

DABAR - the national infrastructure for digital repositories

Celjak, Draženko

Conference presentation / Izlaganje na skupu

Permanent link / Trajna poveznica: <https://urn.nsk.hr/urn:nbn:hr:102:825381>

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Download date / Datum preuzimanja: **2024-04-19**



Repository / Repozitorij:

[Digital repository of the University Computing Centre \(SRCE\)](#)



DABAR – the national infrastructure for digital repositories

Draženko Celjak, SRCE – University of Zagreb, University Computing Centre

Digital Art History – Methods, Practices, Epistemologies / DARIAH day

Zagreb, 14 November 2018



SRCE – University of Zagreb, University Computing Centre

- main computing centre and the architect of the e-infrastructure
- covering both the University of Zagreb and the whole research and high education system



The project DABAR

June 2014

3 main goals:

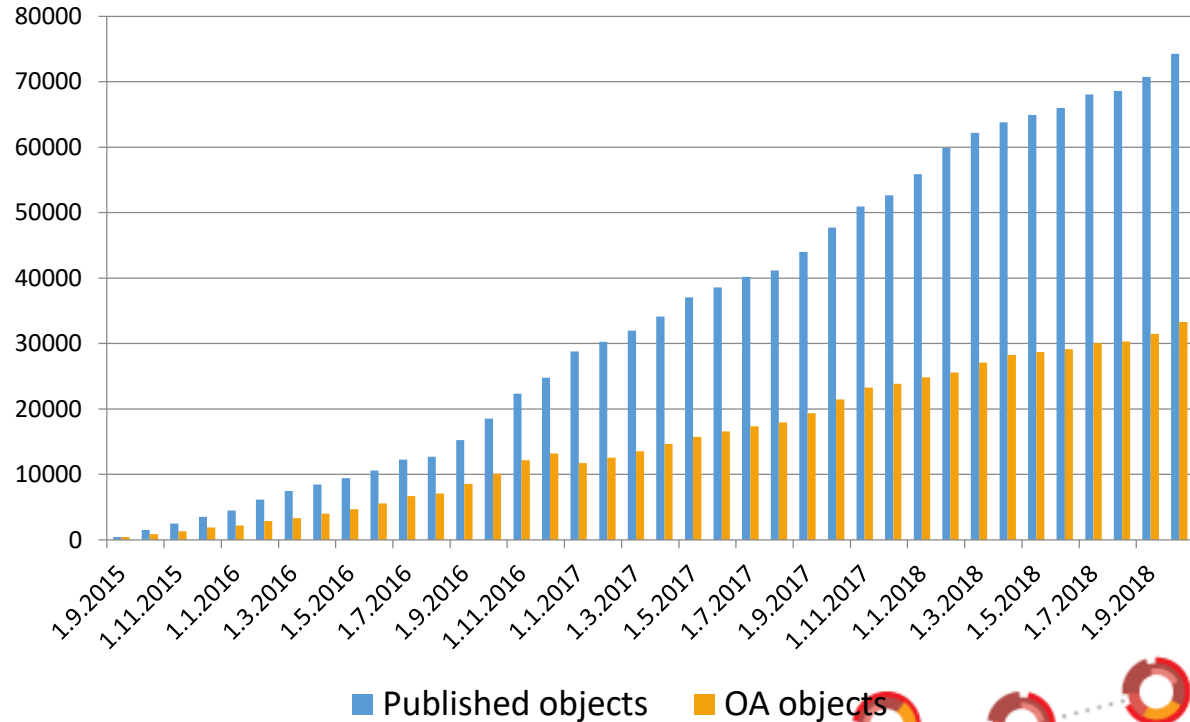
- National infrastructure for digital repositories
 - scalable, interoperable, sustainable, flexible and suited for long term preservation
- Community
 - information needs, application profiles, controlled vocabularies, education and user support
- Promotion of OA

Production: August 2015

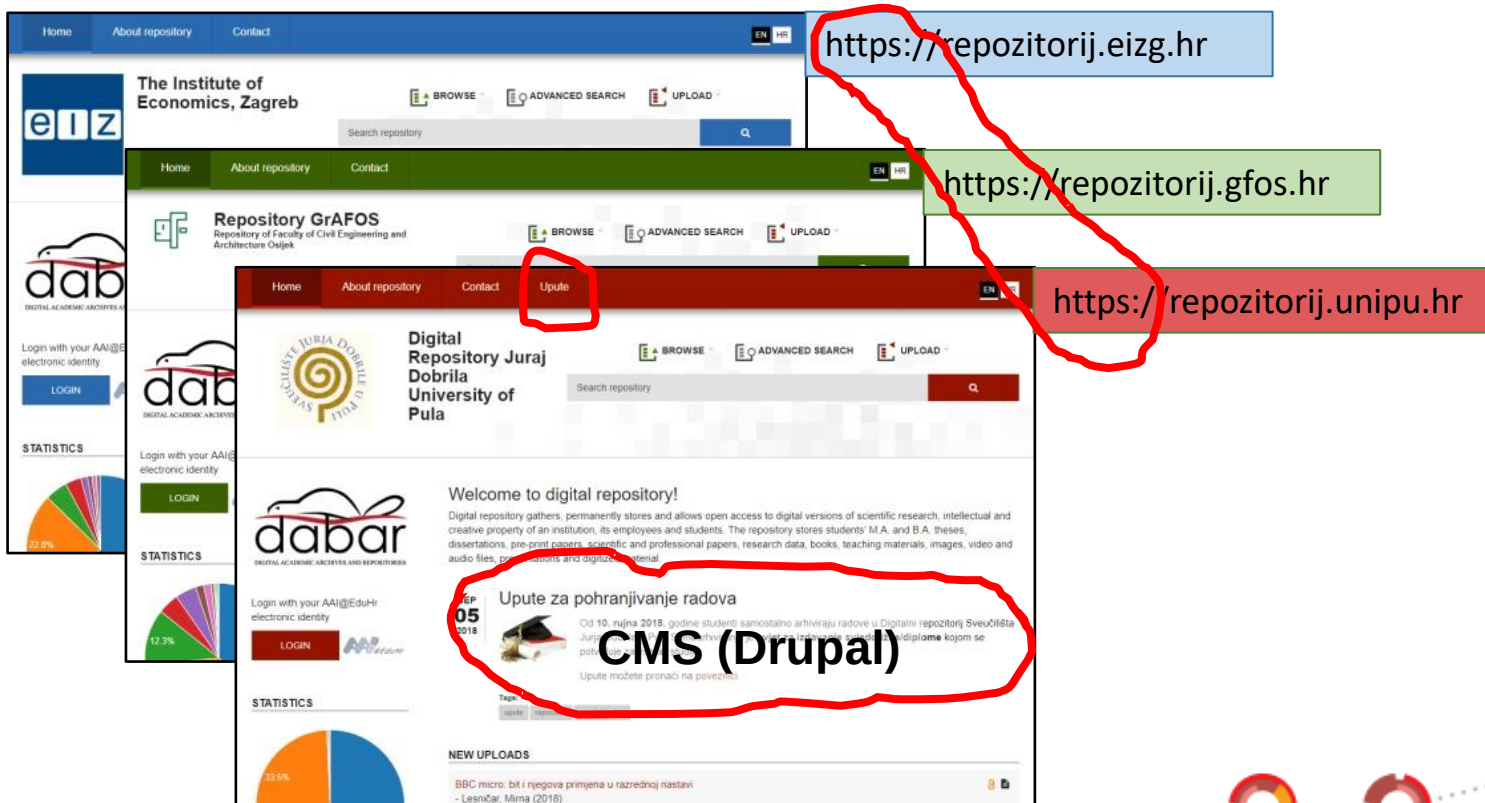


DABAR – Digital Academic Archives and Repositories

- 123 digital repositories
 - 10 universities
 - 2 national repositories
- 75.000+ digital objects
- 33.700+ OA



Repositories...



https://repozitorij.eizg.hr

https://repozitorij.gfos.hr

https://repozitorij.unipu.hr

Upute

Upute za pohranjivanje radova

CMS (Drupal)



- Theses
 - Artistic theses
 - Disertations
 - Appendices
-
- Photographs
 - Audio objects
 - Audiovisual objects



dabar
DIGITAL ACADEMIC ARCHIVES AND REPOSITORIES

[illegible]

Repositories...

The screenshot shows the Dabar repository interface. A red box highlights the language selection menu (EN, HR) in the top right. A grey box on the left shows a login form with fields for 'Korisnička oznaka' (username: pperic@srce.hr) and 'Zaporka' (password), a 'Prijava' button, and a 'Pomoć' link. Below the login form, a red box highlights the 'Prijava' button. Another red box highlights the 'Povezani objekti' (Linked objects) section, which includes a thumbnail of a photograph titled 'Jadrija (Fotografija)' by Zeljak, Ino. A third red box highlights the 'Citiranje koriste ova mrežna adresa' (Citations use this network address) section, which displays a list of social media icons (Twitter, Facebook, Google+, LinkedIn, YouTube) and a URL: 'https://um.nsk.hr/urn:nbn:hr:205:182732'. Three white boxes on the right are connected to these elements by lines: 'Linking objects' points to the 'Povezani objekti' section, 'Persistent identifier (URN:NBN)' points to the URL, and 'Sharng: social networks' points to the social media icons.

EN HR

Korisnička oznaka
pperic@srce.hr

Zaporka
.....

Prijava se Pomoć

Autentikacijska i autorizacijska infrastruktura znanosti i visokog obrazovanja u Republici Hrvatskoj

Prijava

Povezani objekti
Jadrija

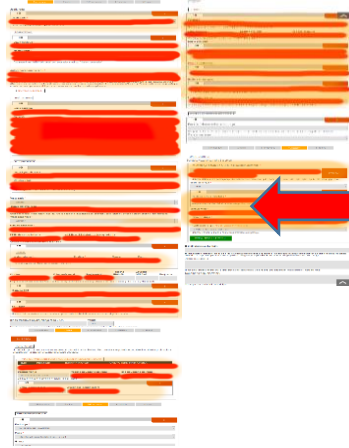
Citiranje koriste ova mrežna adresa: https://um.nsk.hr/urn:nbn:hr:205:182732

Linking objects

Persistent identifier (URN:NBN)

Sharng: social networks

Results: rich metadata vs efficiency

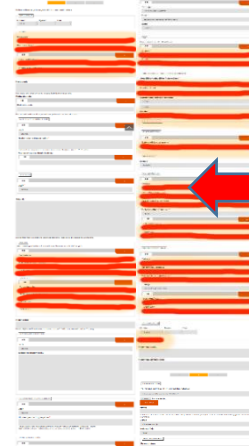


**Croatian Higher
Education Information
System (ISVU)**

**Registry of Study
Programs**

AAI@EduHr

URN:NBN



HRČAK (OAI-PMH, KBART)

CROSBİ (Web/MODS)

DOI/CrossRef (API)

Sherpa / ROME0

AAI@EduHr

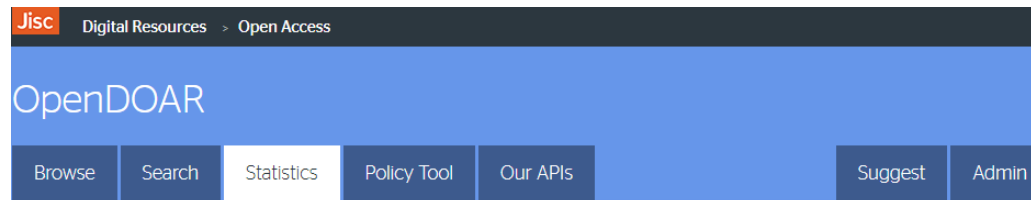
URN:NBN

Registry of Scientists

PubMed Central (API)

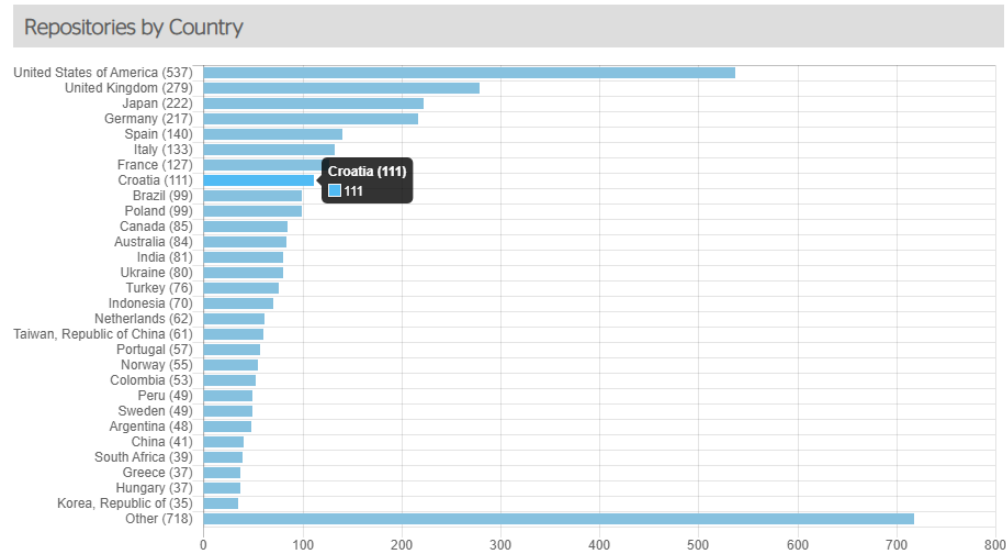


DABAR & OpenDOAR



OpenDOAR Statistics

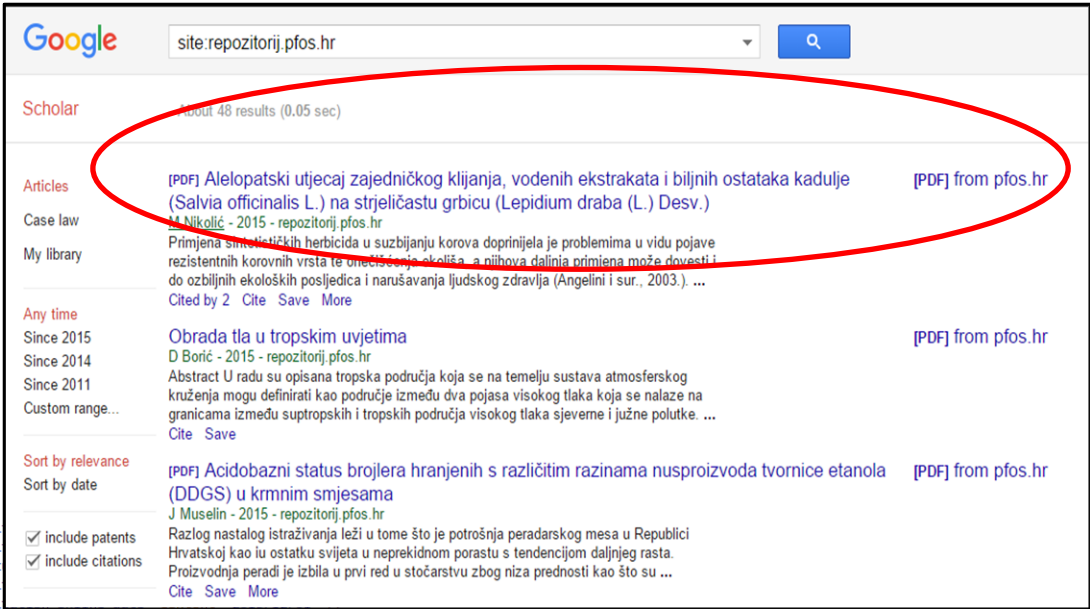
An overview of the data held in OpenDOAR



http://v2.sherpa.ac.uk/view/repository_visualisations/1.html



DABAR & Google Scholar



Google Scholar search results for `site:repozitorij.pfos.hr`. The search returned about 48 results in 0.05 seconds. The first result is highlighted with a red circle:

- Articles**
 - [PDF] Alelopatski utjecaj zajedničkog klijanja, vodenih ekstrakata i biljnih ostataka kadulje (Salvia officinalis L.) na strjeličastu grbicu (Lepidium draba (L.) Desv.)** [PDF] from pfos.hr
 - M. Nikolić - 2015 - repozitorij.pfos.hr
 - Primjena sintetičkih herbicida u suzbijanju korova doprinijela je problemima u vidu pojave rezistentnih korovnih vrsta te uništavanja ekološke sredine, a njihova daljnja primjena može dovesti i do ozbiljnih ekoloških posljedica i narušavanja ljudskog zdravlja (Angellini i sur., 2003.). ...
 - Cited by 2 Cite Save More
- Case law**
- My library**
- Any time**
 - Since 2015: Obrada tla u tropskim uvjetima [PDF] from pfos.hr
 - Since 2014: D. Borić - 2015 - repozitorij.pfos.hr
 - Since 2011: Abstract U radu su opisana tropska područja koja se na temelju sustava atmosferskog kruženja mogu definirati kao područje između dva pojasa visokog tlaka koja se nalaze na granicama između suptropskih i tropskih područja visokog tlaka sjeverne i južne polutke. ...
 - Custom range... Cite Save
- Sort by relevance**
- Sort by date**
 - [PDF] Acidobazni status brojlera hranjenih s različitim razinama nusproizvoda tvornice etanola (DDGS) u krmnim smjesama [PDF] from pfos.hr
 - J. Muselin - 2015 - repozitorij.pfos.hr
 - Razlog nastalog istraživanja leži u tome što je potrošnja peradarskog mesa u Republici Hrvatskoj kao i u ostatku svijeta u neprekidnom porastu s tendencijom daljnjeg rasta. Proizvodnja peradi je izmila u prvi red u stočarstvu zbog niza prednosti kao što su ...
 - Cite Save More

Filters: ☒ include patents, ☒ include citations

Metadata (HTML):

```
<meta name="citation_pdf_url" content="https://repozitorij.pfos.hr/islandora/object/pfos:42/datastream/PDF/download" />
<meta name="citation_language" content="hrv" />
<meta name="citation_keywords" content="alelopatski; zajedničko klijanje; vodeni ekstrakti; biljni ostaci; Salvia officinalis; Lepidium draba (L.) Desv.; allelopathy; cogermination; water extracts; plant residues; Salvia officinalis L.; Lepidium draba (L.) Desv." />
<meta name="citation_dissertation_institution" content="Josip Juraj Strossmayer University of Osijek. Faculty of agriculture. DEPARTMENT FOR PLANT PROTECTION." />
```



DABAR & OpenAIRE

explore.openaire.eu/search/dataprovider

EXPLORE PROVIDE CONNECT MONITOR DEVELOP

OpenAIRE | EXPLORE

SEARCH SHARE LINK CONTENT PROVIDERS SIGN IN

University North Digital Repository

Institutional Repository OpenAIRE 3.0 (OA, funding)

OAI-PMH: <https://repositorij.unin.hr/oai> →
Detailed content provider information (OpenDOAR) →

Countries: HR

Publications (1,174)	+
Research Data (4)	+
Software (0)	+
Other Research Products (24)	+
Organizations (1)	+
Statistics	+
Metrics	+

Share - Bookmark

Metrics

3 views in OpenAIRE

0 views in local repository

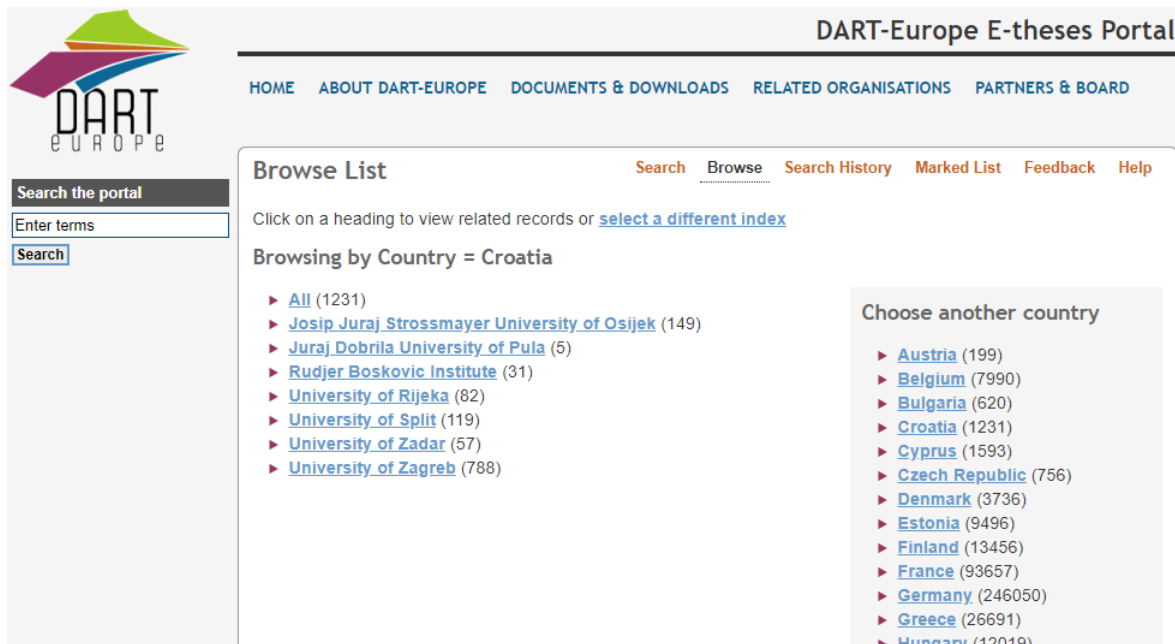
0 downloads in local repository

feedback

OpenAIRE Dashboards Support Updates



DABAR & DART Europe



The screenshot shows the DART-Europe E-theses Portal. On the left is a sidebar with the DART Europe logo and a search box. The main content area has a navigation bar with links like HOME, ABOUT DART-EUROPE, etc. Below this is a 'Browse List' section for Croatia, listing various institutions and their record counts. To the right of this list is a 'Choose another country' dropdown menu.

DART-Europe E-theses Portal

HOME ABOUT DART-EUROPE DOCUMENTS & DOWNLOADS RELATED ORGANISATIONS PARTNERS & BOARD

Browse List Search Browse Search History Marked List Feedback Help

Click on a heading to view related records or [select a different index](#)

Browsing by Country = Croatia

- ▶ [All](#) (1231)
- ▶ [Josip Juraj Strossmayer University of Osijek](#) (149)
- ▶ [Juraj Dobrila University of Pula](#) (5)
- ▶ [Rudjer Boskovic Institute](#) (31)
- ▶ [University of Rijeka](#) (82)
- ▶ [University of Split](#) (119)
- ▶ [University of Zadar](#) (57)
- ▶ [University of Zagreb](#) (788)

Choose another country

- ▶ [Austria](#) (199)
- ▶ [Belgium](#) (7990)
- ▶ [Bulgaria](#) (620)
- ▶ [Croatia](#) (1231)
- ▶ [Cyprus](#) (1593)
- ▶ [Czech Republic](#) (756)
- ▶ [Denmark](#) (3736)
- ▶ [Estonia](#) (9496)
- ▶ [Finland](#) (13456)
- ▶ [France](#) (93657)
- ▶ [Germany](#) (246050)
- ▶ [Greece](#) (26691)
- ▶ [Hungary](#) (12019)

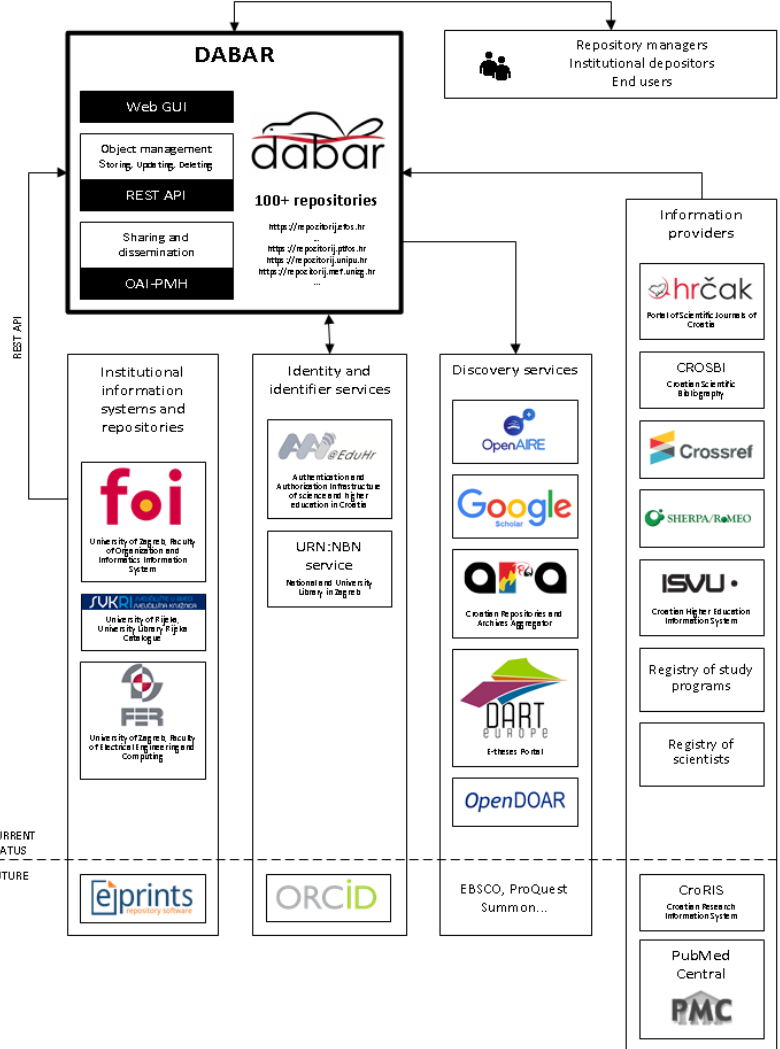
<http://www.dart-europe.eu/browse-list.php?country=Croatia>

“DART-Europe is a partnership of research libraries and library consortia who are working together to improve global access to European research theses.” (<http://www.dart-europe.eu/About/info.php>)



Interoperability

DABAR's integration with national and global e-infrastructure



Security

- Updates
- Firewalls
- Backup
- Archiving



Workshops

25 workshops for repository managers in Zagreb, Rijeka, Osijek, Split & Dubrovnik with **276 participants**

Topics:

- Introduction to repositories in DABAR
- Journal articles in DABAR
- DABAR & OpenAIRE
- Multimedia in DABAR



Community!

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:

ADU, DHMZ, DZIV, FFOS, FFZG, FOI, FSB, HRZ, **IEF**, **IPU**, IRB, IRO, KIF, MEDRI, MEF, MEFST, MUZA, NCVVO, NSK, PMF, PRAVRI, PTFOS, Srce, SVKRI, SVKST, UFZG, UNIOS, UNIPU, UNIZD



Roadmap 2018

- Research data (datasets) by the end of November 2018
 - First dataset: <https://urn.nsk.hr/urn:nbn:hr:232:359736>
 - RegCM4 Climate Change Adaptation Simulations
 - (Croatian Meteorological and Hydrological Service)

Infrastructure for FAIR data?

- Findable (PID, rich metadata, search funct., services)
- Accessible (HTTP)
- Interoperable (open formats, MODS/DC/DataCite, links)
- Re-usable (License, domain standards?)

Klimatska istraživanja

ZAHTJEVAJU VELIKE RAČUNALNE BRZINE I VELIKE SMJEŠTAJNE KAPACITETE ZA IZLAZNE PODATKE

Analizom dosadašnjih istraživanja utjecaja klimatskih promjena na sektore Republike Hrvatske zaključeno je da se većina istraživanja bavi specifičnim aspektima unutar sektora te da nedostaju istraživanja koja bi se bavila cjelnom određenog fenomena.

Nakon utvrđene potrebe za intenzifikacijom istraživanja vezanih uz utjecaje, ranjivost i prilagodbu klimatskih promjena 2016. godine Ministarstvo zaštite okoliša i energetike (MZOE) pokrenulo je projekt „Jačanje kapaciteta Ministarstva zaštite okoliša i energetike za prilagodbu klimatskim promjenama te priprema Nacrta Strategije prilagodbe klimatskim promjenama“ u sklopu kojega je izrađen „Nacrt Strategije prilagodbe klimatskim promjenama u Republici Hrvatskoj za razdoblje do 2040. godine s pogledom na 2070. godinu“.

Klimatske simulacije potrebne za izradu Nacrta izvršili su djelatnici DHMZ-a koji nove metode istraživanja klimatskoga sustava pomoću klimatskih modela primjenjuju još od početka stoljeća. Više informacija o projektu i rezultatima dostupno je na <http://prilagodba-kimi.hr>.

razvoj i primjena globalnih klimatskih modela - jedne od osnovnih metode u teorijom i računalnom opisu klimatskoga sustava

regionalni klimatski modeli - modeli koji omogućavaju tzv. dinamičku prilagodbu rezultata globalnih klimatskih modela i istraživanje razvoja klimatskoga sustava na prostornim skalama od izravno ljudskog interesa

KORIŠTENI RESURSI:

računalni:
64 radna čvora
1.702 procesorske jezgre

spremitelj:
220 TB HDD, 12 TB SSD i 30 TB mreža

programski podrška:
Regionalni klimatski model RegCM4:
programski jezik: Fortran 90

jezgeli i alat:
GNU i Intel precompilator, MVAPICH, NetCDF,
Ncview, NCO, CDO, QNADS

POTREBNI RAČUNALNI RESURSI

Resursi DHMZ-a nisu bili dostatni za ovakve kompleksne izračune, a i njihova je primarna namjena integracija atmosferskog modela za potrebne svakodnevne prognoze vremena. Stoga su, za potrebe projekta, korišteni resursi novonabavljenog superračunala VELEBIT, za čiji su smještaj i programsko održavanje zaduženi djelatnici Srca.

Za simulaciju klimatskog modela jedne godine bilo je potrebno dva dana neprekidnog računanja. Izračun je trajao šesnaest mjeseci.

Po završetku projekta izlaze podatke dobivene regionalnim klimatskim modelom - preko 200 TB - trebalo je smjestiti i učiniti brzo dostupnim, pa je za te potrebe odabran sustav repozitorija Dabar.





Roadmap 2019

- Educational object (based on Learning Object Metadata)
- Generic document (plan, report, deliverable, technical documentation, study...)
- Central portal in 2019
- <https://dabar.srce.hr/roadmap>



Open infrastructure!



- developement
- multisite



<https://github.com/alien-z/open-source-stamp.git>

+ Jenkins, Selenium, Git, ...



Thank you!

<https://dabar.srce.hr>
dabar@srce.hr



www.srce.unizg.hr

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Srce politikom otvorenog pristupa široj javnosti osigurava dostupnost i korištenje svih rezultata rada Srca, a prvenstveno obrazovnih i stručnih informacija i sadržaja nastalih djelovanjem i radom Srca.

www.srce.unizg.hr/otvoreni-pristup

