Object Oriented DDI

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DDI Meeting 17/5/2001
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IASSIST/IFDO Conference
FASTER, a data web

— Follow up of NESSTAR, uses DDI 1
— Extra:
  — Tabular data
  — Statistical Disclosure Control
  — Access Control Component
  — Better Metadata Object Model
    — Object Oriented
    — Suitable for Micro and Tabular data

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CRISTAL 1.2 Process

— National Statistical Institutes
— Standard for (multidimensional) statistical data
— Started as extension to ComeIn
— Now driven and developed by Statistics Netherlands and Nordic NSIs
— Rich Machine Understandable information
— Resulted in COM-component
CRISTAL 1.2 Model

- Cristal
- DataPoint
- Variable
- Hierarchy
- Level
- Item
- Beta
- Gamma
- Cube
- Dataset
- DataPoint
Faster Cubes

— Addition to DDI 1.0 to support Cubes
— Use all appropriate tags from DDI
— Add only tags for unsupported concepts
  — Cubes are just a representation of data
  — Different roles for variables
— Use developments in Cristal
— Now coincides with DDI Cubes Proposal

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DDI Cubes Proposal

codeBook
  - fileDscr
  - dataDscr
    - var
      - nCube
        - dmns
          - timeDmns
          - measure
        - catgry
          - cohort

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MOM

—Metadata Object Model
—Final goal for FASTER wrt Metadata
—Use within FASTER not within the lifetime of the current project
—Use input from MetaNet, DDI, FasterCubes
—Take the best from DDI, Cristal, CWM, ISO11179
—Will feed into DDI 2, Cristal 2
—Or will coincide with DDI 2, Cristal 2
All together

- DDI 1
- Workshop
- DDI meetings

- CRISTAL 1
- WendyCube

- DDI 1.1

- IASSIST
- MetaNet
- DDI meeting
- NTTS...

- DDI 2

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MOM Specification (2)

- Space
- Population
- Variable
  - Nominal Variable
  - Ordinal Variable
  - Interval Variable
  - Ratio Variable
- Term
- Domain
- Operation
- TermSet
- TermSeries
- TermRange

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MOM Specification (3)

Term

Level

Classification

DerivedVariable

Transformation

Variable

Question

Operation

Estimate

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www.faster-data.org
DDI 1.0 Process

—Initiated by ICPSR (Social Science Data Archives)
—Standard for describing/retrieval of data
—Heavily influenced by NESSTAR project
—Used as metadata model in NESSTAR
—Rich Human Readable information
—Resulted in XML-DTD
—Co-ordinated by DDI Committee

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DDI 1.0 Model

codeBook

- docDscr Description of the code book itself
  author, affiliation, copyright

- stdyDscr Description of the study resulting in the data: survey, author, institute, etc.

- fileDscr Description of the physical file: format, file location, etc.

- dataDscr Description of the data: variables, categories, labels, etc.

- otherMat All the rest
DDI 1.1

— Addition to DDI 1.0 to support Cubes
— Clean up
— Link to Limber
— Input from:
  — Limber
  — Faster (Faster Cubes)
  — Univ of Minnesota (Wendy Cubes)
DDI 2

— Object Oriented DDI
— Includes Hierarchical data, Cubes

Cristal 2

— Revision of Cristal 1
— More attention to micro/survey data

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