

Open Science in Serbia: An Update

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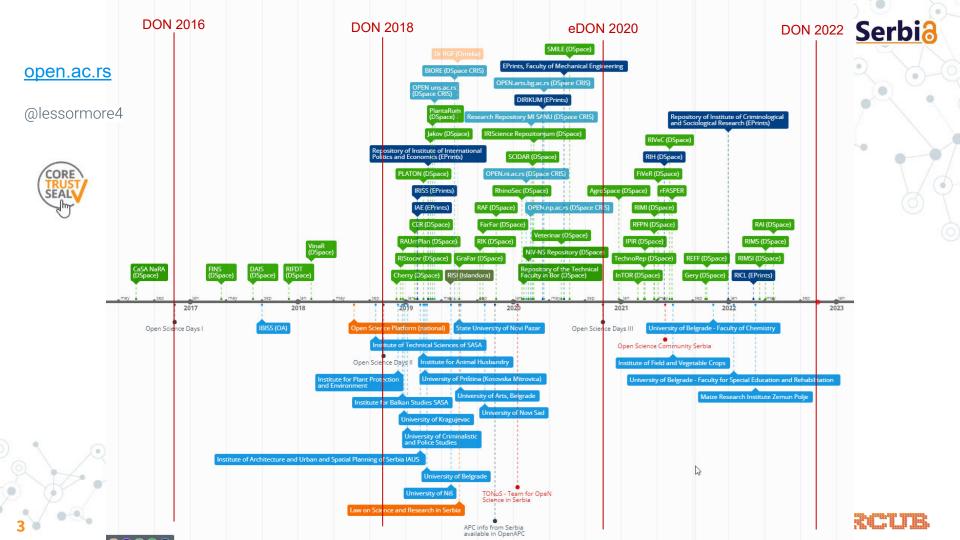




Documents, Recommendations, Platforms

- UNESCO Recommendation on Open Science, 2021, November
- Programme Guide Horizon Europe (HORIZON) Chapter 16
- Strategic Research and Innovation Agenda (SRIA) of the European Open Science Cloud (EOSC), 2021
- The strategy of scientific and technological development of the Republic of Serbia for the period from 2021 to 2025 "Power of knowledge"
 - Serbian National Platform for Open Science 2022 (prepared, but not adopted)







Recognized by International Registries & Services

OpenDOAR - quality-assured, global Directory of Open Access Repositories

2020	2022
34	56

DOAJ – Directory of Open Access Journals

2020	2022
205	216

OpenAIRE - Explore

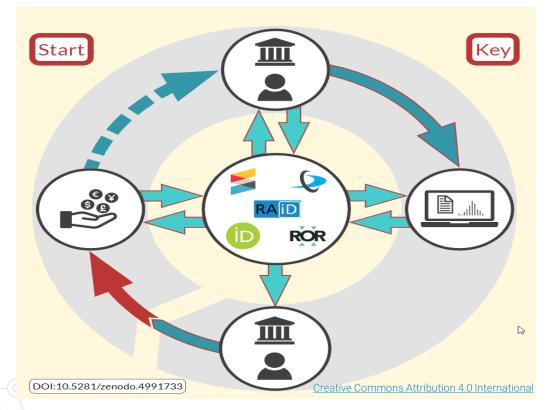
2020	2022
20	32





One of FAIR principles - PID-a (Persistent Identifiers)

Provide the interlinks among research support systems.



Brown, Josh, Jones, Phill, Meadows, Alice, & Murphy, Fiona. (2022, September 16). PID-optimised workflows: A vision of a more efficient future. Zenodo.





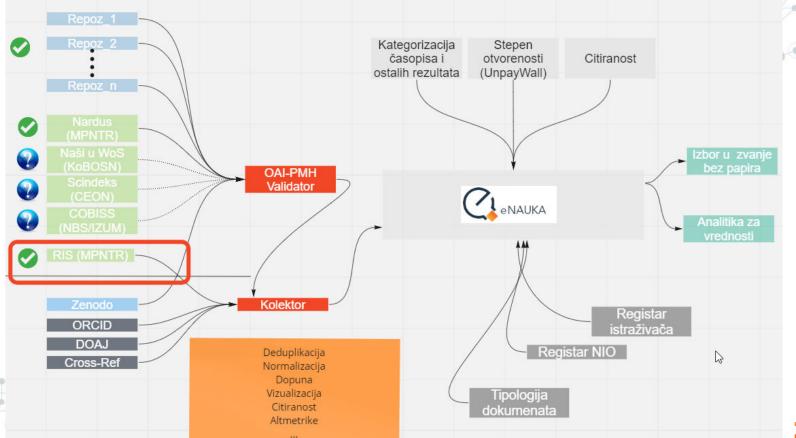
PIDs in Serbia

- ORCID:
 - no institutional member
 - implementation within Circle U. European University Alliance (University of Belgrade)
- ODI: too many (small) providers
 - active members from Serbia 47
 - 26 assign DOI for just ONE journal
 - membership fee : 47 * 275 \$ = 12.925 \$ per year
 - proceeding and books without DOI
 - PhD, and repositories use Handle (thanks to GRNet and European infrastructure)
 - O low quality:
 - ORCID (Open Researcher and Contributor IDentifier),
 - FundRef (Crossref Funder Registry),
 - ROR (Research Organization Registry)





Why (almost) Prefect Meta-data is Important



demo





(Open) APC/BPC – Article/Book Processing Charge

- Cost of APCs adds a new dimension to the authors' decisions as to where to attempt to publish
- Focus of the publishers' marketing efforts is now on authors
- Academic libraries' traditional role as an intermediary between the readers and the publishers disappears
 - New task: managing the payment of APCs for the authors at their institutions.
- Survey more than 500 researchers responded
 - Estimation: all Serbians authors pay more than 300.000 EUR per year
 - better coordination
 - OpenAPC https://treemaps.openapc.net/apcdata/belgrade-u/





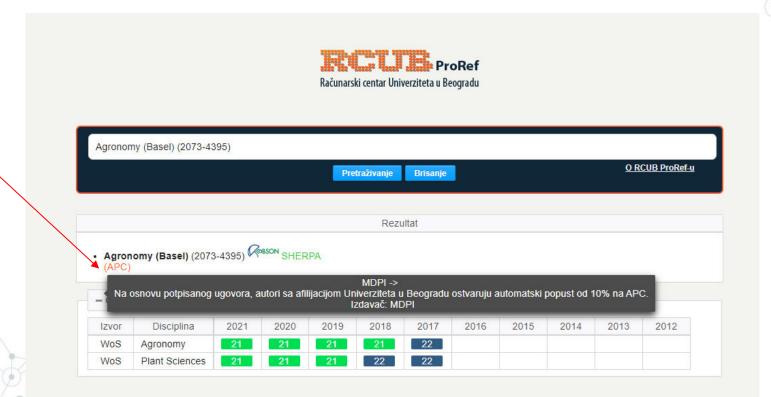
Collecting Information

Publisher	Discount
Taylor & Francis	Corresponding author from Serbia discount 50% APC.
SAGE	If all authors coming from Serbia, no APC. Corresponding author from Serbia discount 20% APC. Promo code: EIFLOA
De Gruyter	Corresponding author from Serbia discount 30% APC.
Elgar	Corresponding author from Serbia discount 50% APC.





Improve <u>already Existing Service</u>

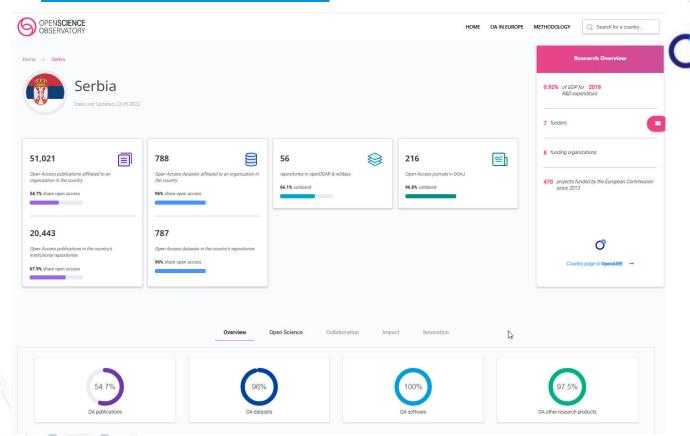






OpenAIRE @OpenAIRE_eu

How Open Serbian Science is

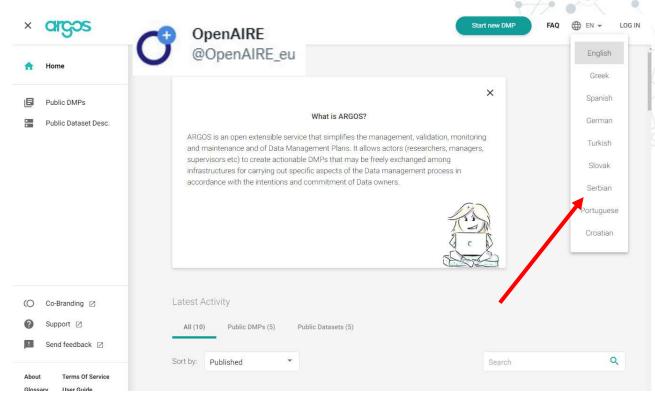






Research Data Management (Data sets & DMP)

- RDM group
- mandate for EC, and Serbian Fund
- hybrid repositories
- learning through practice
- positive example for PhD students at University Novi Sad







Research Assessment & Open Science

- OS improve: Research integrity & reproducibility of scientific results

 WBC-RRI Responsible Research and Innovation, *University of Novi Sad*
- Task: New generation metrics
 - ofor example credits for Open Peer Review (ORE), Data-sets,
- Goal: research assessment must reform to recognize open and responsible research practices
- Coalition for Advancing Research Assessment: COARA (no interest from Serbia)
- GraspOS: next Generation Research Assessment to Promote Open Science (Faculty of Chemistry, Belgrade)





Open Science include Services & (open) Infrastructure

Resources Providers * Helpdesk

Home > Search

GENERIC

Search results for: "ipb"

ON-BOARDED



6 resource(s) found



Data analysis service

Hadoop-based data analysis service.

Data analysis service or PARADOX Hadoop cluster consists of a single name node that runs the YARN resource manager, and three additional data nodes. The name node is hosted on a machine with 4-core Intel Xeon E3-1220v3 CPU running at 3.1 GHz, with 4 GB of RAM, and 500 GB of local hard disk storage. Each of the data nodes, which perf...

more

ON-BOARDED

GENERIC ON-BOARDED

PARADOX-IV cluster

PARADOX-IV - Serbian supercomputing cluster.

PARADOX-IV cluster represents the fourth major upgrade of the PARADOX cluster and became operational during September 2013. The cluster consists of 106 working nodes and 3 service nodes. Working nodes (HP ProLiant SL250s Gen8, 2U height) are configured with two Intel Xeon E5-2670 8core Sandy Bridge processors, at a frequency...

more

GENERIC

Simple storage service

Research data storing and sharing.

The Simple Storage Service (SSS) is a secure data storage service provided to researchers for storing and sharing research data as well as keeping it synchronized across different devices. SSS is functionally similar to Dropbox, Office 365, or Google Drive. Files are stored in conventional directory structures, accessible via WebDAV....

more

NI4OS-Europe helpdesk

The NI4OS-Europe helpdesk is the

main tool of the project's support

The NI4OS-Europe helpdesk is the main tool of the project's support system. All stakeholders within the project use the helpdesk: resource users, resource owners. and project management, it supports ticket management, including ticket creation, assignment/reassignment to the appropriat...

more

THEMATIC REGISTERED

DREAM

The DREAM service simulates and predicts the atmospheric cycle of mineral dust

aerosols. It is tuned for usage on highperformance computing infrastructures available today. A typical use-case is the production of a dataset with the aerosol optical thickness and surface dust concentration for a particular period and for a particular geographical region. The service supports different horizon...

more

REGISTERED



NI4OS-Europe on-boarding dashboard

EOSC on-boarding monitoring tool

The main aim of the NI4OS-Europe as onboarding dashboard is to provide a better and more user-friendly view of the resources/providers registered within the resource portfolio management system (AGORA catalogue) and track the progress of the providers and resources onboarding process. The dashboard offers two main vi





Skills & Competencies

- Fact: Research librarians are (key) stakeholders in the process of adopting Open Science ie. building EOSC
 - Insufficient staff in academic and research libraries (improving in Serbia)
 - Outdated LIS curriculum in Serbia
 - Permanent professional development training programmes in LIS do not cover skills relevant for RDM and FAIR
 - Relevant research communities are poorly familiar with RDM and FAIR
- idea: courses for PhD students
- Skills4EOSC: Skills for the European Open Science Commons: Creating a Training Ecosystem for Open and FAIR Science (Institute of Physics Belgrade)





Sustainability (and some other challenges)

Funding

- all developed in Serbia is funded by EC: OpenAIRE, NI4OS, EOSCFuture, few Erasmus+ projects, eIFL
 - we are member of OpenAIRE, eIFL
- Government not yet (directly), but institutions do

People

- missing of: IT, trained data librarians, proactive decision makers
- ToNUS internal activities for new National Platform, but without cooperation with the decision makers in ministry (last two years)

But we have our community







Thank you

