

Harmonizing Between Different Agencies Using DDI Profiles

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Outline

- When developing software for data documentation one has to think about how to incorporate the DDI standard
- DDI-L 3.1 is a powerful standard that can support sophisticated data models and data production modes
- At the same time software needs to be manageable and adjusted to the given institution

DDI-L - considerations

- DDI Lifecycle 3.1 / 3.2
- XML Schema
 - DDI 3.1 – about 900 main elements
 - DDI 3.2 – about 1150 main elements
 - Each element might contain a number of sub-elements
 - Some elements are quite domain specific
- High degree of complexity
- Number of mandatory element quite low due to the demands of different organizations or domains

Challenge when building tools

- Normally there is only a need for 50-60 main elements for a given survey or organisation
- But not always for the same 50-60 main elements
- Huge challenge when building software tools
- Especially when it is about DDI import and export functionalities
- The results are likely not interoperable solutions

Example from the IAB Metadata project

DDI Concept for IAB Tools Project

Datei Bearbeiten Ansicht Einfügen Format Daten Tools Hilfe Lesezugriff

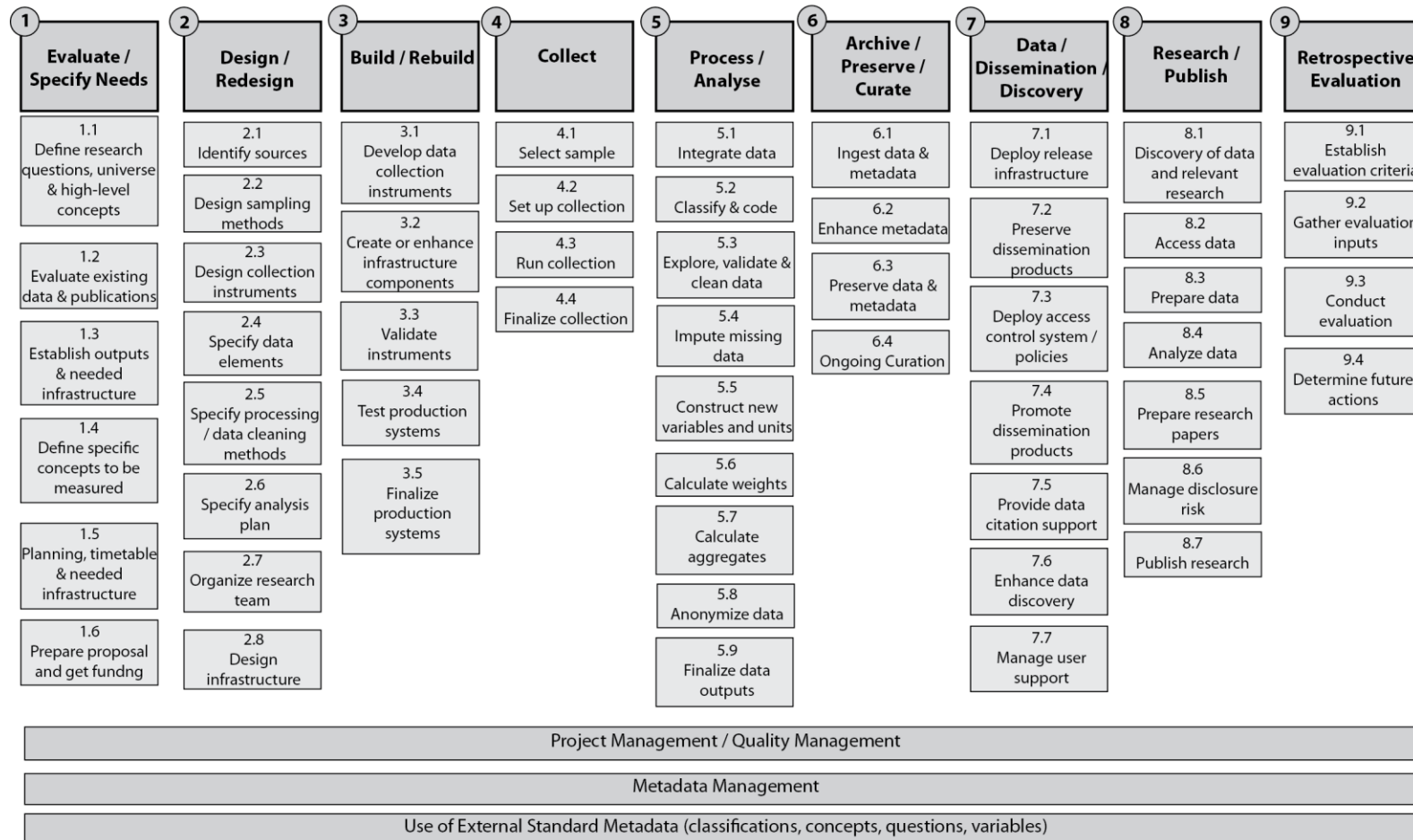
DDI Element					
	A	B	C	D	E
	DDI Element	IAB Term	Gbes 0.2	Colectica	Questasy
1	@time			y	y (*)
2	@captureInstrument			y	y (*)
3	@panel			y	y (*)
4	@geography			y	y (*)
5	@dataProduct			y	y (*)
6	@languageRelationship			y	y (*)
7	Citation			y	y
8	Citation Title	Name	Name	y	
9	Abstract	Abstract	Abstract	y	y
10	AuthorizationSource		-	n	n
11	UniverseReference	Data unit	-	y	y
12	SeriesStatement			y	n
13	ExPostEvaluation		-	n	n
14			Funding, Funding From, Funding To		
15	FundingInformation			y	y
16	ProjectBudget		-	n	n
17	Purpose		-	y	y
18	KindOfData	Data type	-	y	n
19	Coverage		-	y	y
20	Coverage TopicalCoverage		-	y	
21	Coverage TopicalCoverage Subjects	Topics	-	y	
22	Coverage TemporalCoverage ReferenceDate StartDate	Period Covered from	-	y	
23	Coverage TemporalCoverage ReferenceDate EndDate	Period Covered to	-	y	
24	OtherMaterial		Bibliography	y	y
25	Embargo		-	y	n
26	StudyUnitReference		Survey waves	y	n
27	SubGroupReference		-	n	n

Solution DDI Profiles by “topic”

- Creating of DDI Profiles is described in an article from 2010
- The idea is to not have individual profiles but standardized profiles by “topics”
- Examples of topics may include: “survey design”, “data collection” or more specific “administrative data”; what else?
- Institutions can then choose the needed profiles for their institution and be interoperable with others

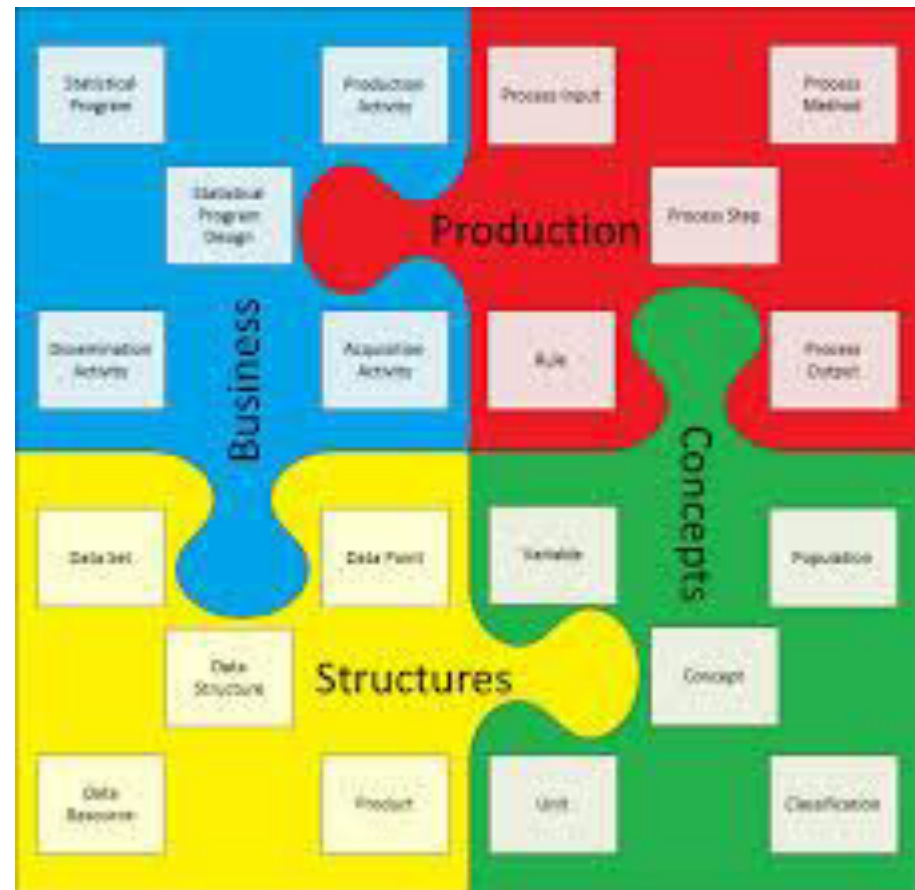
Creating profiles – GLBPM

Generic Longitudinal Business Process Model: Overview



Creating profiles – GSIM

- Create profiles related to the business objects in GSIM (ABS)



Creating profiles – product view

- Requirement for "product-specific" exchange formats
- Dataset description standard (like DDI-C, but with DDI-L elements)
- Questionnaire description standard
- Concept vocabulary standard

→ Potential to create those product-specific standards as DDI Profiles

Standard DDI profiles: Main goals

- Standard DDI profiles should cover the most used DDI elements by topics
- Agencies can choose from those profiles
- This will lead to an harmonized use of DDI
- And to easier exchange between tools and agencies

Summary

- Different approaches to create standard profiles
 - Institutional view (e.g. IAB needs), conceptual view (GLBPM, GSIM), product view (questionnaire, etc.)
- Goal is:
 - to make DDI-L manageable and
 - to ensure exchange possibilities between different software (harmonization between agencies)
 - to prepare shift to DDI-L 4.0
- Useful standard DDI-L profiles need to be discussed and agreed on

Thank you for your attention

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