

DDI - FlatDB



Overview

- Why DDI in a DB?
- Main idea of DDI-FlatDB
- GESIS tools
 - Variable Report
 - Editor
 - Question and Variable Search

Why store DDI in a DB?

- Complex data structure
- No direct mapping possible
- Extremely expensive wrt resources
- Different DDI Versions (upcoming 4.0)
- Different semantic interpretations
- Application specific and non-reusable models

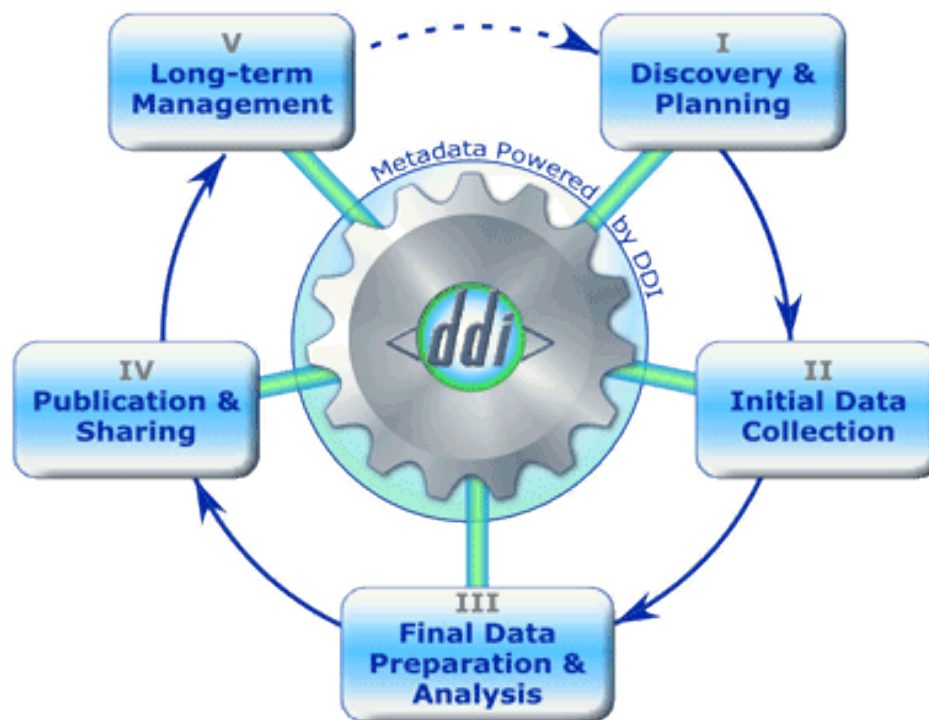
Our idea

- Keep everything in the DDI XML File
- Follow a stricly functional driven implementation approach
- Do as much for efficiency for the users!

DDI - FlatDB

- What is the DDI – FlatDB architecture?
 - Abstracting, efficient, functional driven and rest-full access to studies in DDI format.
- Main features
 - Efficient access of entities via REST
 - StudyUnit, Question, Item, ...
 - Keep things configurable to avoid reprogramming
 - Efficient searching for all entities
 - Flexible usage for all study related portals and functionalities

DDI Lifecycle



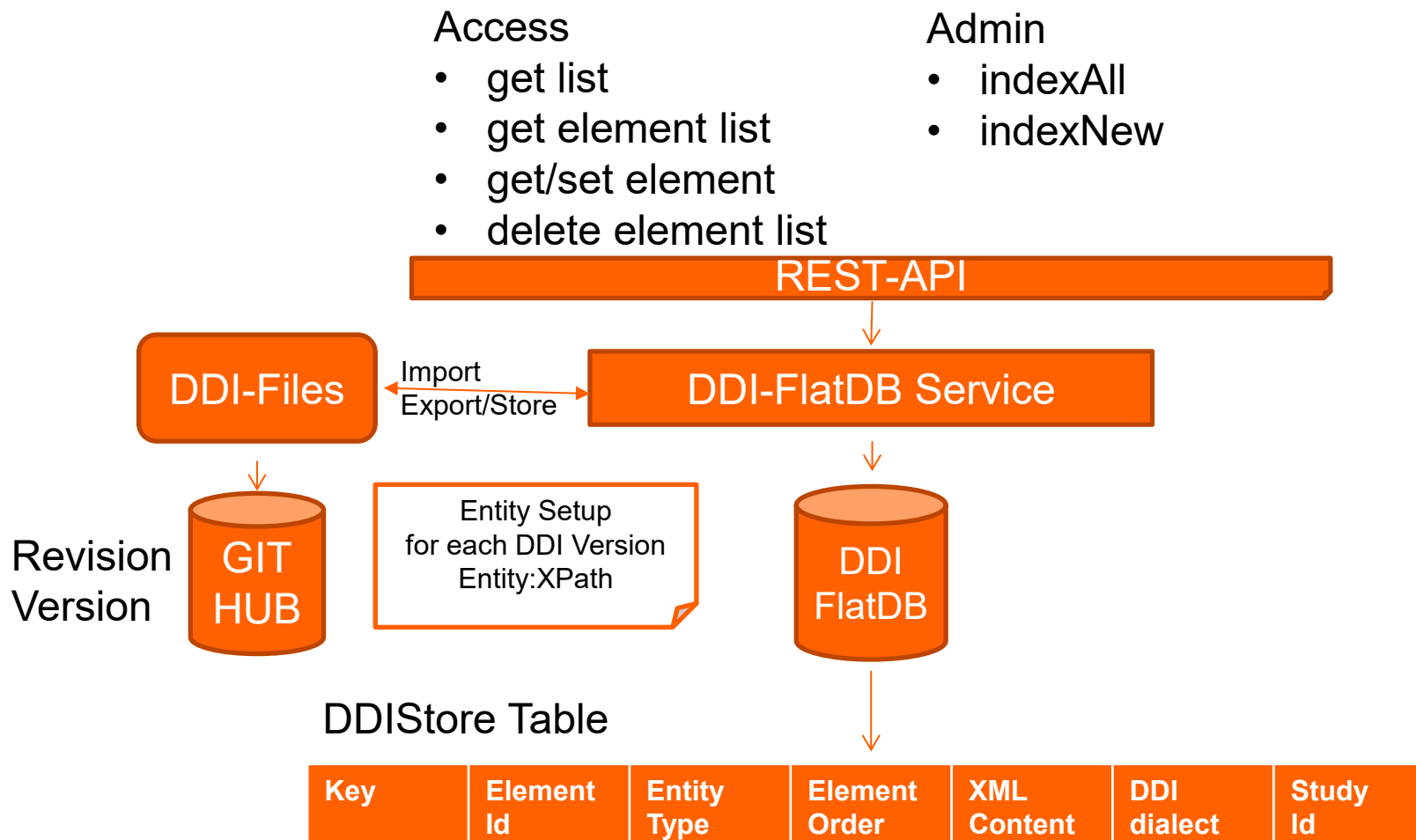
DDI Lifecycle & DDI Codebook

- DDI-Lifecycle
 - StudyUnit
 - Othermaterial
 - Creator
 - Abstract
 - Subject
 - SpatialCoverage
 - DataCollection
 - Access
- DDI-Codebook
 - Codebook
 - AuthEnty
 - TopcClass
 - geogCover
 - dataColl
 - dataAccs
 - relMat

DDI Lifecycle & DDI Codebook Variables

- DDI-Lifecycle
 - VariableGroup
 - VariableScheme
 - QuestionScheme
 - CategoryScheme
- DDI-Codebook
 - varGrp
 - var
 - qstn
 - catgry

Architecture DDI-FlatDB



DDI-FlatDB: Split-Process



Attention: Order is important due to DDI Sequence

`ddiinstance.note = /DDIInstance/ResourcePackage/Note`

`ddiinstance.variablescheme.variable = /DDIInstance/ResourcePackage/VariableScheme/Variable`

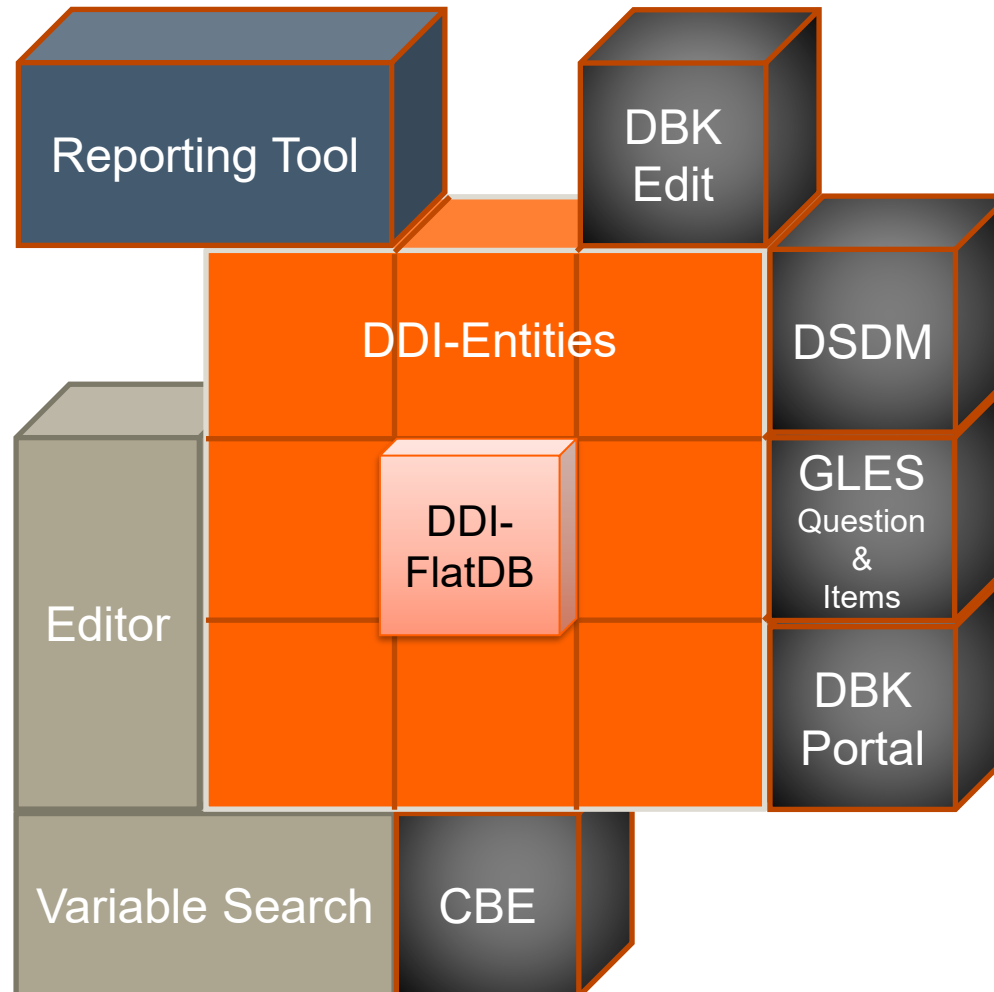
`ddiinstance.variablescheme = /DDIInstance/ResourcePackage/VariableScheme`

`ddiinstance.questionscheme.item = /DDIInstance/ResourcePackage/QuestionScheme/QuestionItem`

`ddiinstance.questionscheme = /DDIInstance/ResourcePackage/QuestionScheme`

`ddiinstance = /DDIInstance`

Integration



Configurable DDI Entity

- gesis31.StudyUnit.ID.path=//StudyUnit/@id
- gesis31.StudyUnit.Title.path=//StudyUnit/Citation/Title[@lang='%lang%']/text()
- gesis31.StudyUnit.UserId.path=//StudyUnit/UserID/text()
- gesis31.StudyUnit.UserIdType.path=//StudyUnit/UserID/@type
- gesis31.StudyUnit.Creator.path=//Citation/Creator
- gesis31.StudyUnit.Creator.Name.path=text()
- gesis31.StudyUnit.Creator.Affiliation.path=@affiliation
- gesis31.StudyUnit.Creator.Role.path=@role
- gesis31.StudyUnit.Contributor.path=//Citation/Contributor
- gesis31.StudyUnit.Contributor.Name.path=text()
- gesis31.StudyUnit.Contributor.Affiliation.path=@affiliation
- gesis31.StudyUnit.Contributor.Role.path=@role
- gesis31.StudyUnit.Publisher.Iddep=false
- gesis31.StudyUnit.Publisher.multi=false
- gesis31.StudyUnit.Publisher.path=//Publisher/text()
- gesis31.StudyUnit.PublicationYear.path=//PublicationDate/SimpleDate/text()
- gesis31.StudyUnit.Content.path=//StudyUnit/Abstract/Content[@lang='%lang%']/text()

Current Softwaretools

- Variable Reporttool (Evaluation Phase)
- DDI Editor (Prototypes)
- Question and Variable Search (Prototypes)
- GLES Question Designer and Editor

Report Tool



[Contact](#)

Startdat - Reporting

Home |
 Job list |
 Upload Data |
 Generate Report

Sub menu 1.1

Sub menu 1.2

Mitglied der



Study number

Configure

Report Layout

Font Size:	10
Font:	Times New Roman
Document Size:	A4
Page Style:	ragged left alignment
Landscape	☐
Begin on new page after each variable	☐

Generate Report

Report Contents

GESIS logo language:

German

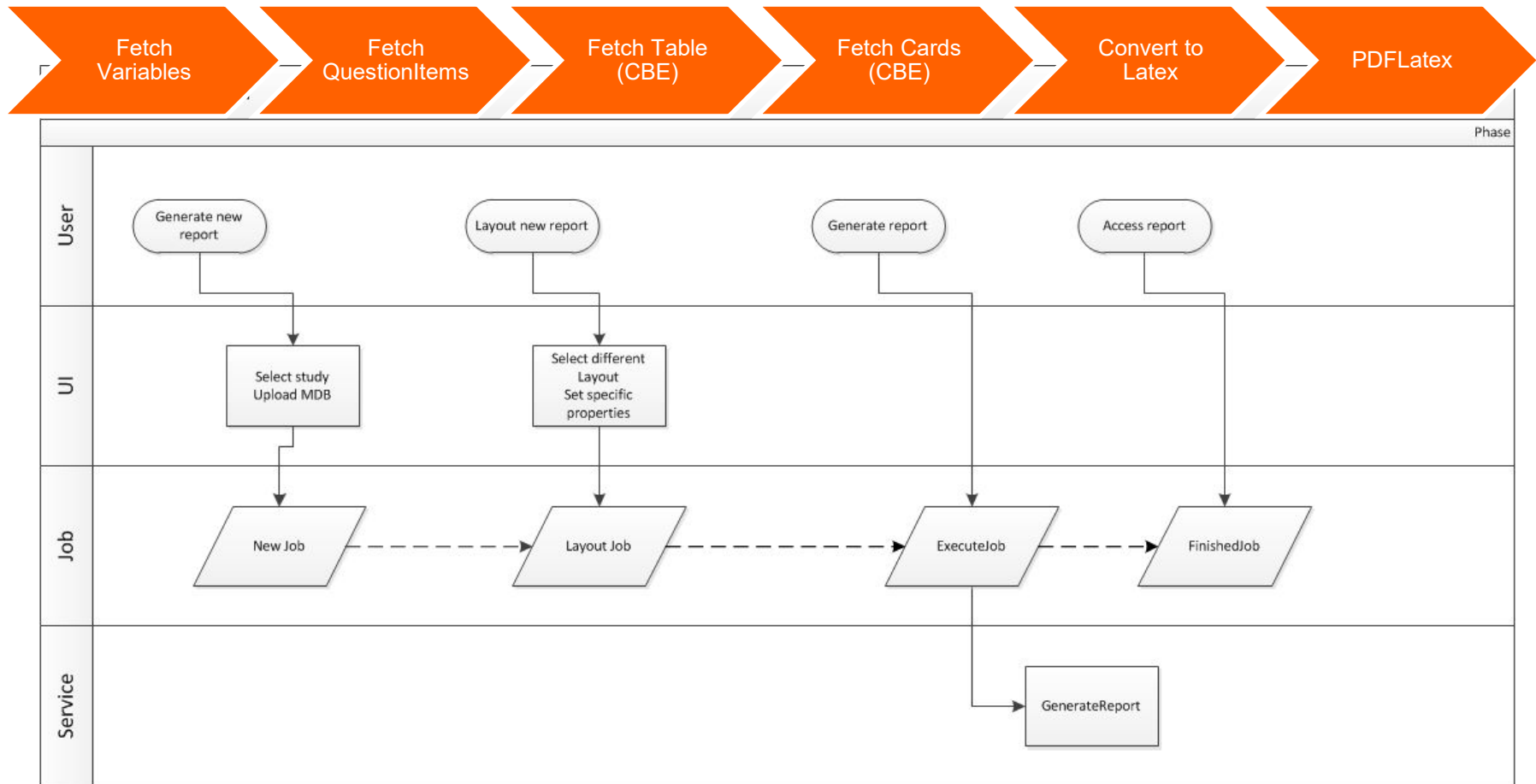
- Show table of contents ☐
- Show table of figures/tables ☐
- show page numbers ☐
- show date ☐
- show GESIS Logo ☒
- Study Title (leave blank to use study title from database):
- Report title:

Include Tables Into Report ☐

© GESIS Imprint | Sitemap | Version: development | Build: development | Branch: development | Commit: developm

Like +279 Follow us on:

Reporting Tool: Workflow



Editor: Studydescription

id	title
Show all	Show all
gesis_ZA0004	International Outlooks of Political Leaders (USA)
gesis_ZA0005	International Outlooks of Political Leaders (Great Britain)
gesis_ZA0006	International Outlooks of Political Leaders (France)
gesis_ZA0007	International Outlooks of Political Leaders (Germany)
gesis_ZA0008	International Outlooks of Political Leaders (Italy)
gesis_ZA0009	International Outlooks of Political Leaders (India)
gesis_ZA0010	International Outlooks of Political Leaders (Japan)
gesis_ZA0011	Die Parteien und ihre Führung
gesis_ZA0012	Ausgangssituation zur Bundestagswahl 1961
gesis_ZA0013	Ausgangssituation zur Landtagswahl in Nordrhein-Westfalen 1962
gesis_ZA0014	Regionale Wahluntersuchung (Heilbronn)
gesis_ZA0015	Regionale Wahluntersuchung (Böblingen)
gesis_ZA0016	Politiker und Währung
gesis_ZA0017	Einstellung zur Demokratie in der Bundeswehr
gesis_ZA0018	Einstellung zur Wehrbereitschaft und Demokratie

[Studiendaten](#)
[Creator](#)
[Inhalt](#)
[Anderes Material](#)

Id

ZA0015_SU

Language

null

Publication Year

01.01.63

Publisher

GESIS - Leibniz Institut für Sozialwissenschaften

Title

Regionale Wahluntersuchung (Böblingen)

Type

StudyUnit

User Id

ZA0015

User Id Type

DBK Study Number

Ändern

Editor: Other content

id	title	Studiendaten	Creator	Inhalt	Anderes Material
Show all	Show all				
gesis_ZA3940	Eurobarometer 60.3 (Nov-Dec 2003)				
gesis_ZA3946	Polish General Social Survey 1992-1999				
gesis_ZA3950	International Social Survey Programme: Citizenship - ISSP 2004				
gesis_ZA3951	BdB-Jugendstudie 2003: Wirtschaftsverständnis und Finanzkultur (I)				
gesis_ZA3952	BdB-Jugendstudie 2003: Wirtschaftsverständnis und Finanzkultur (I)				
gesis_ZA3953	Bürgerschaftswahl in Bremen 2003				
gesis_ZA3954	Zur politischen Lage in Bayern im September 2003				
gesis_ZA3955	Landtagswahl in Bayern 2003				
gesis_ZA3956	Portuguese National Election Study 2002 - Portuguese CSES-Study				
gesis_ZA3957	Geringfügige Beschäftigung und Nebenerwerbstätigkeiten 2001/2002				
gesis_ZA3960	Die Bulgarische Sicherheitspolitik 1999				
gesis_ZA3961	Die Bulgarische Sicherheitspolitik 2000				
gesis_ZA3962	Die Bulgarische Sicherheitspolitik 2001				
gesis_ZA3963	Die öffentliche Wahrnehmung ethnischer Beziehungen in Bulgarien				

Type	External URL Reference	Id	Content
OtherMaterial		ZA3950_OthMat5730	Carton, A.; Van Geel, H.; De Pelsemaeker, S.: Basisdocumentatie: Sociaal-cultu
OtherMaterial		ZA3950_OthMat5729	Gibson, R. et al.: The Australian Survey of Social Attitudes, 2005 (computer f
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=10654	ZA3950_OthMat_File10654	https://dbk.gesis.org/dbksearch/download.asp?id=10654 https://dbk.gesis.org/dbksearch/download.asp?id=10654
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=10655	ZA3950_OthMat_File10655	https://dbk.gesis.org/dbksearch/download.asp?id=10655 https://dbk.gesis.org/dbksearch/download.asp?id=10655
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=10656	ZA3950_OthMat_File10656	https://dbk.gesis.org/dbksearch/download.asp?id=10656 https://dbk.gesis.org/dbksearch/download.asp?id=10656
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=10657	ZA3950_OthMat_File10657	https://dbk.gesis.org/dbksearch/download.asp?id=10657 https://dbk.gesis.org/dbksearch/download.asp?id=10657
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=10658	ZA3950_OthMat_File10658	https://dbk.gesis.org/dbksearch/download.asp?id=10658 https://dbk.gesis.org/dbksearch/download.asp?id=10658
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=10659	ZA3950_OthMat_File10659	https://dbk.gesis.org/dbksearch/download.asp?id=10659 https://dbk.gesis.org/dbksearch/download.asp?id=10659
OtherMaterial	https://dbk.gesis.org/dbksearch/download.asp?id=13136	ZA3950_OthMat_File13136	https://dbk.gesis.org/dbksearch/download.asp?id=13136 https://dbk.gesis.org/dbksearch/download.asp?id=13136

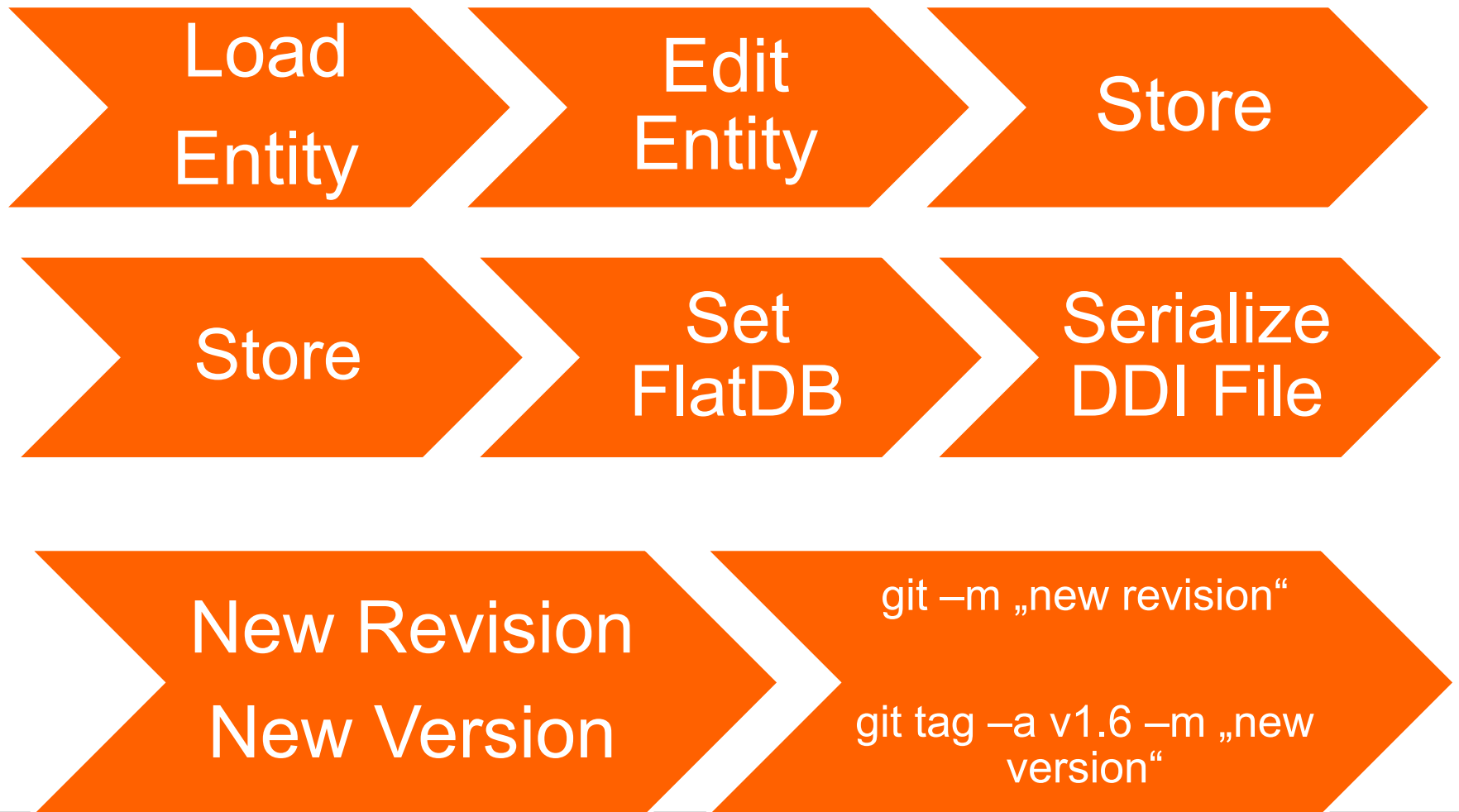
☒ Neuer Eintrag

Editor: Creator

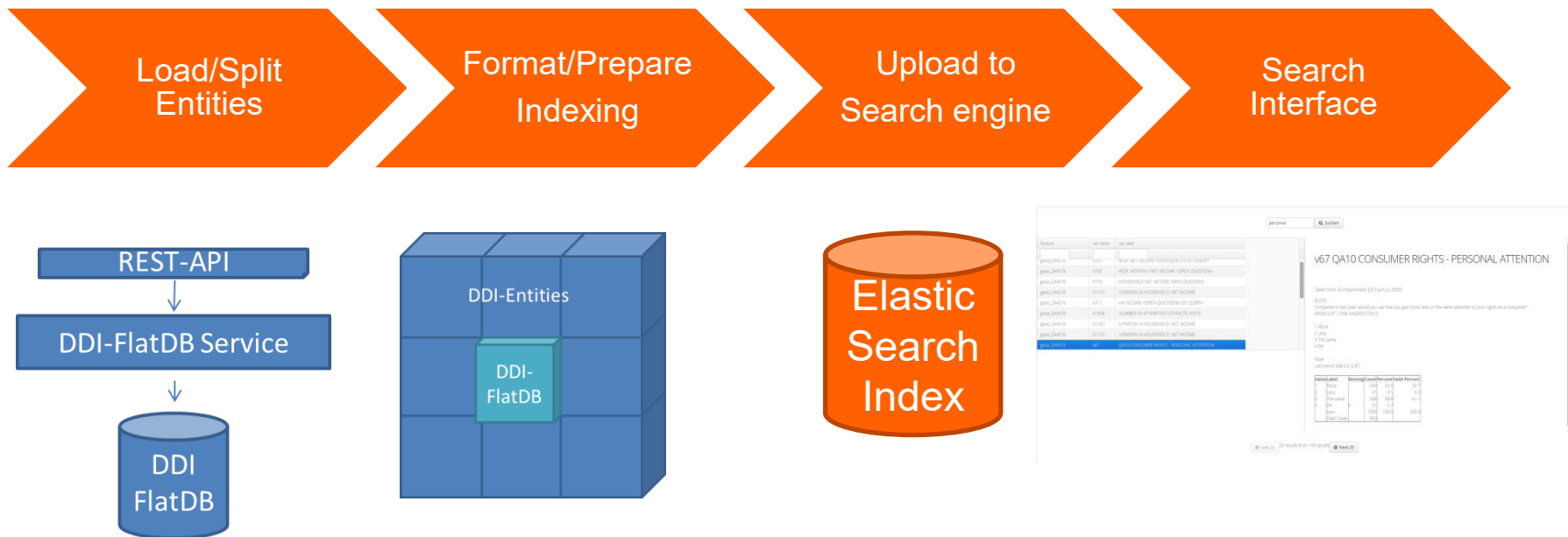
id	title	Studiendaten Creator Inhalt Anderes Material		
Show all	Show all	Name	Affiliation	Content
gesis_ZA3975	Jugendliche und junge Erwachsene in Deutschland 1999	McKinsey & Company, Düsseldorf		
gesis_ZA3976	Jugendliche und junge Erwachsene in Deutschland 2002	Stern, Hamburg		
gesis_ZA3977	Applicant Countries Eurobarometer 00 (pilot study)	Zweites Deutsches Fernsehen (ZDF), Mainz		
gesis_ZA3978	Candidate Countries Eurobarometer 2001.1	AOL, Hamburg		
gesis_ZA3979	Candidate Countries Eurobarometer 2002.2			
gesis_ZA3982	Candidate Countries Eurobarometer 2003.1 YouthOVR (Youth in N			
gesis_ZA3983	Candidate Countries Eurobarometer 2003.2			
gesis_ZA3984	Candidate Countries Eurobarometer 2003.3			
gesis_ZA3986	Candidate Countries Eurobarometer 2003.4			
gesis_ZA3988	Perspektive Deutschland 2002 (Release 2)			
gesis_ZA3989	Perspektive Deutschland 2003 (Release 2)			
gesis_ZA3990	Bürgerschaftswahl in Hamburg 2004			
gesis_ZA3991	Landtagswahl in Thüringen 2004			
gesis_ZA3992	Landtagswahl in Brandenburg 2004			
gesis_ZA3993	Landtagswahl im Saarland 2004			

id	title
Show all	Show all
gis_ZA3940	Eurobarometer 60.3 (Nov-Dec 2003)
gis_ZA3946	Polish General Social Survey 1992-1999
gis_ZA3950	International Social Survey Programme: Citizenship - ISSP 2004
gis_ZA3951	BdB-Jugendstudie 2003: Wirtschaftsverständnis und Finanzkultur (I)
gis_ZA3952	BdB-Jugendstudie 2003: Wirtschaftsverständnis und Finanzkultur (II)
gis_ZA3953	Bürgerschaftswahl in Bremen 2003
gis_ZA3954	Zur politischen Lage in Bayern im September 2003
gis_ZA3955	Landtagswahl in Bayern 2003
gis_ZA3956	Portuguese National Election Study 2002 - Portuguese CSES-Study
gis_ZA3957	Geringfügige Beschäftigung und Nebenerwerbstätigkeiten 2001/2002
gis_ZA3960	Die Bulgarische Sicherheitspolitik 1999
gis_ZA3961	Die Bulgarische Sicherheitspolitik 2000
gis_ZA3962	Die Bulgarische Sicherheitspolitik 2001
gis_ZA3963	Die öffentliche Wahrnehmung ethnischer Beziehungen in Bulgarien

Editor: Edit and Store



Question & Variable Search



Variable Search

personal

Suchen

Study Id	Var Name	Var Label
gesis_ZA4576	V707	RESP.:NET INCOME <OPEN QUEST+LIST QUERY>
gesis_ZA4576	V705	RESP: MONTHLY NET INCOME <OPEN QUESTION>
gesis_ZA4576	V710	HOUSEHOLD NET INCOME: OPEN QUESTION
gesis_ZA4576	V1127	2.PERSON IN HOUSEHOLD: NET INCOME
gesis_ZA4576	V712	HH INCOME <OPEN QUESTION+LIST QUERY>
gesis_ZA4576	V1558	NUMBER OF ATTEMPTED CONTACTS, VISITS
gesis_ZA4576	V1167	6.PERSON IN HOUSEHOLD: NET INCOME
gesis_ZA4576	V1137	3.PERSON IN HOUSEHOLD: NET INCOME
gesis_ZA4412	v67	QA10 CONSUMER RIGHTS - PERSONAL ATTENTION

v67 QA10 CONSUMER RIGHTS - PERSONAL ATTENTION

Taken from: Eurobarometer 63.5 (Jun-Jul 2005)

Q.A10

Compared to last year, would you say that you give more, less or the same attention to your rights as a consumer?
(READ OUT - ONE ANSWER ONLY)

- 1 More
- 2 Less
- 3 The same
- 4 DK

Note:

Last trend: EB63.3, Q.B7

Value	Label	Missing	Count	Percent	Valid Percent
1	More		334	33.4	34.7
2	Less		41	4.1	4.3
3	The same		588	58.8	61.1
4	DK	X	37	3.7	
	Sum		1000	100.0	100.0
	Valid Cases		963		

⊖ Last 20

20 results from 199 results

⊕ Next 20

Summary

- Up to now architecture holds
 - Can be adapted, if functional requirement comes up
- Overcomes DDI formats and dialects