



ONLINE WORKSHOP

Serbia

10th October 2023



GraspOS project

- OS-aware RRA approaches landscape report -

FAIR-IMPACT Serbia National Roadshow, October 10th 2023

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Goal

- Support the emerging policy reforms and pave the way towards an Open Science aware Responsible Research Assessment system
- Develop, assess and operate an open and trusted federated infrastructure for next generation research metrics and indicators (to promote Open Science)
- The developed infrastructure should offer data, tools, services and guidance

Status

- Still in the first year
- Landscape analyses completed
- Proposal of the architecture
- OSAF in progress
- https://zenodo.org/communities/graspos_project/



OS-aware RRA approaches landscape report

Goal

To identify

- current Open Science assessment practices,
- qualitative and quantitative data priorities, and
- associated implementation obstacles.

The report is available at Zenodo - [10.5281/zenodo.8301792](https://zenodo.org/doi/10.5281/zenodo.8301792)

Methodology

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- Desk research
- Pilot organizations survey
- Global survey

Desk research

- 386 resources identified
 - Previous knowledge of the project participants
 - Searching of publications/citation databases using keywords of the project
 - Social networks
 - Relevant resources chaining
 - citation analysis to/from other resources
 - searching of relevant project/network websites
- classified and further analyzed

Pilot survey design

- 28 questions concerning
 - the respondents' background,
 - assessment frameworks and policies,
 - quantitative and qualitative criteria and practices,
 - supporting assessments by software infrastructure.
- Launched on the 2nd of March 2023
- The GraspOS project pilots' representatives (9)

Global Reforming Research Assessment survey design

- 49 questions concerning
 - the respondents' background,
 - assessment frameworks and policies,
 - quantitative and qualitative criteria and practices,
 - supporting assessments by software infrastructure.
- Launched on the 11th of May 2023
- Dissemination
 - Social networks
 - By email to CoARA signatories
 - Other channels
 - 54 responses



Key findings

Key findings

- Initiatives
- Policies and frameworks
- Quantitative and qualitative approaches
- Supporting infrastructures

Initiatives

- The reform of research assessment is a hot topic on many national and international agendas
- Relevant initiatives working on the issue from a variety of perspectives
- Open Science is seen as an integral part of versatile research activities, not as a separate practice

Policies and frameworks

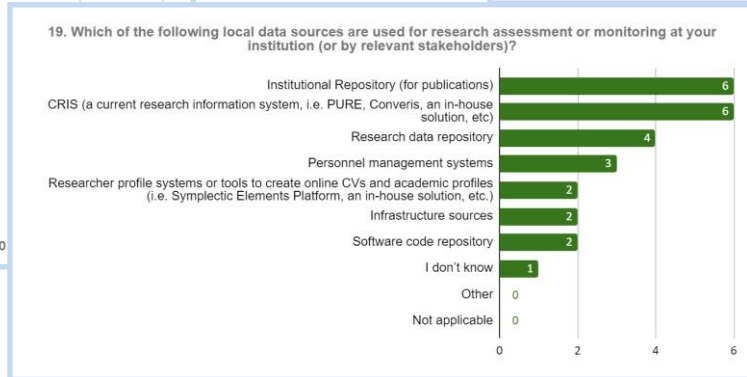
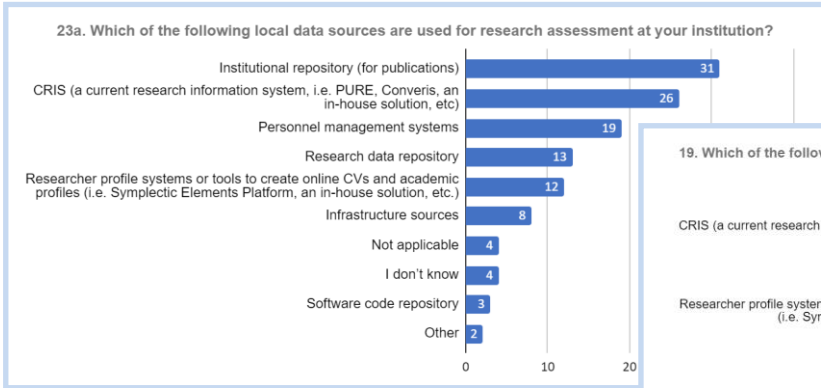
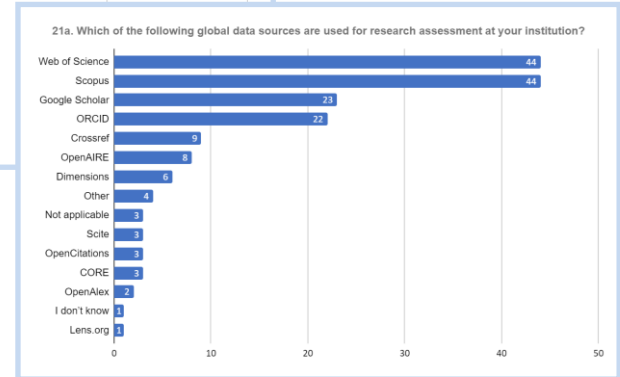
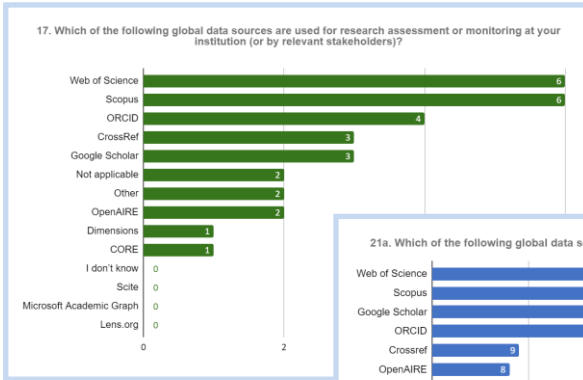
- Rich space of policies and frameworks for academic assessment is already in place
- Providing context-specific guidelines and recommendations for diverse assessment scenarios

Qualitative and quantitative approach

- Both approaches have their benefits and limitations
- It should be used in a combined way
 - quantitative metrics can be utilised to provide evidence to a narrative description

Supporting infrastructure - data

- Data used in the research assessment might come from global data sources or from local data sources



Supporting infrastructure - challenges

- Interoperability between those infrastructures might be improved by standardisation of cataloguing formats and practices, wide adoption of persistent identifiers (DOI, ORCID, ROR ID, RAiD), and definition of protocols and application interfaces for exchanging information
- Research domain software infrastructure should be supported by a contingency fund for 12 months per year, preferably the infrastructure should be published as open source software, and data should be the academic-community property

Supporting infrastructure - PIDs

- DOI, ORCID, and ROR ID are widely adopted. There are some signals that RAiD might be better adopted in the near future
 - This PID is included in the CERIF data model, and
 - It is going to be integrated into the EOSC platform through the FAIRCORD4EOSC project (<https://faircore4eosc.eu/eosc-core-components/research-activity-identifier-raid>).

PID	OpenAlex	OpenAIRE	ORCID profiles	Crossref	BIP! Services	CERIF	VIVO
DOI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ORCID	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROR ID	Yes	Yes	Yes	Yes	No	Yes	No
RAiD	No	No	No	No	No	Yes	No

Output type	OpenAlex	OpenAIRE	ORCID profiles	Crossref	BIP! Services	CERIF	VIVO
Journal articles	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scientific publications beyond journal articles	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Datasets	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Software	No	Yes	Yes	No	No	Yes	Yes
Policy contributions	No	Yes	Yes	No	No	Yes	Partially
Methods	No	No	Yes	No	No	Yes	Yes
Protocols	No	No	No	No	No	Yes	Yes
Exhibitions	No	No	Yes	No	No	Yes	Yes
Theories	No	No	No	No	No	No	No
Strategies	No	No	Yes	No	No	No	No
Algorithms	No	No	Yes	No	No	No	No
Data models	Yes	Yes	No	No	No	Yes	No
Workflows	No	No	No	No	No	No	No

Activities and roles	OpenAlex	OpenAIRE	ORCID profiles	Crossref	BIP! Services	CERIF	VIVO
Industry cooperation	No	No	Yes	No	No	Yes	Yes
Training, mentoring and supervision of PhD candidates	No	Yes	Yes	No	Yes	Yes	Yes
Teaching	No	Partially	Partially	No	No	Partially	Yes
Peer review	No	No	Yes	Yes	Yes	Yes	Yes
Leadership roles	Partially	Yes	Yes	No	No	Yes	Yes
Entrepreneurship	No	No	Yes	No	No	Yes	Yes
Science communication and interaction with society	No	No	No	Yes	No	Partially	Partially
Team science and collaboration	No	No	No	No	No	No	No
Skills, competence and merits	No	No	Yes	No	No	Yes	Yes
Citizens science	No	No	No	No	No	No	No

Supporting infrastructure - Open Science

- Discrepancy between elements needed for the purpose of Open Science-aware research assessment and available information in some research domain infrastructures

Element	OpenAlex	OpenAIRE	ORCID profiles	Crossref	BIP! Services	CERIF	VIVO
Open access publications	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open research data	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Open source software	No	Yes	Yes	No	No	Yes	Yes
Other open science elements (open-science related events, courses, projects)	No	No	No	Partially	No	Yes	Yes



Implication on Serbian academy

Serbian voice

- University of Belgrade, Faculty of Chemistry is one of the partner
- Cherry platform (<https://cherry.chem.bg.ac.rs>) and APP (authors, projects, publications - <https://cherry.chem.bg.ac.rs/APP/>)
- Serbian assessment context might be taken into consideration in designing GraspOS results
- Application of GraspOS results in Serbian context (pilot activities)

Pilot activities - improvements of the Cherry APP

- Measure to which degree each author is applying the principles of green open access
- Evidence of participation in the open science seminars
- Rewarding and monitoring departments/institutions, not just researchers
- This infrastructure changes could have reflection on the institutional rule book for rewarding