

# DDI Perspective

## CESSDA PPP Expert Workshop

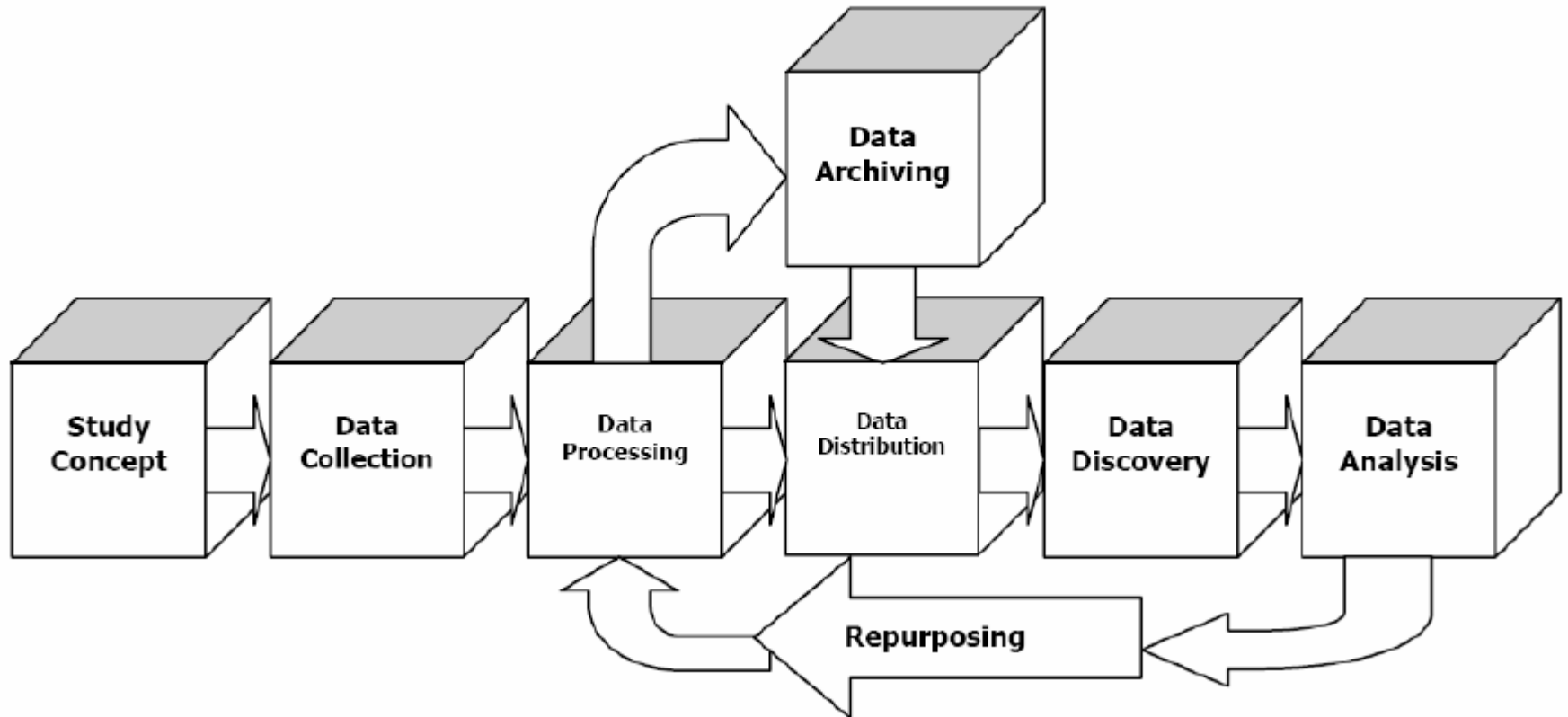
Paris, April 3rd 2008

Joachim Wackerow, GESIS  
Vice Chair – DDI Technical Implementation Committee

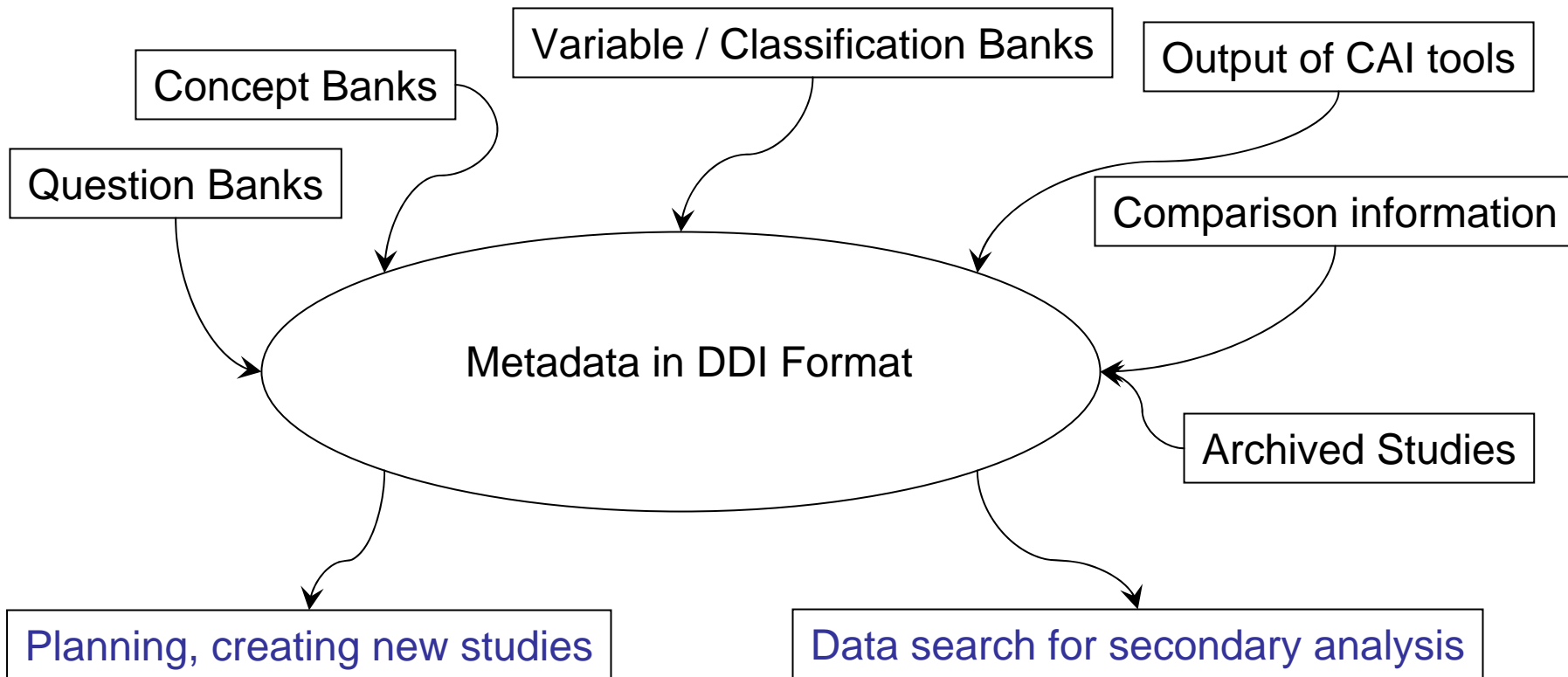
*DDI 3.0 Candidate Version 3 was finished two days ago.  
Last review & voting by DDI Alliance member institutions.  
Planned publication end of April.*

[www.ddialliance.org](http://www.ddialliance.org)

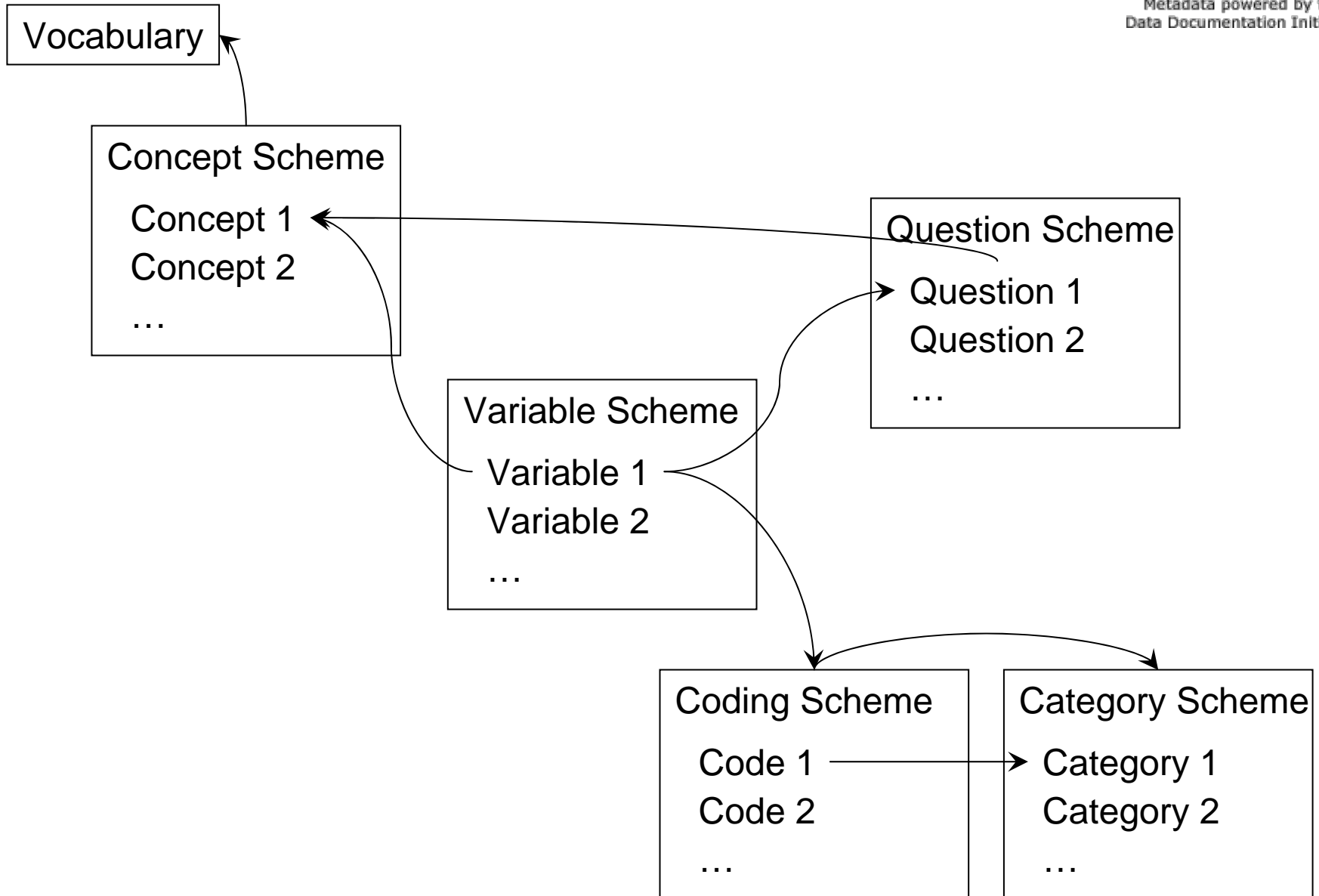
## LIFE-CYCLE OF DATA



# Envisioning the Social Science Metadata Network



When an application understands DDI, it can contribute to or can have benefit of the social science metadata network.



# Maintaining / Versioning / Identifying

- **Maintenance agency**
- **Version number**
- Version date
- Textual description of the rationale/purpose for a version change
- Version responsibility (person/organization within the maintenance agency)
- **Identification**
  - Globally unique identifier in combination with **version number** and **maintenance agency**

# Comparison Module

- Maps comparable items from two different schemes:
  - Concepts, variables, coding schemes, categories, questions, universes
  - More planned in future versions
- The comparison is one-to-one, from source to target (i.e. harmonized variable)

# Comparison Module

Relationship between source and target items

- Textual description of the **common** aspects of the two items
- Textual description of the **differing** aspects of the two items
- Formal description of the relationship according a **controlled vocabulary**
- A value between 0 and 1 expressing the **degree** of commonality
- A **user-defined property** defining the correspondence
- Description of the derivation process (coding schemes)

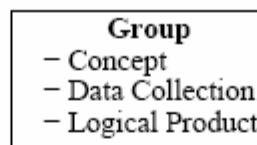
# Derived variables

- Description of derivation
- Command setup (i.e. SPSS, SAS, ...) as inline information or as external file
- Derivation process formalized in a XML language (like MathML) independently from statistical packages
  - Generation of commands for different target formats possible (like SPSS, Stata, ...)



# The Idea of Grouping and Inheritance

- ▶ Hierarchical Model
- ▶ On the top level:  
definition of Information  
as a standard
- ▶ On a lower level:  
capture of variations  
and additions
- ▶ Inheritance of all  
characteristics of  
studies down the  
hierarchy tree of  
meta-data!



## What is SOEP?

Description

Data Structure

## SOEP & DDI 3.0

### Grouping Model

Overview

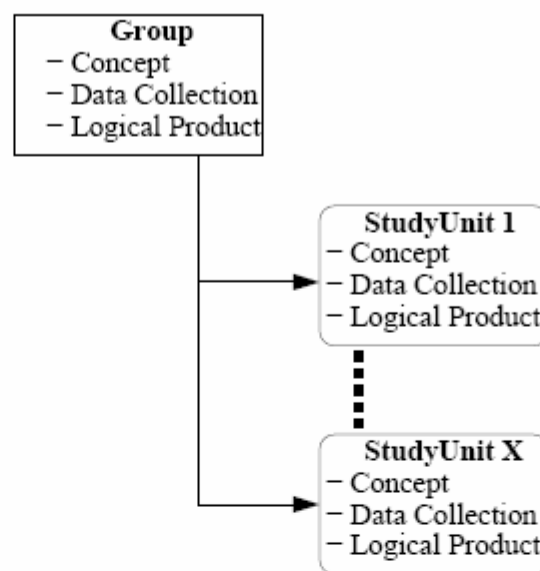
Example: SOEP

Data Relationships

## Conclusion

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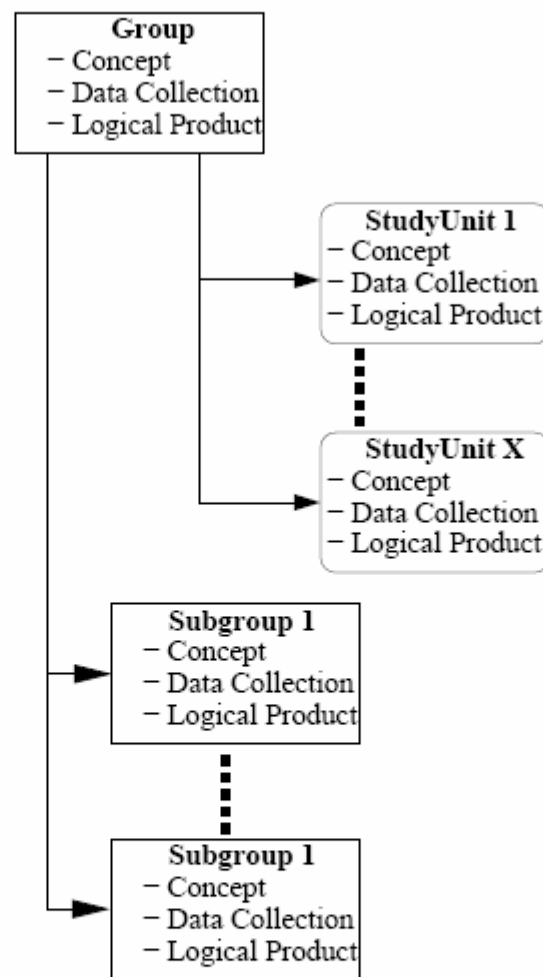
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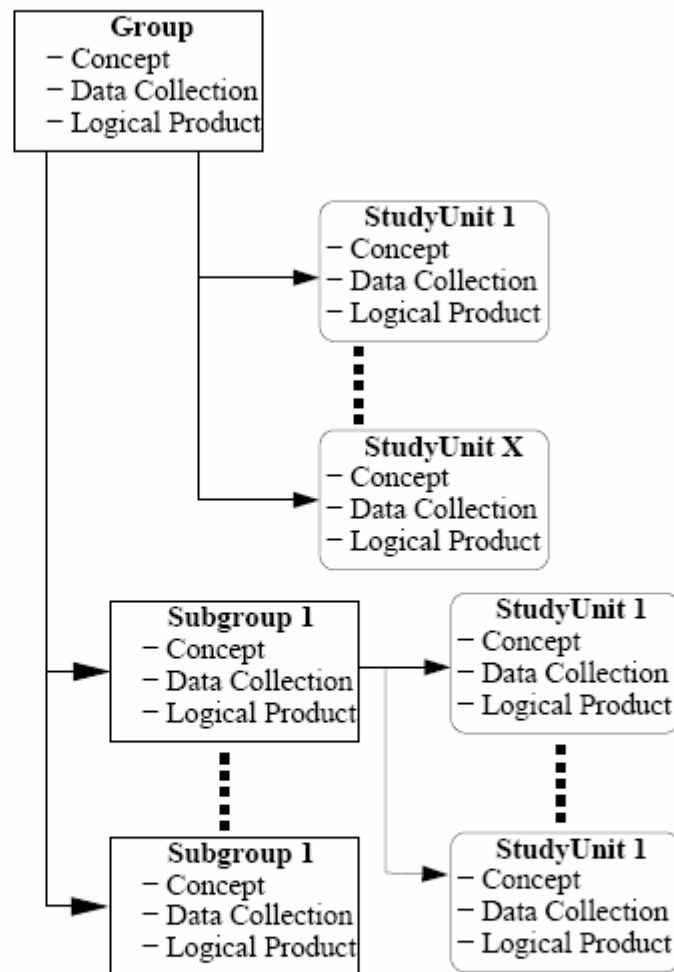
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## SOEP & DDI 3.0 Grouping Model

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# DDI 3.0 Grouping Model: Example 1

- ▶ Because of the European Monetary Union (1.1.2002) the currency of income changes from DM to €
- ▶ Insert two Subgroups (before and after)

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