

Infrastructure for Open Science : Research Data and Publications

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





Infrastructure for Open Science: Research Data and Publications

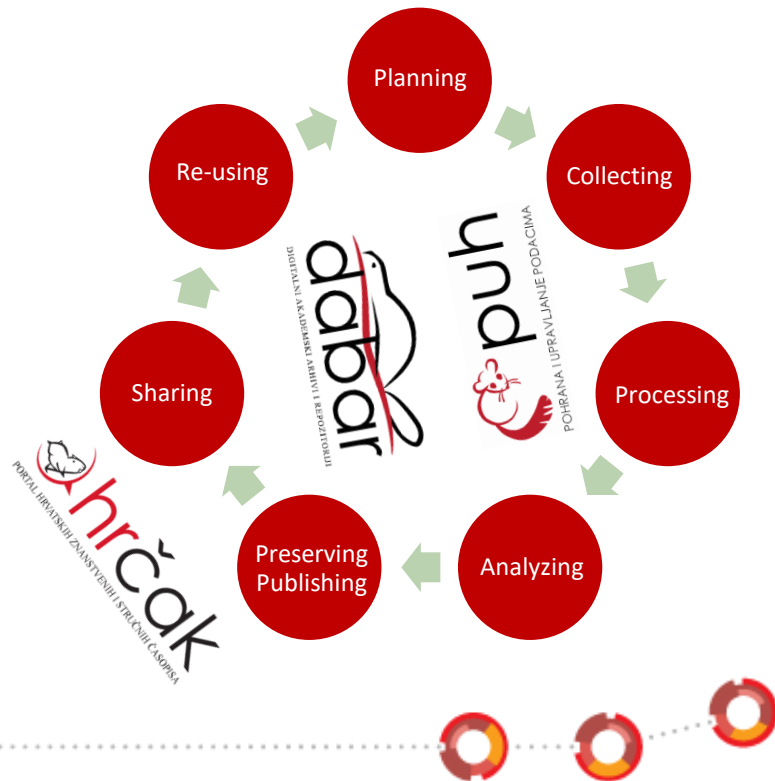
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SRCE – University of Zagreb, University Computing Centre

*PUMBET2020 :The 7th Conference on Scholarly Communication and
Publishing in the Context of Open Science*

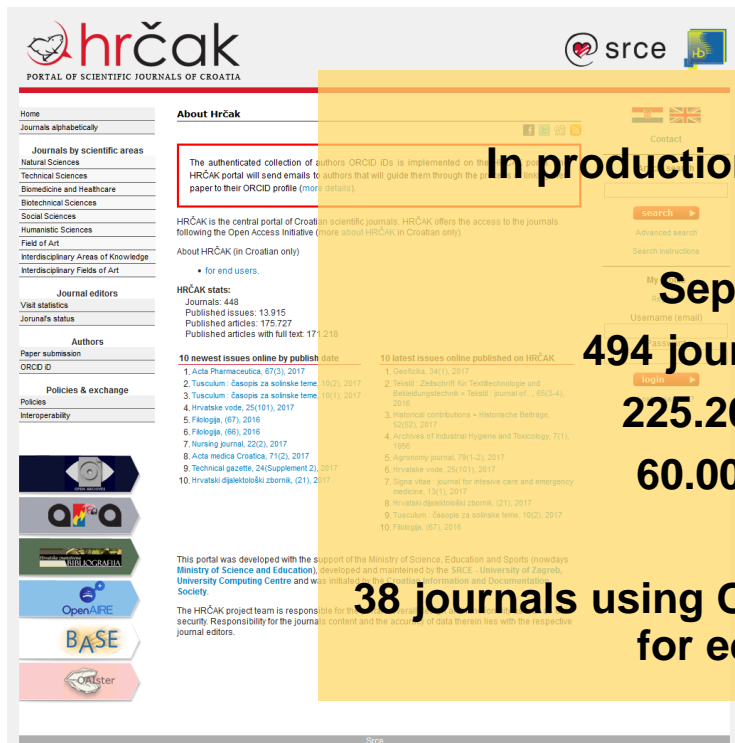
17 September 2020

Srce in Research Data Life Cycle

- SRCE:
 - e-infrastructure for HiEd & Research
 - ~ 50 services
 - 2 data centers
 - reliable operations (24/365)
 - ICT competence centre
 - training & support
 - actively support OA and Open Science
 - whole range of services supporting research data life cycle



HRČAK - Portal of Croatian Scientific and Professional Journals



The screenshot shows the HRČAK portal interface. A red box highlights a message: "The authenticated collection of authors ORCID IDs is implemented on the HRČAK portal will send emails to authors that will guide them through the process of linking their paper to their ORCID profile (more details)." Below this, the portal lists various scientific areas and journals. A list of 10 latest issues online is provided, including titles like "Acta Pharmaceutica", "Tusculum", and "Hrvatski vješt". The footer mentions the portal was developed with support from the Ministry of Science, Education and Sports and the SRCCE - University of Zagreb, Faculty of Science and Education.

In production since February 2006

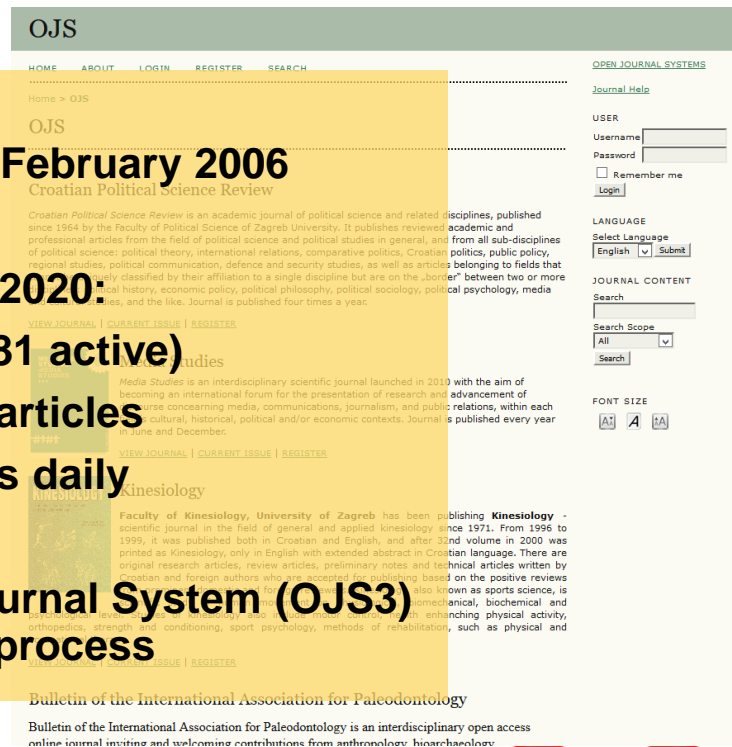
September 2020:

494 journals (381 active)

225.200+ OA articles

60.000+ visits daily

38 journals using Open Journal System (OJS3)
for editorial process



The screenshot shows the OJS interface for the "Croatian Political Science Review". It includes a header with "OJS" and navigation links like HOME, ABOUT, LOGIN, REGISTER, and SEARCH. The main content area displays the journal's title and a description: "Croatian Political Science Review is an academic journal of political science and related disciplines, published since 1964 by the Faculty of Political Science of Zagreb University. It publishes reviewed academic and professional articles from the field of political science and political studies in general, and from all sub-disciplines of political science: political theory, international relations, comparative politics, Croatian politics, public policy, regional studies, political communication, defence and security studies, as well as articles belonging to fields that are closely classified by their affiliation to a single discipline but are on the 'border' between two or more disciplines, such as political history, economic policy, political philosophy, political sociology, political psychology, media studies, and the like. Journal is published four times a year." The right sidebar contains user login fields (Username, Password, Remember me, Login), language selection (English), and search options (Search Scope, Search). The footer mentions the journal is published by the Faculty of Kinesiology, University of Zagreb, and is an interdisciplinary open access online journal.

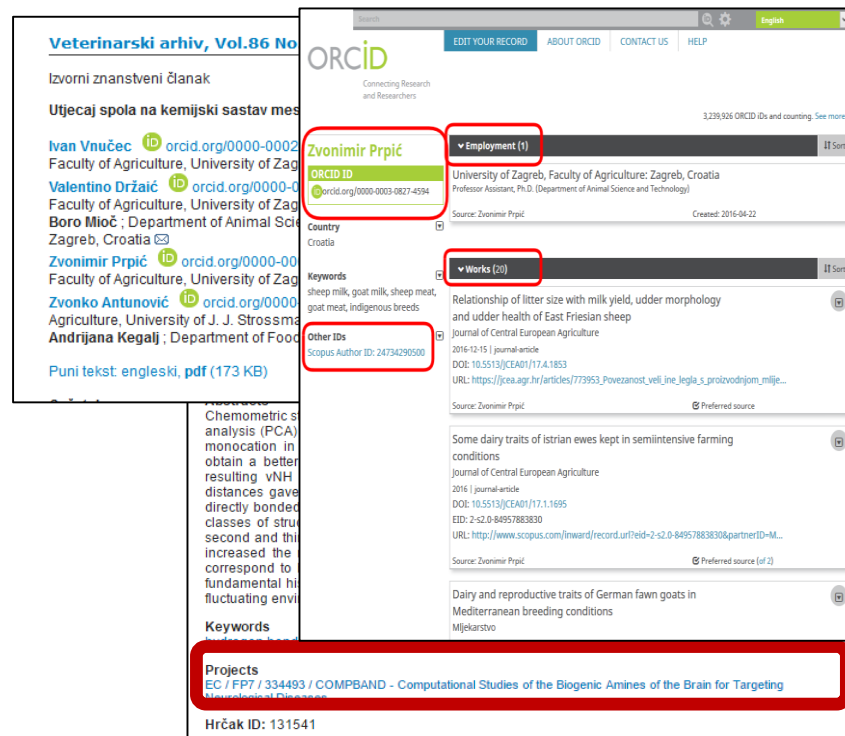
Interoperability & Unique Identifiers

• ORCID

- 17.000+ authors are using their ORCID iDs
- 43.300+ connections between papers and ORCID

• funder / project information

- OpenAIRE (FP7, H2020, WellcomeTrust...)
- PDB@IRB (MZO, HRZZ)



The screenshot displays the ORCID iD profile of Zvonimir Prpić. The profile includes the following sections:

- Employment (1):** University of Zagreb, Faculty of Agriculture; Zagreb, Croatia. Professor Assistant, Ph.D. (Department of Animal Science and Technology). Source: Zvonimir Prpić. Created: 2016-04-22.
- Works (20):**
 - Relationship of litter size with milk yield, udder morphology and udder health of East Friesian sheep. Journal of Central European Agriculture. 2016-12-15 | journal-article. DOI: 10.5513/JCEA01/17.4.1853. URL: https://jcea.agr.hr/articles/773953_Povezanost_veli_line_legla_s_proizvodnjom_milje...
 - Some dairy traits of istrian ewes kept in semiintensive farming conditions. Journal of Central European Agriculture. 2016 | journal-article. DOI: 10.5513/JCEA01/17.1.1695. EID: 2-42.0-84957883830. URL: http://www.scopus.com/inward/record.uri?eid=2-42.0-84957883830&partnerID=ML...
 - Dairy and reproductive traits of German fawn goats in Mediterranean breeding conditions. Mljekarstvo.
- Projects:** EC / FP7 / 334493 / COMPBAND - Computational Studies of the Biogenic Amines of the Brain for Targeting Neurophobic Diseases.

The HRčak ID is 131541.

Advanced Formats

- XML format
 - JATS - Journal Article Tag Suite (NISO standard)
 - content mining
 - format migration
 - presentation (references, tables,...)
- 31 journals / 164 issues / 1834 articles



Current Development: Rewrite

- easier maintenance and adding of new functionalities
- visual and logical redesign of the interface
- **possibility to link paper with research data (identifier or URL)**
- **possibility of adding supplements to the paper**
- support for mobile technologies
- interface compliant with accessibility standards



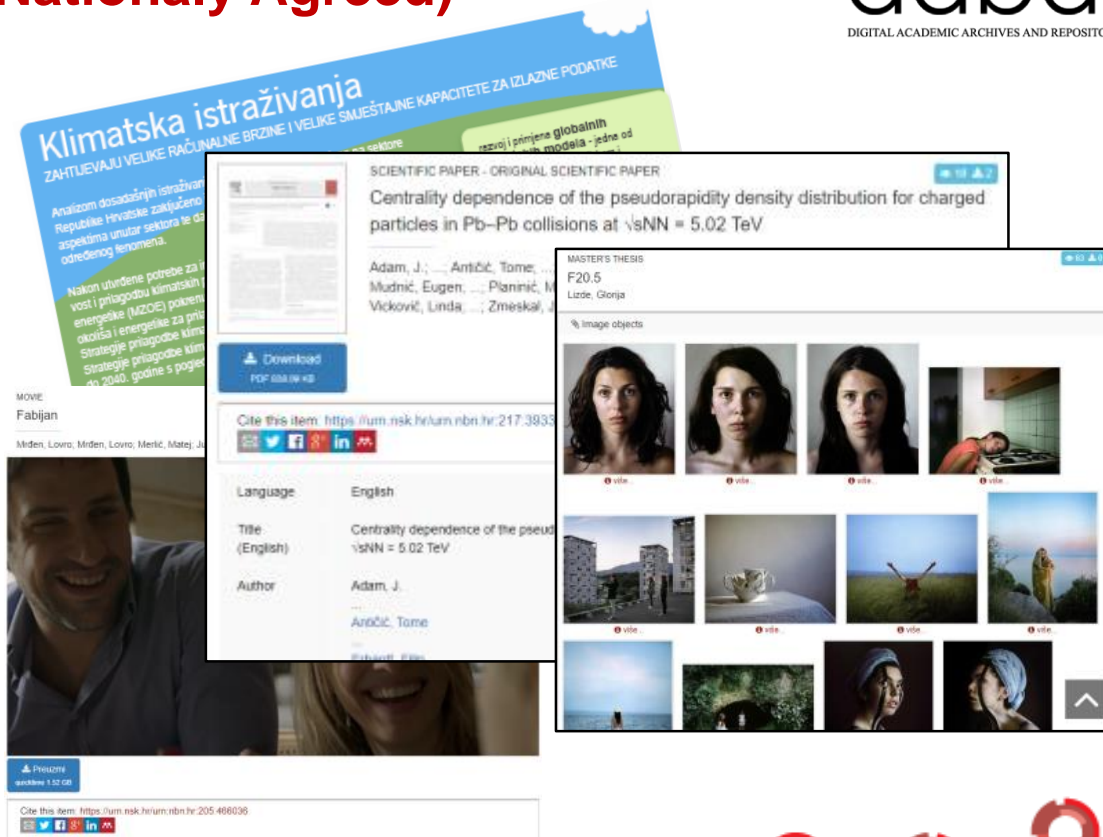
DABAR – Digital Academic Archives and Repositories

- in production since August 2015
- 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
- September 2020:
 - 142 repositories of Croatian HiEd & Research institutions (2 national repositories)
 - 128.800+ objects
 - 45,5% OA



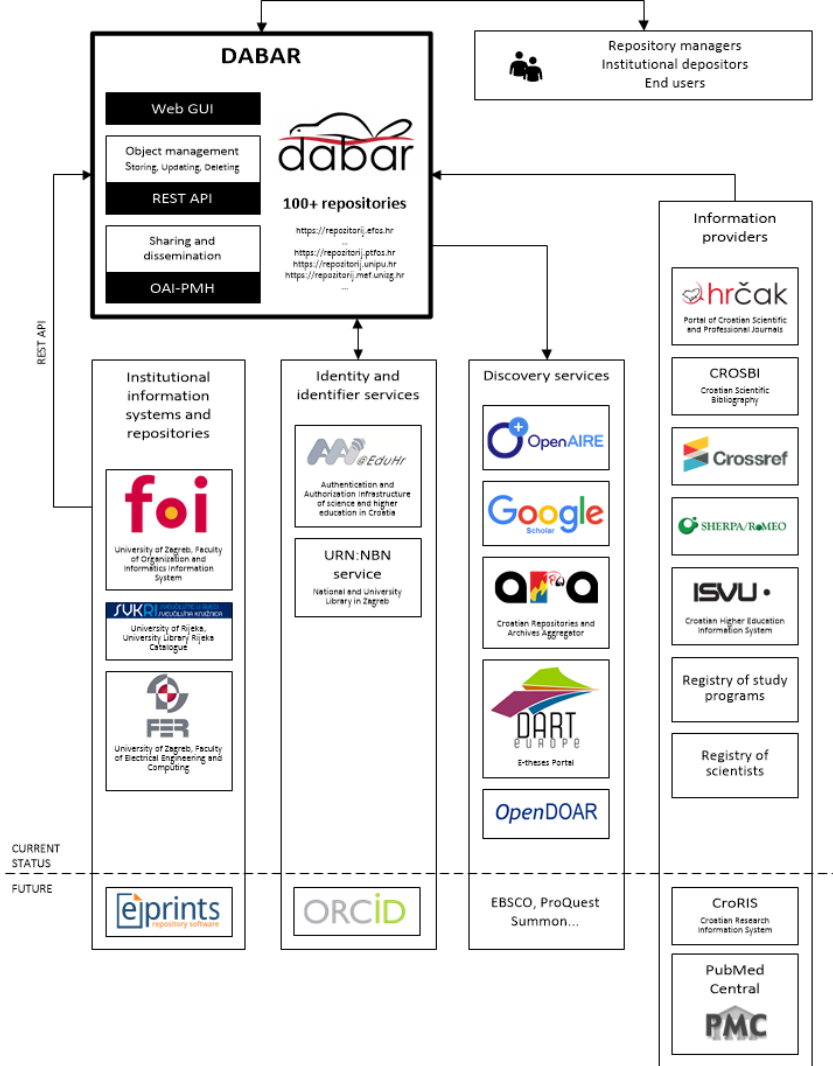
15 Digital Object Types (Nationally Agreed)

- Journal articles
- Papers published in proceedings
- Books
- Book chapters
- Conference abstracts and presentations
- Other document types: reports, plans, technical documentation, studies,...
- Theses
- Artistic theses
- Dissertations
- Appendices
- Photographs
- Audio objects
- Audio-visual objects
- Research data (**FAIR datasets**)
- Educational resources: experiments, courses, demonstrations,...



Interoperability

- with national and global services & e-infrastructure(s)



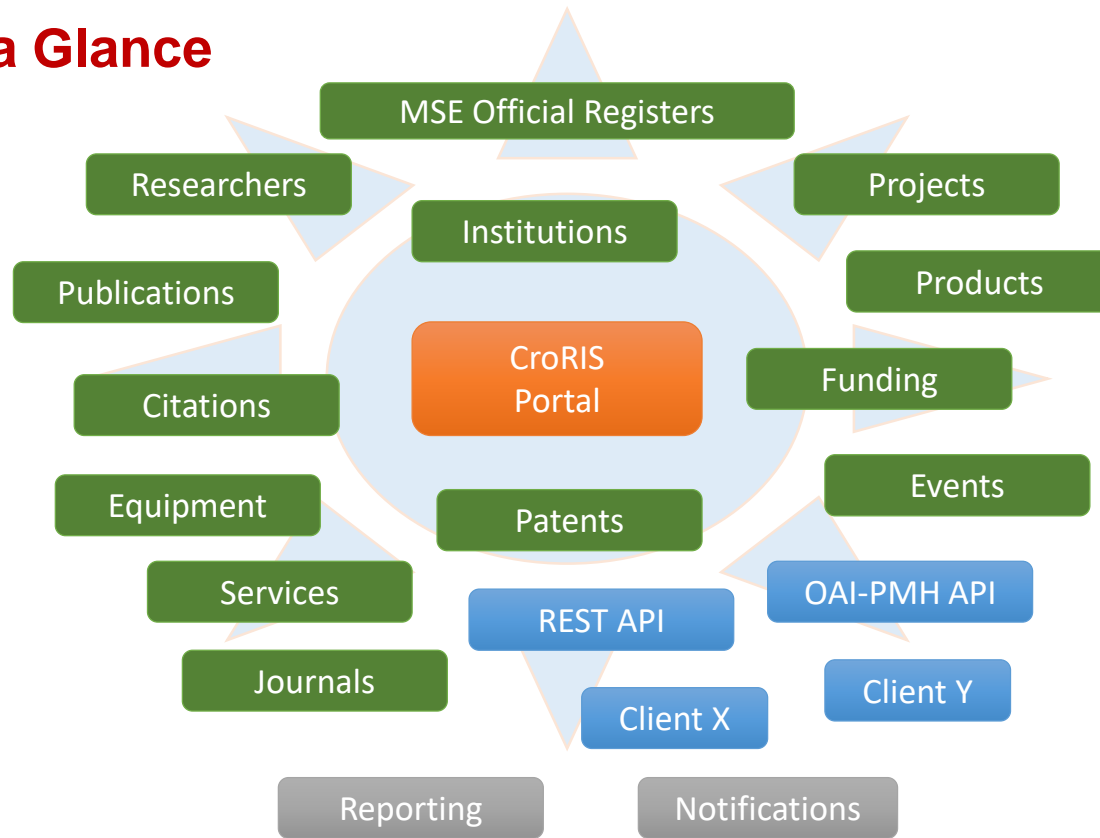
CroRIS - Croatian Research Information System

- part of Scientific and Technological Foresight project (EU funded)
- in development until Dec 2022
- will be gradually put in production

- CroRIS will
 - provide comprehensive, complete and reliable (accurate) RI in Croatia
 - be the foundation for decision making on all levels
 - facilitate and promote open science
 - support the business needs of
 - MSE and other government institutions regarding research and science
 - institutions
 - researchers
 - be open and interoperable with other systems in Croatia and abroad



CroRIS at a Glance



CroRIS - Future Interactions

Universities

Higher education

Institutes

Individuals

Management / administrators / researchers / libraries / repositories

Ministry of Science and Education

National Council for Science ...

National and University Library

Croatian Science Foundation

Croatian Employment Institute

Ministry of Public Administration

Agency for Science and Higher Education

Agency for Mobility and EU Programmes

Croatian Intellectual Property Office

Croatian Bureau of Statistics

Ministry of Economy

CroRIS

Other national A/R
systems and
repositories

Srce

RBI

OpenAIRE

ORCID

Scopus

WoS

...

Conclusion

- **HRČAK** = journal articles (with the support for linking to research data in near future)
- **DABAR** = all research outputs with institutional support (including support for research data)
- **CroRIS** will:
 - copy available metadata from HRČAK & DABAR and pair them to the existing data on researchers, projects, publications, journals and like
 - provide a more comprehensive research information to the public
 - enable the deep linking between the systems
- provide information to HRČAK & DABAR about researchers, institutions, projects, publications, events to smooth the process of data entry
- enable the users of CroRIS to initiate entry of the data (e.g. storing research data in DABAR)
- eliminate any need for data duplication
- speed up the processes



Thank you!

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

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

<https://www.srce.unizg.hr/croris> <croris@srce.hr>



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