Using the DSpace-based Repository PsychArchives for Publishing Data and Results from the COVID-19 Snapshot Monitoring (COSMO) Project

Repositories During the COVID-19 Pandemic

Christiane Baier, Lea Gerhards, Peter Weiland
{ceb,leg,pw}@leibniz-psychology.org
Leibniz-Institute for Psychology Information (ZPID)
https://www.leibniz-psychology.org
Overview

- About leibniz-psychology.org (ZPID)
- About the COSMO - Covid-19 Snapshot Monitoring project
- COSMO in PsychArchives - Implementation with DSpace
- Data Sharing in the COSMO project
- Summary
leibniz-psychology.org (ZPID)

- ... is a Public Open Science Institute for Psychology and related disciplines
- ... is in the process of strategic expansion towards becoming a one-stop research support organization (i.e., research infrastructure), providing services for the entire research cycle
leibniz-psychology.org (ZPID)

Supporting the (scientific) community in psychology (and beyond) to make research

- accessible
- transparent
- reproducible,
- and replicable.
PsychArchives

- disciplinary repository for psychological science maintained by ZPID (Leibniz Institute for Psychology Information)
- online since December 2018
- DSpace 6.3 with jspui
- assigns DOIs

https://www.psycharchives.org
COSMO - Covid-19 Snapshot Monitoring

Project Goals:
Monitoring public perceptions of risk, behaviours, and public trust

Project Partners:
PsychArchives is part of the official guidelines for the WHO tool for behavioural insights on Covid-19

COSMO - Covid-19 Snapshot Monitoring

- through population surveys, the project explores people’s perceptions, acceptance of restrictions, mental and physical health, behaviours, information needs, misperceptions and more
- data is collected weekly via online panels, so that changes in risk perceptions or knowledge/misinformation can be identified as they emerge
- national pandemic response groups can use the findings to inform pandemic response measures, such as interventions, policies and messages
- results can also be made available to the media to support high quality and responsible reporting
- COSMO invites any country interested to use their questionnaire to collect data among its respective population
DISCLAIMER
COSMO - Results (Examples)

Shifts in people’s emotional reactions to Covid-19 over time: decrease in mental preoccupation with and worrying about the virus.
Meanwhile, the number of people who think that the preventative measures are vastly exaggerated has been on the increase.

COSMO researchers’ recommendation:
- necessary to react to this change of mood
- public should be reminded of the reasons for the measures: to protect others and to maintain the freedoms that we have achieved so far
- the successes achieved by the measures should be further emphasized

COSMO in PsychArchives

• PsychArchives collects and distributes COSMO materials:
  • WHO standard protocol with the questionnaire, protocol template and a guidance document
  • study protocols of the national projects
  • preprints describing study results
  • code (data analysis template)
  • research data obtained through the repository (coming soon)
Disciplinary Repository for Psychological Science

PsychArchives is a disciplinary repository preserving a variety of digital research objects (DROs), with 21 different publication types (preprints, primary, and secondary publications), research data, tests, preregistrations, multimedia, and code. We provide easy and free access to DROs according to the FAIR principles, which implies the commitment to ensure that research and research data are findable, accessible, interoperable, and reusable.

Please find all content regarding COVID-19 Snapshot MOntoring (COSMO Standard) in a special collection.

Highlighted Submissions

COVID-19 Snapshot MOntoring (COSMO Standard):
Monitoring knowledge, risk perceptions, preventive behaviours, and public trust in the current coronavirus outbreak - WHO Regional Office for Europe

Start page with static link to COSMO community page and static “Highlighted Submissions” box.
COSMO in PsychArchives

Community for COSMO project with collections for the national projects

Study protocols from Argentina, Canada, Denmark, Ethiopia, Germany, Israel, Kuwait, Palestine, Saudi Arabia, and Sicily (Italy)

https://www.psycharchives.org/handle/20.500.12034/2397
Useful DSpace Standard Features

• Hierarchical structure with collections in communities
• Images for Communities/Collection
  we’ve never used this feature before!
• Introductory text of community is very flexible
• Mapping of items into different collections
• Adding of additional metadata fields
Custom DSpace Extensions I

- **Related Items** view to show connections between items
Custom DSpace Extensions II

• **Preview PDF**
  to enable a quick preview
Limitations to DSpace Functionality

Order of metadata fields cannot be set manually - developing a solution would be expensive
Sharing Data in Psychology

• Regarding GDPR

Article 89

Safeguards and derogations relating to processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes

1. Processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes, shall be subject to appropriate safeguards, in accordance with this Regulation, for the rights and freedoms of the data subject. Those safeguards shall ensure that technical and organisational measures are in place in particular in order to ensure respect for the principle of data minimisation.

• Compliance with the purpose of use agreed in the informed consent
• Default sharing level in PsychArchives (DSpace) does not correspond to researchers’ wish to share their data under their own conditions
Sharing Level Concept

Access Level 0  Public Use File
means open access

Access Level 0+  Public Use File
generally open access, but the submitter requests feedback regarding intended use

Access Level 1  Restricted/Scientific Use File
only for scientific use; procedure ‘Request a Copy’ has a step for verification of this purpose

Access Level 2  Restricted/Scientific Use File with veto
scientific use with individual agreement between submitter and requester

- Default process to get data not sufficient, but easy to change
- ‘Request a copy’ is not an individual agreement between submitter and requester
- ‘Download’ procedure does not include individual consent
How to grant access to the COSMO research data?

- Changed displayed text for default ‘Download’ procedure

Log In to PsychArchives

Dear user,

to retrieve the requested research data, please fill in this data request form.

- Simple workaround for ‘Request a copy’
Summary

- PsychArchives, our DSpace-based repository, could be quickly adapted to provide convenient access to psychological research about Covid-19 from a variety of countries on one platform.
- DSpace made it easy for us to highlight this research (temporarily) via
  - the creation of a special COSMO community containing a number of separate national collections
  - the mapping of COSMO items into their respective collections
  - the presentation of information on COSMO and the submission process for COSMO content on the PsychArchives start page as well as the community page
  - the integration of images in the community overview
  - the inclusion of additional metadata fields such as zpid.tags.visible
  - the use of our Related Items view
  - and the implementation of a workaround to access scientific use files.
Thank you!

If you have further questions or feedback, contact us via:
Christiane Baier, Lea Gerhards, Peter Weiland
{ceb,leg,pw}@leibniz-psychology.org