

An Integrated Environment for Social Research Analysis

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The purpose of this presentation is to propose an environment for social research and its analysis.

If there were clear research questions, process of social research remains as follows; (1)editing questions, (2)editing questionnaire, (3)conducting a survey, (4)inputing data, (5)cleaning data, (6)analysing data, (7)publishing report and article. In each step, same informations are used repeatedly but independently. For example, there is a question about gender. Items of answer are [1. Male 2. Female]. They might be typed in a questionnaire using some wordprocessing software (e.g. ms-word). In the step of inputing data, they could be treated as a code (1 or 2) using some spreadsheet software (e.g. ms-excel). In the step of analysis, data could be read from excel file, and labeled as 'male' or 'female' for each code using R functions(e.g. factor(), levels()). In the step of publishing a report, result of analysis could be pasted to a file of wordprocessing software. What a waste of time. How convenient it would be, if we could use informations of step (1) throughout all process of social research. There is a standard documentation and data format for social research, that is DDI (Data Documentation Initiative). DDI is a XML protocol to describe informations related to social research including questionnaire, data and report. We propose a package **DDIR** which utilize informations in DDI format. Once a questionnaire is described in DDI format, we could utilize that informations as variable labels and value labels in analysis process by **DDIR**. These informations could be also automatically divert to publishing process. **DDIR** proposes an efficient integrated environment for social research analysis.