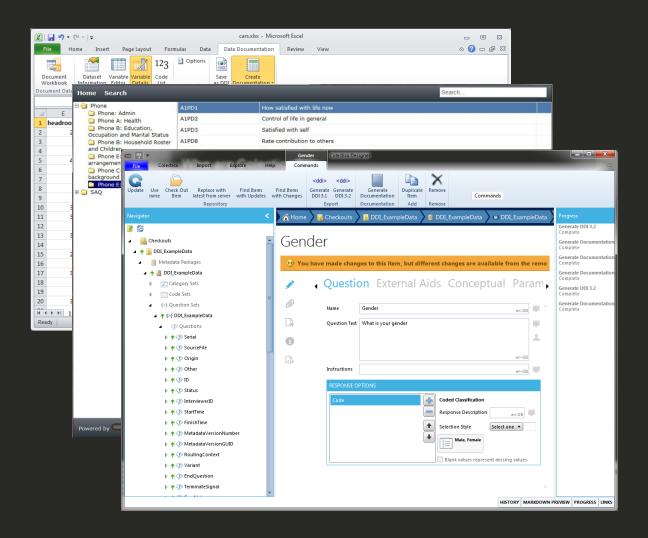


Integrating Colectica with IBM SPSS Data Collection Ipsos MORI





Who are Colectica?



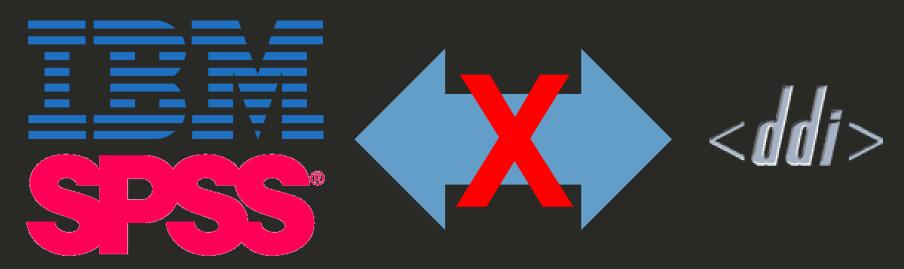


- The DDI alliance provides a framework but no tools to work with the files
- Researchers, 3rd party companies and developers provide tools
- Some are free others are commercial
- Colectica provide arguably the most complete and sophisticated products to work with DDI.





Disconnect between Survey Research & DDI



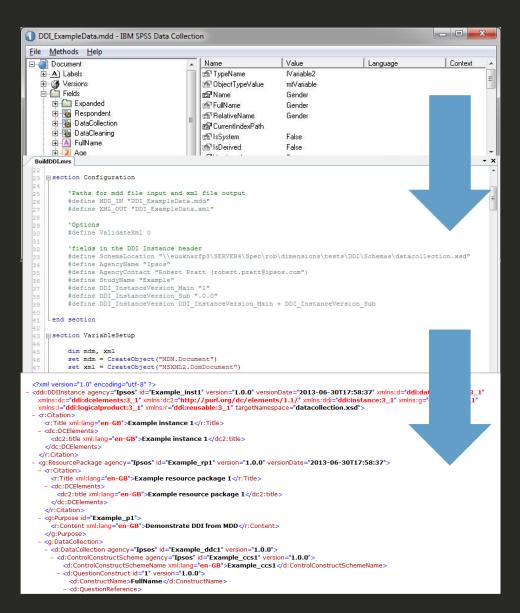
- No DDI Metadata Data Source Component
- No existing DDI tool to do a direct conversion
- We can use indirect conversion tools from DDI providers or in IBM SPSS Data Collection
- Limitations arise and information is lost when doing conversions, e.g. MDD to SPSS to DDI
- Why the conversion issues?
 - Different Schemas/Unimplemented features
 - Survey Routing/Instructions in different languages





Convert MDD to DDI

- IBM SPSS DC & DDI are two large and diverse schemas
- Due to different features it would be impossible to provide a complete conversion
- We tried a basic conversion in mrScriptBasic:
 - Example MDD
 - Read document object model
 - Write to XML DOM
 - Happy to share this script
- An alternative would be to write your own Data Source Component
 - How would you handle routing?



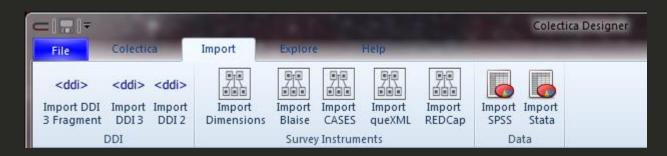




Or, we could let the experts do it...



- Colectica Designer is the most complete desktop software for working with DDI. You can
 - Create surveys, including routing
 - Work with a library of questions
 - Publish your metadata to the web
 - Import from a variety of survey formats
- As of Version 5 Colectica Designer enables importing Dimensions (IBM SPSS DC) MDD files
 - All data types will be supported
 - Routing will be supported







Converting SPSS Dimensions to DDI 3.2

Information in Dimensions MDD XML Files

- Question definitions
 - Question text
 - Data type





Converting SPSS Dimensions to DDI 3.2

Information in Dimensions MDD XML Files

- Source code with logical routing
 - mrScriptBasic language, much like VBScript

```
if useECS then
   sbCheckOffPath(IMSerial)
   if IMSerial = null then
        IMSerial = fnSetNumeric(IMSerial, addressFromECS)
   end if
   if iom.Info.IsAutoAnswer then
        IMSerial = getRandomAddress(sampleFilenameFull)
        IMSerial.Show()
   end if
else
   IMSERIAL.Ask()
   if iom.Info.IsAutoAnswer then
        IMSerial = getRandomAddress(sampleFilenameFull)
        IMSerial.Show()
   end if
end if
```





Converting SPSS Dimensions to DDI 3.2

Mapping to DDI

- Extract question information from the XML
- 2. Create a grammar for mrScriptBasic
- 3. Parse the mrScriptBasic into an Abstract Syntax Tree
 - A. Find patterns that affect control flow
 - Map to DDI ControlConstructs
 - B. Find {questionName}.Ask() method calls
 - Map to DDI QuestionConstructs
 - Reference the QuestionItems created in step 1



Typical Workflow

