



REPOPSI's Interoperability Challenges

Interoperability and FAIR in disciplinary repositories using RDA's TRUST principles, based on the RDA grant to REPOPSI

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"Building blocks of Global Research Commons: Europe and beyond"
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"The glue to a successful Commons: Interoperability" Session

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REPOPSI at a glance

First centralized (and open) repository of psychological instruments in Serbian



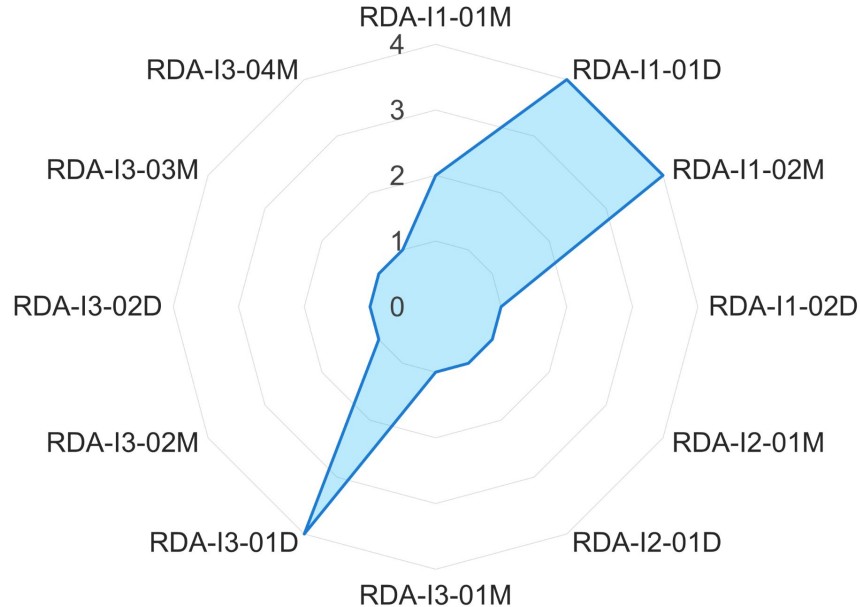
Established in 2020 at the University of Belgrade Laboratory for Research of Individual Differences (LIRA)



Hosted on the Open Science Framework (OSF) – a free, open-source web application



REPOPSI's interoperability challenges



Metadata does not use knowledge representation expressed in standardised format

Metadata does not use FAIR-compliant vocabularies

Can we implement an existing controlled vocabulary to REPOPSI?



REPOPSI's interoperability challenges

Tags

delta disintegration psychosis proneness
schizo-phenomena schizotypy

Tags

hexaco personality development personality structure
personality traits short scale six factor model

OSF's "uncontrolled vocabulary":
free-text tags

Specific and accurate ✓

Increased discoverability among
the target user community ✓

Not consistent ✗

Limited usefulness for those who
are not familiar with the field ✗

Limited reusability ✗

Not FAIR-compliant

Not standardized



REPOPSI's interoperability challenges

```
<resource xmlns="http://datacite.org/schema/kernel-4" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datacite.org/schema/kernel-4 http://schema.datacite.org/meta/kernel-4.3/metadata.xsd">
  <title xml:lang="en" titleType="AlternativeTitle">7C Scale of Vaccination Readiness</title>
  <title xml:lang="sr" titleType="TranslatedTitle">Skala 7C spremnosti na vakcinisanje</title>
  <title titleType="Other">7C</title>
  <subject subjectScheme="Library of Congress Subject Headings (LCSH)"
schemeUri="https://id.loc.gov/authorities/subjects.html"
valueUri="http://id.loc.gov/authorities/subjects/sh85108448">Psychological tests</subject>
```

Some issues with implementing an existing thesaurus

e.g. Library of Congress Subject Headings

OSF currently does not have the infrastructure to implement it

We have to generate and upload an XML file for each instrument

```
<resource xmlns="http://datacite.org/schema/kernel-4" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://datacite.org/schema/kernel-4 http://schema.datacite.org/meta/kernel-4.3/metadata.xsd">
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  <subject subjectScheme="Library of Congress Subject Headings (LCSH)" schemeUri="https://id.loc.gov/authorities/sub
valueURI="http://id.loc.gov/authorities/subjects/sh85108448">Psychological tests</subject>
  <subject subjectScheme="https://osf.io/vocab/2022/keyword">vaccination readiness</subject>
  <subject subjectScheme="https://osf.io/vocab/2022/keyword">vaccine acceptance</subject>
  <subject subjectScheme="https://osf.io/vocab/2022/keyword">conspiracy</subject>
  <description descriptionType="Abstract">The 7C scale measures the readiness to accept and receive a vaccine. It consists of 7 items: 1. I am confident that the vaccine will be safe and effective. 2. I am confident that the vaccine will be available when I need it. 3. I am confident that the vaccine will be affordable. 4. I am confident that the vaccine will be accessible. 5. I am confident that the vaccine will be acceptable. 6. I am confident that the vaccine will be acceptable. 7. I am confident that the vaccine will be acceptable.
  <description descriptionType="Other">Version: adult; long form; sr</description>
  <description descriptionType="Other">Available languages: srp</description>
  <description descriptionType="Other">Citation of the original instrument: Geiger, M., Rees, F., Lilleholt, L., Sarason, D., & Gellera, R. (2015). The 7C scale of vaccination readiness. Vaccine, 33(26), 4511-4518. doi:10.1016/j.vaccine.2015.08.044
  <description descriptionType="Other">Citation of the translation/adaptation: Lazić, A., Dojčinović, S., & Draginić, M. (2022). The 7C scale of vaccination readiness: Translation and adaptation for the Serbian population. Vaccine, 40(12), 2151-2160. doi:10.1016/j.vaccine.2022.02.044
  <description descriptionType="Other">Additional notes: The 7C scale is available in other languages at https://www.datacite.org/7c-scale
  <description descriptionType="Other">Instrument availability: Repository [URL: https://osf.io/k4yqp/]</description>
  <relatedIdentifier relatedIdentifierType="URL"
relationType="IsMetadataFor">https://osf.io/k4yqp/</relatedIdentifier>
  <description descriptionType="Other">Contact person: Lazić, Aleksandra (aleksandra.lazic@f.bg.ac.rs)</description>
  <relatedIdentifier relatedIdentifierType="URL" relationType="IsDerivedFrom">https://doi.org/10.1027/1015-5759/a000663</relatedIdentifier>
  <rights rightsURI="https://creativecommons.org/licenses/by-nc-sa/4.0/" rightsIdentifier="CC-BY-NC-SA-4.0"
rightsIdentifierScheme="SPDX" schemeURI="https://spdx.org/licenses/">Creative Commons
Attribution-NonCommercial-ShareAlike 4.0 License</rights>
</resource>
```

An example of a file we generated using the [DataCite Metadata Schema](#)



REPOPSI's interoperability challenges

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Some issues with implementing an existing thesaurus
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Predefined terms can be challenging to apply and not as accurate

Adopting it post-(meta)data creation can be a laborious process...



REPOPSI's interoperability challenges

What do we need?

A free and easy-to-use
data-support infrastructure to
implement controlled vocabularies

A more detailed FAIR-compliant
thesaurus for psychology

Thank you!

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www.repopsi.f.bg.ac.rs