Developing Domain Data Protocols for Educational Research in Germany

Domain Data Protocols for Educational Research in Germany

- partners: 12 institutions, most of them directly involved in educational research
- funding: German Federal Ministry of Education and Research (grant agreement number 16QK01)
- project duration 01.06.2019 31.05.2022
- building up on the idea of Science Europe (2018) to develop "generally agreed-upon guidelines, or predefined written procedural methods ... a 'model DMP' for a given domain or community that shares common methods"
- aim: support researchers in creating Open Data following the FAIR-Data-Principles to increase transparency in research





Elements of Domain Data Protocols

- defining a minimum set of requirements on what FAIR data should look like
- providing additional explanations (use case), standards, guidelines, regulations and further resources to do so
- embedded in the FAIR Data Principles and the opportunity to archive such data in a trustworthy repository

Benefits of Domain Data Protocols

- assisting researchers in doing excellent research data management
- enabling replicability of data and findings/results
- simplifying review processes (funders, journals etc.)
- supporting long-term data preservation and data sharing (data ingest)



Concept of Domain Data Protocols

defining minimal requirements



The Project's Approach

- (on what FAIR data should look like)
- RDM-activities to create data following the FAIR Data Principles
- Implementing DDPs in online tools
- implementing DDPs in Research Data
 Management Organizer (RDMO)
- promoting the use of DDPs in educational research

Developing data-specific elements for

- cross-section data
- longitudinal studies
- performance tests
- multi-actor studies and third party data
- computer-based data collection
- stratified sampling
- external data gathering
- transcripts
- audio and video data

- develop minimum set of requirements
- adopt specific needs according to data types and methods gather relevant standards, regulations and further resources
- implement DDPs in Research Data Management Organizer (RDMO)
- involve the educational research community in the development of DDPs to foster implementation and usage

Gianpiero Favella, DIPF | Leibniz-Institut für Bildungsforschung und Bildungsinformation, <u>favella@dipf.de</u>; *Valeriia Heidemann*, Deutsches Institut für Wirtschaftsforschung (DIW/SOEP), <u>vheidemann@diw.de</u>; *Julia Künstler-Sment*, Institut zur Qualitätsentwicklung im Bildungswesen (IQB), julia.kuenstler-sment@iqb.hu-berlin.de; Sebastian Netscher, GESIS - Leibniz-Institut für Sozialwissenschaften, <u>sebastian.netscher@gesis.org</u>.

This project has received funding from the German Federal Ministry of Education and Research under grant agreement number 16QK01.

Bundesministerium für Bildung und Forschung



This work is licensed under CC-by 4.0 logos of institutes are not covered by this license