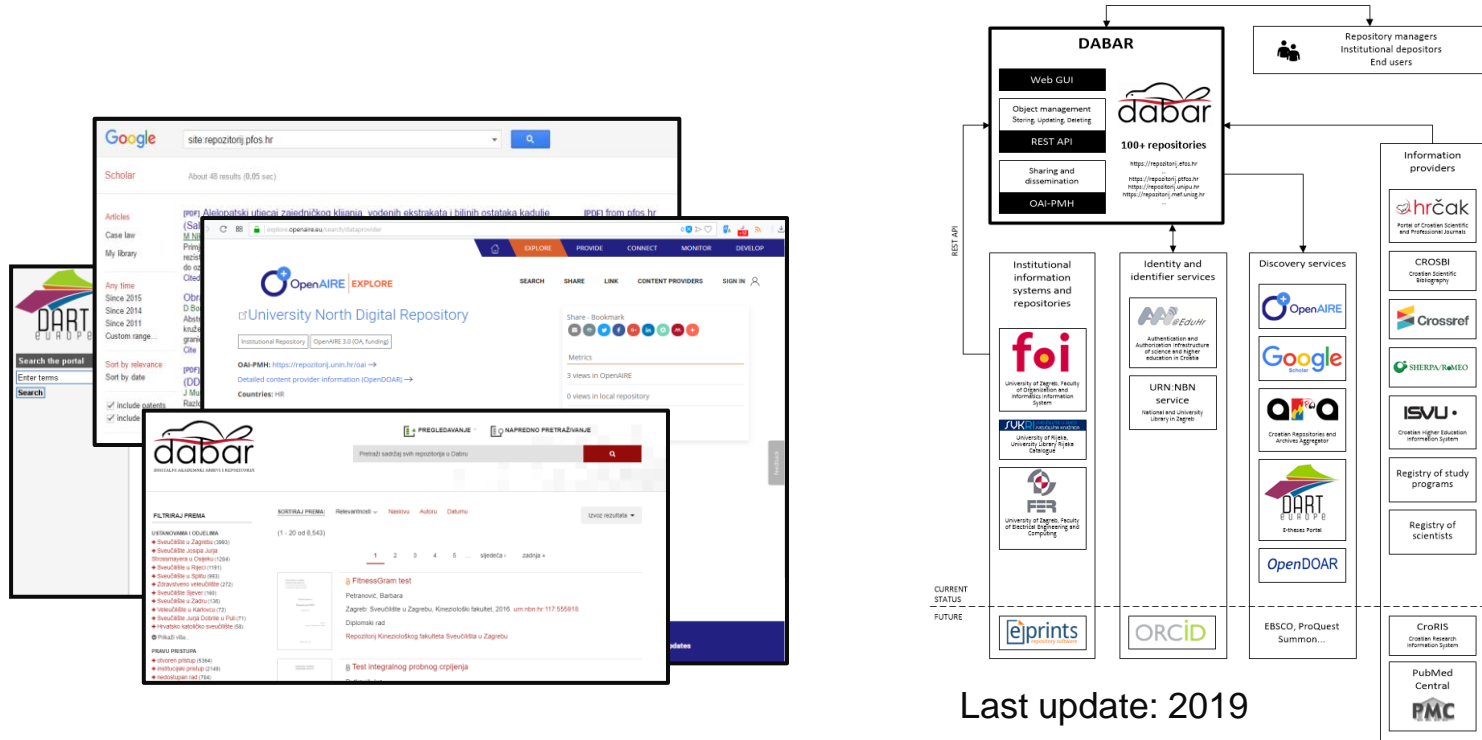
- Photographs
- Audio objects
- Audio-visual objects

- Educational resources
- Research data (datasets)
- Other documents (plans incl. DMPs, deliverables,...)
- Virtual collections





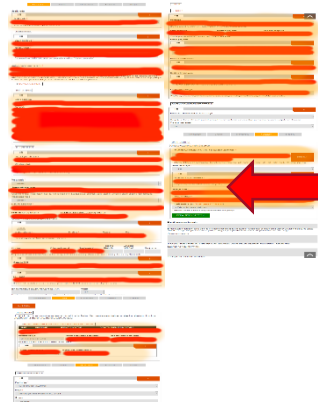
DABAR: integration with national and global systems



Last update: 2019



Rich metadata & efficiency

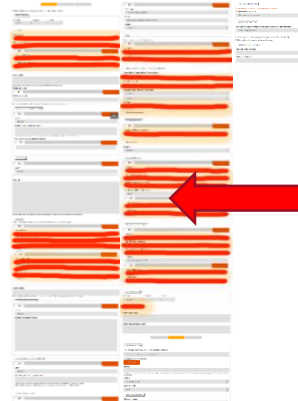


**Croatian Higher
Education
Information System
(ISVU)**

**Registry of Study
Programs**

AAI@EduHr

URN:NBN



**CroRIS (Bibliography,
Registry of Scientists,
Projects, Journals, ...)**

HRČAK (OAI-PMH, KBART)

DOI/CrossRef (API)

Sherpa / ROMEO

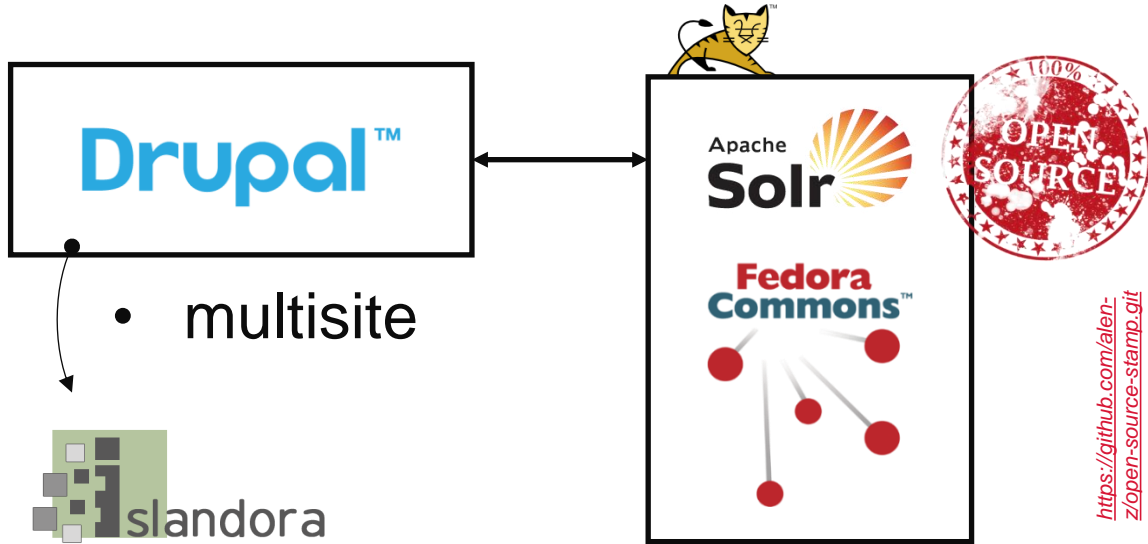
AAI@EduHr

URN:NBN





DABAR: Islandora



- Drupal 7.x
- Fedora 3.7.1
- Lines of programming code:
 - Islandora ~750k
 - DABAR ~300k



SRCE - University of Zagreb University Computing Centre



Organisation

~ 170 employees
11 organizational units
3 locations



Builds and operates national e-infrastructure and digital services

30 public services for the needs of the academic and scientific community in Croatia



Supports digital transformation of education, research and business

Promotes Open Science and Open Education

SRCE: Service Catalogue



Computing and networking

Access to computer resources for demanding calculations. Infrastructure for higher education and science.



Trust and identity

Ensuring safe, reliable and efficient electronic identity management.



Data, repositories and open science

Storage and open sharing of data and other results of operations in science and higher education.



Administration and business

Development and maintenance of information systems important for the work of institutions from the system of higher education and science.



Digital education

Development of digital competences and provision of support to institutions, teachers and students for the application of e-learning technologies and tools.



Digital tools

Tools that enable or facilitate the performance of tasks in a digital environment.





DABAR: the project

June 2014 – 3 main goals:

1. National infrastructure for digital repositories
 - scalable, interoperable, sustainable, flexible and suited for long term preservation, SaaS
2. Community
 - information needs, application profiles, controlled vocabularies, education and user support
3. Promotion of OA

August 2015 – production

- Support for the object graduation thesis





Software platform?





Community involvement

Coordinating committee (march 2016. - memorandum of understanding):

- SRCE
- Ruđer Bošković Institute
- University of Zagreb School of Medicine
- University of Zagreb Faculty of Humanities and Social Sciences
- National and University Library in Zagreb

10 working groups:

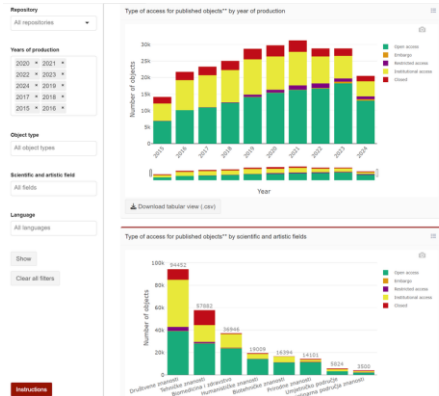
- Theses and dissertations
- Scientific and related works
- Image, audio and video content
- Interoperability
- Long-term preservation
- User functionality
- Copyright
- Education & Support
- Research Data
- Educational Resources

29 institutions



Functionalities

- Cover page
- Request a copy, watermarks
- Bookmarks
- Analytics, pivot tables
- ...



Fetuin-A Deficiency but Not Pentraxin 3, FGF-23, or Irisin, Predisposes to More Serious COVID-19 Course

Kukic, Mihalj; Mestryk, Tomislav; Demicki, Martin; Witznol, Marko; Gattilo, Aleksander; Pericajac, Miroslav; Skokovic, Magdalena; Hudy, Dorotea; Muzina, Barbara; Kacinca-Cabala, Branka; ...

Source: *Biomedicine*, 2025, 15

Journal article, Published version
Full-text version, Open Access, Single-Site (Institutional PDF)

DOI: <https://doi.org/10.1093/biomed/btad130>

Permanent link / Trajna poveznica: <https://dspace.unizg.hr/handle/12845/65612>

Rights / Prava: [Attribution 4.0 International license \(CC BY\)](#)

Download date: [Open Access Document](#) 2024-11-13

Repository / Repozitorij:
Repository of the University of Zagreb, Faculty of Medicine, UNIZG Repository

uniri UNIVERZITET U ZAGREBU
dabar

Pivot table: Description and republishings

Download tabular view (Excel)

Table	Count	Year of production	Year of production	Year of production	Year of production	Year of production	Year of production	Year of production	Year of production	Year of production	Year of production
Guidine objave objava	1	5,170	1	7	6,830	2,891	14,188				
Guidine uspostavne repozitorija											
Tijesev objave objava	1	6,830	1	62	10,224	2,023	24,784				
Tijesev objave objava	1	6,830	1	36	10,224	2,023	23,236				
Tijesev objave objava	1	6,830	1	625	14,121	3,293	28,764				
Naivni repozitoriji	36	10,224	1	644	15,276	5,424	29,828				
Samostalno	27	10,224	1	1,208	16,208	4,461	31,298				
Uspeli kandidati	104	6,830	1	1,347	16,763	2,263	29,813				
Visev repozitorija	801	4,921	1	920	10,816	1,849	29,807				
Vitci objava											
Vitci repozitorija											
Vitci uspostave											
Ukupno	1,293	74,279	6	4,681	102,008	19,875	127,051				



Challenges & plans

- Changes with Islandora (Drupal)
 - development of custom solution (based on PHP/Laravel) on top of Fedora, SOLR
 - eduGAIN authentication
 - migration in 2025/Q1
- Promotion of research data sharing and FAIR principles
 - lack of skilled support on institutions
 - large datasets (193.000+ files, 42+ TB, SFTP access)
 - better integration with national cloud storage service (based on NextCloud)
 - sensitive datasets?
- Research software sharing
 - GitLab vs repository...or GitLab & repository?
- Certification
 - CoreTrustSeal



Thank you!

<https://dabar.srce.hr/en>
dabar@srce.hr
drazenko.celjak@srce.hr



This material is available under the Creative Commons License
Attribution 4.0 International.

According to the Open Access Policy, Srce ensures that all research data made by Srce is accessible and free to use by the general public, especially educational and professional information and content derived from the actions and work of Srce.

www.srce.unizg.hr/en

creativecommons.org/licenses/by/4.0/deed.en



Data infrastructure & services for Open Science



CROATIAN OA JOURNALS

Since February 2006
548 scientific & professional journals (417 active)
299.000 + OA articles
70.000+ visits daily



PRESERVATION & DISEMINATION

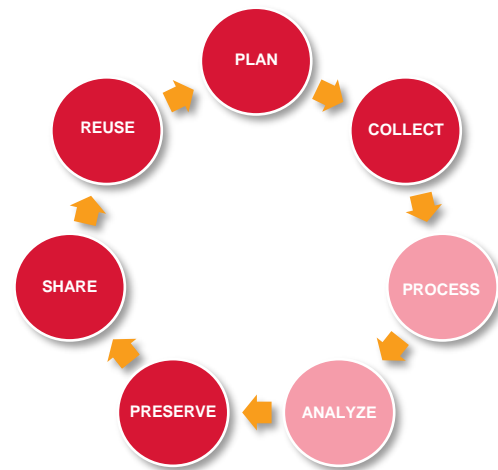
Digital archives and repositories

- ✓ 16 types of digital objects
- ✓ 181 digital repositories of research & HE institutions
- ✓ 286.000+ objects



(TEMPORARY) DATA STORAGE & MANAGEMENT SERVICE

- ✓ 650+ researchers and lecturers
- ✓ 440 TB of data





SRCE: Support for Open Science

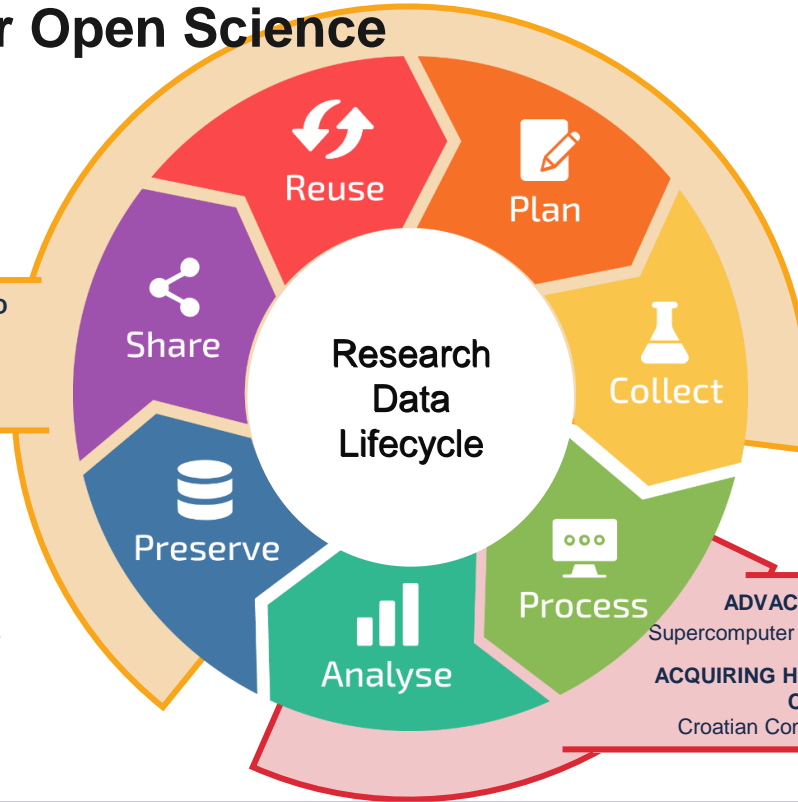
INFORMATION SUPPORT



Croatian Research Information System

DATA, REPOSITORY AND OPEN SCIENCE

Dabar | Hrčak | Puh
Support to Open Science



Supek

ADVANCED COMPUTING

Supercomputer Supek | resource Vrančić

ACQUIRING HPC COMPETENCE AND CONSULTING

Croatian Competence Center for HPC

Education and provision of specialized support in the use of digital resources and services