Report from Week Two of DDI Dagstuhl Sprint

October 23-27, 2017

Use Cases Group

Esra Akdeniz, Sanda Ionescu, Jon Johnson, Wolfgang Zenk-Möltgen with contributions from Jay Greenfield

The Use Cases group was tasked with documenting use cases that contain the items included in the three functional views to be released as part of the 2018 prototype. With that in mind, the use cases were primarily written for an audience of implementers, with a secondary focus on trainings and users after the June release.

Fourteen use cases were defined and documented. Each use case includes questions and issues related to the model. The outstanding issues for missing content or relationships have been filed in JIRA for resolution by the business modellers. All use cases can be found on the wiki, see list:

- Catalogue Record - completed
- Simple Questionnaire Example 1 -completed
- Simple Questionnaire Example 2 - completed
- Simple Questionnaire Example 3 - Language - completed
- Simple Questionnaire Example 4.docx - completed
- Measurement Example 1 - completed
- Platform Specific Missing Codes - completed
- Internet Data - completed
- Related Publications - completed
- Study- completed
- Common Data Elements - not started
- Data Description - in progress
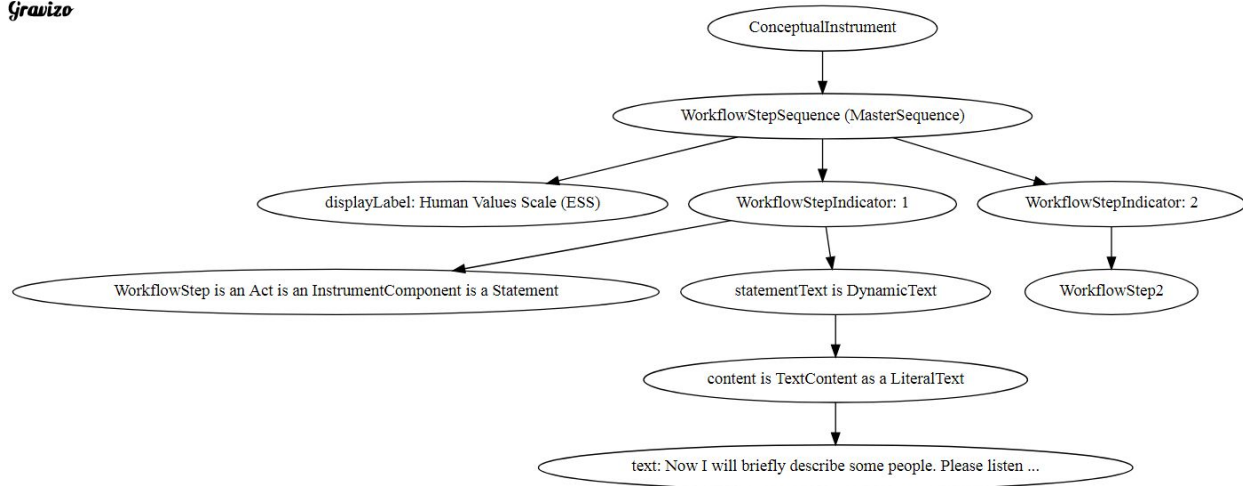- Link Study to Multiple Instruments - not started
- Study and Datasets - completed

Jay Greenfield provided additional examples:
- Variable Evolution
- Event History ViewPoint
- DataCube ViewPoint
- Blood Pressure

A consistent format for these use cases was also discussed with the following suggestions:

- Picture of real world example and source
- Indented flow of "DDI elements"
- Visualisation of this - perhaps as a .dot file for insert into .rst documentation (see example below- the code for this graph can be found in the [Use Case Report](#) on the wiki)

Gravizo

```
ConceptualInstrument
        |
WorkflowStepSequence (MasterSequence)
   /          |              \
displayLabel:  WorkflowStepIndicator: 1    WorkflowStepIndicator: 2
Human Values        |                          |
Scale (ESS)    statementText is DynamicText   WorkflowStep2
   \                |
WorkflowStep is an Act is an    content is TextContent as a LiteralText
InstrumentComponent is a Statement        |
                        text: Now I will briefly describe some people. Please listen ...
```

The group also made recommendations on documenting implementation separately from the model with the following points:

- Separate documentation to cover patterns both the realisation and what this means for usage, e.g. workflow, act/instrument component, and collections / groups.
- Transition for people needing to move their heads from thinking like 2.5 -> 4 and 3.x -> 4
- Change in terminology e.g packages and grouping thinking that derives from collections
- Binding specific documentation - esp RDF change in name cv classnames (it's in the mapping but still possibly confusing)

Action Items:
- Select good use cases for RDF which showcase use of this specific technology
- Create a comparison of things done and things to be done alongside prototype definition

Strategic Planning Group

Hossein Abroshan, George Alter, Ingo Barkow, Bill Block, Chuck Humphrey, Mari Kleemola, Maggie Levenstein, Jared Lyle, Steve McEachern, Dana Müller

The goal of this group was to produce mature drafts of documents on the mission and guiding principles of the DDI Alliance, the strategic plan for 2018-2021, and a vision statement describing the infrastructure needed to support the goals of the Alliance. Of particular value in

getting the discussion started was the SWOT analysis (strengths, weaknesses, opportunities, threats). The resulting documents are listed below and are in progress as of early November. The group will continue to move these documents forward and will present them at the 2018 DDI Alliance Business meeting prior to IASSIST. The discussion surrounding these documents was extensive and far-reaching and the notes, including the SWOT analysis and prioritization matrix, are listed below the main documents. Much of the content in these documents has been incorporated into the main documents, but some discussion items may still be found in the supporting notes.

It was decided to hire Mary Vardigan to help with editing and development, perhaps bringing in Arofan Gregory for additional support.

Main Documents

[Strategic Plan Outline:](#) written by Chuck Humphrey, Steve McEachern has volunteered to move this forward?

[DDI Vision:](#) George Alter wrote this initially, with comments from Bill, Jon, and Mari.

[Context for DDI Vision:](#) Written by Chuck Humphrey, move it forward with Maggie Levenstein and Leanne Trimble (?) for wider dissemination.

[DDI Long-term Infrastructure Manifesto](#): Written by George Alter.

Supporting Documents
(material and comments from others that will be incorporated into the above):

[Standards Priorities](#) -
[Priorities for Organization](#)
[Community Priorities](#)
[Vision Use Cases](#)
[SWOT Analysis](#)
[Discussion notes (3-4 files)](#)


Data Description and Data Capture Groups

Dan Gillman, Jay Greenfield, Larry Hoyle, Wendy Thomas, Knut Wenzig with Dan Smith, Barry Radler, and Steve McEachern

Knut Wenzig, Dan Gillman, and Steve McEachern joined the group for the second week to continue the discussion and resolution of the issues outlined in week one. Dan Smith and Barry Radler were consulted towards the end of the week via remote conference.

Initial discussions revealed a few key items requiring clarification, the outlined items were broken out into smaller units and summarized here:

- Need clear definitions of what the Response Domain is in DDI4 with some examples
- What the touchpoints now are and how they act
- The relationship of the Datum with the execution layer.
- There is still a misunderstanding between groups of what an "instance" is.
- The usage of a represented variable
- The Represented Variable having changed, chich exacerbated the misunderstanding.
- The Instance Variable as tied up with an execution
- How can one use Represented Variables as CDE's if it is missing the sentinel values?
- Is there work that has to be done to sort out sentinel from substantive at the point of the Represented Variable?

Larry Hoyle presented "Human Subjects Research Design in a Nutshell" to begin with common ground:
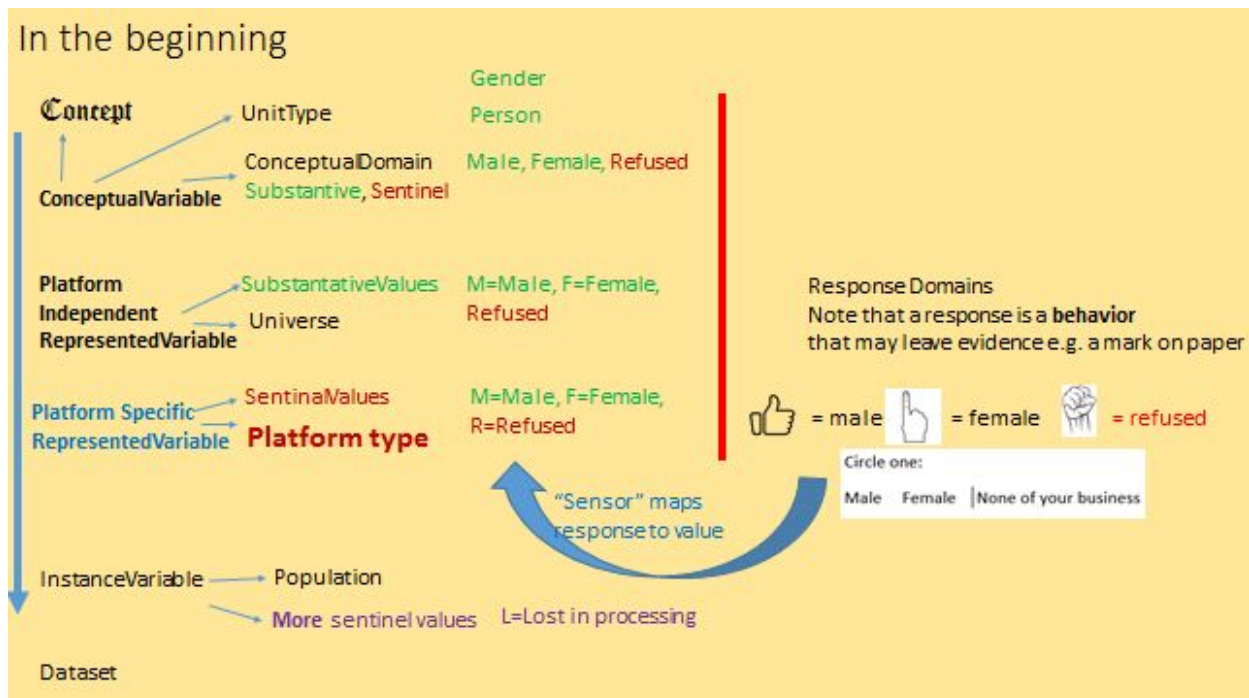
Behavior vs State

- The preceding described measuring a "response" (a behavior).
- Research might also measure a state
  - This would possibly involve;
    - An observer
    - A manipulator
    - Sensors
    -

Continuing discussions on Wednesday and Thursday produced two proposed changes:

Changes to Represented Question in terms of Response Domain

Change to Represented Variable regarding Sentinel Value Domain

Priority Action Items:

- Review proposed changes and integrate into the model if accepted.