

STARDAT⁺

DATA ARCHIVING SUITE

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Overview

✦ Initial Situation – Different Archiving Tools

Main Tools – DBKEdit/ DSDM/ CBE

Intention – Integration of Different Archiving Tools

Proceeding – Requirements Analysis

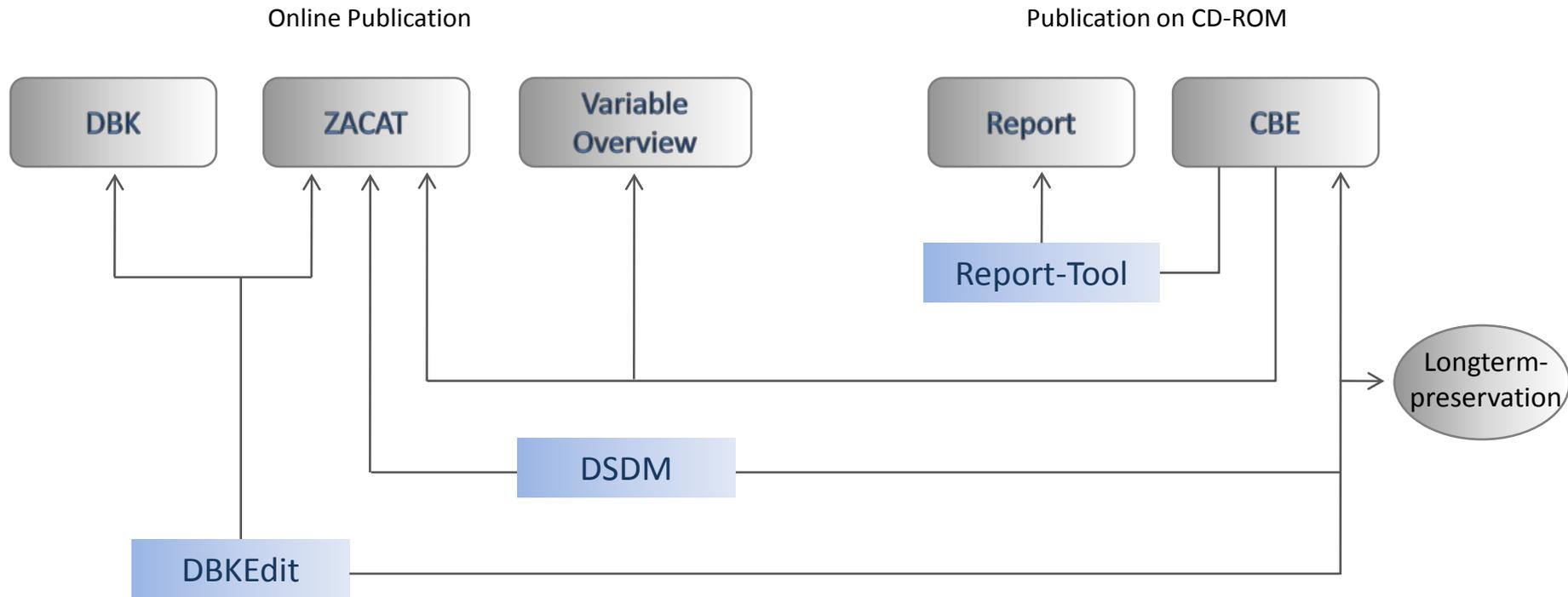
DDI Formats Currently Used

Requirements Concerning DDI Formats

Getting Started with STARDAT Development

Challenges of Going into DDI3

Initial Situation – Different Archiving Tools



DBK
ZACAT
DBKEdit

Data Catalogue
Online Study Catalogue
Data Catalogue Edit-Tool

DSDM
CBE

Dataset Documentation Manager
CodebookExplorer

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Main Tools

1. Data Catalogue Edit-Tool (DBKEdit)

Documentation and management of metadata on study level of all archived studies

- A. *Inhouse-tool*
- B. *Web-based*
- C. *DDI-supporting*

Information provided

For each study/dataset (partly bi-lingual):

- Title & study number
- Primary investigators & fieldwork agencies
- Universe & sampling
- Abstracts
- Related publications
- Access categories
- Questionnaires, etc.
- Notes and comments for internal use

Publication via

- ZACAT (Nesstar)
- CBE (CodebookExplorer)
- DBK (Data Catalogue)

DBKEdit – Management of Metadata on Study-Level

The screenshot displays the DBKEdit web application interface. On the left, there is a navigation menu with sections like 'Dienstleistungen' and 'Datenbestandskatalog'. The main content area is divided into several vertical panels. The top panel shows the 'DBK Edit 1.5 - Daten' header. Below it, there are sections for 'interne Version', 'Erhebung', 'Datengr', 'Finanzie', 'Bemerk', 'Daten-F', 'System', 'Codebu', 'Bemerk', 'Bemerk', 'Akquisit', 'Status c', 'Vergab', and 'Zugang'. The central part of the interface features a table with columns for 'Admin', 'Gesamt-Liste', 'Logdatei', 'Neue Studie anlegen', 'Neuen Entwurf anlegen', 'Neuen Vorspann anlegen', 'Neues Produkt anlegen', 'Hilfe', 'Kennwort ändern', and 'Abmelden'. Below the table, there is a search bar and a 'Direkteingabe' field. The bottom part of the interface shows a detailed view of a study record titled 'Studienbeschreibung 3781, Sprache E'. This view includes a text area for the title, which contains the text 'EVS - European Values Study 1999/2000 (release 2, May 2006) - Spain', and a 'Rechtschreibung...' button.

DBK – Research and Information Provided for the User

The image shows a screenshot of the GESIS Data Catalogue website. The top part displays search results for 'EVS' and 'Religion' in abstracts and data. Below this, a detailed view of the study 'ZA3781: EVS - European Values Study 1999/2000 (release 2, May 2006) - Spain' is shown. The study description includes the title, current version, date of collection, principal investigator, data collector, and a detailed abstract.

Data Catalogue Search Results:

Choice	Study No.	Title
<input type="checkbox"/>	3776	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3777	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3778	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3779	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3780	EVS - European Values Study 1999/2000 (release 2, M
<input checked="" type="checkbox"/>	3781	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3782	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3783	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3784	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3785	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3786	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3787	EVS - European Values Study 1999/2000 (release 2, M
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<input type="checkbox"/>	3794	EVS - European Values Study 1999/2000 (release 2, M
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<input type="checkbox"/>	3797	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3798	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3799	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3800	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3801	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3802	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3803	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3804	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3805	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3806	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3807	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3808	EVS - European Values Study 1999/2000 (release 2, M
<input type="checkbox"/>	3811	EVS - European Values Study 1999/2000 (release 2, M

Study Description: ZA3781: EVS - European Values Study 1999/2000 (release 2, May 2006) - Spain

Study No.	ZA3781
Title	EVS - European Values Study 1999/2000 (release 2, May 2006) - Spain
Current Version	<ul style="list-style-type: none"> 1.0.0, 13.04.2010, doi:10.4232/1.3781 Version number created automatically (Implementation of a uniform versioning policy)
Date of Collection	1999
Principal Investigator/Authoring Entity Institution	<ul style="list-style-type: none"> J. Elzo Universidad de Deusto, Bilbao F.A. Orizo DATA, Madrid
Data Collector	DATA, Madrid
Abstract	<p>Moral, religious, societal, political, economic and social moral concepts of the Europeans.</p> <p>Topics:</p> <p>The question program is divided in three parts: besides a common question program for all countries there is a voluntary supplement program and further country-specific questions.</p> <p>1. Here only the common question program is presented:</p> <p>leisure time:</p> <ul style="list-style-type: none"> importance of areas of life; feeling of happiness; memberships and honorary activities in clubs, parties, organizations, citizens' initiatives and occupation organizations; interactions in leisure time; tolerance regarding minorities, those of other beliefs and foreigners; interhuman trust; self-effectiveness (scale); general contentment with life (scale). <p>working world:</p> <ul style="list-style-type: none"> importance of selected characteristics of occupational work (scale); personal employment; general work satisfaction (scale); self-determination at work (scale); work ethic (scale); attitude to achievement-based pay and following work instructions without criticism; priority of nationals over foreigners as well as men over women with shortage of jobs; assumed priority of individual or social reasons for the situation of economic need of individuals; freedom of the unemployed to reject a job offer (scale). <p>politics:</p> <ul style="list-style-type: none"> party preference; attitude to foreign workers in one's country; fear of the future; assimilation and integration of immigrants;

Main Tools

2. Dataset Documentation Manager (DSDM)

Documentation of metadata on variable-level for special datasets and data collections

- A. *Inhouse-tool & external projects*
- B. *ACCESS-based desktop-application*
- C. *DDI-supporting*

Publication via

- ZACAT (Nesstar)
- CodebookExplorer

Information provided

For each Variable:

- Exact question and answer texts
- Multilingual documentation
- Documentation of deviations in questionnaires fielded in different waves or countries
- Interviewer instructions
- Forward/backward instructions for filter questions
- Documentation of additional archival notes (e.g. recoding, deviations)
- Generating variable categories

DSDM – Management of Metadata on Variable-Level

The screenshot displays the Dataset Documentation Manager (DSDM) interface. The main window shows a list of variables in the dataset catalogue, with Q6A selected. The 'Selection in the question catalogue' pane shows the question text for Q6A: 'Le voy a preguntar con qué frecuencia hace Vd. ciertas cosas. Para cada actividad ¿diría Vd. que la hace al menos cada semana o casi cada semana; una vez o dos al mes; sólo unas pocas veces al año; o nunca en absoluto?'. The 'Question text preview' pane shows the question text in Spanish: 'Pasará tiempo con gente en clubes y asociaciones voluntarias (deportivas, culturales, comunales)'. The 'Selection in the dataset catalogue' pane shows the variable label: 'Study - Variable - Label: ZA3781 - v51 - how often spend time in clubs+voluntary associations (Q6A)'. The 'Selection in the question catalogue' pane shows the question label: 'Question: Q286; F286; ZA3811-V48-how often spend time with friends (Q6A)'. The 'Question text preview' pane shows the question text in Spanish: 'Pasará tiempo con gente en clubes y asociaciones voluntarias (deportivas, culturales, comunales)'. The 'Question text preview' pane also shows the response options: -3 no aplicable, -2 no contesta, -1 No sabe, 1 cada semana, 2 Una o dos veces al mes, 3 Unas pocas veces al año, 4 Nunca en absoluto.

Database file: C:\Dokumente und Einstellungen\Ninne\Desktop\3781_Spain_EVS_3W_Pub_07_10_22 (Version 2-3-1).mdb

DSDM → Publication via ZACAT

GESIS: ZACAT - Mozilla Firefox

GESIS: ZACAT - Mozilla Firefox

http://zacat.gesis.org/webview/index.jsp

GESIS: ZACAT

Extended Variable Overview - Europea...

Leibniz-Institute for the Social Sciences

Data for the social sciences.

Contact us Help FAQ ZACAT Home

ISSP

- Standard & Special Eurobarometer
- Studies from Eastern Europe
- European Values Study (EVS)
- EVS 2008 - 4th wave
 - ZA4800: EVS 2008: Integrated Dataset
 - Metadata
 - Variable Description
 - Archive and ID Variables
 - [ZA4800] Weight
 - Perceptions of Life
 - v1: how important in your life: work (Q1A)
 - v2: how important in your life: family (Q1B)**
 - v3: how important in your life: friends and acquaintances (Q1C)
 - v4: how important in your life: leisure time (Q1D)
 - v5: how important in your life: politics (Q1E)
 - v6: how important in your life: religion (Q1F)
 - v7: how often discuss politics with friends (Q2)
 - v8: taking all things together how happy are you (Q3)
 - v9: describe your state of health these days (Q4)
 - v10: do you belong to: welfare organisation (Q5aA)
 - v11: do you belong to: religious organisation (Q5aB)
 - v12: do you belong to: cultural activities (Q5aC)
 - v13: do you belong to: trade unions (Q5aD)
 - v14: do you belong to: political parties/groups (Q5aE)
 - v15: do you belong to: local community action (Q5aF)
 - v16: do you belong to: 3w-development/human rights (Q5aG)
 - v17: do you belong to: environment (Q5aH)
 - v18: do you belong to: professional associations (Q5aI)
 - v19: do you belong to: youth work (Q5aJ)
 - v20: do you belong to: sports/recreation (Q5aK)
 - v21: do you belong to: womens groups (Q5aL)
 - v22: do you belong to: peace movement (Q5aM)
 - v23: do you belong to: voluntary health organisations (Q5aN)
 - v24: do you belong to: other groups (Q5aO)
 - f25: flag variable: do you belong to: none (Q5a)
 - v25: do you belong to: none (Q5a)
 - v28: do you work unpaid for: welfare organisation (Q5bA)
 - v29: do you work unpaid for: religious organisation (Q5bB)
 - v30: do you work unpaid for: cultural activities (Q5bC)
 - v31: do you work unpaid for: trade unions (Q5bD)
 - v32: do you work unpaid for: political parties/groups (Q5bE)
 - v33: do you work unpaid for: local community action (Q5bF)
 - v34: do you work unpaid for: 3w-development/human rights (Q5bG)
 - v35: do you work unpaid for: environment (Q5bH)
 - v36: do you work unpaid for: professional associations (Q5bI)
 - v37: do you work unpaid for: youth work (Q5bJ)
 - v38: do you work unpaid for: sports/recreation (Q5bK)

Description Table Analysis

Literal Question

Q1
<SHOW CARD 1>
Please say, for each of the following, how important it is in your life.

Q1.B Family

-5 other missing
-4 question not asked
-3 nap
-2 na
-1 dk

1 very important
2 quite important
3 not important
4 not at all important

Comparability:
Trend question (EVS 2008=EVS 1999).
Comparable questions: WVS 1995 (v4) and WVS

Trend Variables 1999-2000-2008 (controlled ti

V2 - Integrated Dataset - EVS 1999-2000

Comparable Variables 1981-2008

V2 - Integrated Dataset - EVS 1999-2000
Q117B - Integrated Dataset - EVS 1990

Original Language Documentation (all lang

v2 - France - EVS 2008
v2 - Germany - EVS 2008
v2 - Austria - EVS 2008
v2 - Spain - EVS 2008
v2 - Portugal - EVS 2008
v2 - The Netherlands - EVS 2008
v2 - Denmark - EVS 2008
v2 - Northern Ireland - EVS 2008
v2 - Ireland - EVS 2008
v2 - Estonia (Estonian) - EVS 2008
v2 - Estonia (Russian) - EVS 2008
v2 - Latvia - EVS 2008
v2 - Lithuania - EVS 2008
v2 - Poland - EVS 2008
v2 - Czech Republic - EVS 2008
v2 - Slovak Republic - EVS 2008
v2 - Hungary - EVS 2008
v2 - Romania - EVS 2008

Note:
Missing values from field que:

Display this Var
Dataset ZA4763: Germany
Variable v2: how important

Display this Variable in Extended Variable Overview
Dataset ZA4761: France - EVS 2008
Variable v2: how important in your life: family (Q1B) how important in your life: family (Q1B)

NOUS COMMENÇONS AVEC QUELQUES QUESTIONS SUR LA VIE EN GÉNÉRAL, LES LOISIRS

Q1
<MONTERER CARTE 1>
Pour chacune des choses suivantes, pouvez-vous me dire si, dans votre vie, cela est très important, assez important, peu important ou pas important du tout ?

Q1.A Travail

1 Très important
2 Assez important
3 Pas très important
4 Pas important du tout
8 NSP
9 SR

Note:
Missing values from field questionnaire recoded into -1 to -5 values in IDS and NDS.

CARTE 1

Très important
Assez important
Pas très important
Pas important du tout

Sehr wichtig
Ziemlich wichtig
Nicht sehr wichtig
Überhaupt nicht wichtig

Fertig

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Main Tools

3. CodebookExplorer (CBE)

Tool on context-level which gives easy retrieval possibilities to end-users for databases of specific topics

- A. *Tool for end-users or members of external projects*
- B. *Inhouse-tool supporting the publication of context information (e.g. comparable questions, show cards)*
- C. *Not DDI-supporting*

Publication via

- CodebookExplorer (CD-ROM/Internet)
- ZACAT

Information provided

For each study/data set

- Browsing studies or trends, topics, scales etc. (if the database provides them)
- Structuring of variables according to content or methodical aspects
- Compare question texts
- Make simple analysis like frequencies or crosstabs
- Show questionnaires
- Access to SPSS datasets

CBE → Publication and Management via CD-ROM and Internet

Extended Variable Overview - European Values Study - ZA4800 - v1 - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://info1.gesis.org/ejs/variables/compview.asp?db=QEV52008&id=ZA4800&var=v1&lang=en&id2=ZA3811&var2=v1&lang2=en

GESIS: ZACAT Extended Variable Overview - Eur...




[Home](#)
Extended Variable Overview for Comparable Variables and Original Languages of the European Values Study 1981, 1990, 1999/2000, and 2008 Waves.

[EVS 2008 Integrated Dataset \(ZA4800\)](#) -
 [EVS 1999-2000 Integrated Dataset \(ZA3811\)](#) -
 [EVS 1990 Integrated Dataset \(ZA4460\)](#) -
 [EVS 1981 Integrated Dataset \(ZA4438\)](#)

Variables of Dataset Integrated Dataset - EVS 2008

- StudyNo (GESIS Study Number)
- StudyNoC (GESIS Study Number (National datasets))
- Version (GESIS Archive Version)
- VersionC (GESIS Archive Version (National datasets))
- id_cocas (unified respondent number)
- caseno (original respondent number)
- intrno (interviewer number)
- wave (wave)
- year (survey year)
- country (country code)
- country1 (country code [with split ups])
- c_abrv (country abbreviation)
- c_abrv1 (country abbreviation [with split ups])
- weight (weight)
- weight_c (weight for country specific characteristics)
- cntry_y (country_year)
- cntry1_y (country_[with split ups]-year)
- v1 (how important in your life: work (Q1A))
- v2 (how important in your life: family (Q1B))
- v3 (how important in your life: friends and acquaintances (Q1C))
- v4 (how important in your life: leisure time (Q1D))
- v5 (how important in your life: politics (Q1E))
- v6 (how important in your life: religion (Q1F))
- v7 (how often discuss politics with friends (Q2))
- v8 (taking all things together)

Dataset ZA4800: Integrated Dataset - EVS 2008
Variable v1: how important in your life: work (Q1A)

WE START WITH SOME QUESTIONS ABOUT LIFE IN GENERAL, LEISURE TIME ACTIVITIES AND WORK

Q1
 <SHOW CARD 1>
 Please say, for each of the following, how important it is in your life.

Q1.A Work

-5 other missing
 -4 question not asked
 -3 nap
 -2 na
 -1 dk
 1 very important
 2 quite important
 3 not important
 4 not at all important

Comparability:
 Trend question (EVS 2008=EVS 1999).
 Comparable questions: WVS 1995 (v8) and WVS 2000 (v8).

CARD 1

very important
 quite important
 not important
 not at all important

Trend Variables: 3rd and 4th EVS wave (the year of the waves is mentioned in the title)

- V1 (Integrated Dataset - EVS 1999-2000)

Comparable Variables: all four EVS waves

- Q116A (Integrated Dataset - EVS 1990)
- V1 (Integrated Dataset - EVS 1999-2000)

All Original Languages (all languages for all countries)

- v1 (Albania - EVS 2008)
- v1 (Armenia - EVS 2008)
- v1 (Austria - EVS 2008)
- v1 (Azerbaijan - EVS 2008)
- v1 (Belarus - EVS 2008)
- v1 (Belgium - EVS 2008)
- v1 (Bosnia-Herzegovina - EVS 2008)
- v1 (Bulgaria - EVS 2008)
- v1 (Cyprus - EVS 2008)
- v1 (Czech Republic - EVS 2008)
- v1 (Denmark - EVS 2008)
- v1 (Estonia (Estonian) - EVS 2008)
- v1 (Estonia (Russian) - EVS 2008)
- v1 (Finland - EVS 2008)
- v1 (France - EVS 2008)
- v1 (Georgia - EVS 2008)
- v1 (Germany - EVS 2008)
- v1 (Greece - EVS 2008)
- v1 (Hungary - EVS 2008)
- v1 (Ireland - EVS 2008)
- v1 (Kosovo (Albanian) - EVS 2008)
- v1 (Kosovo (Serbian) - EVS 2008)
- v1 (Latvia - EVS 2008)
- v1 (Lithuania - EVS 2008)

Dataset ZA3811: Integrated Dataset - EVS 1999-2000
Variable V1: how important in your life: work (Q1A)

Q1
 <Show card 1>
 Please say, for each of the following, how important it is in your life.

Q1.A Work

-5 missing source unknown
 -4 not asked in survey
 -3 not applicable
 -2 no answer
 -1 don't know
 1 very important
 2 quite important
 3 not important
 4 not at all important

CARD 1

1- Very important

2- Quite important

3- Not important

4- Not at all important

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Intention – Integration of Different Archiving Tools

- Integrated management system for metadata
- Transfer of the features of DBKEdit, DSDM, CBE and further tools
- Interoperability with standards like DDI 3, ISO 20252
- Multi-language documentation on study and variable-level
- Web based modul for structured metadata capture, management and dissemination (Web Based Data Ingest)
- Controlled vocabularys (Thesauri)
- Related publications, continuity guides, scales, trends and additional metadata
- Longterm-preservation with DDI
- Export in different portals like ZACAT, Cessda Data Portal, Sowiport

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Proceeding

Requirements Analysis

- Structured interviews with the main stakeholders:
 - Investigation of usage of the tools and workflows
 - Identification of problems
 - Feedback from stakeholders about necessary/desired changes→ Result: Description of all functionalities, also structured in diagrams

- Requirements specification document
 - Detailed description of requirements
 - Transfer into BPMN-Diagrams
 - Coverage of not yet existing functionalities

- Next steps:
 - Building software-modules
 - Evaluation of the new tool by users

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DDI Formats Currently Used

DBK

- Export to DDI 2.0
 - for publication on ZACAT (Nesstar) server
 - for long-term archiving
 - for data exchange with portals like da|ra, sowiport

DSDM

- Export to DDI 2.0
 - for publication on ZACAT (Nesstar) server
 - for long-term archiving
- Export to DDI 3.1
 - for Enhanced Publication Editor (linking publications to datasets)

CBE

- No DDI currently used

DDI Formats Currently Used

Example: Study Description from DBK to DDI 2.0

contains

- Study number and title
- Principal investigators
- Abstract and classifications
- Research area and data collection information
- Further documents and bibliographic references
- Dataset information

Leit <?xml version="1.0" encoding="ISO-8859-1"?>
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DD

1

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    </dimensns>
    <fileType>File Format</fileType>
  </fileTxt>
</fileDscr>
</codeBook>

```

DDI Formats Currently Used

Example: Variable Descriptions from DSDM to DDI 2.0

(for long-term archiving)

contains

- Study number and specific list (countries, waves, panels)
- SPSS variable names, labels, values and value labels
- Variable groups
- Question numbers, texts, interviewer instructions, filter instructions
- Sub-question numbers and texts
- Answer codes and categories, answer groups
- Several variable notes, e.g. for derivation

DD

1

```
<?xml version="1.0" encoding="UTF-16"?>
<!DOCTYPE codeBook SYSTEM "http://info1.gesis.org/ddi/DSDM/DSDM-LTA-200.dtd">
<!-- Selection of DDI 2.0 DTD Elements and Attributes used by DSDM for long-term archiving -->
<!-- The original DDI 2.0 DTD can be found at http://www.icpsr.umich.edu/DDI/Version2-0.dtd -->
<codebook ID="Archive Study ID">
  <docDscr>
    <citation>
      <titlStmt>
        <titl>Langfrstsicherungsdokumentation der Studie 'Archive Study ID'</titl>
      </titlStmt>
      <rspStmt>
        <AuthEnty>GESIS</AuthEnty></rspStmt>
      <prodStmt>
        <producer>GESIS</producer>
        <copyright>© 2007-2009 GESIS</copyright>
        <prodDate>Date (DD.MM.YYYY)</prodDate>
        <software>DSDM DDI Long-Term Archiving 2.0.0</software></prodStmt>
      </citation>
    </docDscr>
    <stdyDscr>
      <citation>
        <titlStmt>
          <titl></titl></titlStmt></citation>
      <stdyInfo>
        <sumDscr>
          <nation* ID="country identifier" abbr="short name of country">long name of country</nation>
        </sumDscr>
      </stdyInfo>
    </stdyDscr>

    <dataDscr>
      <varGrp* ID="identifier of variable group" var="list of variable references, coded under <var>">
        <labl>name of variable group</labl>
      </varGrp>
```

DD

2

```

<var* ID="variable identifier" name="SPSS variable name">
  <labl>SPSS variable label</labl>

  <qstn* ID="identifier of question"
        seqNo="Questionnaire No"
        sdatrefs="list of country references, coded under <nation>">
    <preQTxt?>text before question</preQTxt>
    <qstnLit*>literal question</qstnLit>
    <forward*>forward instruction</forward>
    <backward*>backward instruction</backward>
    <ivulnstr*>interviewer instruction</ivulnstr>
    <postQTxt?>text after question</postQTxt>
  </qstn>
    Or (if only reference):
  <qstn* qstn="question reference, coded under <qstn>" />

  <txt* ID="identifier of sub question"
        Level?="sub question no"
        sdatrefs="list of country references, coded under <nation>">sub question text</txt>
    Or (if only reference):
  <txt* sdatrefs="sub question reference, coded under <var><txt>" />

  <catgryGrp* ID="identifier of answer value group"
        catgry="list of answer value references, coded under <catgry>"
        <labl>name of answer value group</labl>
  </catgryGrp>
    Or (if only reference):
  <catgryGrp* catGrp="answer value group reference, coded under <catgryGrp>" />

```

DD

```
<catgry* ID?="identifier of answer value" only exists if tag is AnswerValue in DSDM
Missing?="SPSS value missing" as Y|N" only exists if tag is VariableValue in DSDM >
<catValu>answer value code and SPSS value only numeric!</catValu>
<labl?>SPSS value label</labl> only exists if tag is VariableValue in DSDM
<txt* ID="identifier of specific answer text">country specific value label</txt>
</catgry>
```

3

Or (if reference):

```
<catgry* sdatrefs="specific answer text reference" >
<labl?>SPSS value label</labl> only exists if tag is VariableValue in DSDM
</catgry>
```

```
<derivation>
<drvdscr>description of derivation</drvdscr>
</derivation>
```

```
<notes? type="NoteNote">userdefined notes to variable: Note</notes>
<notes? type="Text">userdefined notes to variable: Text</notes>
<notes? type="Note">userdefined notes to variable: Archive Note</notes>
<notes? type="Problem">userdefined notes to variable: Problem</notes>
</var>
</dataDscr>
</codeBook>
```

DDI Formats Currently Used

Example: Variable Descriptions from DSDM to DDI 3.1

(for Enhanced Publications)

contains

- Study number
- SPSS variable names, labels, and URNs
- Variable groups
- Complete question, answer texts and notes for each variable
- SPSS values and value labels

```

<?xml version="1.0" encoding="UTF-16" standalone="no"?>
<ddi:DDIInstance
  id="gesis_Archive Study ID" agency="de.gesis" version="Version (Format Major.Minor.Revision default 1.0.0)"
  versionDate="Date (ISO Format YYYY-MM-DD)" xmlns:ddi="ddi:instance:3_1" xmlns:s="ddi:studyunit:3_1"
  xmlns:pd="ddi:physicaldataprotuct:3_1" xmlns:pi="ddi:physicalinstance:3_1" xmlns:c="ddi:conceptualcomponent:3_1"
  xmlns:l="ddi:logicalproduct:3_1" xmlns:r="ddi:reusable:3_1" xmlns:dc="ddi:datacollection:3_1" xmlns:a="ddi:archive:3_1"
  xmlns:xhtml="http://www.w3.org/1999/xhtml" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="ddi:instance:3_1 http://info1.gesis.org/ddi/3_1/instance.xsd">
  <s:StudyUnit id="Archive Study ID_SU">
    <r:UserID type="DBK Study Number"> Archive Study ID </r:UserID>
    <r:Citation>
      <r:Title> Archive Study ID </r:Title>
    </r:Citation>
    <s:Abstract id="Archive Study ID_A">
      <r:Content>Study description not available.</r:Content>
    </s:Abstract>
    <r:UniverseReference>
      <r:ID>UNIVERSE_REF</r:ID>
    </r:UniverseReference>
    <s:Purpose id="Archive Study ID_P">
      <r:Content>Archive Study ID DSDM to EPE DDI 3.1 Export (1.4.0)</r:Content>
    </s:Purpose>
    <dc:DataCollection id="Archive Study ID _DatCol">
      <dc:QuestionScheme id="Archive Study ID _QueSch">
        <dc:QuestionItem id="Archive Study ID _QSPSS Variable Name">
          <dc:QuestionText xml:lang="en">
            <dc:LiteralText>
              <r:Description>Complete Question Text</r:Description>
              <dc:Text>Complete Question Text</dc:Text>
            </dc:LiteralText>
          </dc:QuestionText>
          <dc:CategoryDomain>
            <r:CategorySchemeReference>
              <r:ID> Archive Study ID _QSPSS Variable Name_CatSch</r:ID>
              </r:CategorySchemeReference>
            </dc:CategoryDomain>
          </dc:QuestionItem>
        </dc:QuestionScheme>
      </dc:DataCollection>
  </s:StudyUnit>
</ddi:DDIInstance>

```

```

<l:LogicalProduct id="Archive Study ID_LogPrd">
  <l:DataRelationship id="DataRel">
    <l:LogicalRecord hasLocator="false" id="LogRec">
      <l:VariablesInRecord allVariablesInLogicalProduct="true">
        <l:VariableSchemeReference>
          <r:ID>Archive Study ID_VarSch</r:ID>
        </l:VariableSchemeReference>
      </l:VariablesInRecord>
    </l:LogicalRecord>
  </l:DataRelationship>

  <l:CategoryScheme id="Archive Study ID_QSPSS Variable Name_CatSch">*
    <l:Category id="Archive Study ID_QSPSS Variable Name_CatValue">
      <r:Label>SPSS Value Label</r:Label>
    </l:Category>*
  </l:CategoryScheme>

  <l:CodeScheme id="Archive Study ID_QSPSS Variable Name_CodSch">
    <l:Code>
      <l:CategoryReference>
        <r:ID>Archive Study ID_QSPSS Variable Name_CatValue</r:ID>
      </l:CategoryReference>
      <l:Value>SPSS Value</l:Value>
    </l:Code>*
  </l:CodeScheme>*

  <l:VariableScheme id="Archive Study ID_VarSch">
    <l:Variable id="SPSS Variable Name"
urn="urn:ddi:de.gesis:VariableScheme.Archive Study ID_VarSch.1.0.0:Variable.SPSS Variable Name.1.0.0">*
      <r:UserID type="SPSS Variable Name"> SPSS Variable Name </r:UserID>
      <r:Label maxLength="255" type="label"> SPSS Variable Label</r:Label>
      <l:QuestionReference>
        <r:ID>Archive Study ID_QSPSS Variable Name</r:ID>
      </l:QuestionReference>
    </l:Variable>
  </l:VariableScheme>

```

D

3

```

        <l:VariableGroup id="VariableGroup ID_VarGrp" >*
            <l:GroupTypeCoded codeListID="Group Type"
                codeListAgencyName="DDI">Subject</l:GroupTypeCoded>
            <r:Label> Variable Group Name </r:Label>
            <l:VariableReference>
                <r:ID>SPSS Variable Name</r:ID>
            </l:VariableReference>*
        </l:VariableGroup>
    </l:VariableScheme>
</l:LogicalProduct>
<a:Archive id="gesis_ARCHIVE">
    <a:ArchiveSpecific>
        <a:ArchiveOrganizationReference>
            <r:ID>ArchiveOrg</r:ID>
        </a:ArchiveOrganizationReference>
    </a:ArchiveSpecific>
    <a:OrganizationScheme id="gesis_OrgSch">
        <a:Organization id="ArchiveOrg">
            <a:OrganizationName>GESIS</a:OrganizationName>
        </a:Organization>
    </a:OrganizationScheme>
    <r:LifecycleInformation>
        <r:LifecycleEvent id="EVENT_1">
            <r>Date>
                <r:SimpleDate>Date (Format: YYYY-MM-DD)</r:SimpleDate>
            </r>Date>
            <r:AgencyOrganizationReference>
                <r:ID>ArchiveOrg</r:ID>
            </r:AgencyOrganizationReference>
            <r>Description>Export from DSDM to EPE DDI 3.1 (1.4.0)</r>Description>
        </r:LifecycleEvent>
    </r:LifecycleInformation>
</a:Archive>
</s:StudyUnit>
</ddi:DDIInstance>

```

Overview

Initial Situation – Different Archiving Tools

Main Tools – DBKEdit/ DSDM/ CBE

Intention – Integration of Different Archiving Tools

Proceeding – Requirements Analysis

DDI Formats Currently Used

✦ Requirements Concerning DDI Formats

Getting Started with STARDAT Development

Challenges of Going into DDI3

Requirements Concerning DDI Formats

- Export to DDI 2.1 still needed
 - for publication on ZACAT (Nesstar) server
 - for data exchange with portals like da|ra, sowiport
- Export to DDI 3.1 needed
 - for long-term archiving
 - for Enhanced Publication Editor (linking publications to datasets)
- Import from DDI all versions needed
 - for data exchange with primary researchers/projects
- Future DDI versions need to be supported
- Usage of Resource Packages needed for re-using elements
 - for own elements and elements from other institutions
- Concept for long-term archiving of re-used elements needed
- Migration issues need to be solved

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DDI Formats Currently Used

Requirements Concerning DDI Formats

✦ Getting Started with STARDAT Development

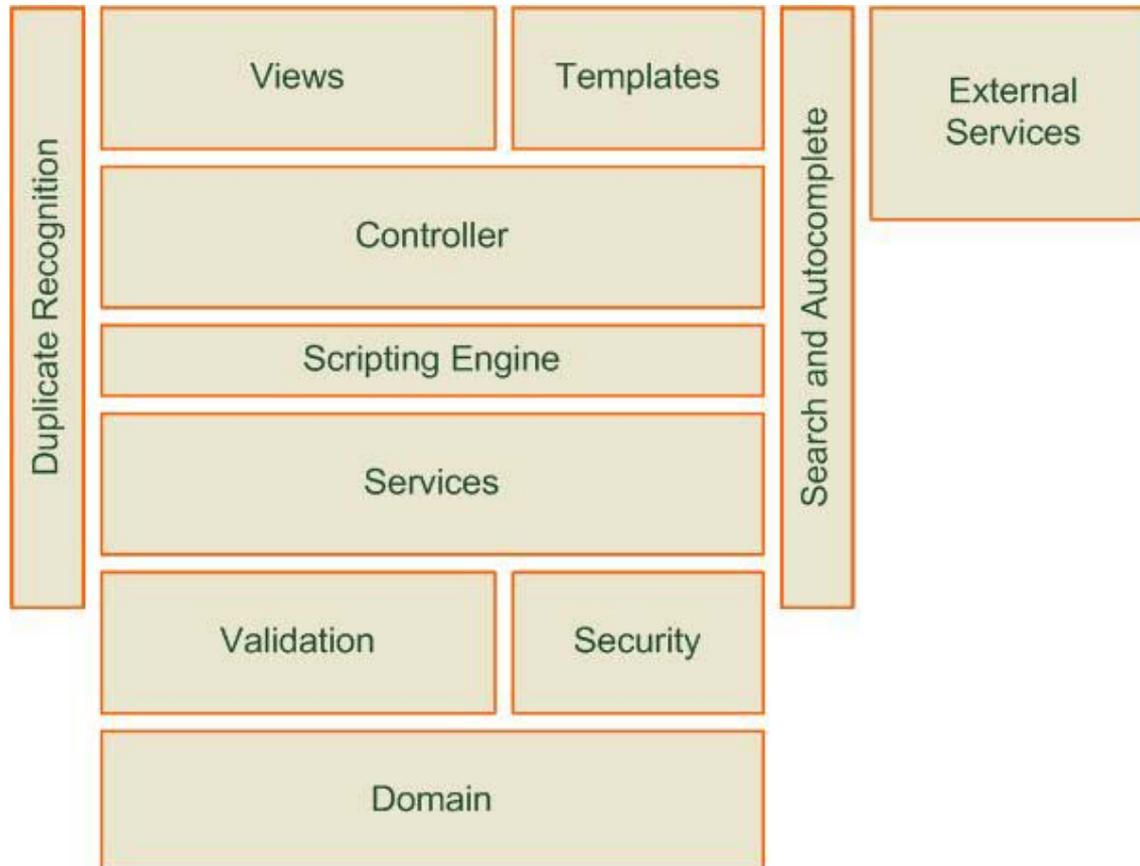
Challenges of Going into DDI3

Getting Started with STARDAT Development

- Architectural requirements
 - Browser-based web application
 - Transaction-based multi-user access
 - Distributed undo-/redo-mechanism
 - Multi-threading
 - Automation of metadata management tasks
 - e. g. long running tasks with progress reporting and cancelation support
 - Extensible framework for further needs of metadata documentation
 - Keeping in mind: REST and SOA

- Experimental prototyping
 - First milestone until May 2011
 - Implementation of only a small set of functional requirements
 - Check of feasibility of architectural and technical ideas
 - Iterative process to improve development and implementation

Getting Started with STARDAT Development First Draft of Architecture



Overview

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Requirements Concerning DDI Formats

Getting Started with STARDAT Development

✦ Challenges of Going into DDI3

Challenges of Going into DDI 3

Really Internalize Lifecycle Orientation

- Managing documentation process of complex social science data
 - Apply adequate grouping approach
 - Identify a strategy to establish resource packages

- Migration issues
 - Find equivalent elements
 - Identify additional elements needed
 - Identify re-usable elements
 - Re-structure the elements

- Building software
 - Existing software tools are *static*
 - Only their combination supports lifecycle management
 - New software tool (!) shall be *dynamic*
 - Lifecycle management is inherently contained

Challenges of Going into DDI 3 To Be ... or Not to Be

What does it mean when we talk about DDI 3 usage?

- supporting DDI 3
 - proprietary domain model
 - proprietary storage
 - I/O module with some squeezing mapping

- compatible with DDI 3
 - DDI 3 domain model, perhaps some proprietary extensions
 - storage in relational database
 - mapping between XML and relational database

- based on DDI 3
 - DDI 3 domain model, no proprietary extensions
 - storage in flat XML files or native XML databases
 - no mapping, full interoperability

Challenges of Going into DDI 3

What DDI 3.x? How to manage DDI version evolution?

- Extensions
 - no problem

- Modifications
 - not trivial
 - but assumed to be manageable

- Downgrade mismatch
 - unconditionally avoid nasty lock-in effect
 - but how?

Challenges of Going into DDI 3

Performance Issues

- The performance topic has been addressed
- Solutions are already discussed by the community
 - DDI light
 - XML – RDB transformation
 - We need to understand and adapt to our needs
- We need always keep in mind performance because of its extensive side effects on architecture
 - What usage of DDI is possible?
 - What storage technique do we use?
 - Where are the bottle necks?

Challenges of Going into DDI 3

Not at least Reuse, Reuse, Reuse of Software!

- More generalized thinking
- Stringent component orientation in architecture design
- Advanced documentation needs
- We would like to offer our results to the DDI3 community
- We are interested in exchange.
 - One first step done: We already started an exchange with DDA, we hope to reuse DDI3 Editor code.