# Infrastructure for Open Science : Research Data and Publications

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**Conference presentation / Izlaganje na skupu**

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srce
Sveučilište u Zagrebu
Sveučilišni računski centar

*Repository / Repozitorij:*

Digital repository of the University Computing Centre (SRCE)

dabar
DIGITALNI AKADEMSKI ARHIVI I REPOZITORIJI

# Infrastructure for Open Science: Research Data and Publications

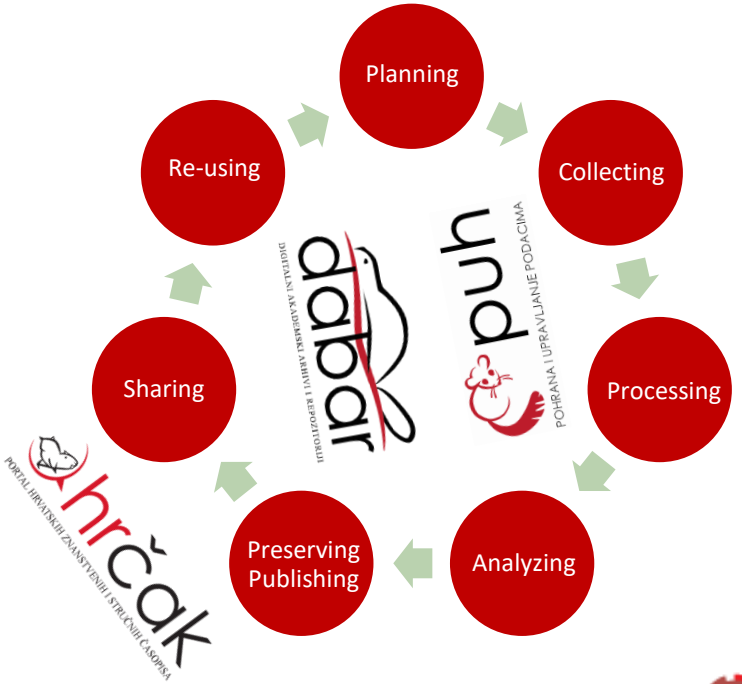
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SRCE – University of Zagreb, University Computing Centre

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

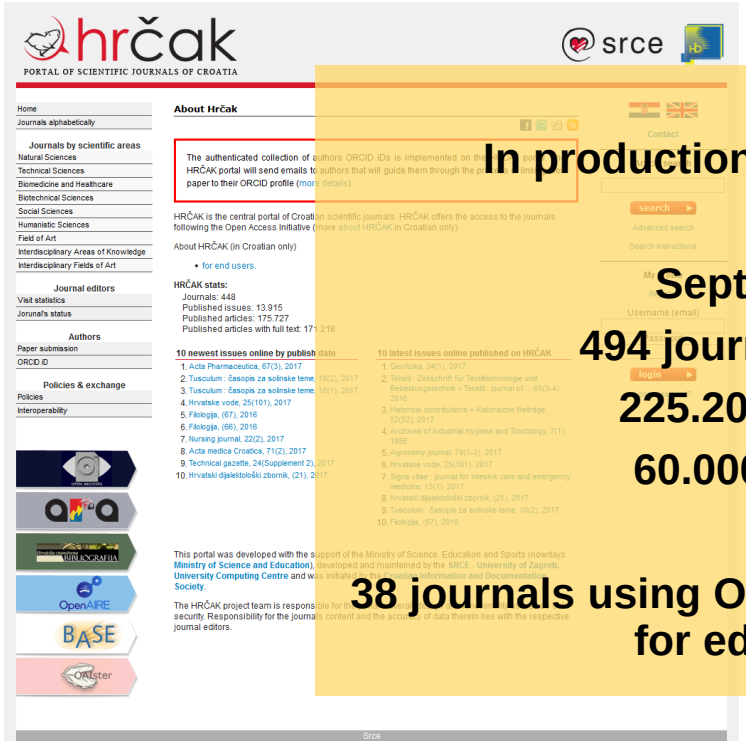
17 September 2020

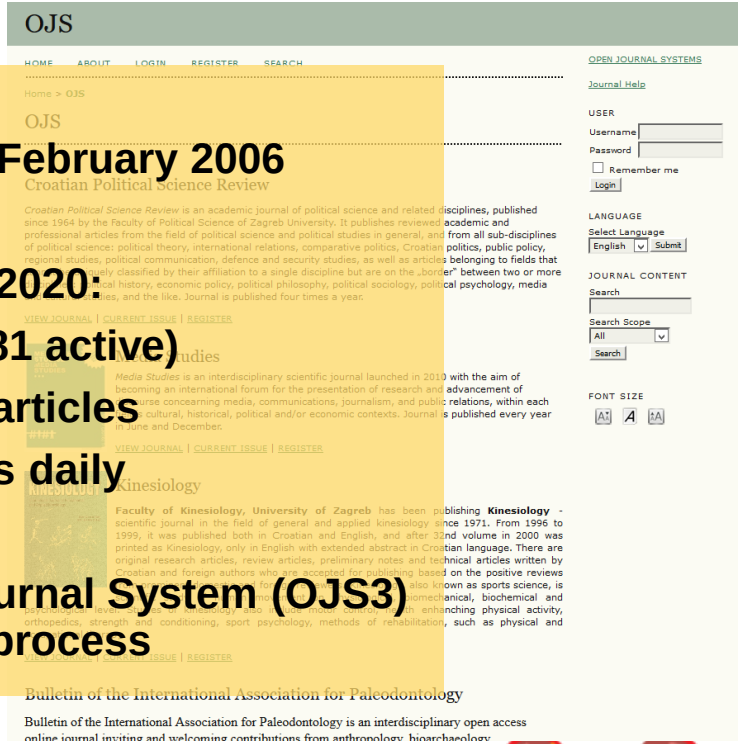
# Srce in Research Data Life Cycle

- 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




**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**

# 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, WelcomeTrust…)
  - PDB@IRB (MZO, HRZZ)



# 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

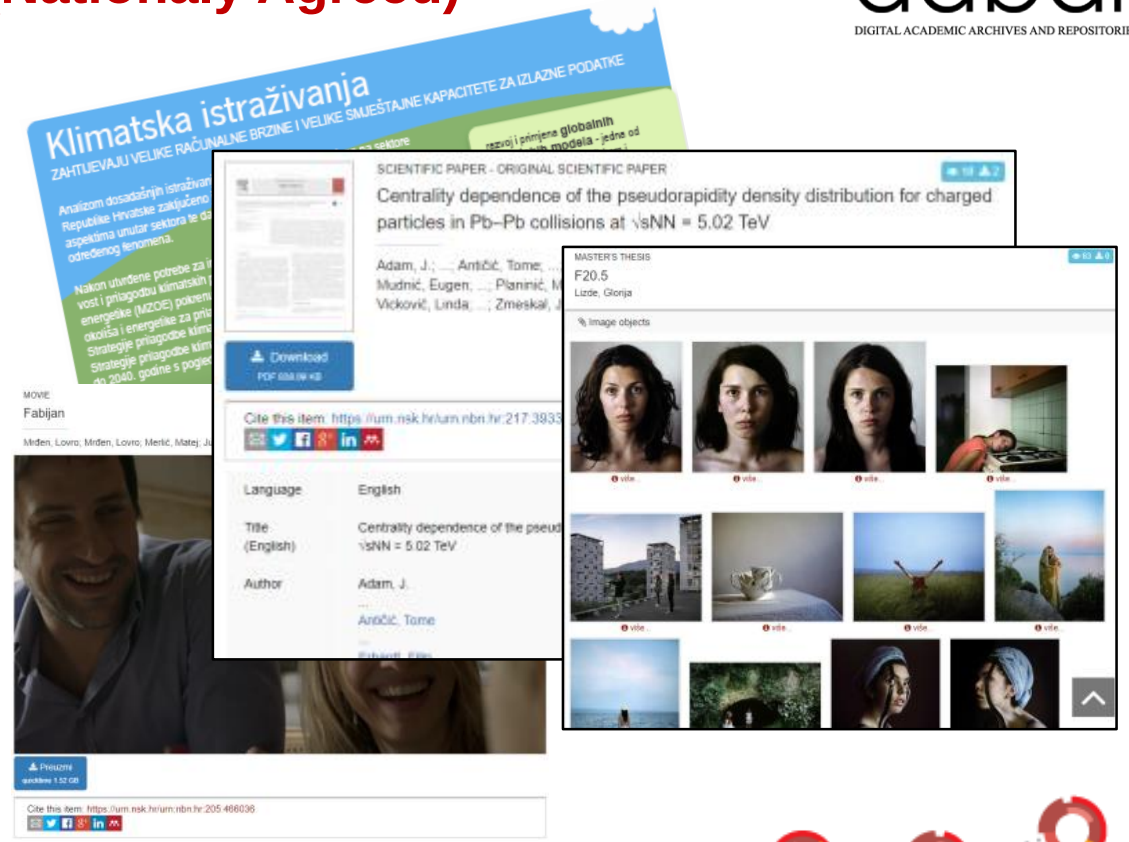
# 15 Digital Object Types (Nationaly Agreed)

- 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

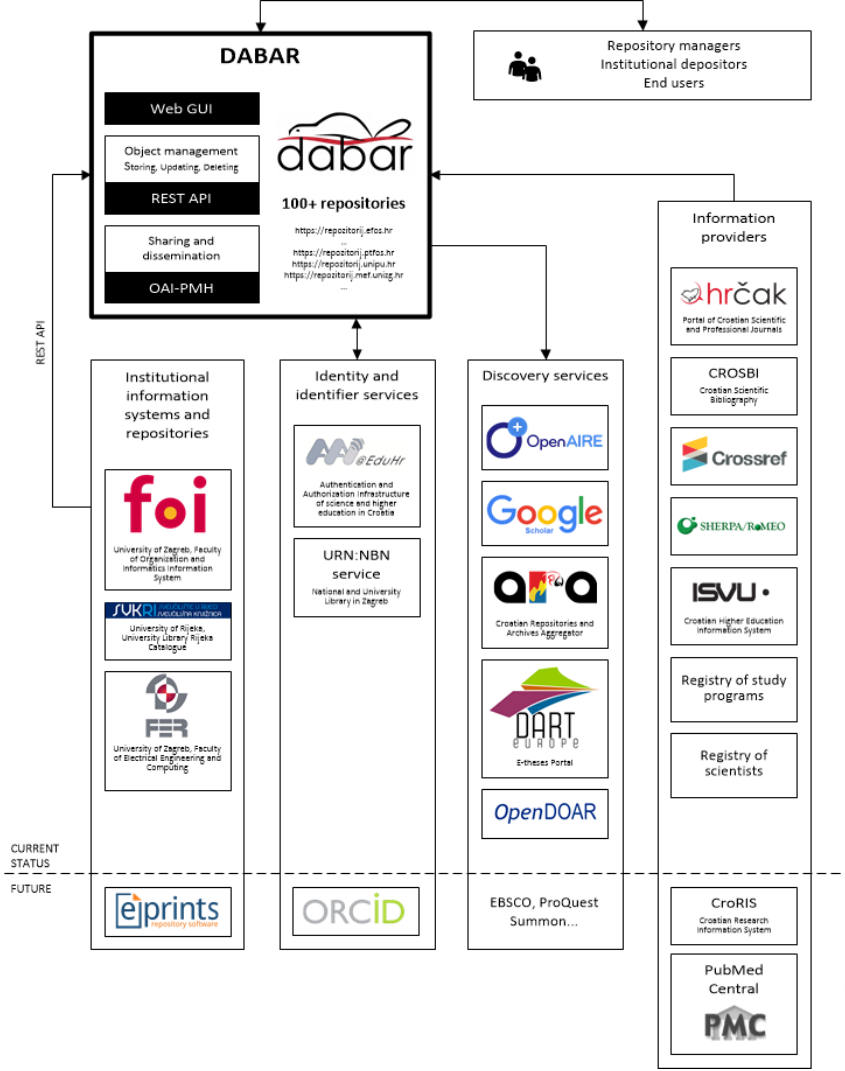
- Photographs
- Audio objects
- Audio-visual objects

- Research data (**FAIR datasets**)
- Educational resources: experiments, courses, demonstrations,…



# Interoperability

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



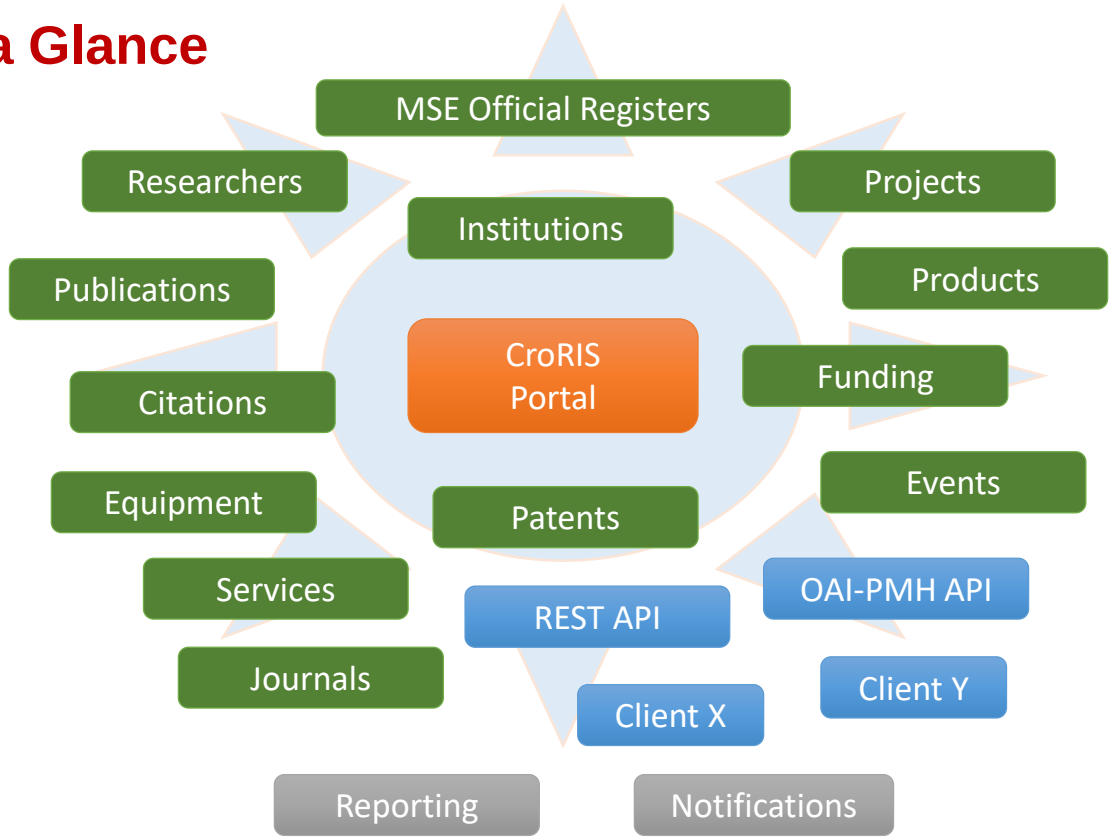

dabar
DIGITAL ACADEMIC ARCHIVES AND REPOSITORIES

# CroRIS - Croatian Research Information System

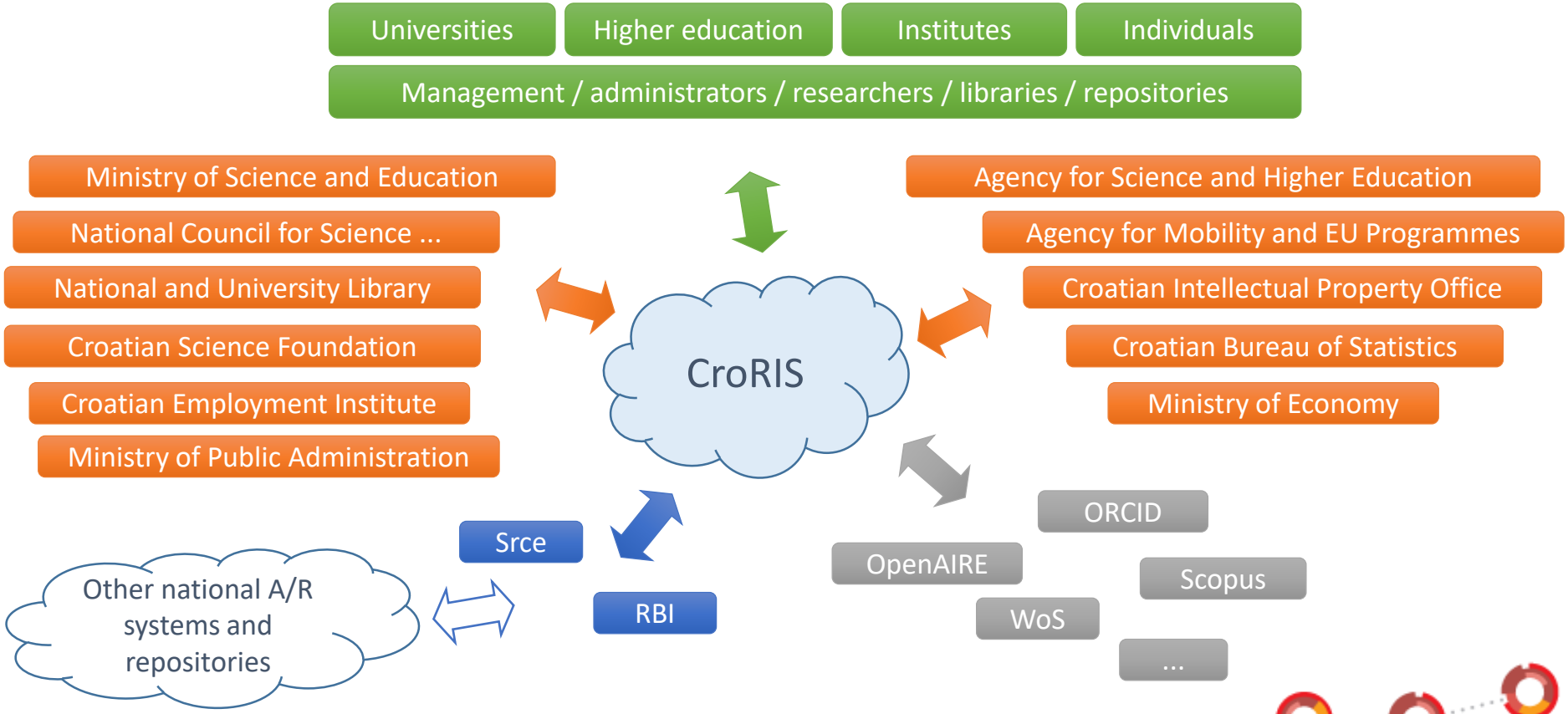
- part of Scientific and Technological Foresight project (EU funded)
- in development until Dec 2022
- will be gradually put in production

- 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



# 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!

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