USE CASES

REUSE Survey design - development of computer-assisted instruments (CAI)

Data Curation - Produce localised data sets (with documentation) using already available translations for questions and variables

Data Curation - Standardized derivation of variables, e.g. crosswalks for occupational classifications or derivation of socio-economic status

FIND Meta-analysis - how many studies use this particular variable/dataset/concept

INTEROPERATE Interoperability -

a) take variables from more than one source and create a joint dataset (e.g. add a contextual variable to a dataset - make it easier to FIND the variable, and possibly to generate a script to create the variables for you)

b) How exposing metadata from holdings in repositories can enable discovery and data extraction across multiple repositories (both Interoperate and Access)

c) Overcome proprietary dataformats by delivering bundles of data and metadata (in an open format). Add-ons for the different plattforms are available which will import the bundle.

ACCESS -

See b) above

DISCOVERY

Of CONCEPTS, VARIABLES, QUESTIONS, CAPTURES, DATASETS, ANALYSES, PUBLICATIONS

Examples (e.g. What studies have used this dataset in their publications)

COMPLEX discoveries - e.g. What other VARIABLES are CORRELATED with this VARIABLE? Where has this question been asked in a different language? Can I find all instances of this variable, and then access the datasets that include it?

Layering: the functionality within the infrastructure that allows the connections between the OBJECTS to be made.

TRANSPARENCY - Automate the process of documenting data transformations (DART?)

CITATION - Automating the creation of citations for multi-source datasets (PROVENANCE, TRANSPARENCY)

IMPACT

1. Demonstrating to research councils the links between funds (grants), researchers, data, publications and citations.
2. What is the relationship between this research project and others? Demonstrating where the data and the content get used and reused.

SUSTAINABILITY - Ad-hoc projects (one off projects that do not get reused later). Why don’t the projects get maintained - is this a question of a lack of interoperability?

HARMONISATION - harmonising existing variables from multiple studies into a new dataset. Harmonising data over time. Harmonising cross-national studies.

RISK MANAGEMENT - can you tell me the risk potential of this dataset? (e.g. a risk factor for every variable). Can I automate statistical disclosure control? Can I extract my data to the relevant access environment based on the SDC risk profile that it has.

CITIZEN SCIENCE - how to have citizens participate in the research process?