



STANDARDS BASED METADATA USAGE AT STATISTICS DENMARK AND STATISTICS NEW ZEALAND

Outline

1. Introduction to DDI Lifecycle standard
2. DDI Lifecycle usage at
 1. Statistics New Zealand
 2. INSEE
 3. Statistics Denmark
3. Next Steps



What is DDI Lifecycle?

- DDI Lifecycle is a metadata **standard**
- Expressed using XML
- DDI provides a **vocabulary** for describing surveys, questions, and data



DDI at a Glance

Study



Series



Study Waves



Quality

Survey



Data Collection



Instrument



Control Flow



Question

Data



Datasets



Data Relations



Variables

Foundational



Concept



Universe



Organization



Code Lists



Category Lists

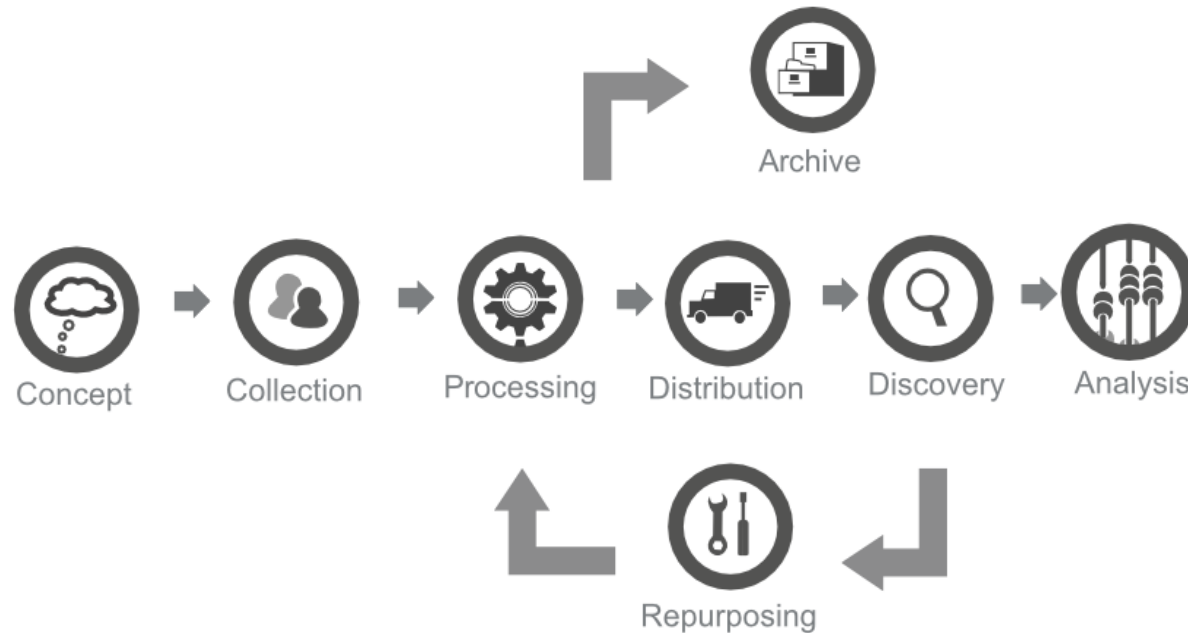


Category



Why DDI?

- Document the full data lifecycle in a standard manner



Metadata Banks

- DDI 3 supports the concept of metadata registries
 - ▣ Question banks
 - ▣ Variable banks
 - ▣ Code lists, concept definitions, or anything else





Use Cases:

DDI and Official Statistics

DDI Users

- Official Statistics
 - Statistics New Zealand
 - INSEE
 - Statistics Denmark
- Long-term Longitudinal Studies
 - National Children's Study (NIH and BAH)
 - Midlife in the United States
 - Wisconsin Longitudinal Study
- Archives
 - UCLA Social Science Data Archive
 - Yale Institution for Social and Policy Studies

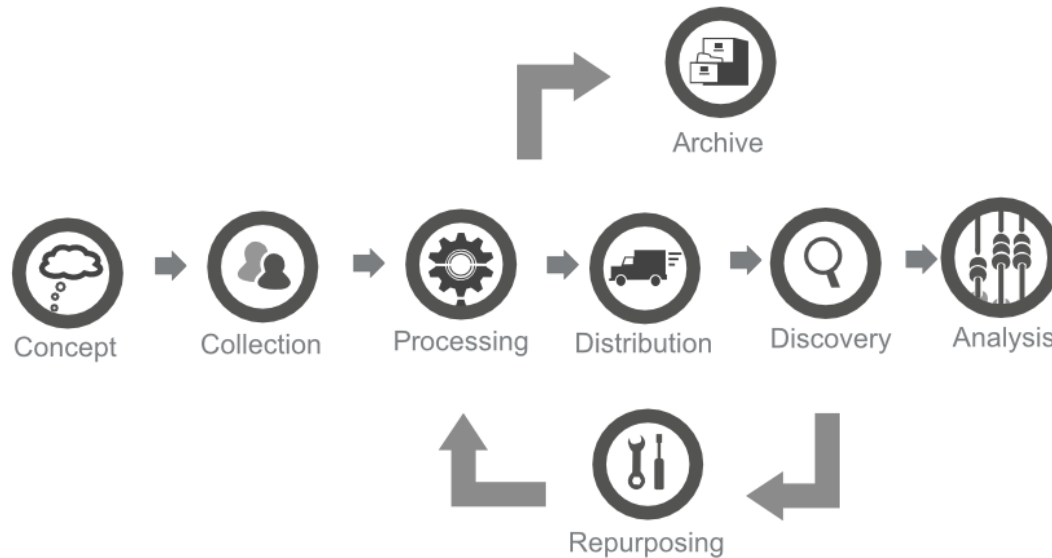


Adopting DDI in Official Statistics

- “Industrialize” the production of statistics
- Doing more with fewer resources
- Improving quality
- Creating a common vocabulary across institutions



Statistics New Zealand Metadata Infrastructure Project



- Create a single, canonical source for all this information
- Solution: central repository

Architecture: Repository

Colectica Portal (Public)

Colectica Repository (Public)

Colectica Workflow Server

Colectica
Designer

Colectica SDK

Colectica Toolkit

Colectica Portal
(internal)

Colectica Repository (Production)



Key Result 1 – Metadata Capture



“We used to record all metadata at the end of the lifecycle.”

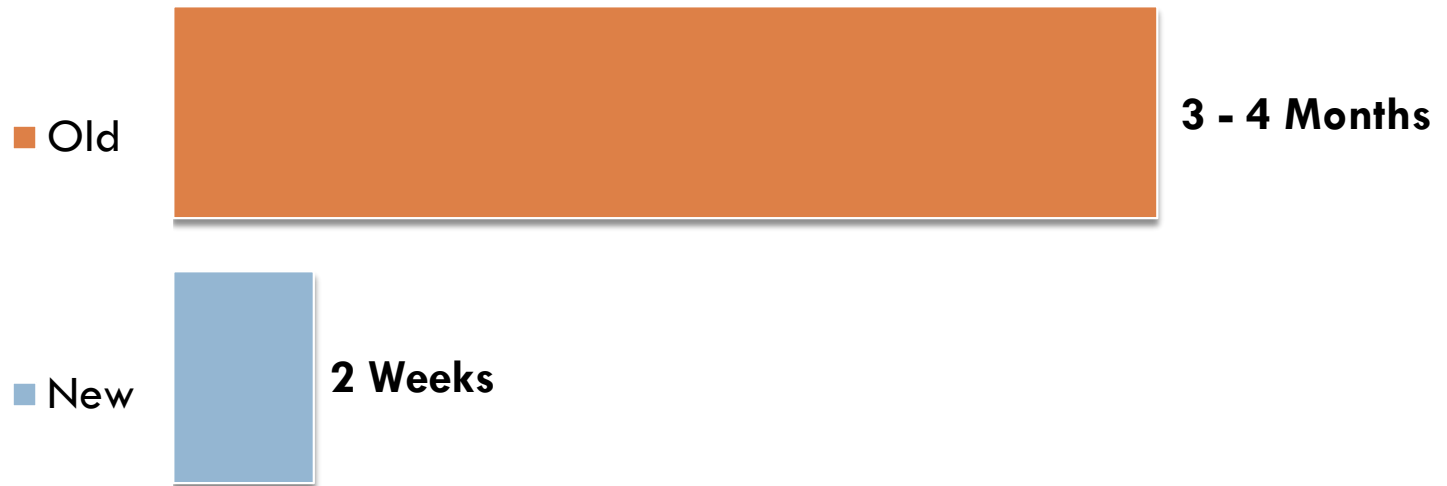


“Now, curators capture the information when they first think of it.”



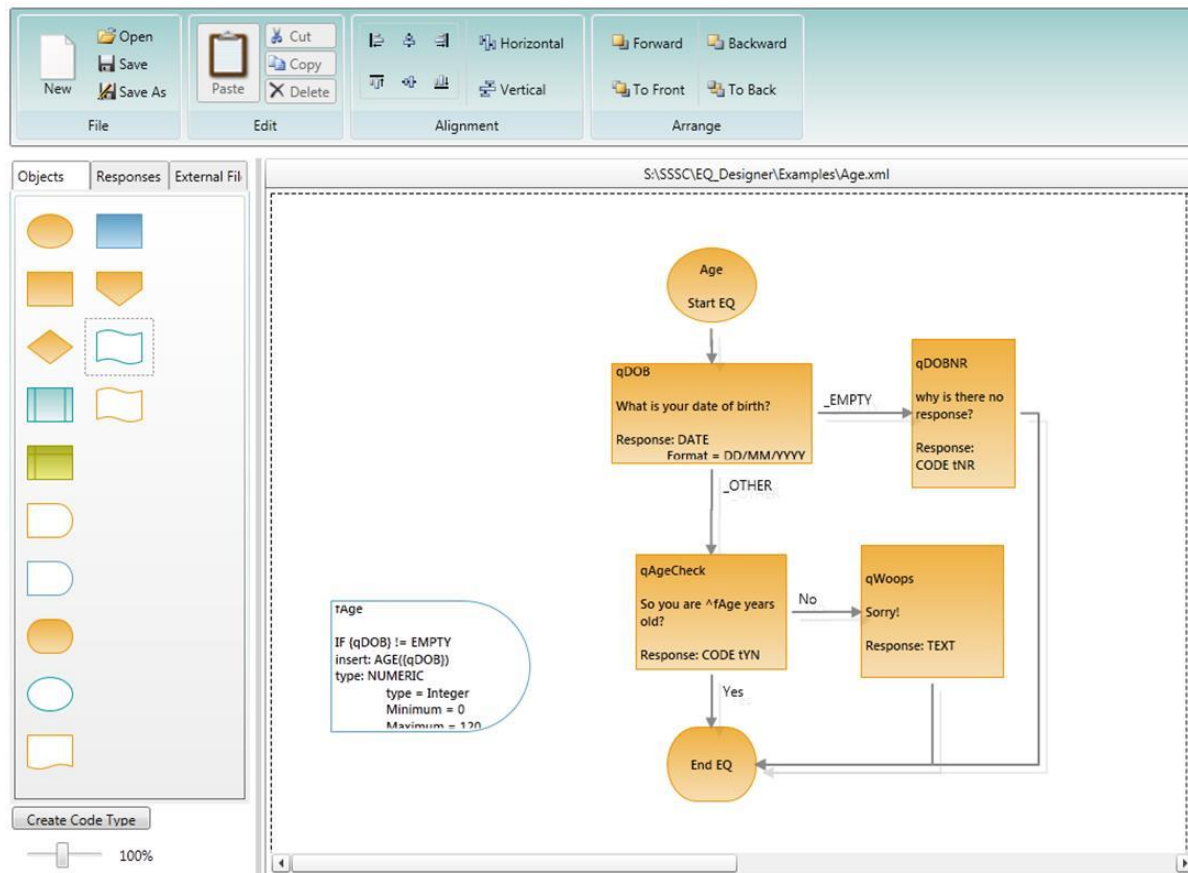
Key Result 2 - Archiving

Time to Train Archivists



Key Result 3 – New tools

Questionnaire Editor



Key Result 3 – New tools

Questionnaire Editor

The screenshot displays the 'Question Editor' window with the following fields and options:

- File:** Save, Import Metadata
- Question Name:** qDOB
- Question Text:** What is your date of birth?
- Interviewer Instructions:** (Empty text area)
- Response Options:**
 - Response Type: Date
 - Format: DD/MM/YYYY
- Data Validation:**
 - Applied Data Edits: (Empty list)
 - Buttons: Add Standard Edit, Create Edit
- Supporting Attributes:**
 - Lookup File: (Dropdown menu)
 - Help File: (Text area)
 - Layout: (Dropdown menu)
 - Temporary:
 - Dependent Data:
 - Showcard: Custom Showcard



Facts and Figures (as of 2013)



1,008

Datasets

200

Series



20 - 40

Metadata
Curators

219

Unique
Portal Users



INSEE

- Represent questionnaires in DDI 3.2 XML
- Tested with ESA survey
 - ▣ the main French structural business survey
- Automatically generate:
 - ▣ Paper forms for respondents to complete
 - ▣ Blaise source code for data entry



INSEE – Next Steps

- ESA survey proved that DDI can be used for
 - Survey specification
 - Enabling survey generation
- Expanding use of DDI to create surveys in a project called Coltrane
- “DDI will be the standard of choice”



Statistics Denmark

- Managing Series and Study-level metadata
 - ▣ Using DDI Lifecycle
 - ▣ Describing concepts, populations
- Eurostat Quality reporting requirements
 - ▣ From DDI to ESMS, ESQRS SDMX formats
 - ▣ Automatic report generation



Statistics Denmark

- DDI Lifecycle is now used in their production environment
- Next steps include documenting
 - ▣ Variables and datasets
 - ▣ Classifications according to the Neuchatel model and DDI 3.2





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Thank you

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