**Data description/capture Tuesday afternoon**

Dan’s idea:

We have conceptual variable at the beginning and instance variable at the end.

In between things are less well defined make everything optional.

–we could eliminate the middle layer and flag a completeness and “cascade level” property on the

InstanceVariable. Dan will be writing this up.

To make a common data element perhaps it would be best to underspecify it. At a minimum it is a conceptual variable

Questions are functions of mode and unit.

Represented measurement and RepresentedQuestion (Captures)

In DDI3 questions can have categories as responses.

We reviewed the response domains in in the capture model – these are a mix of presentation, rules, and representation. Example: ranking response domain – would have a header, display the alternatives in some sort of list, and perhaps enforce some rule like uniqueness, sequential integers.

There are differences in thinking between data modelers and questionnaire designers.

List datatypes are used by whippersnappers in cases where we oldsters would decompose “all that apply” into sets of binary variables for use by analysts.

Think of annotated questionnaires where there is mapping from questions to variables.

Capture includes a presentation layer of stimuli intended to elicit responses. A process populates data structures.

For a single question, data description offers the DataPoint (think of an empty cell in a spreadsheet). Design of a Capture (process) could describe how the instrument connects to that DataPoint.

Execution of the Capture (process) would place a Datum into a DataPoint associated with a single Unit. DataPoints, associated with InstanceVariables can be combined into Records and ViewPoints can assign roles to the Variables (a measure, an attribute, or an identifier).

**Questions for Data Capture (filed in Jira 2017-10\_24):**

In Boolean response domain – what does the category do? is it a kind of question or modifier to the overall questions. What is a question and what is a category.

How can a compound question be modeled – with wording for the list as a whole and then phrases for each item example check all that apply, rankings,

Would connecting Capture to ConceptualVariable allow not only mapping to categorical responses but coded responses (through inheritance) to RepresentedVariable and InstanceVariable.

Why does CodelistResponseDomain have a separate Codelist from the RepresentedVariable and also a codeIndicator?

Is the RankingResponseDomain an example of a compound question where each item gets a number, or the selection of a single category from a Codelist associated with one Question?