Metadata Management
DDI-Lifecycle Overview

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Overview

• What it contains
• How DDI-Lifecycle fits together
• Relationship between different objects
DDI-Lifecycle Overview
Data collection

- Study Unit

Data Collection
- Methodology
- Processing Event
- Processing Instruction
- Instrument
- Instructions

[Data Capture Flow]
Control Constructs
- Sequence
- If Then Else
- Else If
- Computation
- Statement
- Loop Until
- Loop While
- Repeat Until
- Repeat While
- Question Construct
- In Parameter
- Out Parameter
- Binding

Questions or Measures
- Intent
- Question Text
- Type of Measurement
- Representation
  - Sentinel
  - Substantive
- Question Grids
- Question Block
- Stimulus
- Response

Wendy Thomas IPUMS (2016)
Data management

- **Logical Product**
  - Categories
  - Represented Variables
  - NCubes (dimensional data)
  - Data Relationship

- **Variables**
  - Source(s)
  - Universe
  - Analysis Unit
  - Source Unit
  - Concept
  - Embargo
  - Measurement Unit
  - Representation
    - Sentinel
    - Substantive
  - Weighting
  - Processing Instruction

- **Managed Representations**
  - Numeric
  - Text
  - DateTime
  - Scale
  - Ratio
  - Geographic Code
  - Codelist

- **Study Unit**
- **Data Collection**
- **Managed Representations**
Data production

Physical Product
• Physical Structure
• Record Layout

Logical Product

Physical Instance
• Citation
• Coverage
• Data file identification
• Quality Statement
• Statistical Summary

Study Unit

Wendy Thomas IPUMS (2016)
Data Capture
Conceptual
Data production
Connecting information across the Lifecycle

Data Conception, Collection and Computation (schematic)
Connecting information across the Lifecycle

Data Conception, Collection and Computation (example)