Integrating Open Science Practices into the Research Process in Psychology
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Improving the transparency of psychological science: Describe the whole context and outcome of a research activity.

Open Science Practices
• Registered Analysis Plans
• Open Workflows
• Open Lab Notebooks
• Open Materials
• Open Tests
• Open Code
• Open Data
• Open Access
• Open Annotation
• Open Educational Resources

"The ‘reproducibility crisis’ is the name given to the situation that a large percentage, somewhere between 65% and 90%, of the academic literature is not reproducible. What this means is that if you take the methods of a given paper, and perform those methods in your own lab, between 65% and 90% of the time you won’t get the same results."


Primary research data are a fundamental component of scientific work. Data sharing is a distinguishing, collaborative feature of scientific practice in providing confirmation of research findings through replication and knowledge production, that is, by building on the work of others (“nanos gigantium humeralibus incipientes”). Data are used to confirm scientific expectations and to build new explanatory frameworks. Data are regarded as evidence to support scientific claims. Nevertheless, data sharing is not very common in psychology. Therefore, the project DataWiz is pursuing the following strategic goals:

1) establishing domain-adequate research data management in psychology and
2) storing the research data sustainably
3) providing incentives to share the data.

DataWiz assistance system is an expert system which provides the knowledge base and procedural support for data sharing simultaneously. It can be implemented in place or used as software as a service (SaaS) via central ZPID servers. Furthermore, the data can be stored locally or in a cloud, with access management at the discretion of the owner. This procedure will meet the needs of researchers who have voiced concerns about losing their discretionary power over their own data. The standardized formats and interfaces nevertheless allow and encourage the transfer of research data to an established data archive.

There are additional benefits, such as the facilitation of study registration and compliance with publishers’ or editors’ requirements. Last but not least, DataWiz will show that data sharing can be proliferated with the help of an assistance system, which could eventually be adapted for use in other disciplines.

https://datawiz.zpid.de/

Java based Web application, runs in Browser

PsychData – Research Data Center for Psychology. Accredited by the German Data Forum.
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