Digital repositories for education

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DABAR

- Digital academic archives and repositories - [https://dabar.srce.hr/en](https://dabar.srce.hr/en)
- Croatian national e-infrastructure for digital repositories
- Users?
  - Scientific and educational institutions registered in the Republic of Croatia
- What do users get?
  - Reliable and interoperable institutional and/or thematic repository
  - Repository under the institution’s web domain
  - Total control over access rights and repository content usage
  - No costs
  - Without dealing with the technical issues related to the implementation and maintenance of repository
DABAR (how it all started...)

• 2013 - *The Scientific Activity and Higher Education Act* - universities and higher education institutions are required to permanently publish theses and doctoral dissertations in public databases (repositories)

• 2014 – initiative (SRCE + HiEd&Science institutions + experts and scientists)

• 2015 – DABAR was released

Digital Academic Archives and Repositories (DABAR) released

| AUG 24 2015 |
| University Computing Centre (SRCE) released Digital Academic Archives and Repositories (DABAR) on 17th August 2016. All higher education and research institutions in Croatia can now request for their institutional or thematic digital repository to be established within DABAR. |

DABAR in numbers

- 157 digital repositories
  - 200,000+ digital objects → 48.3% OA
  - 16 types of digital objects

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DABAR objects

- Nationally agreed
- Specifications based on standardized metadata description
  - Defined by working groups

- Datastreams behind the object (metadata schemas):
  - Metadata Objects Description Schema (MODS)
    - detailed description
    - standardized elements + customized <extension> elements
  - Dublin Core
    - narrow description
    - interoperability
DABAR interoperability

- OAI-PMH (Open Archives Initiative Protocol for Metadata Harvesting)
  - a protocol that defines the metadata collection mechanism; supports DC and MODS
- FAIR principles
  - Findable
  - Accessible
  - Interoperable
  - Reusable

Image is from 2019
OER in Dabar

- Object: **Educational material** (since July 2019)
- Based on LOM
  - IEEE Standard for Learning Object Metadata
  - Superseded by IEEE 1484.12.1-2020
- Data model, usually encoded in XML, used to describe a learning object and similar digital resources used to support learning
- Educational material Working Group
- Specification: [https://dabar.srce.hr/en/objects](https://dabar.srce.hr/en/objects)
OER in DABAR

- Supported types of OER:
  - exercise
  - simulation
  - survey
  - diagram
  - figure
  - graph
  - index
  - slide
  - table
  - exam
  - experiment
  - self assessment
  - demonstration
  - animation
  - glossary
  - reference material
  - methodology
  - video
  - audio
  - question bank
  - textbook (manual, book)
  - lesson
  - curriculum

- Supported file formats:
  - .pdf
  - .txt
  - .docx
  - .xlsx
  - .pptx
  - .xml
  - .mbz
  - .png
  - .jpg
  - .jpeg
  - .wav
  - .mp3
  - .mp4
  - .mov
  - .avi
  - .mpeg
  - .mpg
  - .zip
  - .sav
OER in Dabar

• Access rights
  • Repository administrators and authors decide access rights for the full text of the object
  • Metadata – always open
  • 4 types of access:
    • Open access
    • Institutional access (only for institutional AAI@EduHr users)
    • Restricted access (only for AAI@EduHr users)
    • Closed access
    • Embargoed access
  • Open access is strongly recommended!

• Terms of use
  • CC licences
  • Copyright – all rights reserved
OER in Dabar

- Example: [https://urn.nsk.hr/urn:nbn:hr:195:345721](https://urn.nsk.hr/urn:nbn:hr:195:345721)
DABAR for education

• Storing all institutional educational material at one place
• Greater visibility and findability
• Gathering the objects in virtual collections - courses
• Connecting objects with other objects in the repository, in DABAR or anywhere online
  • pointing to previous/following version
  • drawing attention to other similar material
• Each object gets PID (URN:NBN) – persistent locator in case URL changes
• Persistent archiving
• Moodle -> DABAR -> Moodle = sharing and reuse
OER in Dabar

22 November 2022:

128 published objects
OA: 102 objects = 79.8%

32 repositories
OER in Dabar – reasons of low usage?

• Not promoted enough?
• Lack of education?
• Passive working group?
• Lack of interest?
  • Not defined who should upload educational objects in repository – teachers or repository administrators (mostly librarians)?
• Complicated metadata description?
• No legal obligations?
• Access rights and terms of use not defined?
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Thank you!

https://dabar.srce.hr/en

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