

## DDI-Lifecycle at the Data Archive: the Metadata Schema for Documentation in Different Software Tools

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## DDI-Lifecycle at the Data Archive

The Metadata Schema for Documentation in  
Different Software Tools

*Esra Akdeniz & Wolfgang Zenk-Möltgen*



GESIS Papers 2017|18

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## GESIS Papers

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# 1 Introduction

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## 1.1 DDILimDAS

This report is an English translation of the original German project report. However, some updates have been included that came up after completion of the original project. To make it easier for users we have highlighted the changes in the current report with a light orange color in the tables of chapter 2.3. We hope that this helps to identify possible improvements.

The DDI-Codebook (DDI-C) standard is currently used in the Gesis Data Archive (DAS) as a metadata format for the documentation and archiving of products, projects, and processes. In order to cover the full life cycle of research data and to ensure interchangeability and reusability of metadata externally and internally in the archive, DDI elements, which support the version DDI-Lifecycle (DDI-L)<sup>1</sup>, are necessary. The aim of the project DDILimDAS (DDI-Lifecycle application in the GESIS Data Archive) is the development of a metadata schema in the DDI-L format and the conversion of the products, projects, and processes to DDI-L.

To develop and document the metadata schema, the metadata structure of the following tools were evaluated with regard to their similarities and differences:

- DBK (data catalogue)
- CBE (Codebook Explorer)
- CharmStats (Software to harmonize and recode variables)
- DSDM (Dataset Documentation Manager)
- da|ra (Registration Agency for Social and Economic Data)
- datorium (Repository for social science and economic science data)
- Missy (Microdata Information System is an online service platform that provides structured metadata for official statistics)
- Stardat (Data Archiving Suite)

The metadata elements of these tools and implemented preliminary work and concepts for the conversion to DDI-L were reviewed. Subsequently, new metadata elements were identified and included in the DDILimDAS metadata scheme.

This report lists the metadata elements and the associated tool-mappings. The metadata elements, definitions and XPathS (if DDI-Mapping was available) are displayed in section 2.3, with references to DDI mandatory elements, further remarks, and workarounds.

The entire metadata schema of DDILimDAS is compatible with DDI-Lifecycle 3.2 of the Data Documentation Initiative. Elements of Dublin Core Metadata Initiative are also being used<sup>2</sup>. The DDILimDAS schema can be used by tool developers for further development to ensure a consistent use of the DDI-Lifecycle metadata format. This will assure interoperability across the phases of the research data cycle.

In addition to this documentation, a sample file in a DDI-Lifecycle XML format and a DDI profile for the specification of the used elements is also available at <https://dbk.gesis.org/ddi/>.

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<sup>1</sup> <http://www.ddialliance.org>

<sup>2</sup> <http://dublincore.org/>



## 2 DDILimDAS metadata elements

### 2.1 Overview

For better clarity and structuring of the metadata elements, the following table shows a list of the thematic areas, which are covered in the entire metadata schema. Certain metadata elements are assigned to each topic field. Further details on these areas are described in section 2.2. The complete list of all metadata elements can be found in section 2.3.

Table 1: Overview of the DDILimDAS metadata topics

Information on Project: 0
General Information
Country-specific Information
Information on Study: 1
General Information
Bibliographical Information
PIDs and Versioning
Lifecycle-Information
Content-related Information
Methodological Information
Juridical Information
Related Resources
Information on Person(s): 2
General Information
Information on Institution(s): 3
General Information
Information on Dataset: 4
General Information
Content-related Information
Technical Information
Variables
Statistical analysis
Information on Survey Instrument: 5
General Information
Content-related Information
Technical Information
Information on Questions Et Answers: 6
Questions
Answers
Deviation of question wording
Information on Documents: 7
General Information
Content-related Information
Technical Information
Syntax
Information on Groups of Studies: 8
General Information
Relation Group-Study
Information on Products: 9
General Information
Relation Product-Study
Information on Concepts/Categories: 10
General Information
Information on Literature: 11
General Information
Information on Notes: 12
General Information
Information on DDI-Instance: 13
General Information

## 2.2 General notes on the use and structure of the elements

The conversions of the metadata elements from DDI codebook to DDI-Lifecycle, as well as the mapping of the metadata elements to DDI-Lifecycle, were carried out according to certain structural principles. The following chapters provide information on the storage and structure of the metadata elements. Further information can be found in figure 1 in section 3.1.3.

### 2.2.1 Reusability of metadata elements

The structure of the scheme is based on the principle of reusability of metadata elements. In DDI, information can be stored in elements under ResourcePackage or under StudyUnit. StudyUnit can be used to store elements that describe a study. If an information unit is to be reused in different studies, elements can be stored in ResourcePackage and referenced within StudyUnit. In order to reuse as much information as possible in the DAS, the new metadata elements for DDILimDAS are mostly stored under ResourcePackage and referenced under StudyUnit.

For some metadata elements, the storage is not possible or not provided under ResourcePackage.

Study specific metadata (use of StudyUnit):

- Information on the study level (general information on the study (study-ID, etc.); bibliographical information on study (date of publication, etc.); PIDs and documentation; details/errata, lifecycle information, content-related information (keywords, etc.); methodical information (selection procedures, etc.); legal information (availability, license, etc.), related resources)
- Some information about the datasets (analysis instructions and tables)
- Technical information about the survey instruments (software, file size, etc.)
- Information about documents (document description, syntax information, etc.)
- Information on the structured bibliography (author, issue number, pages, etc.)
- Information on notes (type of note, name of note, etc.)

Reusable metadata (use of ResourcePackage):

- Information on persons /institutions (names, affiliations, publisher, etc.)
- Some methodological information (area of investigation, population etc.)
- Some information on the datasets (file size, variables, etc.)
- Content-related information about the survey instrument (description, name, language, etc.)
- Information on questions (questionnaire, intention of the question, etc.)
- Information on answers (specific answer text, name of the code list, etc.)
- Information on concepts (concept ID, concept name, concept group, etc.)

### 2.2.2 Use of Group and Subgroup

The element Group is used to store project-related information, study groups and products. If a study is carried out in several countries, Subgroup is used and provided with the DDI attribute G4 ("Different geography each survey"). Each country below the subgroup receives its own StudyUnit. If a study is performed once in a country, the elements are also mapped under subgroup, including a corresponding DDI attribute ("G2" Single geography surveyed once).

### 2.2.3 Documentation of the order of the metadata elements

In some tools, the order of the metadata is documented. These are: order of publication, order of display, order of primary researchers, order of categories, order of keywords, order of survey period, file order, group order, product order and order of the concepts.

There is no element in the DDI-Lifecycle where the order of metadata can be defined. The order of the respective elements is therefore implicitly determined by the order of storage in the XML file.

### 2.2.4 Introduction of new metadata elements

Metadata elements that have not been used in any of the DAS-tools have also been included in the DDILimDAS metadata schema. These metadata elements can be understood as a recommendation for the tool developers to include them in their metadata schema.

The following elements are recommended for the DBK: Structured entry for literature specification, ContributorType, Affiliation, IDs for persons and institutions, CollectionMethod, Selection method (SamplingMethod).

In the DDILimDAS metadata schema, a collection of information on the "meta meta-level" is recommended. This information is about the metadata, such as rights to the metadata, authors of the metadata, software, version etc.

Other new metadata elements, which are considered useful, are: Study-ID (as internal ID in addition to study number), survey unit/response unit, publication is primary/ secondary/ source literature, contact details of persons, comments on persons, institution abbreviation, logo of the institution, URL/contact person of the institution, comments on the institution, link to the data set, link to the file, link to the syntax file, question reference, survey instrument ID, study reference, source, master questionnaire, software, procedure for the checksum, question ID, survey instrument allocation, reference between question and answer, reference between question and concept, question number, code list label, specific ID, document ID, syntax document ID, syntax document language, syntax source, group ID, product ID, note ID, name of note, note reference.

## 2.3 DDILimDAS metadata schema

The following table contains all topics (marked with grey background) of the metadata elements that were included in the DDILimDAS metadata schema. The metadata elements are numbered and definitions, notes and DDI Mapping recommendations in DDI-Lifecycle-Format are provided. The tool-mappings of these metadata elements are located in the appendix of this document. Terms printed in italics indicate that the terms are not DDI elements but content, e.g. a name or a term of a CV (controlled vocabulary). The fields which are marked with a „w" are workarounds of the mappings to DDI-L. The numeration in the first column „No." also contains the hierarchy of elements: Objects are placed on first position. (e.g. 0 = Project, 1 = Study, 2 = Person). These container elements mostly have several child elements (e.g. 0.1= Project name, 1.1 = Study ID).

Table 2: Details of DDILimDAS metadata elements

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Project: General Information</b>				
0	Project		Container element	
0.1	Project Name	Name of Project	ddi:DDIInstance/g:Group/r:SeriesStatement/r:SeriesName/r:String + ddi:DDIInstance/g:Group/r:StudyUnitReference/r:TypeOfObject="StudyUnit"	Name of the project  Reference to the study
0.2	Project Summary	Description of the project	ddi:DDIInstance/g:Group/r:SeriesStatement/r:SeriesDescription/r:Content + ddi:DDIInstance/g:Group/r:StudyUnitReference/r:TypeOfObject="StudyUnit"	Description of the project  Reference to the study
<b>Information on Project: Country-Specific</b>				
0.3	Studies with multiple countries	Studies (e. g. EU-SILC 2011) are represented as sub-groups of series (e. g. EU-SILC)	Container element	
0.3.1	Studies with multiple countries with information of all countries	StudyUnit represents study with information of all countries; geographical coverage contains all countries of study	Used in Missy, not used in DDILimDAS	
0.3.2	Studies with multiple countries with information for specific countries	StudyUnit representing study with information for specific countries; geographical coverage contains specific country	Used in Missy, not used in DDILimDAS	
0.4	Studies with One Country	"G0" No specified relationship "G1" Single geography surveyed multiple times "G2" Single geography surveyed once "G3" Rolling geography "G4" Different geography each survey	ddi:DDIInstance/g:Group/g:Subgroup[@geography="G2"]/s:StudyUnit	
<b>Information on Study: General Information</b>				
1	Study		Container element	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.1	Study-ID	ID of the study	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserID (with @typeOfUserID="InternalStudyID") <sup>3</sup>	Using a CV „GesisTypeOfUserID"
1.2	Class of Condition	Quality classification of the study 4: no processing, 3: multiple punched verified data, 2: simply punched and verified, 1: standard-processing	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure/pi:ProcessingStatus (with @codeListName="GesisProcessingStatus")	Using a CV "GesisProcessingStatus"
<b>Information on Study: Bibliographic Information</b>				
1.3	Study Number	Unique archival Identifier of study unit within the Data Archive; Internal Identifier of the resource	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserID (with @typeOfUserID="StudyNumber")	Using a CV „GesisTypeOfUserID"
1.4	Title	Study title; title of the resource; main title of the research data	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r>Title/r:String	
1.5	Other Title	Further title; Additional title, e.g. sub title, alternative title etc.; Additional titles of the study	See 1.5.1 below	Content is mapped to different fields depending on the type
1.5.1	Type of Other Title	Type of additional title (da ra controlled List)	No mapping: decides on field for „other titles"  For alternative title: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:AlternateTitle/r:String (xml:lang="de" isTranslation="false")  For secondary title: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:SubTitle/r:String (xml:lang="de" isTranslation="false")  For original title: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r>Title/r:String (xml:lang="de" isTranslation="false")  For translated title: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r>Title/r:String (xml:lang="en" isTranslation="true")	
1.6	Year	Year of the study for display	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:PublicationDate/r:SimpleDate	

<sup>3</sup> Terms which are printed cursively point out that these are no DDI elements but actual content, such as the name of a CV or the term within a CV

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.7	Principle Investigator	Person or institute, who is responsible	Container element	
1.7.1	Person Name	Name of principle investigator (if person); Name of primary researcher or author (person); Responsible author of the research data	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FullName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference/r:TypeOfObject="Individual" When 1.7.3 is filled: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorReference/r:TypeOfObject="Individual" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorRole (with @codeListName="DataCiteContributorType"= "Researcher")  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FirstGiven  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:Middle  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:LastFamily + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference/r:TypeOfObject (here: ID of Individual see above)	Instead of full name also possible: First, Middle, Family  If different information in 1.7.3, then map under Contributor  Using a DataCite CVs "DataCiteContributorType"
1.7.1.1	Associated Institution	Name of institution; Institution of the Principle Investigator	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:TypeOfObject="Individual" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:TypeOfObject="Organization" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:Role/r:Description/r:Content="Affiliation" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/ a:OrganizationIdentification/a:OrganizationName/r:String resp. r:IndividualName/r:String	Reference to person  Reference to organization  Additional information  Name of institution/ person
1.7.2	Institution Name	Name of institution; Institution of	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/	Name of the institution

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		the Principle Investigator	a:OrganizationName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference/r:TypeOfObject="Organization"	Reference to a study
1.7.2	Order Primary Investigator	Order of appearance	No mapping: implicitly in XML by the order of the elements	
1.7.3	Deviating Primary Investigator Citation	For example: „ISSP Research Group" instead of listing all 40 researchers	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FullName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference/r:TypeOfObject="Individual"	If different information is available, then specify under Creator; Existing creator are moved under Contributor.
1.8	Publisher	Institution publishing the research data	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Publisher/r:PublisherReference/r:TypeOfObject="Organization"	
1.9	Publication Date	Year of publication (by publisher) of the dataset	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:PublicationDate/r:SimpleDate	
1.10	Data Collector	Institution, which carried out the survey	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:DataCollectorOrganizationReference/r:TypeOfObject="Organization"	
1.10.1	Deviating Data Collectors Citation	Name of Data Collecting institution, if it needs to appear in the citation	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorReference/r:TypeOfObject="Organization" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorRole (with @codeListName="DataCiteContributorType"= "DataCollector")	Using a DataCite CVs "DataCiteContributorType"
<b>Information on Study: PIDs and Versioning</b>				
1.11	Research Data Type		Container element	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.11.1	General Resource Type	Class of the resource type; Controlled Vocabulary of da ra	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:Datacollection/dc:CollectionEvent/dc:DataSource/dc:SourceType (with @codeListName="DataCiteResourceTypeGeneral")	Using a CVs from DataCite "DataCiteResourceTypeGeneral"
1.11.1.1	Resource Type	Description of file type; Description of the resource	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:Datacollection/dc:CollectionEvent/dc:DataSource/dc:SourceType/dc:SourceDescription/r:Content	
1.12	Version	Version of the study	Container element	
1.12.1	Version Number	Number of the version; Number of the dataset version; Version of the registered resource	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserID (with @typeOfUserID="VersionNumber") ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserID (with @userIDVersion="{CurrentVersion}")	Using a CV „GesisTypeOfUserID"
1.12.2	Version Date	Date of the version	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit (with @versionDate)	
1.12.3	DOI	The DOI name that is registered for the research dataset; Recommendation for a DOI; The DOI name that is registered for the research dataset	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:InternationalIdentifier/r:IdentifierContent ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:DataFileIdentification/pi:Location	Mandatory element= r:ManagingAgency
1.12.4	URL	URL that is registered with the DOI; URL to the landing page of the DOI; The datorium URL of the research dataset is being registered automatically with the DOI	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial/r:ExternalURLReference ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance//pi:DataFileIdentification/pi:DataFileURI	
1.12.5	Reason Version	Description of the reasons for the Versioning	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:VersionRationale	
1.12.6	Internal	Marks the version to be internal	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit (with @isPublished="false/true")	
1.12.7	Username	Name of the person, who created the version	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:VersionResponsibility	
1.12.8	Details/Errata	List of details concerning a version/errata in current version	Container element	
1.12.8.1	Detail Date	Date of entry	sddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:MetadataQuality/r:TypeOfMetadataQuality="Version-Detail" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:MetadataQuality/r:Description/r:Content=XHTML table with sub items	
1.12.8.2	Detail Title	Short title of entry	See above	
1.12.8.3	Detail Description	Description of entry	See above	
1.12.8.4	Detail Date Correction	Date of Correction	See above	



Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.12.8.5	Detail Corrected	Is entry corrected? Format: yes/no Intern	See above	
1.12.8.6	Detail Correction Description	Description of Correction	See above	
1.12.8.7	Detail Username	Name of the person, who is responsible for the detail change	See above	
1.12.8.8	Detail Type	Type of entry: Which Number of the version will be increased, if the entry will be corrected; CV: Major, Minor, Revision intern	See above	
1.12.8.9	Order Details	Order of appearance	No mapping: implicitly contained in XML by the order of the elements	
1.13	AlternateIDs	Additional other identifiers of the research dataset	Container element	
1.13.1	Alternative ID Version	In case the alternative ID refers to a certain version (optional)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserID (with @userIDVersion="1.0.0")	
1.13.2	Alternative ID-Type	Type of alternate ID (mandatory); Type of additional identifier; Additional other identifier of the research dataset	ddi:DDIInstance/g:Group/s:StudyUnit/r:UserID (with @typeOfUserID="AlternateID")	
1.13.3	Is Main-ID	In case the alternative ID should be presented as main ID in the citation; makes this the main ID, and displays DBK-DOI as AlternateID instead	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserID (with @typeOfUserVersion="isMainID")	
<b>Information on Study: Lifecycle-Information</b>				
1.14	Lifecycle Event	Life Cycle Acquisition: acquired by: protocol: archived on: Data providers Contract on: Data Provider-Project-No: Accessibility:	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:LifecycleInformation/r:LifecycleEvent/r:Description/r:Content OR ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:LifecycleInformation/r:LifecycleEvent/r>Date/r:SimpleDate for "Contract on"	Using a CV "GesisLifecycleEventType"
1.14.1	Remarks		Container element	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.14.1.1	Unavailability remarks	Displayed text, if study was withdrawn and DOI gets accessed	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType"="unavailabilityremarks") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:Description/r:Content	Using a CV "GesisLifecycleEventType"
1.14.1.2	Remarks on the origin of data	Remarks on the origin of data	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:LifecycleInformation/r:LifecycleEvent/r:AgencyOrganizationReference/r:TypeofObject="Organization"	
1.14.1.3	Remarks on data state	Remarks on data quality	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType"="dataqualityremarks") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive /r:LifecycleInformation/r:Description/r:Content	Using a CV "GesisLifecycleEventType"
1.14.1.4	Remarks on data description	Remarks on data description	ddi:DDIInstance/g:Group/s:StudyUnit/a:Archive/r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType"="datadescriptionremarks") + ddi:DDIInstance/g:Group/s:StudyUnit/a:Archive/r:LifecycleInformation/r:Description/r:Content	Using a CV "GesisLifecycleEventType"
1.14.2	Date	Date	Container element	
1.14.2.1	Creation-Date	Date on which the study number was created	ddi:DDIInstance/g:Group/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType"="Referencedate") + ddi:DDIInstance/g:Group/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:Date/r:SimpleDate	Using a CV "GesisLifecycleEventType"
1.14.2.2	Access class-Date	Date on which the access class was changed	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType"="accessclassdate") + ddi:DDIInstance/g:Group/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:Date/r:SimpleDate	Using a CV "GesisLifecycleEventType"
1.14.2.3	Status class-Date	Date on which the status class was changed	ddi:DDIInstance/g:Group/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:EventType (with @codeListName="GesisLifecycleEventType"="statusclassdate") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive /r:LifecycleInformation/r:LifecycleEvent/r:Date/r:SimpleDate	Using a CV "GesisLifecycleEventType"
<b>Information on Study: Content-related Information</b>				
1.15	Content/ Abstract	Thematic summary of the study, encoded variables, demographics;	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Abstract/r:Content	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		Content-related summary of resource; Description of content, summary or short report; Full description of the study; Full description of the study (English); Study description		
1.15.1	Type of description	Type of the description (da ra controlled list) (summary, table of contents, methods, other)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UserAttributePair/r:AttributeKey = {CV-value} and r:AttributeValue={The content goes here}	Using a CV of da ra "Gesis-da ra typeOfDescription"
1.16	Classification	Association of a study with classification	Container element	
1.16.1	Class Identifier	Unique identifier of class	No mapping: save the name of the class in subject no mapping: instead use Subject within TopicalCoverage to save the name of the class ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject=Politics	
1.16.2	Classification Name	Name of used classification system; Allocation to ZA category; Topic specification of the research data; CV of the CESSDA topic classification; Technical specification of research data	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject (with @codeListName="ZA-Categories")	
1.16.3	ClassificationURI	Persistent Identifier of Classification System	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject (with @codeListURN="")	
1.16A	External Classification	Class Name of the disciplinary classification of publication agent	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject	
1.16A.1	Classification Name	Name of classification	g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject (with @codeListName="")	Using a CV for the used classification
1.16.4	Order of Classification	Order of appearance; Order of entries	No mapping: implicitly contained in XML by the order of the elements	
1.17	Keywords	Reference of the study to keywords from thesauri (z. B. TheSoz, STW, ELLST) or controlled keyword lists that describe the content of the resource closer	Container element	
1.17.1	Keywords ID	Unique identifier of keyword	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Keyword	
1.17.2	Keyword Name	Description of used system for Keywords	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Keyword (with @codeListName)	Using a CV for the used keywords

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.17.3	Keyword URI	Persistent Identifier of Keyword System	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Keyword (with @codeListURN)	
1.17.4	Order Keywords	Order of appearance	No mapping: implicitly contained in XML by the order of the elements	
17.5	Keyword (free)	Blank text field to explain the content more precisely	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Keyword	
<b>Information on Study: Methodological Information</b>				
1.18	Study Time Dimension	Describes the time dimension of the data collection	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/dc:TypeofTimeMethod (with @codeListName="TimeMethod")	Using a CV der DDI Alliance "TimeMethod"
1.18A	Study Time Dimension (free)	Possibility to describe the time dimension in a blank text field, if the controlled vocabulary list does not consist of any suitable terms	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:TimeMethod/r:Description/r:Content	
1.18.1	Frequency	frequency of data collection; Example: annually	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:DataCollectionFrequency/dc:IntendedFrequency	Mandatory element: r:StartDate and r:Cycle
1.19	Study Area	Geographical reference of study	Container element	
1.19.1	Study Area Code	ISO code of geographical reference; Geographical entity of respective study area (controlled vocabulary ISO 3166); Geographical description of the research units; Value from external CV; Identifier of external CV	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:Country_2 (with @codeListName=ISO-Code) OR ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:GeographicLevelDescription/r:Content + ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:AuthorizedSource/r:Description/r:Content + ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:LocationValue/r:LocationValueName/r:String + ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:LocationValue/r:GeographicLocationIdentifier/r:GeographicCode with r:AuthorizedSourceReference + ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/c:GeographicLocationGroup/c:GeographicLocationGroupName/r:String with r:GeographicLocationReference/r:TypeOfObject="GeographicLocation" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:GeographicLocationRe	If only the country will be given will be used If besides the country, also regions and cities are to be indicated  Source from which the Codes are originated  Name of the Code  Code from the list  Reference of the location to a country

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ference/r:TypeOfObject="GeographicLocation"+ r:LocationValueReference/r:TypeOfObject="LocationValue"	Reference in the study to the location
1.19.2	Study Area Name	Name geographical description; Name; Internal number	ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:LocationValue /r:LocationValueName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:SpatialCoverage	If only the country is to be indicated
1.19.3	Study Area (free text)	Blank text field; Geographical entity of respective study area. Possibility, to independently assign geographical entities, if they are not available in the controlled vocabulary; e.g. West Berlin; simultaneous allocation of controlled generic terms; Study area	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:Description/r:Content	
1.19.4	Geographical coordinates	Information on latitude and longitude e.g. <geoLocation-Point>31.233000 -67.302000	ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:LocationValue /r:GeographicBoundary/r:BoundingPolygon/r:Point/r:XCoordinate (with @coordinateType="DecimalDegree") and r:CoordinateValue + ddi:DDIInstance/g:ResourcePackage/c:GeographicLocationScheme/r:GeographicLocation/r:LocationValue /r:GeographicBoundary/r:BoundingPolygon/r:Point/Y:Coordinate (with @coordinateType="DecimalDegree") and r:CoordinateValue	DDI committed Point to use 4 times. Since a point with two digits is provided for this metadata element, the multiple digressions are accepted to obtain a valid document.
1.19.5	Geographical extent	A box contains two separate pair specifications for width and length. The first pair specifications refer to the lower corner, the second to the upper corner, e.g. <geoLocationBox>41.090000-71.032000	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:SpatialCoverage/r:BoundingBox/r:EastLongitude rsp. NorthLatitude rsp. SouthLatitude rsp. WestLongitude	
1.20	Universe	Description of the population; Description of statistical entities, the selection is based upon, e.g. persons in private households of the FRG; Description of the population; Population	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/r:Description/r:Content + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:UniverseReference/r:TypeOfObject="Universe"	
1.21	Selection Method	Description of the sampling method; Used sampling procedure, e.g. multistage, stratified random selection of eligible voters; Description of the sampling method; Selection	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure (with @codeListName="SamplingProcedure") OR ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/r:Description/r:Content	Using a DDI Alliance CV "SamplingProcedure"  Alternative: free-text field (describe selection process)

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.22	Data Collection Mode	Description of the method of data collection	Container element	
1.22.1	Data Collection Mode (controlled)	Type of data collection mode (CV of da ra); Description of the method of data collection; Sampling procedure; self-defined CV: face-to-face; by phone; postal; online	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeofCollection/dc:TypeofModeofCollection (with @codeListAgencyName="DDIAlliance" und codeList-Name="ModeOfCollection")	Using a CV from the DDI Alliance „ModeOfCollection“
1.22.2	Data Collection Mode (free)	blank text field to describe the mode of data collection; Description of method used, to perform investigation	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:CollectionEvent/dc:ModeOfCollection/r:Description/r:Content	
1.23	Survey Period	Period in which the data collection was carried out; Content-related time span of data collection/ observations/activities respectively collections (da ra controlled list); Start of data collection; End of data collection;	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate	
1.23.1	Survey Period Start (Year)	Start of data collection (year)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate="1965"	
1.23.2	Survey Period Start (Month)	Start of data collection (month)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate="1965-02"	
1.23.3	Survey Period Start (Day)	Start of data collection (day)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:StartDate="1965-02-12"	
1.23.4	Survey Period End (Year)	End of data collection (year)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate	
1.23.5	Survey Period End (Month)	End of data collection (month)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate	
1.23.6	Survey Period End (Day)	End of data collection (day)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:EndDate	
1.23.7	Survey Period (free text)	blank text field; Possibility to name a time span, if it cannot be indicated in calendar mode (capturing of a number of waves, seasons etc.; e.g. Autumn 1989)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Coverage/r:TemporalCoverage/r:ReferenceDate/r:Subject	elements: StartDate or EndDate or SimpleDate
1.23.8	Order Survey Period	Order of appearance	No mapping: implicitly contained in XML by the order of the elements	
1.24	Weights	Weights for analysis	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingEventScheme/dc:Proc	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			essingEvent/dc:Weighting/r:Description/r:Content	
1.25	Unit Type	Type of units in the dataset, e.g. individual, organization; Type of entities, the resource describes, e.g. persons, households, firms, indicators etc.	Container element	
1.25.1	Analysis Unit	Type of units in the dataset, e.g. individual, organization	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:AnalysisUnit (with codeListName="AnalysisUnit")	Using a DDI Alliance CVs „Analysis Unit“
1.25.2	Response Unit	Unit/Respondent, which provided the information contained by the variable	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ControlConstructScheme/dc:QuestionConstruct/dc:ResponseUnit (with codeListName="ResponseUnit")	Using a DDI Alliance CVs „ResponseUnit“
1.26	WeightHH	Name of variable for Household Weight	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingEventScheme/dc:ProcessingEvent/dc:Weighting/r:Description/r:Content	
1.27	WeightRE	Name of variable for Representative Weight	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingEventScheme/dc:ProcessingEvent/dc:Weighting/r:Description/r:Content	
<b>Information on Study: Juridical Information</b>				
1.28	Data access	Description of possibilities to access data	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/r:Description/r:Content	
1.28.1	Data access - Order permission: J	For some studies you can set the following option: "Order via the shopping cart is not available"	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:AvailabilityStatus/r:Content	
1.28.2	Data access: notes	e.g. "In order to access the data, please fill out the contract of use"	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:Statement/r:String	
1.28.3	Date of data access	Date of last access	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessRestrictionDate/r:SimpleDate  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/r:AccessRestrictionDate/r:Startdate  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/r:AccessRestrictionDate/r:Enddate	
1.29	Access Class	Additional information regarding availability; Example: Data usage is subject to written data privacy policy	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessType/r:String	
1.30	Rights	Information about the legal rights of the dataset, e.g. copy-right; Information regarding right	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Copyright/r:String	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		that are connected with the resource.		
1.31	Availability (controlled)	Availability of the resource (data controlled list: download, available, on-site use, unavailable, unknown); The class of availability that the research data has; The class of availability that the research data has	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessCondition/r:Content  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:Note/TypeOfNote (with @codeListName="TypeOfNote"="availabilityControlled") + Reference to the object: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/r:Note/r:NoteContent/r:Content	
<b>Information on Study: Related Resources</b>				
1.32	Literature	Literature with free text for publication which are primarily related to the study	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:otherMaterial/r:Description/r:Content	
1.32.1	Literature Reference	Allocation of study to related literature	Already covered by ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial	
1.32.2	Primary-/Secondary-/Original Literature		Container element	
1.32.2.1	Publication of Primary Literature	Publication is Primary Literature about the development of the dataset	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial (with @codeListName="GesisTypeOfMaterial"="PrimaryLiterature")	Using a CV „GesisTypeOfMaterial“
1.32.2.2	Publication of Secondary Literature	Publication is Secondary Literature about results from the analysis of a reuse of the data.	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial (with @codeListName="GesisTypeOfMaterial"="SecondaryLiterature")	Using a CV „GesisTypeOfMaterial“
1.32.2.3	Publication is "Original"	Is publication the original source of the data and therefore to be named prominently.	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial (with @codeListName="GesisTypeOfMaterial"="OriginalLiterature")	Using a CV „GesisTypeOfMaterial“
1.32.3	Order Publication	Is publication the original source of the data and therefore to be named prominently.	No mapping: implicitly contained in XML by the order of the elements	
1.33	Links	Web links for additional information	Container element	



Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
1.33.1	URL	URL of additional information	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial (with @codeListName="GesisTypeOfMaterial"="Link") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:ExternalURLReference	
1.33.2	Link Description	Description of the Link	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Description/r:Content	
1.33.3	Order Links	Order of appearance	No mapping: implicitly contained in XML by the order of the elements	
<b>Information on Person: General Information</b>				
2	Persons		Container element	
2.1	Person ID	Unique Identifier of Person; Unique Identifier of Person. Can be supplemented by da ra, if not available;	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:ResearcherIdentification	
2.1.1	Index name Person ID	Name of index/vocabulary the ID stems from	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:TypeOfID (with @codeListName="GesisTypeOfResearcherID")	Using a CV "GesisTypeOfResearcherID"
2.1.1.1	PersonURI	Persistent Identifier of Person System	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:TypeOfID (with @codeListURN)	
2.1.2	Person Name	Name of the person	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FullName/r:String	
2.1.3	Type of Person	Type of Person	No mapping available	
2.1.4	Date of birth	Date of birth	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/r:UserID (with @typeOfUserID="DateOfBirth")	Using a CV „GesisTypeOfUserID"
2.1.5	Place of Birth	Place of Birth	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/r:UserID (with @typeOfUserID="PlaceOfBirth")	Using a CV „GesisTypeOfUserID"
2.1.6	Department	Department	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:RegionalCoverage	
2.1.7	Logo	Logo (URL)	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualImage/r:ImageLocation=URL	
2.2	Associated Institution	Name of the institution; Affiliation of primary researcher or of the author to an institution	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:TypeOfObject="Individual" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:TypeOfObject="Organization" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:Role/r:Description/r:Content="Affiliation" +	Reference to person  Reference to organization  Additional information

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String	Name of the institution/person
2.3	Contact Information	Contact Information of Person(s)	g:ResourcePackage/a:OrganizationScheme/a:Individual/a:ContactInformation	
2.4	Remarks	Additional Information of Person(s)	g:ResourcePackage/a:OrganizationScheme/a:Individual/a:AdditionalInformation/r:Content	
2.5	Additional Participants/ Contributors	Specifying other performers next to the person; Name of institution/person, contributing to the resource development (data collection, management, publisher)	Container element	
2.5.1	Contributor ID	Unique identifier of the person. Can be supplemented by da ra, if not available.	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:ResearcherIdentification	
2.5.1.1	Contributor Vocabulary	Vocabulary providing the identifier	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:TypeOfID (with @codeListName="GesisTypeOfResearcherID")	Using a CV "GesisTypeOfResearcherID"
2.5.1.2	URI of the authority record	Persistent Identifier of the authority record	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:TypeOfID (with @codeListURN)	
2.5.2	Name of Contributor	Name of a person who has contributed to the project	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FullName/r:String  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FirstGiven  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:MiddleName  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:LastFamily + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorReference/r:TypeOfObject="Individual" (here ID of Individual)	
2.5.3	Contributor Role	Role of the contributor; Role of person; Type of contributor resource (da ra controlled list)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Contributor/r:ContributorRole (with @codeListName="DataCiteContributorType")	Mandatory element: ContributorName, we accept double naming Using a DataCite CVs "DataCiteContributorType"
2.5.4	Associated Institution of Contributor	Institution of the participating person; Affiliation of contributor to institution	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:SourceObject/a:IndividualReference/r:TypeOfObject="Individual" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:OrganizationReference/r:TypeOfObject="Organization"	Reference to person  Reference to organization

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			<pre> rence/r:TypeOfObject="Organization" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/r:Relation/a:TargetObject/a:Role/r:Description/r:Content="Affiliation" + ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationName/r:String + r:IndividualName/r:String </pre>	<p>Additional information</p> <p>Name of the institution/person</p>
2.5.4.1	ID of associated institution of Contributor	Unique Identifier of Affiliation. Can be supplemented by <code>da ra</code> , if not available	<pre> ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:ResearcherIdentification </pre>	
2.5.4.1.1	Vocabulary ID of associated institution of Contributor	Vocabulary, which is the origin of the Identifier	<pre> ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:TypeOfID (with @codeListName="GesisTypeOfResearcherID") </pre>	Using a CV "GesisTypeOfResearcherID "
2.5.4.1.2	URI of the authority record	Persistent Identifier of the authority record of the affiliation of the contributor	<pre> ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:ResearcherID/a:TypeOfID (with @codeListURN) </pre>	
2.5.5	Funding Agency	Organization or person who funded the study	<pre> ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:FundingInformation/r:AgencyOrganizationReference/r:TypeOfObject="Organization"  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FirstGiven + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:FundingInformation/r:AgencyOrganizationReference/r:TypeOfObject="Individual" (here ID of Individual)  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:Middle + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:FundingInformation/r:AgencyOrganizationReference/r:TypeOfObject="Individual" (here ID of Individual)  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a&gt;LastFamily + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:FundingInformation/r:AgencyOrganizationReference/r:TypeOfObject="Individual" (here ID of Individual) </pre>	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Institution(s): General Information</b>				
3	Institutions and Consortia		Container element	
3.1	Institution ID	Unique ID for Institution; Unique identifier of institution. Can be added by da ra, if not available; Unique identifier of affiliation. Can be added by da ra , if not available;	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/a:TypeOfOrganizationName (with @codeListID)  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/r:UserID (with @typeOfUserID)	
3.1.1	Vocabulary name Institution ID	Name of index/vocabulary the identifier origins from.	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/a:TypeOfOrganizationName (with @codeListName)	
3.1.1.1	InstitutionURI	Persistent Identifier of Institution System	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/a:TypeOfOrganizationName (with @codeListURN)  ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/r:UserID (with @typeOfUserID=identifierType)=URI + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Creator/r:CreatorReference/r:TypeOfObject (here: ID of Organization see above)	
3.1.2	Institution Name	Name of the Institution	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationName/r:String	
3.1.3	Institution Abbreviation	Abbreviation of the name of the Institution	ddi:DDIInstance/g:ResourcePackage/a:othermaterialnization/a:OrganizationIdentification/a:OrganizationName/r:Abbreviation/r:String	
3.1.4	Logo	Logo of the Institution	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:OrganizationIdentification/a:OrganizationImage/r:ImageLocation	
3.2	Address	General Term	Container element	
3.2.1	Street and House Number	Street name and house number	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:Address/a:Line	
3.2.2	ZIP Code	zip code	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:Address/a:PostalCode	
3.2.3	City	Place	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:Address/a:CityPlaceLocal	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
3.2.4	Country	Country	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:Address/r:Country_2	
3.2.5	URL	Website	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:URL	
3.2.6	Phone	phone number	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:Telephone/a:TelephoneNumber	
3.2.7	E-Mail	E-mail address	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Organization/a:ContactInformation/a:Email/r:InternetEmail	
3.3	Contact Person Name	Name of contact person of the company	ddi:DDIInstance/g:ResourcePackage/a:OrganizationScheme/a:Individual/a:IndividualIdentification/a:IndividualName/a:FullName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:ContactOrganizationReference/r:TypeOfObject="Individual"	
3.4	Remarks	For more information on the organization	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:OrganizationScheme/a:Organization/a:AdditionalInformation/r:Content	
<b>Information on Dataset: General Information</b>				
4	Dataset	Generic Term for whole dataset	Container element	
4.1	Dataset-ID	ID of dataset	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:UserID (with @typeOfUserID="DatasetID")	Using a CV „GesisTypeOfUserID"
4.2	Relation to Study	Foreign key to identifier of study	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Information about the record Reference of the data set to a study
4.3	File Type	Type of file	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial/r:TypeofMaterial (with @codeListName="GesisDBKTypeofMaterial"="Dataset") + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Using a CV "GesisDBKTypeofMaterial" Reference of the record information to a study
4.4	Published	Is the file intended to be published?	ddi:DDIInstance/ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct (with @isPublished="true/false") + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the record information to a study
4.5	Order File	Order of appearance	No mapping: implicitly contained in XML by the order of the elements	
4.6	Data Type	Coding; Type of collected data e.g. survey data, microdata, aggregate data, official data, clinical data	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:KindOfData (with @codeListName="GesisKindOfData")	Using a CV "GesisKindOfData"

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Dataset: Content-related Information</b>				
4.7	File Description	Description of the file content; Dataset	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial/r:Description/r:Content + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the record information to a study
4.8	File Name	File name of the dataset; Data referring to the particular fingerprint.; Dataset identifier	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial/r:Citation/r:Title/r:String + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the record information to a study
4.9	File Language	Language of the research dataset - meaning: language of the variable names/labels and the metadata within the dataset; Language of the research dataset; Language of meta data of resource (German or English).	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial (with @xml:lang) + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/r:Language (with codeListName=ISO 639-1)	
4.10	Number Units	Number of records in the dataset; Number of resource units; Number of units in the dataset	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure/pi:CaseQuantity	
4.11	Number Variables	Number of variables in the dataset; Number of resource variables	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote" ="VariableQuantity") + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:Relationship/r:RelatedToReference (Here: ID of LogicalProduct (data set)) +r:NoteContent/r:Content + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProduct/l:DataRelationship/l:LogicalRecord (with @VariableQuantity)	Using CV "GesisTypeOfNote"  Indication of the note  Content of the note  Reference of the record information to a study
4.12	Source	Sources that were used to create the dataset	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial/r:Citation/dc2:source + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Dublin-Core-Element  Reference of the record information to a study
4.12.1	Link	Link to record	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:OtherMaterial/r:ExternalURLReference + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the record information to a study

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			oduct"	
<b>Information on Dataset: Technical Information</b>				
4.13	Software	Software that is needed to use the dataset; Software that is needed to use the dataset	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="Software") + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:Relationship/r:RelatedToReference (here: ID von LogicalProduct (data set) + r:NoteContent/r:Content + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Using a CV "GesisTypeOfNote"  Indication of the note  Content of the note  Reference of the record information to a study
4.14	File size	Size in bytes; Size of data file	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="FileSize") + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:Relationship/r:RelatedToReference (here: ID of the LogicalProduct (data record)) +r:NoteContent/r:Content + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Using a CV "GesisTypeOfNote"  Indication of the note  Content of the note  Reference of the record information to a study
4.15	File Format	Technical format of the file, e.g. "Adobe PDF"; Format of data file	ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="FileFormat") + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/r:Note/r:Relationship/r:RelatedToReference (here: ID of the LogicalProduct (data record)) +r:NoteContent/r:Content + ddi:DDIInstance/g:Group/g:SubGroup/s:StudyUnit/r:LogicalProductReference/r:TypeOfObject="LogicalProduct"  <a href="#">ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:ItemFormat</a>	Using CV "GesisTypeOfNote"  Indication of the note  Content of the note  Reference of the record information to a study
4.16	File Checksum	Value of a check routine for the file to ensure integrity, MD5; Checksum proving data authenticity	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:datafingerprint/pi:DigitalFingerprintValue + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:RecordLayoutReference/r:TypeOfObject (with the ID of VariableScheme to get connection to the record)	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
4.16.1	Checksum Procedure	Procedure used to create the checksum	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:DataFingerprint/pi:AlgorithmSpecification + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:RecordLayoutReference/r:TypeOfObject (with the ID of VariableScheme to get connection to the record)	To create the connection between the record (in which the variables are contained) and the checksum or method, you must use RecordLayoutReference, which is located under PhysicalInstance and has a reference to the VariableScheme
<b>Information on Dataset: Variables</b>				
4.17	Variable		Container element	
4.17.1	Variable Name	Identifier of variable within a dataset; Name of variable; Name of target variable; Identifier of variable within a dataset	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableName/r:String + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	1 RP with variables  Variable Reference to the dataset (Logical Product) Reference of the variable to a study
4.17.2	Alt. Name	Alternative name for target variable	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableName (with @isPreferred="true") + /r:String + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the variable to a study
4.17.3	Variable Label	Label of variable for display; Variable identifier	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Label/r:Content + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the variable to a study
4.17.4	Alt. Label	Alternative for target variable	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Label/r:TypeOfLabel (with @codeListName="GesisTypeOfLabel" = "ispreferred/ isnotpreferred") + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Using a CV "GesisTypeOfLabel"  Reference of the variable to a study



Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
4.17.4.1	Source (Variables)	Source variable	Is covered by: ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable"	
4.17.5	Relation to Group	FK to identifier of variable group	Container element	
4.17.5.1	Group Reference	Group for variables of study	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:VariableGroup/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableGroupReference/r:TypeOfObject="VariableGroup" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the variable group to a study
4.17.5.2	Variable-Group-ID	Identifier of Variable Group	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:VariableGroup/r:UserID (with @typeOfUserID="VariablegroupID") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Using an internal list "GesisTypeOfUserID"  Reference of the variable group to a study
4.17.5.3	Variable-Group-Name	Label of group of variable for display; Label of variable group for display; Label of variable group for display (English)	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:VariableGroup/r:Label/r:Content + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Reference of the information from the variable group (here: label) to the study
4.17.6	Variable Position	Sequence number of variable within dataset	ddi:DDIInstance/g:ResourcePackage/pd:PhysicalDataProduct/pd:RecordLayoutScheme/ds:DataSet/ds:RecordSet/ds:VariableOrder/r:VariableReference/r:TypeOfObject="Variable"	Order of the references corresponds to the order information Mandatory element: p:PhysicalStructureLinkReference/pd:PhysicalRecordSegmentUsed Mandatory element: ds:Record/r:Value
4.17.7	Variable Format	Type of variable in SPSS syntax	ddi:DDIInstance/g:ResourcePackage/l:RepresentedVariableScheme/l:RepresentedVariable/r:ScaleRepresentation/r:GenericOutputFormat (with @codeListName="GesisVariableFormat") + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:RepresentedVariableReference/r:TypeOfObject="RepresentedVariable"	Using CV "GesisVariableFormat"
4.17.8	Variable Missing Information	List of missing values in SPSS syntax	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:Value="-98" + ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:Value="-99" + ddi:DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedMissingValuesRepresentation	CodeList, where the missing information is located  Reference to the above CodeList

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ation/r:MissingCodeRepresentation/r:CodeListReference/r:TypeOfObject="CodeList" + ddi:DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedMissingValuesRepresentation/r:MissingNumericRepresentation/r:NumberRange/r:Low + ddi:DDIInstance/g:ResourcePackage/r:ManagedRepresentationScheme/r:ManagedMissingValuesRepresentation/r:MissingNumericRepresentation/r:NumberRange/r:High	Missing Value Information as Ranges
4.17.9	Archive note	Archival information to the variable	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ArchiveNote") + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:Relationship/r:RelatedToReference (here: ID der Variable) + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:NoteContent/r:Content + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Type of note information Using a CV "GesisTypeOfNote"  Reference to the variable to which the note refers with ID of the variable  Actual content of the note (here: information for archiving the variable) Reference of the variable (indirectly the archive info) to the data record  Reference of the variable information to a study
4.17.10	Problem	Listing of a problem	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="Problem") + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:Relationship/r:RelatedToReference (here: ID of the Variable) + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:NoteContent/r:Content + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Type of note information Using a CV "GesisTypeOfNote"  Reference to the variable to which the note refers with ID of the variable  Actual content of the note (here: information about the problem) Reference of the variable (indirectly the archive info) to the data record  Reference of the variable information to a study
4.17.11	Derivation	Derived variable (DDI derived variable / derivation instruction?)	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:BasedOnObject/r:BasedOnRationalDescription/ r:String + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" +	Variable is a derived variable from...  Reference of the variable to the data record

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Allocation of the derivation information to a study
4.17.12	Text	Text	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="Text") + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:Relationship/r:RelatedToReference (here: ID of the Variable) + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:NoteContent/r:Content + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Type of Note Information, use of CVs "GesisTypeOfNote"  Reference to the variable to which the note refers with ID of the variable  Actual content of the note (here: text to the variable) Reference of the variable to the data record  Reference of the variable information to a study
4.17.13	Note	Additional information / remarks	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="Note") + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:Relationship/r:RelatedToReference (Here: ID der Variable) + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/r:Note/r:NoteContent/r:Content + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	Type of note information Using a CV "GesisTypeOfNote"  Reference to the variable to which the note refers with ID of the variable  Actual content of the note (here: note to the variable) Reference of the variable to the data record  Reference of the variable information to a study
4.17.14	Type	Type of the variable	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/l:VariableRole (with @codeListName="GesisVariableType")	Using a CV "GesisVariableType"
4.17.15	Sampling level	Level of sampling	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure (with @codeListName="GesisSamplingLevel")	Using a CV "GesisSamplingLevel"
4.17.16	Is Meso?	Sampling level is Meso	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/dc:TypeOfSamplingProcedure (with @codeListName="GesisSamplingLevel")	Using a CV "GesisSamplingLevel"
4.17.16.1	Definition	Description of sampling level of semi-aggregated data	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:SamplingProcedure/r:Description/r:Content	
4.17.16.2	Variable Description	Description of the variable	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:Description/r:Content + ddi:DDIInstance/g:ResourcePackage/l:LogicalProduct/l:VariableScheme/r:VariableReference/r:TypeOfObject="Variable"	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ct="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/l:LogicalProductReference/r:TypeOfObject="LogicalProduct"	
4.17.17	Measurement	Measure	Container element	
4.17.17.1	Measurement type	Type of the measure	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation (with @classificationLevel)	Attribute
4.17.17.2	Measurement name	Name of the measure	No mapping possible	
4.17.18	Variable Value		Container element	
4.17.18.1	Variable Value Code	Code of variable; Value; Code of variable (SPSS); If variable is of type string, this contains the code	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:Value="1"  ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation/r:CodeListReference/r:TypeOfObject="CodeList"	Code of the variable  Reference of the code to the variable Mandatory element: r:CategoryReference
4.17.18.2	Variable Value Label	Label of code of variable for display; Value label; Label of code of variable for display (SPSS); Label of code of variable for display (SPSS) (English)	ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:CategoryName/r:String + ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/l:CategoryReference/r:TypeOfObject="Category" + ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/l:VariableRepresentation/r:CodeRepresentation/r:CodeListReference/r:TypeOfObject="CodeList"	Name of the variable (label)  Reference of the label to the code Assigning the category label to the variable is done indirectly by referencing the CodeList, which also contains the CategoryReference in addition to the value
4.17.18.3	Missing Information	Missing-Information des Codes.	ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category (with @isMissing="true")	Attribute
4.17.19	Show cards		Container element	
4.17.19.1	FileNameShow-Card	File name of picture of the show card	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid (@xml:lang="de") + /r:Description/r:Content + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid/r:ExternalURLReference	
4.17.19.2	FileNameEn-ShowCard	File name of picture of the English show card	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid (@xml:lang="en") + /r:Description/r:Content + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:ExternalAid/r:ExternalURLReference	
4.17.20	Relation to Category	FK to single category; Reference to topic / construct; mapping the variable to the concept / content	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:ConceptReference/r:TypeOfObject="Concept"	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		"topic" in WZB-DB		
4.17.20.1	Relation-ID	Identifier of Single Relation	ddi:DDIInstance/g:ResourcePackage/l:VariableScheme/l:Variable/r:QuestionReference/r:TypeOfObject="QuestionItem"	
4.17.21	Full Question Text	English full question text	specifically: 1) field superfluous because all the information is present in detail mappings 2) detailed information is not available, therefore the following mapping: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text  with additional specification: ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/r:Description/r:Content="CompleteQuestion"	
4.17.22	Full Question Text (English)	Whole question with answers, interviewer instructions and archive instructions in English.	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text (@xml:lang="en")	
<b>Information on Dataset: Statistical Analysis</b>				
4.17.23	Instruction	Analysis instruction (CBE format) for table/graph; Frequency Distribution according to variable specific needs	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/r:Description/r:Content	Information on the evaluation is not stored in LogicalProduct, but rather is information specific to the study
4.17.24	Table	Content of the Analysis table (CBE format)	<u>Desc:</u> ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableStatistics/pi:SummaryStatistic/pi:Statistic + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableStatistics/pi:SummaryStatistic/pi:TypeOfSummaryStatistic (with @codeListName="CBESummaryStatisticsType") + Mandatory element: r:VariableReference <u>Freq:</u> ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableStatistics/pi:UnfilteredCategoryStatistics/pi:VariableCategory/pi:CategoryValue/r:Value + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableStatistics/pi:UnfilteredCategoryStatistics/pi:VariableCategory/pi:CategoryStatistic/pi:TypeOfCategoryStatistic (with @codeListName="GesisTypeOfCategoryStatistic") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableS	Using a CV "GesisCBESummaryStatisticsType" and "GesisTypeOfCategoryStatistics"

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			tistics/pi:UnfilteredCategoryStatistics/pi:VariableCategory/pi:CategoryStatistic/pi:Statistic Xtab: ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableS tistics/pi:FilteredCategoryStatistics/pi:FilterVariableReference + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableS tistics/pi:FilteredCategoryStatistics/pi:FilterVariableCategory/pi:FilterCategoryValue + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableS tistics/pi:FilteredCategoryStatistics/pi:VariableCategory/pi:CategoryValue/r:Value + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:StatisticalSummary/pi:VariableS tistics/pi:FilteredCategoryStatistics/pi:VariableCategory/pi:CategoryStatistic/pi:Statistic Comp: No mapping possible	
4.17.25	TableLayout	Layout of table(CBE format)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="TableLayout") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:Note/r:Relationship/r:RelatedToR eference/r:TypeOfObject="Variable" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:Note/r:NoteContent/r:Content with HTML= Content + Layout	Using CV „GesisTypeOfNote“  Reference to variable
4.17.26	Graph	Content of the analysis diagram (bitmap)	no mapping possible because binary content	
4.17.27	GraphLayout	Layout of the analysis diagram(CBE format)	no mapping possible	
4.18	Part		Container element	
4.18.1	Part-ID	Identifier of a part of a study	No mapping: because internal element, not necessary	
4.18.2	PartNo	Number of the part	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/c:SubUniverseClass/c:SubUniverseClas sName/r:String	
4.18.3	PartName	Label of the part for display	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/c:SubUniverseClass/r:Label (with @xml:lang="de") + r:Content	
4.18.4	EnPartName	Label of the part for display (English)	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/c:SubUniverseClass/r:Label (with @xml:lang="en") + r:Content	
4.18.5	SelectionCriteria	Filter selection to identify part within study	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/c:SubUniverseClass/r:Description/r:Co ntent (first part followed by =)	
4.18.6	SelectionVariable	Variable to do filter selection	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/c:SubUniverseClass/r:Description/r:Co ntent (second part after =)	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
4.18.7	SeparateAnalysisOnly	True, if part can only be analyzed separately in CBE	ddi:DDIInstance/g:ResourcePackage/c:UniverseScheme/c:Universe/c:SubUniverseClass/r:UserID (with @typeOfUserID="SeparateAnalysisOnly")	Using a CV "GesisTypeOfUserID"
<b>Information on Survey Instrument: General Information</b>				
5	Instrument		Container element	General and content information about the survey instrument is collected as a reusable item under ResourcePackage and referenced under StudyUnit.
5.1	Instrument-ID	ID of Instrument	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:UserID (with @typeOfUserID="InstrumentID") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject="Instrument"	ID of the survey instrument Using an internal list „GesisTypeOfUserID“  Reference to the study
5.2	Association Study	Association of instrument with a study	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject="Instrument"	
<b>Information on Survey Instrument: Content-related Information</b>				
5.6	Instrument Description	Description of the instrument	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:Description/r:Content + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject="Instrument"	Description of the instrument  Reference to the study
5.7	Instrument Name	File name	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/dc:InstrumentName/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject="Instrument"	Name of the survey instrument  Reference to the study
5.8	Instrument Language	Language of the Instrument	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/dc:ControlConstructReference/r:TypeOfObject (with @objectLanguage="de") + ddi:DDIInstance/g:ResourcePackage/dc:DataCollection/dc:QuestionConstructScheme/dc:Sequence/dc:ControlConstructReference/r:TypeOfObject="QuestionConstruct" (for all languages) + ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/r:QuestionReference/r:TypeOfObject="QuestionItem" + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text (with @xml:lang="de" or xml:lang="en")	
5.9	Source	Other instruments on which the	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:BasedOnRationaleDescription	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		instrument in question is based on	/r:String + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject="Instrument"	Reference to the study
5.10	Master questionnaire	The survey instrument (questionnaire) in question is the master questionnaire of the study	ddi:DDIInstance/g:ResourcePackage/dc:InstrumentScheme/dc:Instrument/r:TypeOfInstrument (with @codeListName="GesisTypeOfInstrument"= "MasterquestionnaireYes") + ddi:DDIInstance/g:Group/s:StudyUnit/dc:DataCollection/dc:InstrumentScheme/dc:InstrumentReference/r:TypeOfObject="Instrument"	Using a CV "GesisTypeOfInstrument"
<b>Information on Survey Instrument: Technical Information</b>				
5.11	Software	Software that is needed to use the instrument	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:Methodology/dc:DataCollectionSoftware/r:SoftwareName/r:String	
5.12	File size	Size in Mbyte/Kbyte; Size in bytes	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="FileSize") + ddi:DDIInstance/g:Group/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="Instrument" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"
5.13	File Format	Technical format of the file, e.g. "Adobe PDF"	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="FileFormat") + ddi:DDIInstance/g:Group/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="Instrument" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"
5.14	File Checksum	Value of a check routine for the file to ensure integrity, MD5	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:datafingerprint/pi:DigitalFingerprintValue + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:RecordLayoutReference/r:TypeOfObject (with ID InstrumentScheme to get connection to the survey instrument)	Compulsory: type="data/dataFile"
5.14.1	Checksum Procedure	Procedure used to create the checksum	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:DataFingerprint/pi:AlgorithmSpecification + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:RecordLayoutReference/r:TypeOfObject (with ID InstrumentScheme to refer to the survey instrument)	In order to connect the instrument scheme (in which the survey instrument is included) and the checksum or method, you must use RecordLayoutReference, which is located under PhysicalInstance and has a reference to the InstrumentScheme



Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Questions &amp; Answers: Questions</b>				
6	Questions	Questions of the study	Container element	
6.1	Question-ID	ID of the question	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:UserID (with @typeOfUserID="QuestionID")	
6.2	Reference of the question	Reference of questions on various elements	Container element	
6.2.1	Relation to Survey Instrument	Association of question with an instrument	ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/dc:QuestionReference/r:TypeOfObject="QuestionItem" + ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:Sequence/dc:ControlConstructReference/r:TypeOfObject="QuestionConstruct"	
6.2.2	Relation to Answers	Reference to code list within the question	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/d:CodeDomain/r:CodeListReference/r:TypeOfObject="CodeList" + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:GridDimension/d:CodeDomain/r:CodeListReference/r:TypeOfObject="CodeList"	For individual questions For question groups
6.2.3	Relation to Concepts/Categories	Reference to concept within the question	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:ConceptReference/r:TypeOfObject="Concept" + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:ConceptReference/r:TypeOfObject="Concept"	For individual questions For question groups
6.3	Question Label	Label of question for display	Container element	
6.3.1	Question Title	Label of question for display; Question title	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="title") + /r:String	
6.3.2	Question Number	Question Number	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="questionNumber") + /r:String	
6.4	Specific Question		Container element	
6.4.1	Specific Differentiation	"No specific distinction"; "Standard-specificity"	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="SpecificName") + /r:String  + for any further specification ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:BasedOnObject/r:BasedOnReference/r:TypeOfObject="QuestionItem" (ID of the first)	
6.4.2	Specific Question	specific question	Container element	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
	Text			
6.4.2.1	Type of Specific Question Text	Qualifier of the text type possible types are: Question Number in questionnaire, Pre Question Text, Question Text, Interviewer Instruction, Backward-Filter, Forward-Filter, Post Question Text	<p>QuestionText= see 6.4.2.2                      InterviewerInstruction = see 6.4.2.1.2                      Question Number in questionnaire = see 6.3.2                      Pre Question Text, Post Question Text =                      ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:StatementItem/dc:DisplayText/dc:LiteralText/dc:Text                      Backward-Filter, Forward-Filter are Workarounds:                      ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/r:Description/r:Content</p>	
6.4.2.1.1	Intention of Question	Purpose of the question with regard to the data collected	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionIntent/r:Content	
6.4.2.1.2	Interviewer Instruction	Content 'Inter' in WZB-GLES-DB	ddi:DDIInstance/g:ResourcePackage/dc:InterviewerInstructionScheme/dc:Instruction/dc:InstructionText/dc:LiteralText/dc:Text + ddi:DDIInstance/g:ResourcePackage/dc:ControlConstructScheme/dc:QuestionConstruct/dc:InterviewerInstructionReference/r:TypeOfObject="Instruction"	No reference to StudyUnit since the survey instrument (with QuestionConstruct) already has a reference to the StudyUnit
6.4.2.2	Text of Specific Question Text	Actual question text; Full composed question documentation with codes and categories,	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionText/dc:LiteralText/dc:Text	
6.5	Sub Question		Container element	
6.5.1	Sub Question Title	Label of sub question for display	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName (with @context="title") + /r:String	
6.5.2	Subquestion Number	Sub question number in the questionnaire	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName (with @context="questionNumber") + /r:String	
6.5.3	Specific Sub Question	Special sub question	Container element	
6.5.3.1	Specific Differentiation	"No specific distinction"; "Standard-specificity"	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionGridName (with @context="SpecificName") + /r:String + for any further specification ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/r:BasedOnObject/r:BasedOnReference/r:TypeOfObject="QuestionGrid" (ID of the first grid)	
6.5.3.2	Specific Sub Question Text	Sub question text	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionGrid/dc:QuestionText/dc:LiteralText/dc:Text (with @xml:lang=)	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Questions &amp; Answers: Answers</b>				
6.6	Answers	Answers to questions	Container element	
6.6.1	Single Answer	Answers	Container element	
6.6.1.1	Answer Value Code	Code of question in the questionnaire	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:Value + ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:CategoryName/r:String + ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:CategoryReference/r:TypeOfObject="Category"	Value of the code  Reference to the answer
6.6.1.2	Specific Answer	Answer value according to specific differentiation	Container element	
6.6.1.2.1	Specific Differentiation	"No specific distinction"; "Standard-specificity"	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:CodeListName (with @context="SpecificName") + /r:String  + for any further specification ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:CodeList/r:BasedOnObject /r:BasedOnReference/r:TypeOfObject="QuestionGrid" (ID of the first)	
6.6.1.2.2	Specific Answer Text	Label of code of question for display	ddi:DDIInstance/g:ResourcePackage/l:CategoryScheme/l:Category/l:Label/r:Content	Identifier of the entry
6.6.1.2.3	Code List Label	Name of the codelist	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/r:Label/r:Content	
6.6.2	Answer Value Group	Group for answer values of question, for example, with long professional code lists	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:CodeListName + ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeList/l:Code/r:Value + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:CodeDomain/dc:CodeListReference/r:TypeOfObject="CodeList" (ID of CodeList above)	Mandatory element: r:CategoryReference
6.6.2.1	Answer Value Group Label	Label of group for display	ddi:DDIInstance/g:ResourcePackage/l:CodeListScheme/l:CodeListSchemeName/r:String="Code Lists for Occupation"	
<b>Information on Questions &amp; Answers: Deviation of question wording</b>				
6.7	Specific	Any criteria according to which question text deviations may be documented: e.g. countries, years	Container element	
6.7.1	Specific ID	ID of specification	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="SpecificID") + /r:String +	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:BasedOnObject/r:BasedOnReference/r:TypeOfObject="QuestionItem"	
6.7.2	Specific Label	Short label of specific for display	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="SpecificLabel") + /r:String + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:BasedOnObject/r:BasedOnReference/r:TypeOfObject="QuestionItem"	
6.7.3	Specific Long Label	Long label of specific for display	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="SpecificLongLabel") + /r:String + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:BasedOnObject/r:BasedOnReference/r:TypeOfObject="QuestionItem"	
6.7.4	Default Information	Information whether specific is the common case and not a deviation, e.g. all countries	ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/dc:QuestionItemName (with @context="SpecificDefault") + /r:String + ddi:DDIInstance/g:ResourcePackage/dc:QuestionScheme/dc:QuestionItem/r:BasedOnObject/r:BasedOnReference/r:TypeOfObject="QuestionItem"	
<b>Information on Documents: General Information</b>				
7	Document		Container element	
7.1	Document-ID	ID of document	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID (with @typeOfUserID="DocumentID")	Using a CV „GesisTypeOfUserID"
7.2	Association Study	Association of syntax with a study	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial	Allocation to the study is covered by the fact that OtherMaterial is under StudyUnit
7.3	Information about the file		Container element	
7.3.1	File Type	Type of file	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial (with @codeListName="GesisDBKTypeOfMaterial"="Codebook")	Using a DBK-CV "GesisDBKTypeOfMaterial"
7.3.2	Publication Status	Is the file intended to be published?	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="Gesis-TypeOfNote"="ispublished") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content="yes/no"	Using a CV "GesisTypeOfNote"  With reference to the document  Release: yes/no
7.3.3	Order File	Order of appearance	No mapping: implicitly contained in XML by the order of the elements	
7.3.4	File Link	File Link	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:ExternalURLReference	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Documents: Content-related Information</b>				
7.4	Document Description	Further description of the document; Description of the file content	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Description/r:Content	
7.5	Document Name	filename; File name of the dataset	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Title/r:String	
7.6	Document Language	Language of document	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial (with @xml:lang)	
7.7	Source	Other documents on which the document in question is based on	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc2:source	Dublin-Core-Element
<b>Information on Documents: Technical Information</b>				
7.8	Software	Software that is needed to use the document	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="Software") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"  With reference to the document  Entry of the software name
7.9	File size	Indication in Mbytes/Kbytes; Size in bytes	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="FileSize") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"  With reference to the document  Entry of the file size
7.10	File Format	Technical format of the file, e.g. "Adobe PDF"	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="FileFormat") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"  With reference to the document  Entry of the file format
7.11	File Checksum	Value of a check routine for the file to ensure integrity, MD5	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:datafingerprint/pi:DigitalFingerprintValue + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:RecordLayoutReference/r:TypeOfObject (with ID of OtherMaterial to refer to the document)	Compulsory: type="data/dataFile"

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
7.12	Checksum Procedure	Procedure used to create the checksum	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/pi:DataFingerprint/pi:AlgorithmSpecification + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/pi:PhysicalInstance/r:RecordLayoutReference/r:TypeOfObject (with ID of OtherMaterial to refer to the document)	To establish the connection between OtherMaterial (in which the documents are contained) and the checksum or method, RecordLayoutReference must be used, which is under PhysicalInstance and has a reference to OtherMaterial
<b>Information on Documents: Syntax</b>				
7.13	Syntax-Document		Container element	
7.13.1	Syntax-ID	ID of syntax	No mapping possible	There is no ID, only a URI to the syntax file
7.13.2	Relation to Study	Association of syntax with a study	Done within ddi:DDIInstance/g:Group/s:StudyUnit	Allocation to the study is covered by the fact that OtherMaterial is under StudyUnit
7.14	Syntax Document Description	Further description of the document	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/r:CommandCode/r:Description/r:Content	
7.15	Syntax Document Name	filename; File name of the dataset	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/dc:ExternalInformation/r:Citation/r:Title/r:String	
7.16	Syntax Language	Language of syntax	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/dc:ExternalInformation (with @xml:lang)	
7.17	Syntax Source	Other syntaxes on which the syntax in question is based on	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/dc:ExternalInformation/r:Description/r:Content	
7.18	Syntax Version	Version of the used type of syntax	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/dc:ExternalInformation/r:Citation/dce:hasVersion	Dublin-Core-Element
7.19	Syntax Date of Creation	Date of the day the syntax was created	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/dc:ExternalInformation/r:Citation/dce:created	Dublin-Core-Element
7.20	Syntax Author	Author(s) of Syntax	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/dc:ExternalInformation/r:Citation/r:Creator/r:CreatorName/r:String	
7.21	Software/SyntaxType	Software that is needed to use the survey tool	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/r:CommandCode/r:CommandFile/r:ProgramLanguage (with @codeListName="GesisTypeOfSyntaxType")	Using a CV "GesisTypeOfSyntaxType"
7.22	SyntaxType Other	Type of Syntax (Other)	No mapping possible	
7.23	Link to the Syntax File		ddi:DDIInstance/g:Group/s:StudyUnit/dc:DataCollection/dc:ProcessingInstructionScheme/dc:GenerationInstruction/r:CommandCode/r:CommandFile/r:URI	
<b>Information on Groups of Studies: General Information</b>				
8	Study Group	Group of Studies; Enables to group studies into folders	Container element	
8.1	Study Group-ID	ID of group		Using a CV "GesisTypeOfUserID"

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ddi:DDIInstance/g:Group/r:UserID (with typeOfUserID="GroupID")	
8.2	Study Group Number	Number of group	ddi:DDIInstance/g:Group/r:UserID (with typeOfUserID="GroupNumber")	Using a CV "GesisTypeOfUserID"
8.3	Study Group Name	Name of group; Title of the data for display; Title of the data for display (English)	ddi:DDIInstance/g:Group/r:Citation/r:Title/r:String	
8.4	Description	Description of group; Description of the database; Description of the database (English)	ddi:DDIInstance/g:Group/r:Abstract/r:Content	
8.5	Version	Version number of the database	ddi:DDIInstance/g:Group/r:Citation/dce:hasVersion	
8.6	Link	Links to content description of group on the web	ddi:DDIInstance/g:Group (with @externalReferenceDefaultURI=URI of Logo)	
8.7	Logo	Filename of logo	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="GroupLogoName") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  content
8.8	Publication Status	Is the group intended to be published?	ddi:DDIInstance/g:Group (with @ispublished="false")	
8.9	Shop	Group order as a whole over cart	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="GroupShop") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  content
<b>Information on Groups of Studies: Relation Group-Study</b>				
8.11	Relation to Study	Reference of the study to a study group (of related studies); FK to identifier of study group	ddi:DDIInstance/g:Group/r:StudyUnitReference/r:TypeOfObject="StudyUnit"	
8.12	Order of Relation	Order of group References; Sequence of the study for sorting	No mapping: implicitly contained in XML by the order of the elements	
<b>Information on Products: General Information</b>				
9	Product	Salable products	Container element	
9.1	Product-ID	ID of product	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ProductID") +	Using a CV "GesisTypeOfNote"

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content ddi:DDIInstance/g:Group/a:Archive/a:ArchiveSpecific/a:Collection/a:Item/r:Citation/r:InternationalIdentifier	Reference to StudyUnit  Content
9.2	Product Number	Number of product	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ProductNumber") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content ddi:DDIInstance/g:Group/a:Archive/a:ArchiveSpecific/a:Collection/a:CallNumber	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  content
9.3	Product Name	Name of product; Title of the database for display; Title of the database for display (English)	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ProductName") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content ddi:DDIInstance/g:Group/a:Archive/a:ArchiveSpecific/a:Collection/r:Citation/r:Title/r:String	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  Content
9.4	Description	Description of product	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ProductDescription") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content ddi:DDIInstance/g:Group/a:Archive/a:ArchiveSpecific/a:Collection/r:Citation/dc:description	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  Content
9.5	Link	Link to content description of product on the web	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ProductDescriptionLink") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content ddi:DDIInstance/g:Group/a:Archive/a:ArchiveSpecific/a:Collection/r:URI	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  Content
9.6	Published	Is the group intended to be published?	ddi:DDIInstance/g:Group/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="ispublished") + ddi:DDIInstance/g:Group/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="StudyUnit" + ddi:DDIInstance/g:Group/r:Note/r:NoteContent/r:Content=yes/no ddi:DDIInstance/g:Group/a:Archive/a:ArchiveSpecific/a:Collection/a:AvailabilityStatus/r:Content	Using a CV "GesisTypeOfNote"  Reference to StudyUnit  Content



Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
<b>Information on Products: Relation Product-Study</b>				
9.7	Relation to Study	Reference of the study to a product (can be ordered, for example, CD-Rom)	ddi:DDIInstance/g:Group/r:StudyUnitReference/r:TypeOfObject="StudyUnit"	
9.8	Order of relation	Order the product Reference	No mapping: implicitly contained in XML by the order of the elements	
<b>Information about concepts: General Information</b>				
10	Concept	Information on categories	Container element	
10.1	Category/Concept -ID	Identifier of single category	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:UserID (with @typeOfUser="ConceptID")	Using a CV „GesisTypeOfUserID“
10.2	Parent-ID	Foreign Key to category ID which is parent	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:UserID (with @typeOfUser="ParentID") + ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/c:SubclassOfReference/r:TypeOfObject	Using a CV „GesisTypeOfUserID“ SubclassOfReference to the DDI-ID of the ParentConcepts with fid
10.3	Order categories	Sequence of category within children of same parent	No mapping: implicitly contained in XML by the order of the elements	
10.4	Category/Concept Name	Label of the category for display; Content 'Konstrukt' in WZB-GLES-DB; Name concept	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:ConceptName/r:String (with @xml:lang="de")	
10.5	Category/Concept Name English	Label of the category for display (English)	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:ConceptName/r:String (with @xml:lang="en")	
10.6	Category/Concept description	Description of the category	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Description/r:Content (with @xml:lang="de")	
10.7	Category/Concept description (English)	Description of the category (English)	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:Concept/r:Description/r:Content (with @xml:lang="en")	
10.8	Concept Group	Content 'Topic' in WZB-GLES-DB	ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:ConceptGroup/r:Label/r:Content + ddi:DDIInstance/g:ResourcePackage/c:ConceptScheme/c:ConceptGroup/r:ConceptReference/r:TypeOfObject="Concept"	Reference of the concept group to a concept
<b>Information on Literature: General Information</b>				
11	Literature	Publications that are related to the resource if not entered at Related	Container element	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		ID; Publications that are related to the resource if not entered at Related ID		
11.1	Literature-ID	ID of publication, if available (e.g. DOI, Handle, URN, etc.)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID (with @typeOfUserID="LiteratureID")	Using a CV „GesisTypeOfUserID"
11.2	Author	Name of Author(s): Last Name, First Name (either 32.1.1 or 32.1.2); Name Author	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Creator/r:CreatorName/r:String	
11.2.1	Author et al	4+ Authors	No mapping: not available to map	
11.3	Editor	Name of the publisher	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Contributor/r:ContributorName/r:String	
11.3.1	Editor et al	3+ Publishers	No mapping: not available to map	
11.4	Publication Title	Publication Title	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Title/r:String	
11.5	Year	Year of Publication	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:PublicationDate/r:SimpleDate	
11.6	Publisher	Name of publishing house	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:Publisher/r:PublisherName/r:String	
11.7	Publication Location	Registered office location of publishing institution; Location publishing house	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/TypeOfNote (with @codeListName="GesisTypeOfNote"="PublicationPlace") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc:spatial	Using a CV "GesisTypeOfNote"  Reference to the publication material  Name of the publication location
11.8	Journal/Serial		Container element	
11.8.1	Journal/Serial	Name of journal/serial; Issue	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/TypeOfNote (with @codeListName="GesisTypeOfNote"="NameOfJournal") + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc:source	Using a CV "GesisTypeOfNote"  Reference to the publication material  Name of the journal

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
11.8.2	Collective Title	Title of the series	<p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="CollectiveTitle")</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial"</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content</p> <p><a href="#">ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Citation/dc:title</a></p>	<p>Using a CV "GesisTypeOfNote"</p> <p>Reference to the publication material</p> <p>Name of the title</p>
11.9	Volume	Number of Volume; Issue	<p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/TypeOfNote (with @codeListName="GesisTypeOfNote"="VolumeNumber")</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial"</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content</p> <p><a href="#">ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc: dc:bibliographicCitation</a></p>	<p>Using a CV "GesisTypeOfNote"</p> <p>Reference to the publication material</p> <p>Entry of the volume number</p>
11.10	Issue	Number of magazine; Source, if publication was derived	<p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/TypeOfNote (with @codeListName="GesisTypeOfNote"="NumberOfIssue")</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial"</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content</p> <p><a href="#">ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc:issued</a></p>	<p>Using a CV "GesisTypeOfNote"</p> <p>Reference to the publication material</p> <p>Entry of the issue number</p>
11.11	Compilation	Name of Compilation	<p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/TypeOfNote (with @codeListName="GesisTypeOfNote"="NameOfCompilation")</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject="OtherMaterial"</p> <p>+</p> <p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content</p> <p><a href="#">ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc:subject</a></p>	<p>Using a CV "GesisTypeOfNote"</p> <p>Reference to the publication material</p> <p>Name of the group</p>
11.12	Pages	Number of Pages	<p>ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:TypeOfNote (with @codeListName="GesisTypeOfNote"="PageNumber")</p> <p>+</p>	<p>Using a CV "GesisTypeOfNote"</p>

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
			ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Relationship/r:RelatedToReference/r:TypeOfObject= "OtherMaterial" + ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content  ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/dc:extent	Reference to the publication material  Entry of page number
11.13	ISBN	International Standard Book Number	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:InternationalIdentifier/r:IdentifierContent	Mandatory element: ManagingAgency
11.14	ISSN	International Standard Serial Number	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:Citation/r:InternationalIdentifier/r:IdentifierContent	Mandatory element: ManagingAgency
11.15	Document Type	Type of the publication	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:TypeOfMaterial (with @codeListName="Gesisda raTypeOfMaterial" ="Article")	Using a CV "Gesisda raTypeOfMaterial"
11.16	Sowiport ID	Sowiport ID to primary literature on the origin of the data set; Internal ID of Sowiport to load literature meta data from SOLIS, SSOAR and others	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID (with @typeOfUserID="SowiportID")	Using a CV „GesisTypeOfUserID"
11.17	PID	Other PID to primary literature on the origin of the data set; Additional persistent identifier of publication; ID of the publication, if existing (e.g. DOI, Handle, URN, etc.)	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID	
11.17.1	Type PID	Type of other persistent identifier of publication / publication	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:UserID (with @typeOfUserID="PID")	Using a CV „GesisTypeOfUserID"
11.18	Web address	Internet address	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:OtherMaterial/r:ExternalURNReference	
<b>Information on Notes: General Information</b>				
12	Notes		Container element	
12.1	Note-ID	ID of the Note	No Mapping: not available to map	
12.2	Type of note	Type of the additional information; topic	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:TypeOfNote (with @codeListName="GesisTypeOfNote" ="FurtherRemarks")	Mandatory element: r:Relationship Using a CV "GesisTypeOfNote"
12.3	Description	general further information on study; References to additional, relevant information regarding the registered resource; Additional	ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:NoteContent/r:Content	

Element No. of the metadata schema	Element	Definition and remarks	DDI 3.2 Mapping recommendation	Further Information (mandatory elements, alternatives, etc.)
		information that is not covered elsewhere; comment		
12.4	Name of note		ddi:DDIInstance/g:Group/g:Subgroup/s:StudyUnit/r:Note/r:Header/r:String	
12.5	Relation to Study	Reference of the study on a note	Reference is made by placing the note under StudyUnit	Mandatory element: r:Relationship/r:RelatedToReference
13.1	Instance-Producer	Name of Instance Producer	ddi:DDIInstance/r:Citation/r:Creator/r:CreatorName/r:String	
13.2	Title	Title of Instance	ddi:DDIInstance/r:Citation/r>Title/r:String	
13.3	Date of Publication	Date of the Publication	ddi:DDIInstance/r:Citation/r:PublicationDate/r:SimpleDate	
13.4	Version	Number of the version	ddi:DDIInstance/r:Citation/dce:hasVersion	
13.5	Publisher	Publisher of the Instance	ddi:DDIInstance/r:Citation/r:Publisher/r:PublisherName/r:String	
13.6	Copyright	Copyright	ddi:DDIInstance/r:Citation/r:Copyright/r:String	
13.7	Language	Language of the Instance	ddi:DDIInstance (with @xml:lang)	
13.8	Software	Name of the Software	ddi:DDIInstance/r:Software	
13.9	Quality of the metadata	Quality of the metadata	ddi:DDIInstance/r:MetadataQuality/r:Description/r:Content	Mandatory element: TypeOfMetadataQuality

## 2.4 Usage of controlled vocabularies in DDILimDAS

For standardized text fields in DDILimDAS, controlled vocabularies were used. Some of the CVs were taken from DataCite, da|ra, DDI or CBE. New CVs that were created for the DDILimDAS project are marked with the name Gesis (e.g. GesisTypeOfUserID).

### 2.4.1 Controlled Vocabulary „GesisTypeOfUserID“

Element-No. of the metadata schema	identifier and term
1.1	1 InternalStudyID
1.3	2 StudyNumber
1.12.1	3 VersionNumber
1.13.2	4 AlternateID
1.13.3	5 isMainID
11.1	6 LiteratureID
11.16	7 SowiportID
11.17.1	8 PID
7.1	9 DocumentID
10.1	10 ConceptID
4.17.5.1	11 VariablegroupID
4.1	12 DatasetID
5.1	13 InstrumentID
6.1	14 QuestionID
10.2	15 ParentID
2.1.5	16 DateOfBirth
2.1.6	17 PlaceOfBirth
8.1	18 GroupID
8.2	19 GroupNumber

### 2.4.2 Controlled Vocabulary „GesisTypeOfNote“

Element-No. of the metadata schema	identifier and term
1.34	1 CollectiveTitle
12.2	2 FurtherRemarks
4.13/7.10	3 Software
4.14/5.12/7.11	4 FileSize
4.15/5.13/7.12	5 FileFormat
4.11	6 VariableQuantity
4.17.9	7 ArchiveNote
4.17.10	8 Problem
4.17.12	9 Text
4.17.13	10 Note
4.17.25	11 TableLayout
4.18.7	12 SeparateAnalysisOnly

7.4	13 ispublished
8.7	14 GroupLogoName
8.9	15 GroupShop
9.1	16 ProductID
9.2	17 ProductNumber
9.3	18 ProductName
9.4	19 ProductDescription
9.5	20 ProductDescriptionLink
11.7	21 PublicationPlace
11.8	22 NameOfJournal
11.9	23 VolumeNumber
11.10	24 NumberOfIssue
11.11	25 NameOfCompilation
11.12	26 PageNumber

#### 2.4.3 Controlled Vocabulary „GesisVariableFormat“

Element-No. of the metadata schema	identifier and term
4.17.7	1 A
4.17.7	2 F
4.17.7	3 DATE
4.17.7	4 TIME
4.17.7	5 DATETIME
4.17.7	6 PCT
4.17.7	7 DOLLAR

#### 2.4.4 Controlled Vocabulary „GesisVariableType“

Element-No. of the metadata schema	identifier and term
4.17.14	1 None
4.17.14	2 Original
4.17.14	3 Harmonized
4.17.14	4 Technical
4.17.14	5 Weight
4.17.14	6 Filter

#### 2.4.5 Controlled Vocabulary „GesisTypeOfInstrument“

Element-No. of the metadata schema	identifier and term
5.10	1 MasterquestionnaireYes
5.10	2 MasterquestionnaireNo

#### 2.4.6 Controlled Vocabulary „GesisTypeOfLabel“

Element-No. of the metadata schema	identifier and term
4.17.4	1 ispreferred
4.17.4	2 isnotpreferred

#### 2.4.7 Controlled Vocabulary „GesisProcessingStatus“

Element-No. of the metadata schema	identifier and term
1.2	1 standard-processing
1.2	2 simply punched and verified
1.2	3 multiple punched verified data
1.2	4 no processing

#### 2.4.8 Controlled Vocabulary „GesisLifecycleEventType“

Element-No. of the metadata schema	identifier and term
1.14	1 acquiredby
1.14	2 protocol
1.14	3 archivingdate
1.14	4 dataprovider
1.14	5 contractdate
1.14	6 projectnumberofdataprovider
1.14	7 accessresponsibility
1.14.1.1	8 unavailabilityremarks
1.14.1.3	9 dataqualityremarks
1.14.1.4	10 datadescriptionremarks
1.14.2.1	11 Referencedate
1.14.2.2	12 accessclassdate
1.14.2.3	13 statusclassdate

#### 2.4.9 Controlled Vocabulary „GesisKindOfData“

Element-No. of the metadata schema	identifier and term
4.6	1 SurveyData
4.6	2 MicroData
4.6	3 AggregateData
4.6	4 OfficialStatistics
4.6	5 ClinicalData



#### 2.4.10 Controlled Vocabulary „GesisTypeOfSyntaxType“

Element-No. of the metadata schema	identifier and term
7.22	1 M+
7.22	2 R
7.22	3 SAS
7.22	4 SPSS
7.22	5 STATA
7.22	6 Other

#### 2.4.11 Controlled Vocabulary „GesisTypeOfResearcherID“

Element-No. of the metadata schema	identifier and term
2.1.1/2.5.1.1/2.5.1.2/2.5.4.1.1	1 Orchid
2.1.1/2.5.1.1/2.5.1.2/2.5.4.1.1	2 GND
2.1.1/2.5.1.1/2.5.1.2/2.5.4.1.1	3 LCCN
2.1.1/2.5.1.1/2.5.1.2/2.5.4.1.1	4 NDL
2.1.1/2.5.1.1/2.5.1.2/2.5.4.1.1	5 VIAF

#### 2.4.12 Controlled Vocabulary „GesisTypeOfMaterial“

Element-No. of the metadata schema	identifier and term
1.32.2.1	1 PrimaryLiterature
1.32.2.2	2 SecondaryLiterature
1.32.2.3	3 OriginalLiterature
1.33.1	4 Link

#### 2.4.13 Controlled Vocabulary „GesisDBKTypeOfMaterial“

Element-No. of the metadata schema	identifier and term
4.3/ 7.3	1 Questionnaire
4.3/ 7.3	2 MethodReport
4.3/ 7.3	3 Codebook
4.3/ 7.3	4 Other
4.3/ 7.3	5 Dataset
4.3/ 7.3	6 ReportOfDataProvider
4.3/ 7.3	7 Codeplan
4.3/ 7.3	8 Remarks
4.3/ 7.3	9 Studydescription
4.3/ 7.3	10 Table
4.3/ 7.3	11 Methodsquestionnaire
4.3/ 7.3	12 Report
4.3/ 7.3	13 Listbooklet

4.3/ 7.3	14 Variableresport
4.3/ 7.3	15 Guide

#### 2.4.14 Controlled Vocabulary „Gesisda|raTypeOfMaterial“

Element-No. of the metadata schema	identifier and term
11.15	1 WorkingPaper
11.15	2 Article
11.15	3 Report
11.15	4 Book/Monograph
11.15	5 Manuscript
11.15	6 ReferenceBook
11.15	7 Review
11.15	8 Series
11.15	9 Journal
11.15	10 Newspaper

#### 2.4.15 Controlled Vocabulary „Gesisda|raTypeOfDescription“

Element-No. of the metadata schema	identifier and term
1.15.1	1 Abstract
1.15.1	2 Series Information
1.15.1	3 Table of Contents
1.15.1	4 Methods
1.15.1	5 Other

#### 2.4.16 Controlled Vocabulary „GesisSamplingLevel“

Element-No. of the metadata schema	identifier and term
4.17.15	1 None
4.17.15	2 Individuell
4.17.15	3 Aggregate
4.17.16	4 isMeso
4.17.15	5 isNotMeso

#### 2.4.17 Controlled Vocabulary „GesisTypeOfCategoryStatistics“

Element-No. of the metadata schema	identifier and term
4.17.24	1 absolute
4.17.24	2 rowpercentage
4.17.24	3 columnpercentage
4.17.24	4 totalpercentage

#### 2.4.18 Controlled Vocabulary „GesisCBESummaryStatisticsType“

Element-No. of the metadata schema	identifier and term
4.17.24	1 Count
4.17.24	2 Minimum
4.17.24	3 Maximum
4.17.24	4 ArithmeticMean
4.17.24	5 StandardDeviation
4.17.24	6 ValidN
4.17.24	7 Range
4.17.24	8 Sum
4.17.24	9 Variance
4.17.24	10 Skewness
4.17.24	11 Kurtosis
4.17.24	12 Mode
4.17.24	13 Median
4.17.24	14 Quartiles

#### 2.4.19 Controlled Vocabulary „AnalysisUnit“

The source of the controlled vocabulary is the element AnalysisUnit in DDI: [http://www.ddialliance.org/Specification/DDI-CV/AnalysisUnit\\_1.0.html](http://www.ddialliance.org/Specification/DDI-CV/AnalysisUnit_1.0.html)

Element-No. of the metadata schema	identifier and term
1.25.1	1 Individual
1.25.1	2 Organization
1.25.1	3 Family
1.25.1	4 Family.HouseholdFamily
1.25.1	5 Household
1.25.1	6 HousingUnit
1.25.1	7 EventOrProcess
1.25.1	8 GeographicUnit
1.25.1	9 TimeUnit
1.25.1	10 TextUnit
1.25.1	11 Group
1.25.1	12 Object
1.25.1	13 Other

### 2.4.20 Controlled Vocabulary „ResponseUnit“

The source of the controlled vocabulary is the element ResponseUnit in DDI: [http://www.ddialliance.org/Specification/DDI-CV/ResponseUnit\\_1.0.html](http://www.ddialliance.org/Specification/DDI-CV/ResponseUnit_1.0.html)

Element-No. of the metadata schema	identifier and term
1.25.2	1 Self
1.25.2	2 Informant
1.25.2	3 Proxy
1.25.2	4 Interviewer
1.25.2	5 Other

### 2.4.21 Controlled Vocabulary „TimeMethod“

The source of the controlled vocabulary is the element TimeMethod in DDI: [http://www.ddialliance.org/Specification/DDI-CV/TimeMethod\\_1.2.html](http://www.ddialliance.org/Specification/DDI-CV/TimeMethod_1.2.html)

Element-No. of the metadata schema	identifier and term
1.18	1 Longitudinal
1.18	2 Longitudinal.CohortEventBased
1.18	3 Longitudinal.TrendRepeatedCrossSection
1.18	4 Longitudinal.Panel
1.18	5 Longitudinal.Panel.Continuous
1.18	6 Longitudinal.Panel.Interval
1.18	7 TimeSeries
1.18	8 TimeSeries.Continuous
1.18	9 TimeSeries.Discrete
1.18	10 CrossSection
1.18	11 CrossSectionAdHocFollowUp
1.18	12 Other

### 2.4.22 Controlled Vocabulary „SamplingProcedure“

The source of the controlled vocabulary is the element SamplingProcedure in DDI: [http://www.ddialliance.org/Specification/DDI-CV/SamplingProcedure\\_1.1.html](http://www.ddialliance.org/Specification/DDI-CV/SamplingProcedure_1.1.html)

Element-No. of the metadata schema	identifier and term
1.21	1 TotalUniverseCompleteEnumeration
1.21	2 Probability
1.21	3 Probability.SimpleRandom
1.21	4 Probability.SystematicRandom
1.21	5 Probability.Stratified
1.21	6 Probability.Stratified.Proportional
1.21	7 Probability.Stratified.Disproportional
1.21	8 Probability.Cluster
1.21	9 Probability.Cluster.SimpleRandom
1.21	10 Probability.Cluster.StratifiedRandom

1.21	11 Probability.Multistage
1.21	12 Nonprobability
1.21	13 Nonprobability.Availability
1.21	14 Nonprobability.Purposive
1.21	15 Nonprobability.Quota
1.21	16 Nonprobability.RespondentAssisted
1.21	17 MixedProbabilityNonprobability
1.21	18 Other

### 2.4.23 Controlled Vocabulary „ModeOfCollection“

The source of the controlled vocabulary is the element ModeOfCollection in DDI:  
[http://www.ddialliance.org/Specification/DDI-CV/ModeOfCollection\\_2.1.html](http://www.ddialliance.org/Specification/DDI-CV/ModeOfCollection_2.1.html)

Element-No. of the metadata schema	identifier and term
1.22.1	1 Interview
1.22.1	2 Interview.FaceToFace
1.22.1	3 Interview.FaceToFace.CAPICAMI
1.22.1	4 Interview.FaceToFace.PAPI
1.22.1	5 Interview.Telephone
1.22.1	6 Interview.Telephone.CATI
1.22.1	7 Interview.Email
1.22.1	8 Interview.WebBased
1.22.1	9 SelfAdministeredQuestionnaire
1.22.1	10 SelfAdministeredQuestionnaire.Email
1.22.1	11 SelfAdministeredQuestionnaire.Paper
1.22.1	12 SelfAdministeredQuestionnaire.SMSorMMS
1.22.1	13 SelfAdministeredQuestionnaire.WebBased
1.22.1	14 SelfAdministeredQuestionnaire.ComputerAssisted
1.22.1	15 FocusGroup
1.22.1	16 FocusGroup.FaceToFace
1.22.1	17 FocusGroup.Telephone
1.22.1	18 FocusGroup.Online
1.22.1	19 SelfAdministeredWritingsAndDiaries
1.22.1	20 SelfAdministeredWritingsAndDiaries.Email
1.22.1	21 SelfAdministeredWritingsAndDiaries.Paper
1.22.1	22 SelfAdministeredWritingsAndDiaries.WebBased
1.22.1	23 Observation
1.22.1	24 Observation.Field
1.22.1	25 Observation.Field.Participant
1.22.1	26 Observation.Field.Nonparticipant
1.22.1	27 Observation.Laboratory
1.22.1	28 Observation.Laboratory.Participant
1.22.1	29 Observation.Laboratory.Nonparticipant
1.22.1	30 Observation.ComputerBased

1.22.1	31 Experiment
1.22.1	32 Experiment.Laboratory
1.22.1	33 Experiment.FieldIntervention
1.22.1	34 Experiment.WebBased
1.22.1	35 Recording
1.22.1	36 ContentCoding
1.22.1	37 Transcription
1.22.1	38 CompilationSynthesis
1.22.1	39 Summary
1.22.1	40 Aggregation
1.22.1	41 Simulation
1.22.1	42 MeasurementsAndTests
1.22.1	43 MeasurementsAndTests.Educational
1.22.1	44 MeasurementsAndTests.Physical
1.22.1	45 MeasurementsAndTests.Psychological
1.22.1	46 Other

#### 2.4.24 Controlled Vocabulary „DataCiteContributorType“

The source of the controlled vocabulary is the element ContributorType in DataCite Metadata schema:

[http://schema.datacite.org/meta/kernel-3/doc/DataCite-MetadataKernel\\_v3.1.pdf](http://schema.datacite.org/meta/kernel-3/doc/DataCite-MetadataKernel_v3.1.pdf)

Element-No. of the metadata schema	identifier and term
1.7.1/ 1.10.1/ 2.5.3	1 ContactPerson
1.7.1/ 1.10.1/ 2.5.3	2 DataCollector
1.7.1/ 1.10.1/ 2.5.3	3 DataCurator
1.7.1/ 1.10.1/ 2.5.3	4 DataManager
1.7.1/ 1.10.1/ 2.5.3	5 Distributor
1.7.1/ 1.10.1/ 2.5.3	6 Editor
1.7.1/ 1.10.1/ 2.5.3	7 Funder
1.7.1/ 1.10.1/ 2.5.3	8 HostingInstitution
1.7.1/ 1.10.1/ 2.5.3	9 Producer
1.7.1/ 1.10.1/ 2.5.3	10 ProjectLeader
1.7.1/ 1.10.1/ 2.5.3	11 ProjectManager
1.7.1/ 1.10.1/ 2.5.3	12 ProjectMember
1.7.1/ 1.10.1/ 2.5.3	13 RegistrationAgency
1.7.1/ 1.10.1/ 2.5.3	14 RegistrationAuthority
1.7.1/ 1.10.1/ 2.5.3	15 RelatedPerson
1.7.1/ 1.10.1/ 2.5.3	16 Researcher
1.7.1/ 1.10.1/ 2.5.3	17 ResearchGroup
1.7.1/ 1.10.1/ 2.5.3	18 RightsHolder
1.7.1/ 1.10.1/ 2.5.3	19 Sponsor
1.7.1/ 1.10.1/ 2.5.3	20 Supervisor
1.7.1/ 1.10.1/ 2.5.3	21 WorkPackageLeader
1.7.1/ 1.10.1/ 2.5.3	22 Other

### 2.4.25 Controlled Vocabulary „DataCiteResourceTypeGeneral“

The source of the controlled vocabulary is the element ResourceGeneral in the DataCite Metadata schema:  
[http://schema.datacite.org/meta/kernel-3/doc/DataCite-MetadataKernel\\_v3.1.pdf](http://schema.datacite.org/meta/kernel-3/doc/DataCite-MetadataKernel_v3.1.pdf)

Element-No. of the metadata schema	identifier and term
1.11.1	1 Audiovisual
1.11.1	2 Collection
1.11.1	3 Dataset
1.11.1	4 Event
1.11.1	5 Image
1.11.1	6 InteractiveResource
1.11.1	7 Model
1.11.1	8 PhysicalObject
1.11.1	9 Service
1.11.1	10 Software
1.11.1	11 Sound
1.11.1	12 Text
1.11.1	13 Workflow
1.11.1	14 Other

## 3 Appendix

### 3.1.1 Mapping of metadata elements with DAS-Tools

The table below shows all metadata elements of the data archive tools (DBK, DSDM, CBE, Charm-Stats, datorium, da|ra, Missy and Stardat) including Tool-Name, Tool-Number and the mapping to the DDILimDAS metadata schema. Some of the listed metadata elements are not used in any tool yet, but are recommended to use.

Table 3: Details of DDILimDAS metadata elements

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
<b>Information on Project: General Information</b>				
0	Project Name	CharmStats	1.1	Name
0.1	Project Summary	CharmStats	1.2	Summary
0.2	Studies with multiple countries	Missy		Studies with multiple countries
<b>Information on Project: Country-Specific</b>				
0.3	Studies with multiple countries	Container element		
0.3.1	Studies with multiple countries with information of all countries	Missy		Study with multiple countries with information for all countries
0.3.2	Studies with multiple countries with information for specific countries	Missy		Study with multiple countries with information for specific countries
0.4	Studies with One Country	Missy		Studies with One Country
<b>Information on Study: General Information</b>				
1	Study	Container element		
1.1	Study-ID	Recommended		
1.2	Access Class	DBK	52	Access class
<b>Information on Study: Bibliographic Information</b>				
1.3	Study Number	DBK	1	Study Number
		DSDM	1.1	Study number
		CBE	1.1	id_StudyNo
		Stardat	1.1	Study number
		da ra	10.1	Internal Resource Identifier
		Stardat	1.1	Study number
1.4	Title	DBK	2	Title
		da ra	1	Title
		datorium	1	Title
		Stardat	1.2	Title
		CBE	1.2	dt_StudyTitle
		CBE	1.3	dt_EnStudyTitle
		CharmStats	9.2/ 20.1	Study title
1.5	Other Title	DBK	4	Further Title
		da ra	2	Other Titles
		datorium	6	Other Title
1.5.1	Type of Other Title	DBK	4.1	Type of Further Title



Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
		da ra	2.1	Title Type
		datorium	6.1	Other Title Type
1.6	Year	CBE	1.6	dt_Year
1.7	Principle Investigator	DBK	7	Principle Investigator
		datorium	2	Principle Investigator & Institution
1.7.1	Person Name	DBK	7.1	Principal Investigator-Name
		da ra	4.1	Person (Name of the Creator)
		Stardat	1.3	Primary Researcher
		datorium	2.1	Principle Investigator
1.7.1.1	Associated Institution	DBK	7.2	Principal Investigator-Institution
		datorium	2.2	Institution
1.7.2	Institution Name	DBK	7.2	Principal Investigator-Institution
		datorium	2.2	Institution
1.7.2	Order Primary Investigator	DBK	7.3	Principal Investigator-Order
1.7.3	Deviating Primary Investigator Citation	DBK	41	Deviating Primary Investigator Citation
1.8	Publisher	datorium	3	Publisher
1.9	Year of Publication	DBK	2.3	Year of Publication
		da ra	12	Publication Date
		datorium	4	Publication Year
1.10	Data Collector	DBK	14	Data Collection
		CharmStats	9.9/ 20.8	Collectors
		Stardat	1.7	Data Collection Institute
1.10.1	Deviating Data Collectors Citation	DBK	42	Deviating Data Collectors Citation
<b>Information on Study: PIDs und Versioning</b>				
1.11	Research Data Type	Container element		
1.11.1	General Resource Type	datorium	20.3.2	Resource Type General
		da ra	0	General Resource Type
1.11.1.1	Resource Type	datorium	20.3.1	Resource Type
		da ra	0.1	Resource Type
1.12	Version	Container element		
1.12.1	Version Number	DBK	5	Version
		datorium	20.2.1	Version Number
		da ra	10	Version
		Stardat		Current version
1.12.2	Version Date	DBK	5.1	Date of version
		datorium	20.2.2	Version date
1.12.3	DOI	DBK	5.2	DOI
		da ra	9	DOI proposal
		datorium	21	DOI
		CharmStats	9.3/ 20.2	DOI
		Stardat	1.5	DOI

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
1.12.4	URL	DBK	5.3	URL
		da ra	8	URL
		datorium	22	URL
1.12.5	Reason Version	DBK	5.4	Cause of version
1.12.6	Internal	DBK	5.5	Internal
1.12.7	Username	DBK	5.6	Username
1.12.8	Details/Errata	DBK	5.7	Details/Errata
1.12.8.1	Detail Date	DBK	5.7.1	Date of detail
1.12.8.2	Detail Title	DBK	5.7.2	Title of detail
1.12.8.3	Detail Description	DBK	5.7.3	Description of detail
1.12.8.4	Detail Date Correction	DBK	5.7.4	Correction date of detail
1.12.8.5	Detail Corrected	DBK	5.7.5	Detail corrected
1.12.8.6	Detail Correction Description	DBK	5.7.6	Correction description of detail
1.12.8.7	Detail Username	DBK	5.7.7	Detail username
1.12.8.8	Detail Type	DBK	5.7.8	Type of detail
1.12.8.9	Order Details	DBK	5.7.9	Detail Order
1.13	AlternatelDs	DBK	37	AlternatelDs
		da ra	13	Alternative Identifier
1.13.1	Alternative ID Version	DBK	37.1	Version (optional)
1.13.2	Alternative ID-Type	DBK	37.2	AlternatelD-Type (mandatory)
		da ra	13.1	Alternate Identifier Type
		datorium	20.8	Alternative ID
1.13.3	Is Main-ID	DBK	37.3	isMainID
<b>Information on Study: Lifecycle-Information</b>				
1.14	Lifecycle Event	DBK	49	Acquisition: acquired of: - Report: - archived on: - Data contributor:- Contract of the : - Data contributor project number: - Access responsibility: -
1.14.1	Remarks	Container element		
1.14.1.1	Unavailability remarks	DBK	36	Unavailability remarks
1.14.1.2	Remarks on the origin of data	DBK	46	Remarks on the origin of data
1.14.1.3	Remarks on data state	DBK	47	Remarks on data state
1.14.1.4	Remarks on data description	DBK	48	Remarks on data description
1.14.2	Date	Container element		
1.14.2.1	Creation-Date	DBK	50	Creation-Date
1.14.2.2	Access class-Date	DBK	51	Access class-Date
1.14.2.3	Status class-Date	DBK	53	Status class-Date
<b>Information on Study: Content-related Information</b>				
1.15	Content/ Abstract	DBK	9	Abstract
		da ra	17	Description

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
		datorium	10	Abstract
		CBE	1.4	dt_StudyDescription
		CBE	1.5	dt_ENStudyDescription
		CharmStats	9.12/20.11	Definition
1.15.1	Type of description	da ra	17.1	Description Type
1.16	Classification	da ra	14	Classification internal
1.16.1	Class Identifier	da ra	14.1	Class ID
1.16.2	Classification Name	da ra	14.2	Vocabulary
		DBK	8	Categories
		datorium	9	Topic Classification
		DBK	35	Topic Classification
		datorium	8	Subject Area
1.16.3	ClassificationURI	da ra	14.3	URI Classification Authority Record
1.16A	External Classification	da ra	14A	Classification External
1.16A.1	Classification Name	da ra	14A.1	Vocabulary
1.16.4	Order of Classification	DBK	8.1	Order of category
		DBK	35.1	Order of Classification
1.17	Keywords	da ra	15	Keywords (controlled)
1.17.1	Keywords ID	da ra	15.1	Keyword ID
1.17.2	Keyword Name	da ra	15.2	Vocabulary of Keyword ID
1.17.3	Keyword URI	da ra	15.3	URI Keyword Authority Record
1.17.4	Order Keywords	Recom- mended		
17.5	Keyword (free)	da ra	16	Keywords (free)
<b>Information on Study: Methodological Information</b>				
1.18	Study Time Dimension	da ra	22.1	Study Time Dimension
1.18A	Study Time Dimension (free)	da ra	22.2	Study Time Dimension (free)
1.18.1	Frequency	da ra	22.3	Frequency
1.19	Study Area	DBK	10	Geographical coverage
1.19.1	Study Area Code	DBK	10.1	Geographical coverage code
		datorium	11	Geographical area
		da ra	18.1	Geographic coverage (controlled)
		CharmStats	25.3	Country Code
		CharmStats	25.4	Country Code norm
1.19.2	Study Area Name	DBK	10.2	Geographical coverage name
		CharmStats	25.1	Label
		CharmStats	25.2	Number
1.19.3	Study Area (freetext)	DBK	10.3	Geographical coverage free
		da ra	18.2	Geographic coverage (free)
		CharmStats	9.4	Study area
1.19.4	Geographical coordinates	da ra	18.3	Geographic location point
1.19.5	Geographical extent	da ra	18.4	Geographic location box

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
1.20	Universe	DBK	11	Population
		datorium	12	Universe
		CharmStats	9.6	Population
		Stardat	1.10	Universe
		da ra	19	Sampled Universe
1.21	Selection Method	DBK	12	Universe and selection
		da ra	20	Sampling
		datorium	13	Selection Method
		CharmStats	9.7	Selection
1.22	Data Collection Mode	Container element		
1.22.1	Data Collection Mode (controlled)	da ra	24	Collection mode (controlled)
		DBK	Roadmap	
		datorium	14	Data Collection Mode
		CharmStats	9.8/ 20.7	Collection method
		Stardat	1.12	Collection mode
1.22.2	Data Collection Mode (free)	da ra	25	Collection mode (free)
		DBK	13	Mode of data collection
1.23	Survey Period	DBK	6	Survey period
		da ra	21.1	Temporal Coverage
		datorium	15.1	Survey period start
		datorium	15.2	Survey period end
		CharmStats	9.5/ 20.4	Date of collection
		Stardat	1.8	Survey period
1.23.1	Survey Period Start (Year)	DBK	6.1	Survey period: from year
1.23.2	Survey Period Start (Month)	DBK	6.2	Survey period: from month
1.23.3	Survey Period Start (Day)	DBK	6.3	Survey period: from day
1.23.4	Survey Period End (Year)	DBK	6.4	Survey period: till year
1.23.5	Survey Period End (Month)	DBK	6.5	Survey period: till month
1.23.6	Survey Period End (Day)	DBK	6.6	Survey period: till day
1.23.7	Survey Period (freetext)	DBK	6.7	Survey period free
		da ra	21.2	Temporal Coverage (free)
1.23.8	Order Survey Period	DBK	6.8	Survey period order
1.24	Weights	DBK	54	Weights
		Stardat	1.15	Weights
1.25	Unit Type	DBK	40	Unit Type
		da ra	26.1	Type of Units
1.25.1	Analysis Unit	datorium	20.6.1	Unit Type
1.25.2	Response Unit	Recommended		
1.26	WeightHH	CBE	1.8	dt_WeightHH
1.27	WeightRE	CBE	1.9	dt_WeightRE

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
<b>Information on Study: Juridical Information</b>				
1.28	Data access	DBK	15	Data access
1.28.1	Data access - Order permission: J	DBK	33	Data access - Order permission: J
1.28.2	Data access: notes	DBK	34	Data access: notes
1.28.3	Date of data access	CharmStats	23.4.	Date last accessed
1.29	Access Class	da ra	29	Availability (free)
1.30	Rights	datorium	16	Rights
		da ra	30	Rights
1.31	Availability (controlled)	da ra	28	Availability (controlled)
		datorium	5	Availability
		DBK	3	Access classification
<b>Information on Study: Related Resources</b>				
1.32	Literature	DBK	21	Publications
1.32.1	Literature Reference	Container element		
1.32.2	Primary-/Secondary-/Original Literature	Container element		
1.32.2.1	Publication of Primary Literature	Recommended		
1.32.2.2	Publication of Secondary Literature	Recommended		
1.32.2.3	Publication is "Original"	DBK	21.4	Publication is "original"
1.32.3	Order Publication	DBK	21.1	Publication order
1.33	Links	DBK	18	Links
1.33.1	URL	DBK	18.1	URL
1.33.2	Link Description	DBK	18.2	Link Description
1.33.3	Order Links	DBK	18.3	Order
<b>Information on Person: General Information</b>				
2	Persons	Container element		
2.1	Person ID	DBK	Roadmap	Persons ID
		da ra	4.1.1	Person ID
2.1.1	Index name Person ID	da ra	4.1.1.1	Vocabulary of Person ID
2.1.1.1	PersonURI	da ra	4.1.1.2	URI Name Authority
2.1.2	Person Name	DBK	7.1	Name of principal investigator
		da ra	4.1	Person
		CharmStats	24.1	Name
2.1.3	Type of Person	CharmStats	24.2	Type
2.1.4	Date of birth	CharmStats	24.12	Date of birth
2.1.5	Place of birth	CharmStats	24.13	Place of birth
2.1.6	Department	CharmStats	24.14	Department
2.1.7	Logo	CharmStats	24.15	Logo
2.2	Associated Institution	DBK	7.2	Institution of principal
		da ra	4.1.2	Affiliation
2.3	Contact Information	Recommended		

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
2.4	Remarks	Recommended		
2.5	Additional Participants/ Contributors	datorium	7	Contributors
		DBK	Roadmap	Contributor
		da ra	23	Contributor
2.5.1	Vocabulary ID of associated institution of contributor	da ra	23.2	Contributor ID
2.5.1.1	Contributor ID	da ra	23.2.1	Vocabulary Contributor ID
2.5.1.2	URI of the authority record	da ra	23.2.2	URI Name Authority
2.5.2	Name of Contributor	datorium	7.1	Name of Contributor
2.5.3	Contributor Role	datorium	7.3	Contributor Type
		CharmStats	24.3	Role
		DBK	Roadmap	
		da ra	23.1	Contributors Type
2.5.4	Associated Institution of Contributor	datorium	7.2	Institution of Contributor
		da ra	23.2.3	Contributor Affiliation
2.5.4.1	ID of associated institution of Contributor	da ra	23.2.4	Contributor Affiliation ID
2.5.4.1.1	Vocabulary ID of associated institution of contributor	da ra	23.2.4.1	Vocabulary of Contributor Affiliation ID
2.5.4.1.2	URI of the authority record	da ra	23.2.4.2	URI Institution Authority Record
2.5.5	Funding Agency	DBK	45	Funding agency
		Stardat	1.6	Funding
<b>Information on Institution(s): General Information</b>				
3	Institutions and Consortia	Container element		
3.1	Institution ID	DBK	Roadmap	IDs for institutions
		da ra	4.2.1	Institution ID
		da ra	4.1.2.1	Affiliation ID
3.1.1	Vocabulary name Institution ID	da ra	4.2.1.1	Vocabulary of Institution ID
		da ra	4.1.2.1.1	Vocabulary ID Affiliation
3.1.1.1	InstitutionURI	da ra	4.2.1.2	URI Institution Authority Record
		da ra	4.1.2.1.2	URI Institution Authority Record
3.1.2	Institution Name	da ra	4.2	Institution
3.1.3	Institution Abbreviation	Recommended		
3.1.4	Logo	Recommended		
3.2	Address	Container element		
3.2.1	Street and House Number	CharmStats	24.7 und 24.8	Street, Street number
3.2.2	ZIP Code	CharmStats	24.6	ZIP Code
3.2.3	City	CharmStats	24.5	City
3.2.4	Country	CharmStats	24.4	Country
3.2.5	URL	Recommended		
3.2.6	Phone	CharmStats	24.9	Phone
3.2.7	E-Mail	CharmStats	24.10	EMail

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
3.3	Contact Person Name	Recommended		
3.4	Remarks	Recommended		
<b>Information on Dataset: General Information</b>				
4	Dataset	da ra	26	Dataset
		DBK	16	Dataset
4.1	Dataset-ID	CharmStats	23.1	PID
4.2	Relation to Study	CBE	1.13.2	fi_StudyNo
4.3	File Type	DBK	17.2	File type
4.4	Published	DBK	17.3	Publish
4.5	Order File	DBK	17.6	Data order
4.6	Data-Type	DBK	16.3	Data type
		da ra	26.4	Type of Data
<b>Information on Dataset: Content-related Information</b>				
4.7	File Description	DBK	17.5	Description
		datorium	20.1	File Description
		Stardat	19.1	Data set characteristic
		CharmStats	9.11/20.10 / 23.03	Dataset/Text
4.8	File Name	DBK	17.1	Data name
		da ra	26.5	File Name
		datorium	20	File
		CharmStats	23.2	Label
4.9	File Language	DBK	39	Language (Main Language of data)
		datorium	20.4	Language
		da ra	11	Language
4.10	Number Units	DBK	16.1	Data set number of units
		da ra	26.2	Number of Units
		datorium	20.6	Number of Units
		Stardat	1.16	Number of Units
4.11	Number Variables	DBK	16.2	Data set number of variables
		datorium	20.5	Number of variables
		da ra	26.3	Number of variables
		Stardat	1.17	Number of variables
4.12	Source	datorium	18	Source
4.12.1	Link	Recommended		
<b>Information on Dataset: Technical Information</b>				
4.13	Software	DBK	16.4	Data set analyze system
		datorium	20.7	Software
4.14	File size	DBK	17.4	Data size
		datorium	20.10	File size
		da ra	26.7	Size

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
4.15	File Format	datorium	20.11	File format
		da ra	26.6	File Format
4.16	File Checksum	datorium	20.12	File checksum
		DBK	Roadmap	Checksum
		da ra	26.8	Data Fingerprint
4.16.1	Checksum Procedure	da ra	26.9	Method Fingerprint
<b>Information on Dataset: Variables</b>				
4.17	Variable	Stardat	1.2	Variable
		DSDM	1.2	Variable
4.17.1	Variable Name	DSDM	1.2.1	Variable Name
		CharmStats	6.2/ 18.1	Name
		CharmStats	4.1	Target name
		CBE	1.13.1	id_VarName
		Stardat	1.2.1	Variable Name
4.17.2	Alt. Name	CharmStats	15.2	Alt. Name
4.17.3	Variable Label	DSDM	1.2.2	Variable Label
		CharmStats	6.3/ 18.2	Label
		CharmStats	4.2	Target label
		CBE	1.13.3	dt_VarLabel
		CBE	1.13.4	dt_EnVarLabel
		Stardat	1.2.2	Variable Label
4.17.4	Alt. Label	CharmStats	15.3	Alt. Label
4.17.4	Source (Variables)	CharmStats	15.1	Source (Variable)
4.17.5	Relation to Group	CBE	1.13.12	dt_VarGroup
4.17.5.1	Group Reference	DSDM	1.3	Variable Group
		CBE	2	Variable Group
4.17.5.2	Variable-Group-ID	CBE	2.1	id_VarGroup
4.17.5.3	Variable-Group-Name	DSDM	1.3.1	Variable Group Label
		CBE	2.2	dt_VarGroupName
		CBE	2.3	dt_VarGroupName
4.17.6	Variable Position	CBE	1.13.9	dt_Position
4.17.7	Variable Format	DSDM	1.2.3	Variable Format
		CBE	1.13.10	dt_Format
4.17.8	Variable Missing Information	DSDM	1.2.4	Variable Missing Information
		CBE	1.13.11	dt_Missing
4.17.9	Archive note	DSDM	1.2.5	Archive note
4.17.10	Problem	DSDM	1.2.6	Problem
4.17.11	Derivation	DSDM	1.2.7	Derivation
4.17.12	Text	DSDM	1.2.8	Text
4.17.13	Note	DSDM	1.2.9	Note
4.17.14	Type	CharmStats	6.4/ 18.3	Type



Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
4.17.15	Sampling level	CharmStats	4.3/6.5/18.4/ 21.3	Sampling level
4.17.16	Is Meso?	CharmStats	16.2	Is Meso?
4.17.16.1	Definition	CharmStats	16.3	Definition
4.17.16.2	Variable Description	CharmStats	6.8	Definition
4.17.17	Measurement	Container element		
4.17.17.1	Measurement type	CharmStats	4.4/6.6/18.5/ 21.5	Measurement type
4.17.17.2	Measurement name	CharmStats	4.5/21.1/ 21.2	Measurement name
4.17.18	Variable Value	DSDM	1.2.10	Variable Value
4.17.18.1	Variable Value Code	DSDM	1.2.10.1	Variable Value Code
		CharmStats	4.6/7.2/18.6/ 21.7	Code/ Value
		CBE	1.13.20.4	dt_Value
		CBE	1.13.20.8	dt_StringValue
4.17.18.2	Variable Value Label	DSDM	1.2.10.2	Variable Value Label
		CharmStats	4.7/7.3/18.7/ 21.8	Label
		CBE	1.13.20.5	dt_Label
		CBE	1.13.20.6	dt_EnLabel
4.17.18.3	Missing Information	CBE	1.13.20.7	dt_Miss
		CharmStats	4.8/18.8/21.9	Missing?
4.17.19	Showcards	Container element		
4.17.19.1	FileNameShowCard	CBE	1.13.13	dt_FileNameShowCard
4.17.19.2	FileNameEnShowCard	CBE	1.13.14	dt_FileNameEnShowCard
4.17.20	Relation to Category	CBE	6.2	fid
		Stardat	4	Topical Focus
4.17.20.1	Relation-ID	Recommended		
4.17.21	Full Question Text	CBE	1.13.5	dt_QuestionText
4.17.22	Full Question Text (English)	CBE	1.13.6	dt_EnQuestionText
<b>Information on Dataset: Statistical Analytics</b>				
4.17.23	Instruction	CBE	1.13.15	dt_Instruction
		Stardat	1.2.3	Frequency Distribution according on Table
4.17.24	Table	CBE	1.13.16	dt_Table
4.17.25	TableLayout	CBE	1.13.17	dt_TableLayout
4.17.26	Graph	CBE	1.13.18	dt_Graph
4.17.27	GraphLayout	CBE	1.13.19	dt_GraphLayout
4.18	Part	CBE	1.14	Part
4.18.1	Part-ID	CBE	1.14.1	id_Part
4.18.2	PartNo	CBE	1.14.3	dt_PartNo
4.18.3	PartName	CBE	1.14.4	dt_PartName
4.18.4	EnPartName	CBE	1.14.5	dt_EnPartName
4.18.5	SelectionCriteria	CBE	1.14.6	dt_SelectionCriteria

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
4.18.6	SelectionVariable	CBE	1.14.7	dt_SelectionVariable
4.18.7	SeparateAnalysisOnly	CBE	1.14.8	dt_SeparateAnalysisOnly
<b>Information on Survey Instrument: General Information</b>				
5	Instrument	Container element		
5.1	Instrument-ID	Recommended		
5.2	Association Study	Recommended		
<b>Information on Survey Instrument: Content-related Information</b>				
5.6	Instrument Description	DBK	17.5	Description
5.7	Instrument Name	DBK	17.1	Data name
5.8	Instrument Language	DBK	Roadmap	Original language
5.9	Source	Recommended		
5.10	Master questionnaire	Recommended		
<b>Information on Survey Instrument: Technical Information</b>				
5.11	Software	Recommended		
5.12	File size	DBK	17.4	Data size
		datorium	20.10	File size
5.13	File format	datorium	20.11	File format
5.14	File checksum	datorium	20.12	File checksum
		DBK	Roadmap	Checksum
5.14.1	Procedure	Recommended		
<b>Information on Questions &amp; Answers: Question</b>				
6	Questions	Container element		
6.1	Question-ID	Recommended		
6.2	Reference of the question	Container element		
6.2.1	Relation to Survey Instrument	Recommended		
6.2.2	Relation to Answers	Recommended		
6.2.3	Relation to Concepts/Categories	Recommended		
6.3	Question Label	Container element		
6.3.1	Question Title	DSDM	2.1	Question Label
		CharmStats	8.2/19.2	Name
6.3.2	Question Number	Recommended		
6.4	Specific Question	DSDM	2.2	Specific Question
6.4.1	Specific Differentiation	DSDM	2.2.1	Specific Differentiation
6.4.2	Specific Question Text	DSDM	2.2.2	Specific Question Text
6.4.2.1	Type of Specific Question Text	DSDM	2.2.2.1	Type of Specific Question Text
6.4.2.1.1	Intention of Question	CharmStats	8.5/ 19.4	Intention
	Question description	CharmStats	8.6/19.5	Definition

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
6.4.2.1.2	Interviewer Instruction	Stardat	2.2	Interviewer Instruction
		CharmStats	8.4/19.3	Instruction
6.4.2.2	Text of Specific Question Text	DSDM	2.2.2.2	Text of Specific Question Text
		CharmStats	8.3/ 19.2	Text
		Stardat	2.1	Question Text
6.5	Sub Question	DSDM	2.3	Sub Question
6.5.1	Sub Question Title	DSDM	2.3.1	Sub Question Label
6.5.2	Subquestion Number	DSDM	2.3.2.1.1	Specific Sub Question Number
6.5.3	Specific Sub Question	DSDM	2.3.2	Specific Sub Question
6.5.3.1	Specific Differentiation	DSDM	2.3.2.1	Specific Differentiation
6.5.3.2	Specific Sub Question Text	DSDM	2.3.2.1.2	Specific Sub Question Text
		Stardat	2.3	Item Text
<b>Information on Questions &amp; Answers: Answers</b>				
6.6	Answers	Container element		
6.6.1	Single Answer	DSDM	2.4	Answer Value
6.6.1.1	Answer Value Code	DSDM	2.4.1	Answer Value Code
6.6.1.2	Specific Answer	DSDM	2.4.2	Specific Answer
6.6.1.2.1	Specific Differentiation	DSDM	2.4.2.1	Specific Differentiation
6.6.1.2.2	Specific Answer Text	DSDM	2.4.2.2	Specific Answer Text
		Stardat	2.4	Answer Text
6.6.1.2.3	Code List Label	Recommended		
6.6.2	Answer Value Group	DSDM	2.5	Answer Value Group
6.6.2.1	Answer Value Group Label	DSDM	2.5.1	Answer Value Group Label
<b>Information on Questions &amp; Answers: Deviation of question wording</b>				
6.7	Specific	DSDM	3	Specific
6.7.1	Specific ID	Recommended		
6.7.2	Specific Label	DSDM	3.1	Specific Label
6.7.3	Spezifik Long Label	DSDM	3.2	Specific Long Label
6.7.4	Default Information	DSDM	3.3	Default Information
<b>Information on Documents: General Information</b>				
7	Document	DBK	17	Documents
7.1	Document-ID	Recommended		
7.2	Association Study	Recommended		
7.3	Information about the file	Container element		
7.3.1	File Type	DBK	17.2	Type of File
7.3.2	Publication Status	DBK	17.3	Publishing
7.3.3	Order File	DBK	17.6	Order of File
7.3.4	File Link	Recommended		
<b>Information on Documents: Content-related Information</b>				
7.4	Document Description	DBK	17.5	Description

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
		datorium	20.1	File description
7.5	Document Name	DBK	17.1	Filename
		datorium	20	File
7.6	Document Language	Recom- mended		
7.7	Source	CharmStats	3.5/9.10/ 14.5/ 20.9/21.4	Source File
<b>Information on Documents: Technical Information</b>				
7.8	Software	Recom- mended		
7.9	File size	DBK	17.4	Size of File
		datorium	20.10	File size
7.10	File Format	datorium	20.11	File format
7.11	File Checksum	datorium	20.12	File checksum
		DBK	Roadmap	Checksum
7.12	Checksum Procedure	Recom- mended		
<b>Information on Document: Syntax</b>				
7.13	Syntax-Document	Recom- mended		
7.13.1	Syntax-ID	Recom- mended		
7.13.2	Relation to Study	Recom- mended		
7.14	Syntax Document Description	DBK	17.5	Description
		datorium	20.1	File description
7.15	Syntax Document Name	DBK	17.1	Filename
		datorium	20	File
7.16	Syntax Language	Recom- mended		
7.17	Syntax Source	Recom- mended		
7.18	Syntax Version	CharmStats	17.3	Version
7.19	Syntax Date of Creation	CharmStats	17.4	Date of Creation
7.20	Syntax Author	CharmStats	17.5	Author(s)
7.21	Software/SyntaxType	CharmStats	17.1	SyntaxType
7.22	SyntaxType Other	CharmStats	17.2	Other
7.23	Link to the Syntax File	Recom- mended		
<b>Information on Groups of Studies: General Information</b>				
8	Study Group	DBK	56	Groups
		CBE	1.11	dt_IsGroup
8.1	Study Group-ID	Recom- mended		
8.2	Study Group Number	DBK	56.1	Group number
8.3	Study Group Name	DBK	56.2	Group name
		CBE	0.1	dt_DatabaseTitle
		CBE	0.2	dt_ENDatabaseTitle
8.4	Description	DBK	56.3	Description

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
		CBE	0.3	dt_DatabaseDescription
		CBE	0.4	dt_ENDatabaseDescription
8.5	Version	CBE	0.5	dt_DatabaseVersion
8.6	Link	DBK	56.4	Link
8.7	Logo	DBK	56.5	Logo
8.8	Publication Status	DBK	56.6	Publish Y/N
8.9	Shop	DBK	56.7	Shop
<b>Information on Groups of Studies: Relation Group-Study</b>				
8.11	Relation to Study	DBK	31	Group assignment
		CBE	1.12	fid
8.12	Order of Relation	DBK	31.1	Group assignment order
		CBE	1.7	Order
<b>Information on Products: General Information</b>				
9	Product	DBK	57	Products
9.1	Product-ID	Recom- mended		
9.2	Product Number	DBK	57.1	Product number
9.3	Product Name	DBK	57.2	Product name
		CBE	0.1	dt_DatabaseTitle
		CBE	0.2	dt_ENDatabaseTitle
9.4	Description	DBK	57.3	Description
9.5	Link	DBK	57.4	Link
9.6	Published	DBK	57.5	Publish Y/N
<b>Information on Products: Relation Product-Study</b>				
9.7	Relation to Study	DBK	30	Product assignment
9.8	Order of relation	DBK	30.1	Product assignment order
<b>Information about concepts: General Information</b>				
10	Concept	CBE	5	Categories
10.1	Category/Concept -ID	CBE	5.1	id
10.2	Parent-ID	CBE	5.2	fid
10.3	Order categories	CBE	5.3	order
10.4	Category/Concept Name	CBE	5.4	dt_IndicatorName
		Stardat	3	Theme
		CharmStats	2.1	Name
10.5	Category/Concept Name English	CBE	5.5	dt_EnIndicatorName
10.6	Category/Concept description	CBE	5.6	dt_EnIndicatorDescription
		Charmstats	2.2	Notes
10.7	Category/Concept description (English)	CBE	5.7	dt_IndicatorDescription
10.8	Concept Group	Stardat	4	Topical Focus
<b>Information on Literature: General Information</b>				
11	Literature	da ra	32.1	Structured recording of publica- tions
		DBK	Roadmap	

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
		datorium	19	Publications
11.1	Literature-ID	datorium	19.1	Publication ID
11.2.	Author	da ra	32.1.1	Author
		CharmStats	3.1/14.1	Author name
11.2.1	Author et al	CharmStats	3.2/14.2	Author et al
11.3	Editor	da ra	32.1.2	Editor
		CharmStats	3.6/14.6	Editor name
11.3.1	Editor et al	CharmStats	3.7/14.7	Editor et al
11.4	Publication Title	da ra	32.1.3	Title
		CharmStats	3.4/14.4	Title
11.5	Year	CharmStats	3.3/14.3	Year
		da ra	32.1.4	Year
11.6	Publisher	da ra	32.1.5	Publisher
		Charmstats	3.8/14.8	Publisher
11.7	Publication Location	da ra	32.1.6	Publication Place
		Charmstats	3.9/14.9	Place
11.8	Journal/Serial	Container element		
11.8.1	Journal/Serial	da ra	32.1.7	Journal/Series
		Charmstats	3.10/14.10	Issue
11.8.2	Collective Title	da ra	3	Collective Title
11.9	Volume	da ra	32.1.8	Volume
		Charmstats	3.10	Issue
11.10	Issue	da ra	32.1.9	Issue
		Charmstats	3.5	Source
11.11	Compilation	da ra	32.1.10	Anthology
11.12	Pages	da ra	32.1.11	Page
		Charmstats	3.11/14.11	Pages
11.13	ISBN	da ra	32.1.12	ISBN
11.14	ISSN	da ra	32.1.13	ISSN
11.15	Document Type	da ra	32.1.14	Document Type
11.16	Sowiport ID	DBK	21.2	Publications as sowiport-id
		da ra	32.1.15	sowiport ID
11.17	PID	DBK	21.3	Publications as publications-id
		da ra	32.1.16	PID
		datorium	19.1	Publication ID
11.17.1	Type PID	da ra	32.1.16.1	Identifier Type
11.18	Web address	Charmstats	3.12/14.12	Web address
<b>Information on Notes: General Information</b>				
12	Notes	Container element		
12.1	Note-ID	Recommended		

Element No. of the metadata schema	Element	Tool-Name	Tool-No.	Tool-Element
12.2	Type of note	datorium	17.1	Notes Type
		CharmStats	13.1	Subject
12.3	Description	DBK	20	Further Notes
		da ra	27	Notes
		datorium	17	Notes
		CharmStats	13.2	Text
		Stardat	1.20	Further Notes
12.4	Name of note	Recom- mended		
12.5	Relation to Study	Recom- mended		
<b>Information on DDI Instance: General Information</b>				
13.1	Instance-Producer	Recom- mended		
13.2	Title	Recom- mended		
13.3	Date of Publication	Recom- mended		
13.4	Version	Recom- mended		
13.5	Publisher	Recom- mended		
13.6	Copyright	Recom- mended		
13.7	Language	Recom- mended		
13.8	Software	Recom- mended		
13.9	Quality of the metadata	Recom- mended		

### 3.1.2 List of unused metadata in the DDILimDAS metadata schema

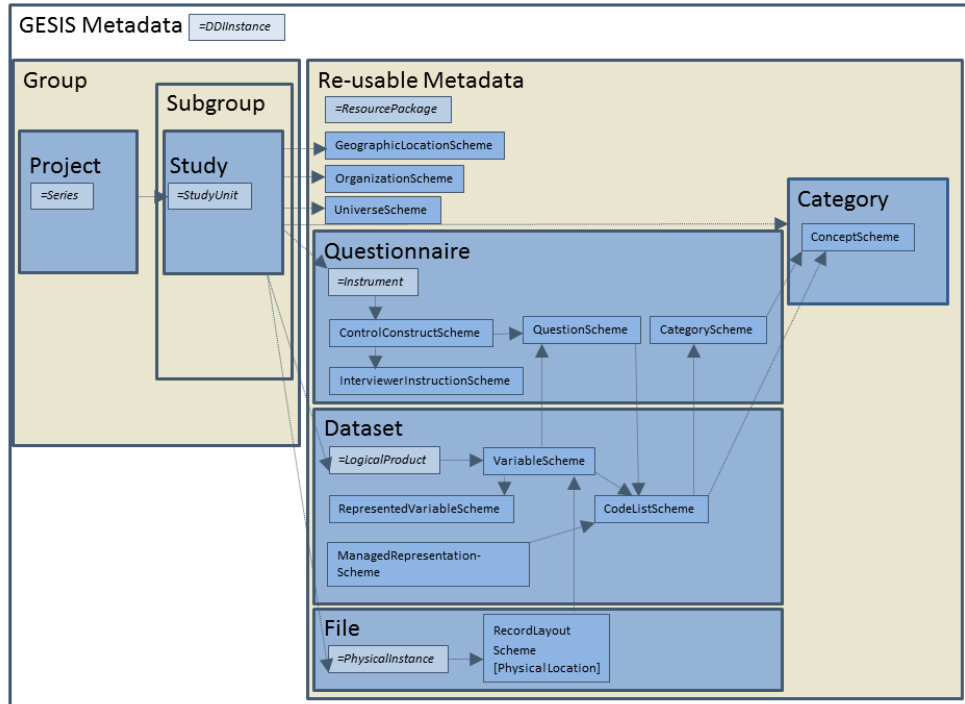
<b>DBK</b>
User-defined field (19)
Name (19.1)
Content (19.2)
Order (19.3)
Revision: Status of Revision 1-3
RelatedIDs (38)
to Version (optional) (38.1)
RelatedIDType (mandatory) (38.2)
RelationType (mandatory) (38.3)
Use only with RelationType=HasMetadata or IsMetadataFor: RelatedMetadataScheme (optional) (38.4)
Use only with RelationType=HasMetadata or IsMetadataFor: SchemeURI (optional) (38.5)
Use only with RelationType=HasMetadata or IsMetadataFor: SchemeType (optional) (38.6)
Internal field: Versions
Survey year internal
Data files
System-Files
Codebook-Files
Status of study description
Documents

Analysis systems
Year min. (calculated)
Year max. (calculated)
Mapped (Y/N)?
Codebook available (Y/N)?
Codebook format
Codebook creator
Codebook available in XML format (Y/N)?
Inventory completed (Y/N)?
Related publications of sowiport
<b>CBE</b>
dt_query (1.10)
dt_TableName (1.13.7)
dt_FieldName (1.13.8)
id_Value (1.13.20.1)
fi_StudyNo (1.13.20.2)
fi_VarName (1.13.20.3)
fi_StudyNo (1.13.21.1)
fi_VarName (1.13.21.2)
fi_ObjectId (1.13.21.3)
dt_ObjectPosition (1.13.21.4)
fi_StudyNo (1.14.2)
id_Object (3.1)
dt_ObjectType (3.2)
dt_ObjectContent (3.3)
dt_ObjectContentEn (3.4)
dt_ObjectLayout (3.5)
dt_ObjectLayoutEn (3.6)
dt_ReadOnly (3.7)
dt_OptionName (4.1)
dt_OptionValue (4.2)
id (6.1)
fi_StudyNo (6.3)
fi_VarName (6.4)
dt_printSelect (6.5)
dt_QuestionNo (6.6)
<b>CharmStats</b>
Name (Tab D.R. Instance) (5.1)
D.R. Instance (Tab Variable) (6.1)
Variable (Tab Variable) (6.7)
Variable (Tab Value) (7.1)
Variable (Tab Question) (8.1)
Variable (Tab Study) (9.1)
Target Variable (Tab Map Instance) (10.1)
Source Variable (Tab Map Instance) (10.1)
Target Attribute (Tab Map Attribute) (11.1)
Source Attribute (Tab Map Attribute) (11.1)
Instance pairing (Tab Map Attribute) (11.3)
Target Value (Tab Map Value) (12.1)
Source Value (Tab Map Value) (12.2)
Instance pairing (Tab Map Value) (12.3)
Attribute pairing (Tab Map Value) (12.4)
Source (Variables) (Dialog Meso) (16.1)
Is Template (Dialog Edit Measurement (21.6)
Text (Dialog Edit Definition (22.1)
Instant messaging (24.11)
<b>Stardat</b>
Fieldwork(1.13)
Utilisation rate (1.14)
<b>datorium</b>
Related ID (20.9)
Relation type (20.9.1)



### 3.1.3 Structuring of metadata und schemes of the DDILimDAS metadata schema

Figure 1: Top Level Model of metadata schema



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## 4 Acknowledgment

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