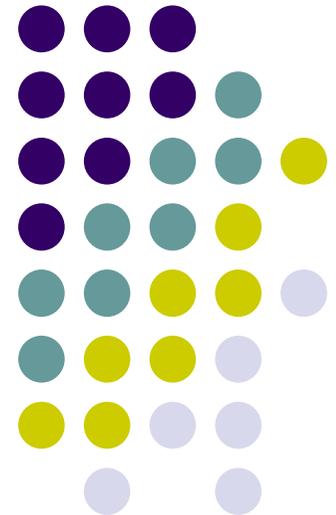
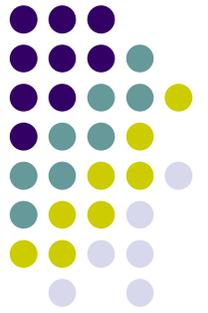


Evaluating Digital Library Information Models

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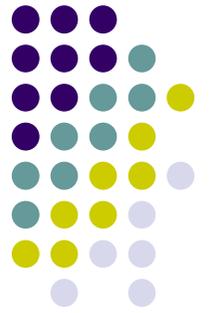




Overview

- Short introduction to FRBR and the BIBSYS FRBR project
- The evaluation needs of the project
- A broader context

The BIBSYS FRBR Project



- Participants/cooperation:
 - BIBSYS, National Library of Norway, NTNU, OCLC, and others
 - Funded by the Norwegian Archive, Library and Museums Authority (ABM Utvikling)
- Motivation
 - Explore the use of the FRBR model in library catalogues
 - Large scale and realistic testcase
 - Develop, test, analyze and evaluate various aspects
- Major outcome
 - analysis and recommendations based on large scale and realistic data

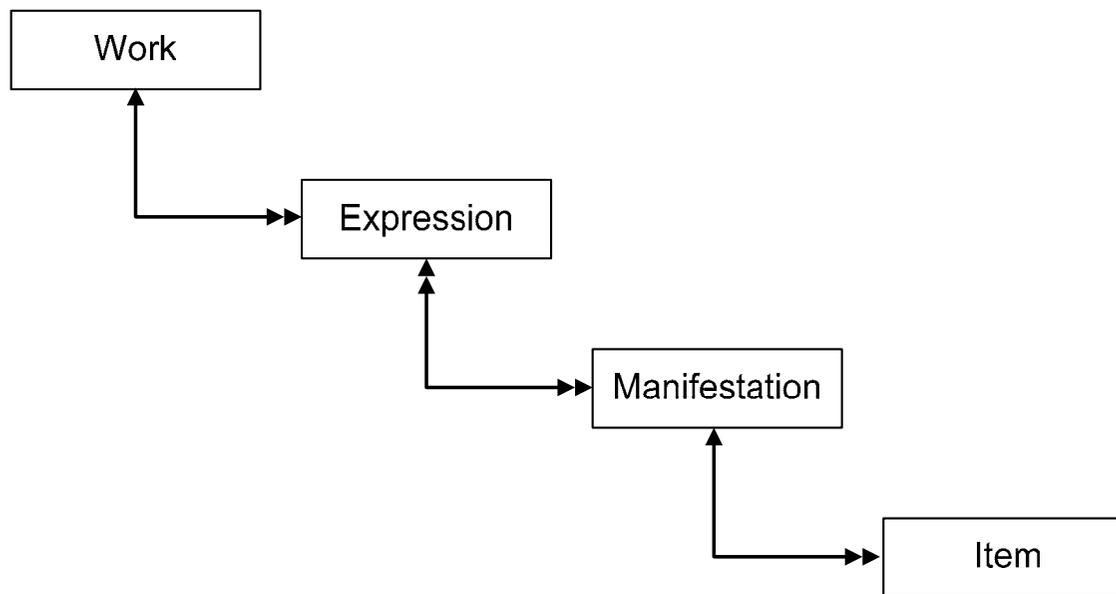


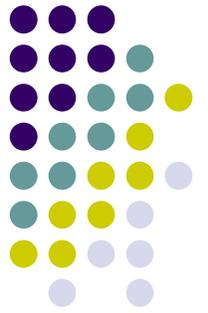
The FRBR model

- Developed by the IFLA Study Group on the Functional Requirements for Bibliographic Records
- A conceptual model
 - Entities, attributes and relationships
- Considered to be the future information model for bibliographic systems



Group 1 entities





Project tasks

- Develop an implementation model of FRBR
- Define mapping tables between BIBSYS-MARC and FRBR
- Conversion strategy, rules, algorithms
- Convert the 3.7 mill. records of the BIBSYS database
- Search prototype



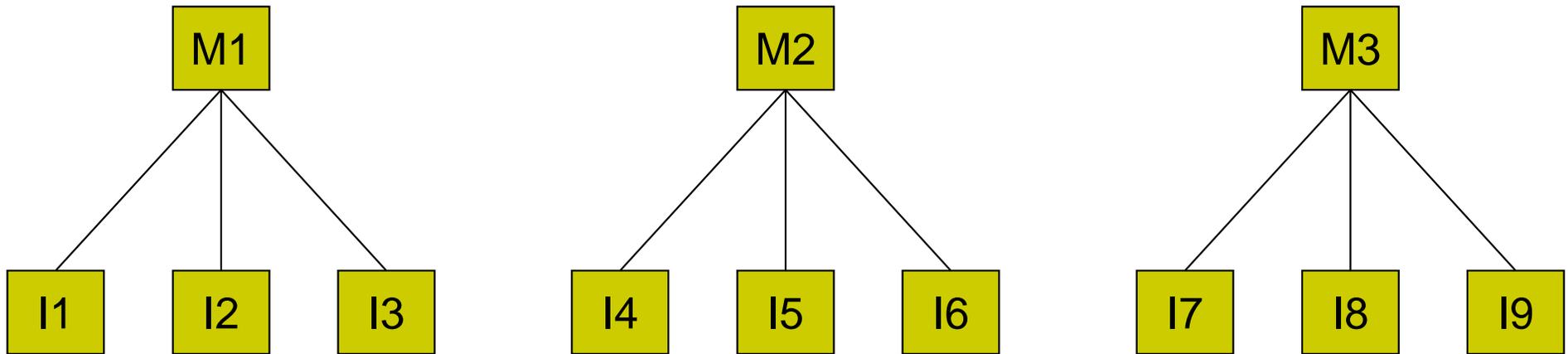
Evaluation issues

- Data quality of MARC records in context of conversion to FRBR
- The quality of mapping tables, conversion strategies/algorithms
- Structural characteristics of the FRBR test database*
- The usability of FRBR in user interfaces
- Interpretations of the model?
- Variations of the model?



Example 1a

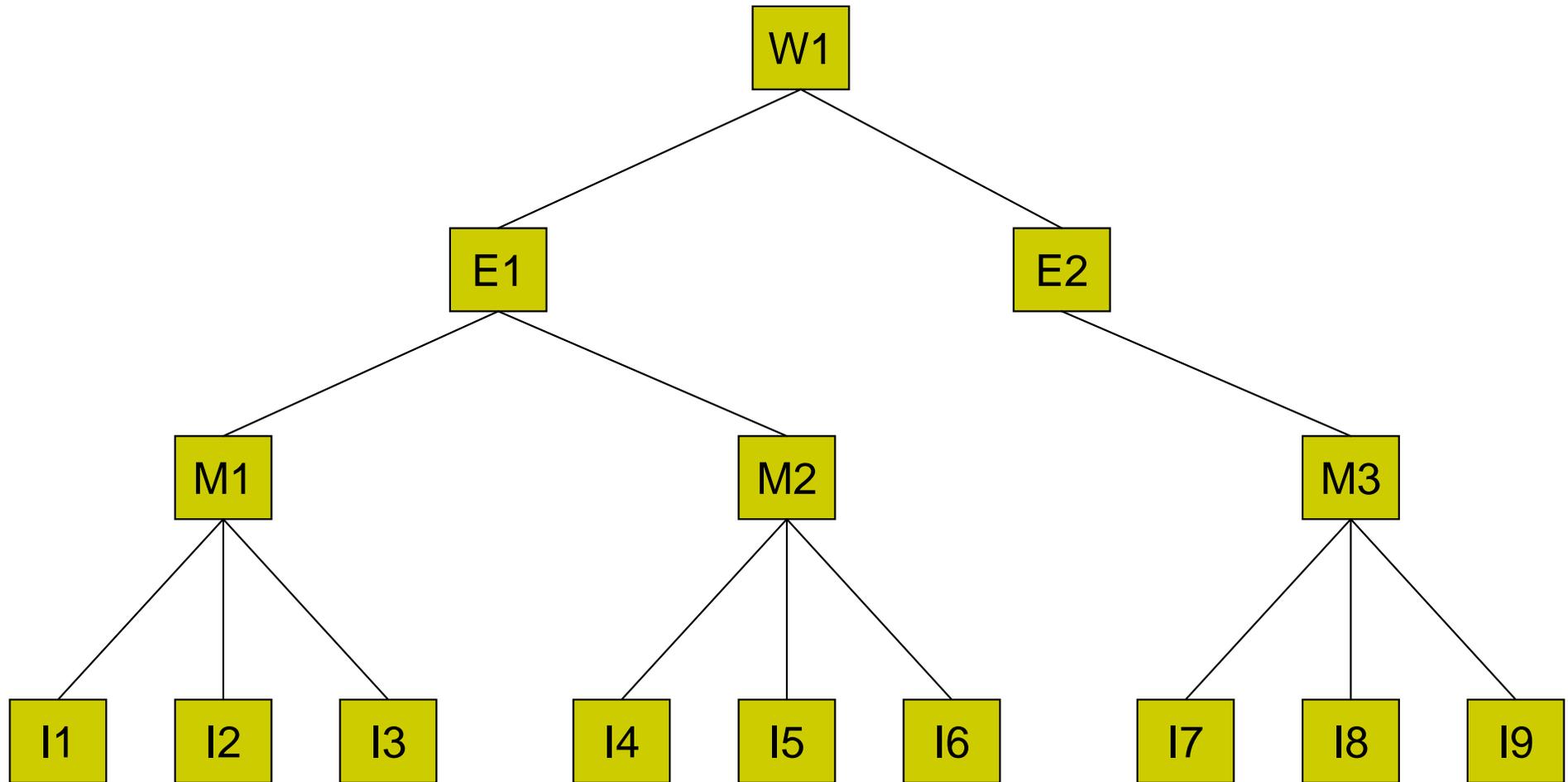
What we have:





Example 1b

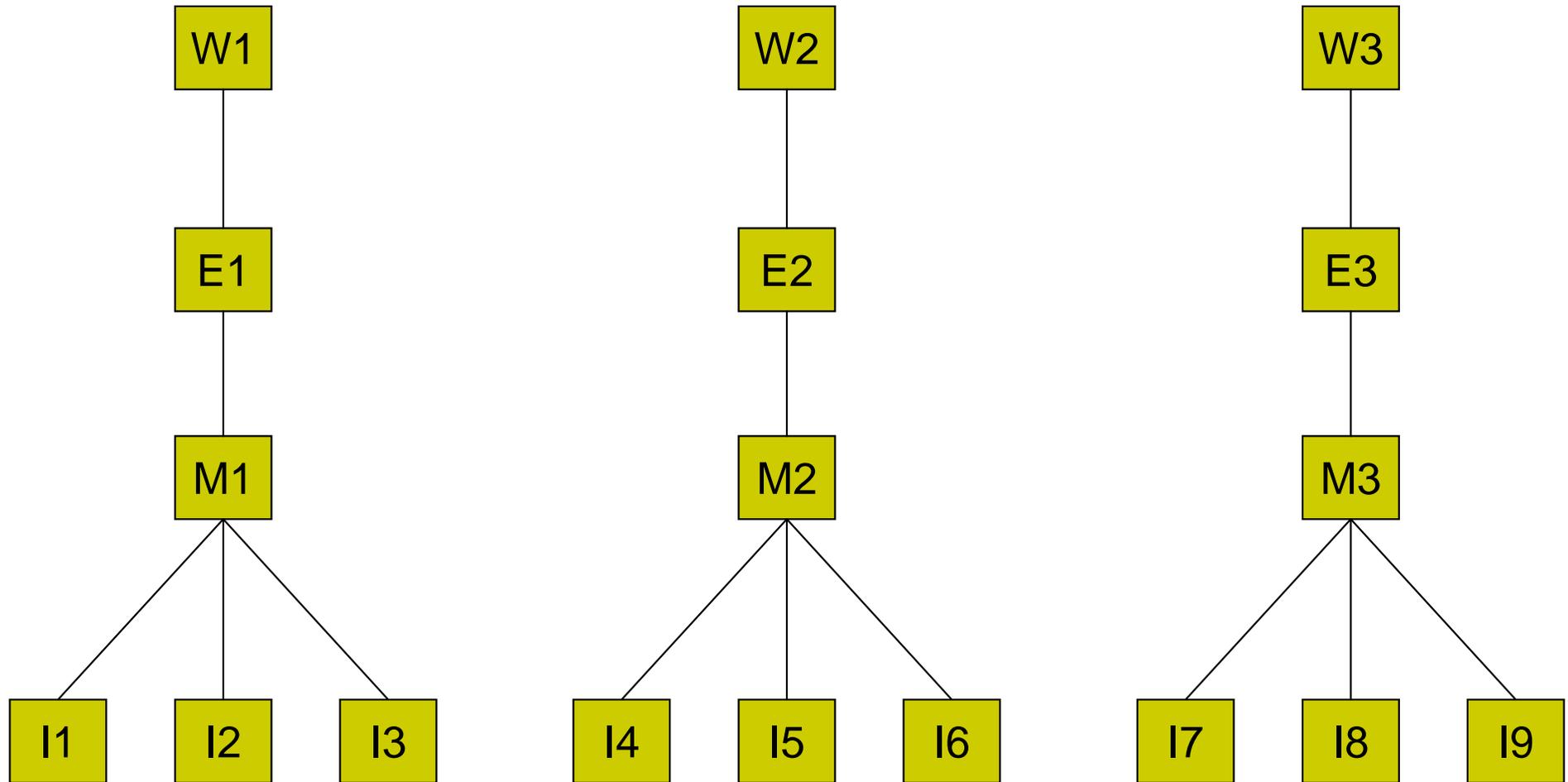
What we want:





Example 1c

What we may get:





Generalizing

- Data quality
 - How to evaluate and how to express
- Mapping
 - The quality of structural and semantic interoperability
- Structural characteristics
 - What is the quality of information spaces
- Usability
 - What does the model or metadata format enable and what does it support



Conclusions

- Information models and metadata formats are important elements in digital libraries (and other information systems)
- Standards will have significant impact on future information systems
- A focus on advanced models/formats
- Testing and evaluation of information models and metadata formats is not very well supported yet
 - Vocabularies, testbeds, best practice