

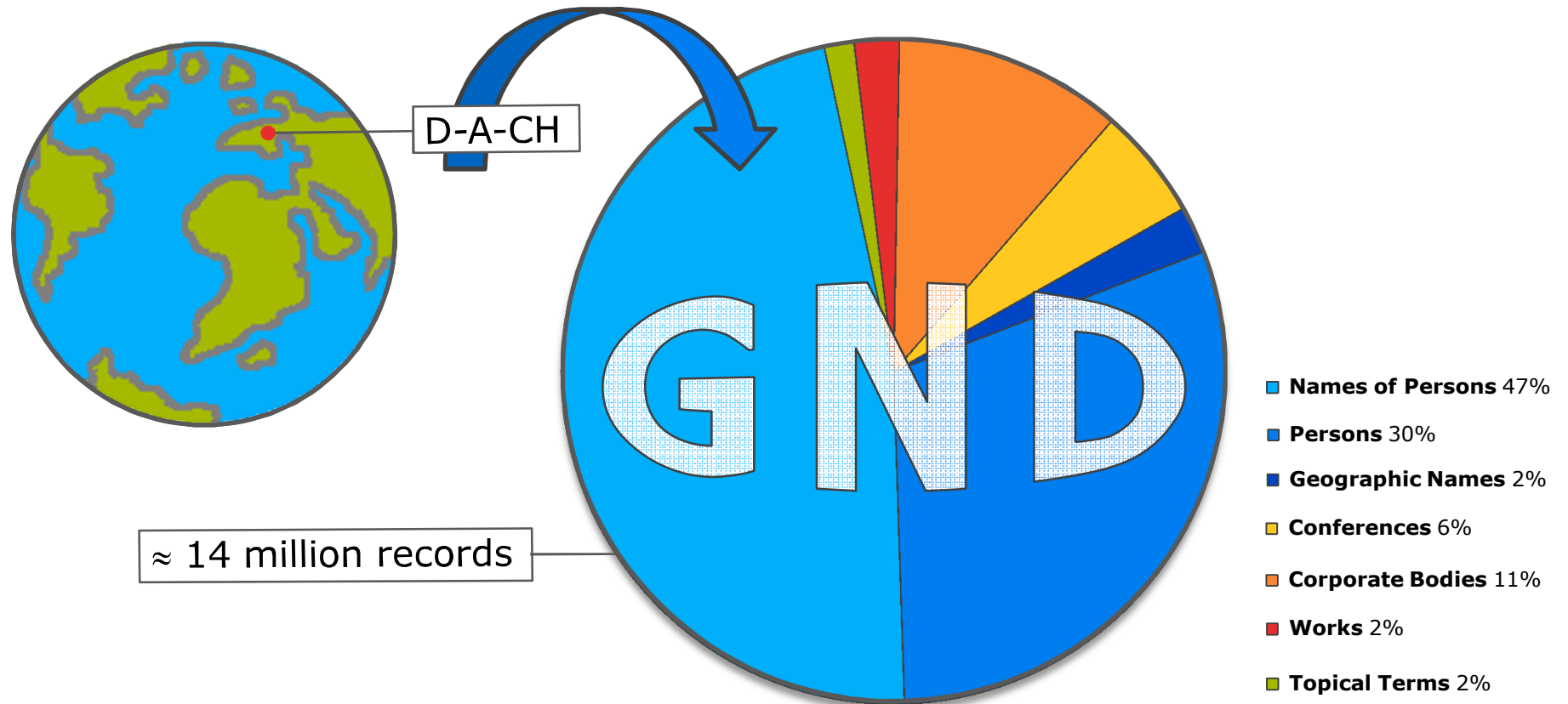
Daniela Trunk

Authority Control in the German Speaking Countries: The Integrated Authority File (GND)

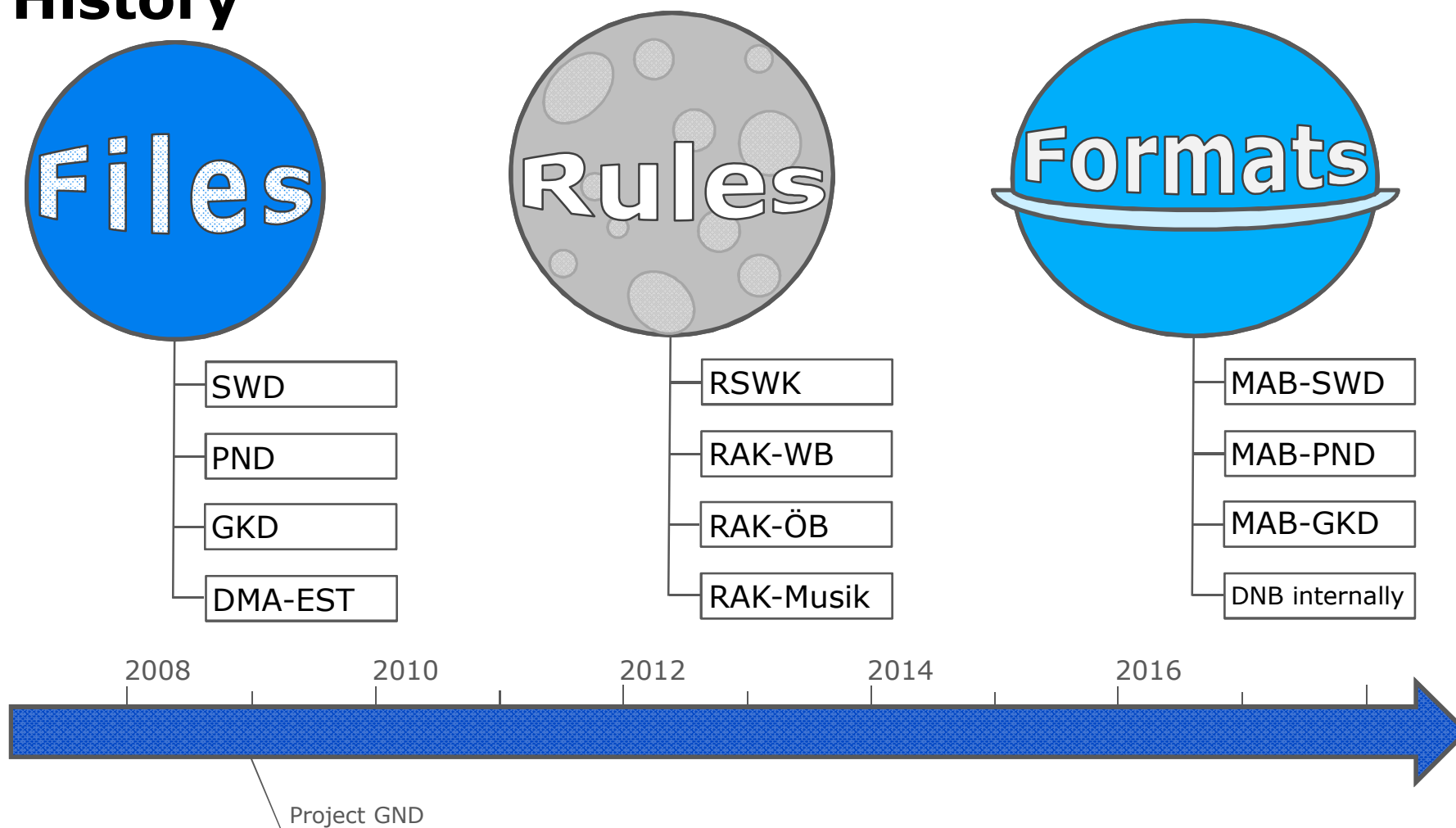
Table of Contents

- 1. History and Integration**
- 2. Data Model and Data Format**
- 3. Committee Work on MARC 21**
- 4. Organisation and Interfaces**
- 5. Opening up to Museums and Archives**
- 6. Example**

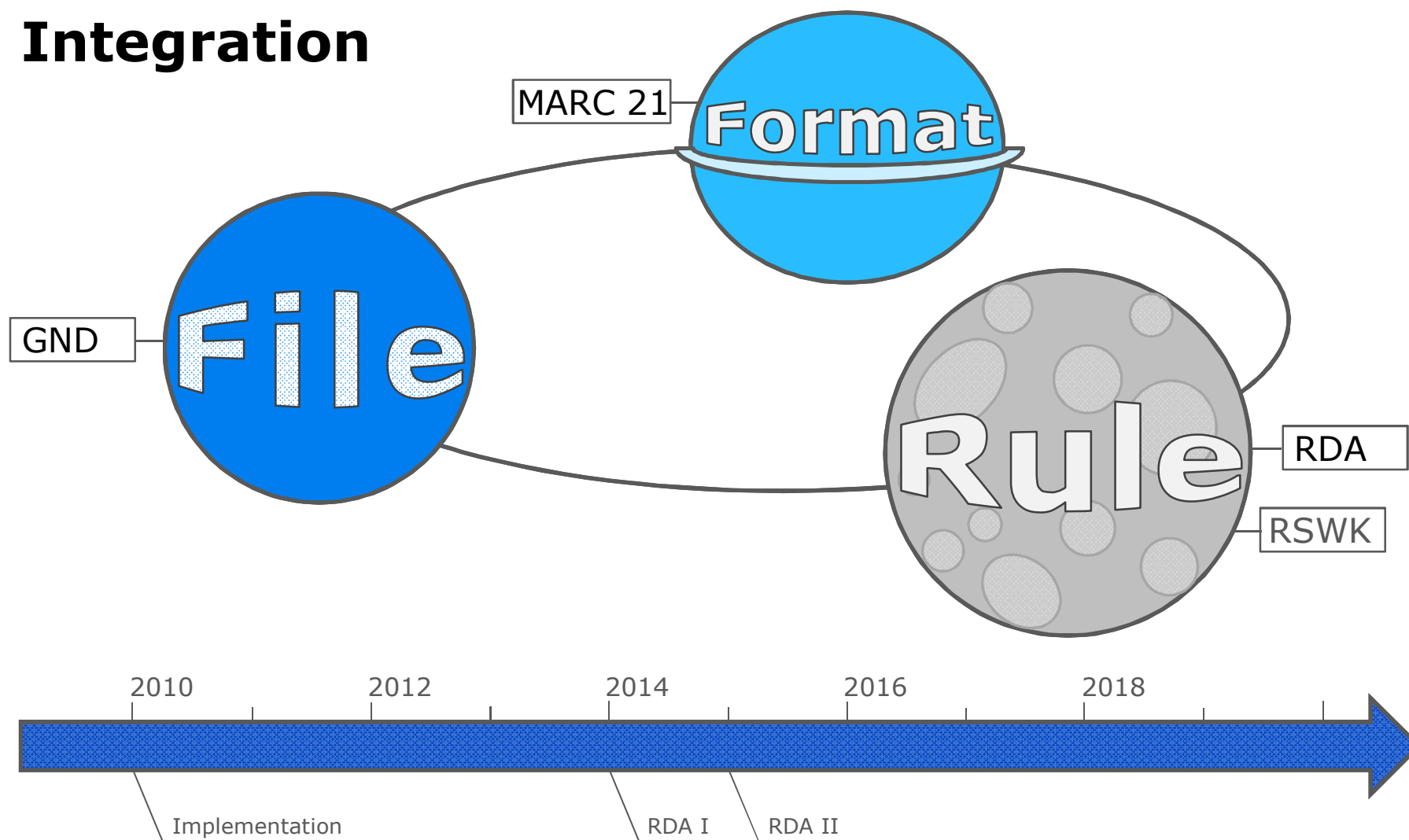
The Integrated Authority File = Gemeinsame Normdatei (GND)



History



Integration

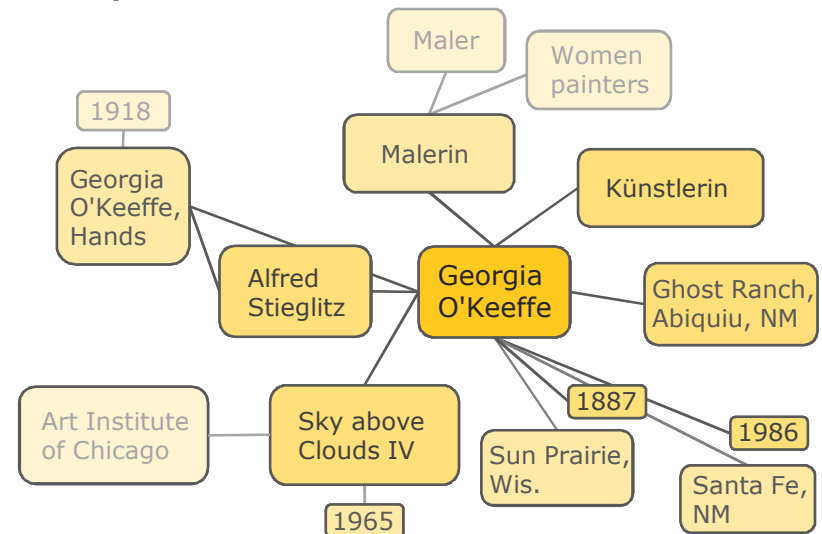


Data Model

Entity Relationship Model

- Each record describes one entity and has got an unique identifier (⇒ basis for URIs)
- Entities have attributes and relationships to other entities
- Relations are designated by codes
- Modular data structure

➔ Semantic Network



Data Format

Kind of Content

0XX Numbers, Codes

1XX Preferred Names

3XX RDA Attributes

4XX Variant Names

5XX Relationships + Code

6XX Notes

7XX Other Authority Files

9XX Local Fields

Type of Entity

+ GND Entity Code

X00 Person, Family

X00 Name

X10 Corporate Body

X11 Conference

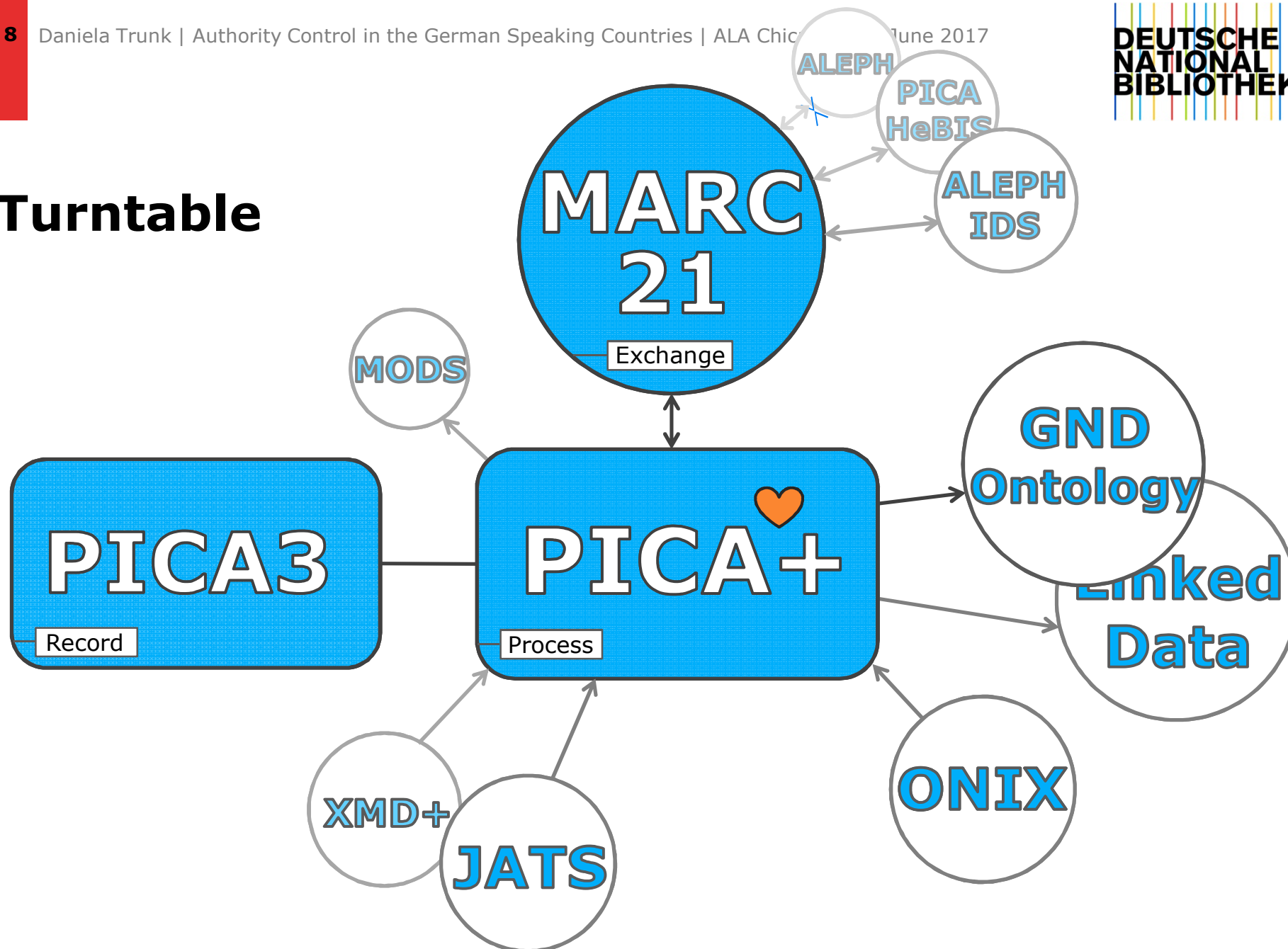
X30 Work

X50 Topical Term

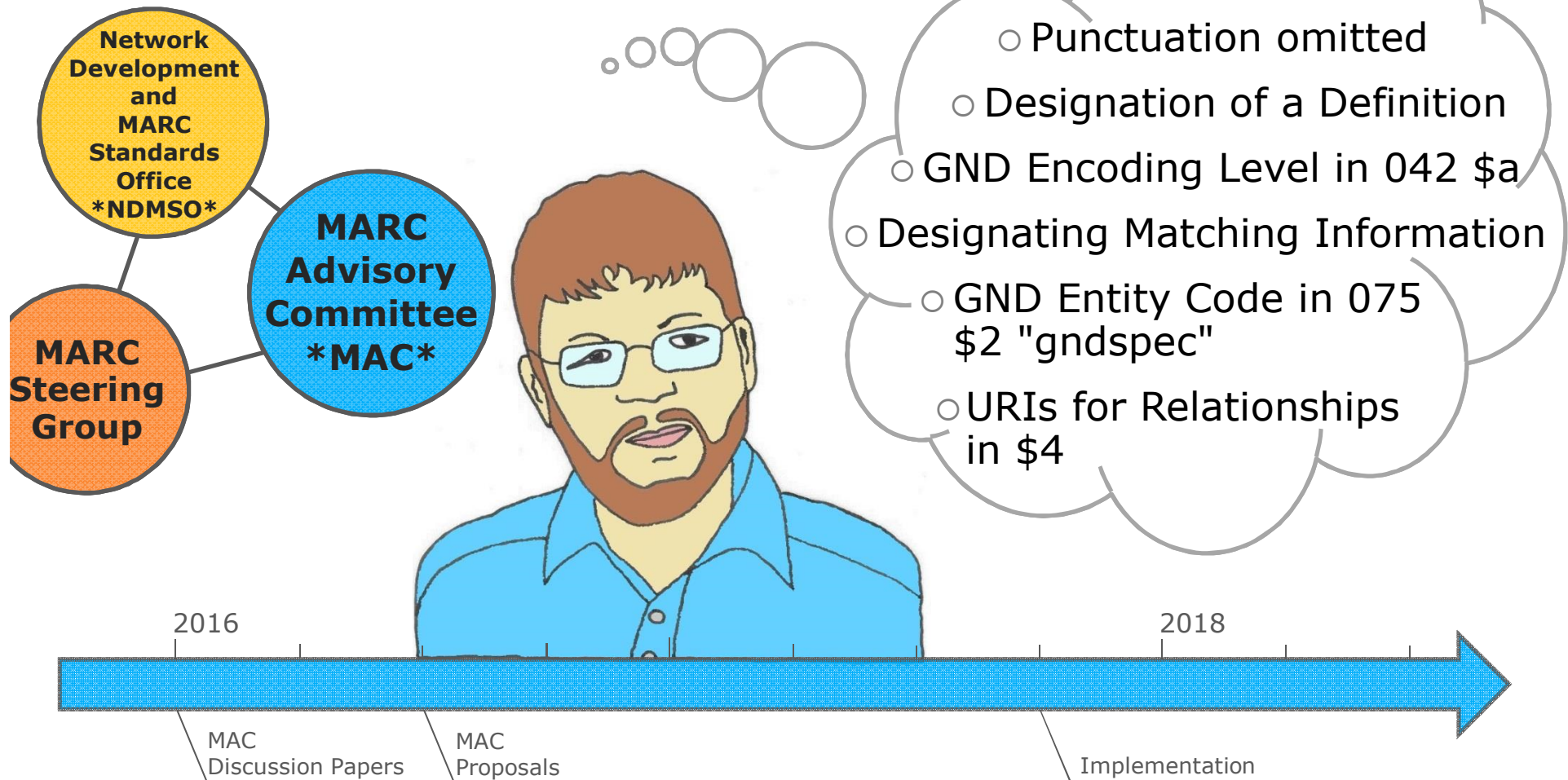
X51 Geographic Entity

X48 Date

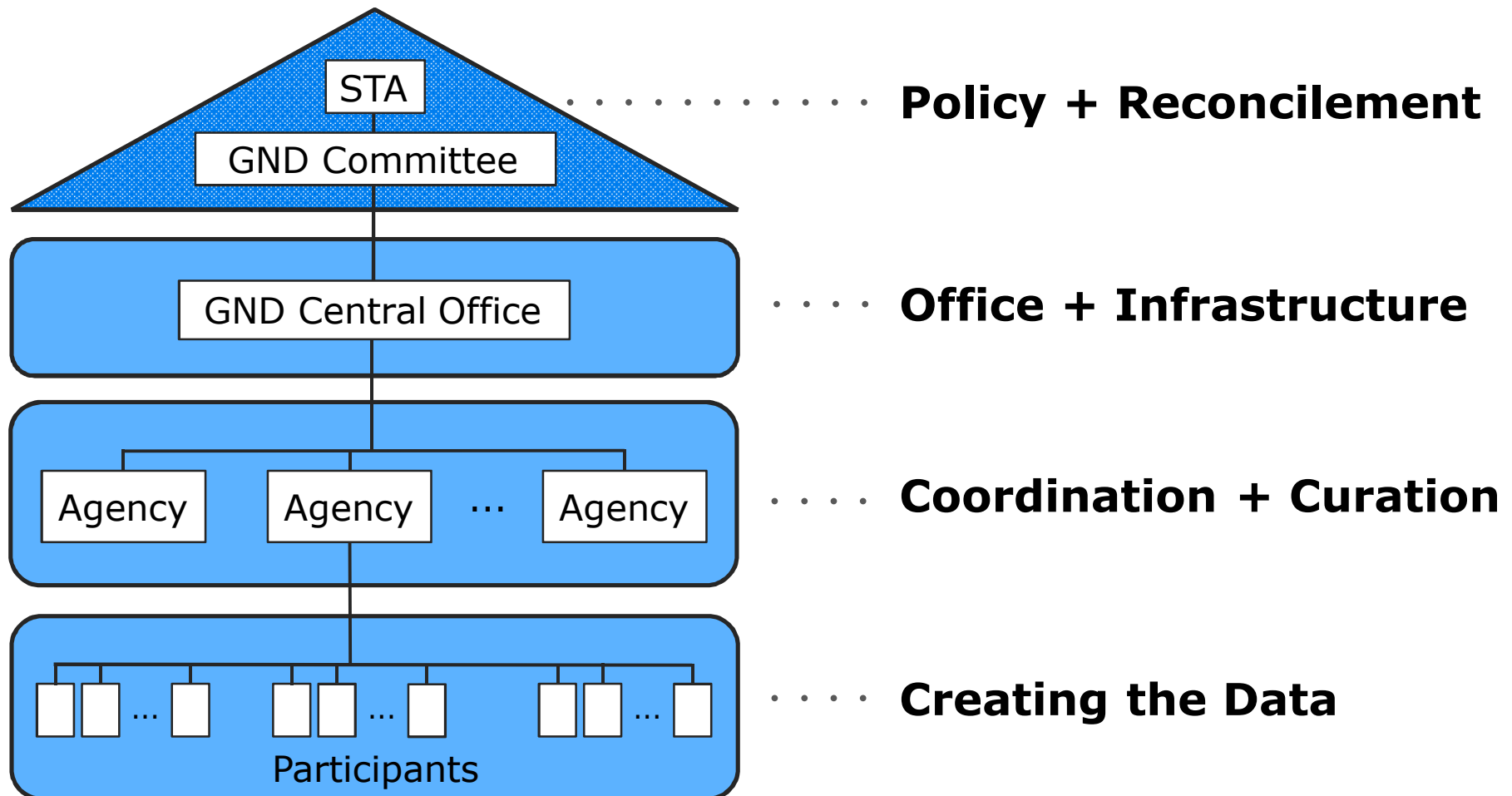
Turntable



Committee Work on MARC 21



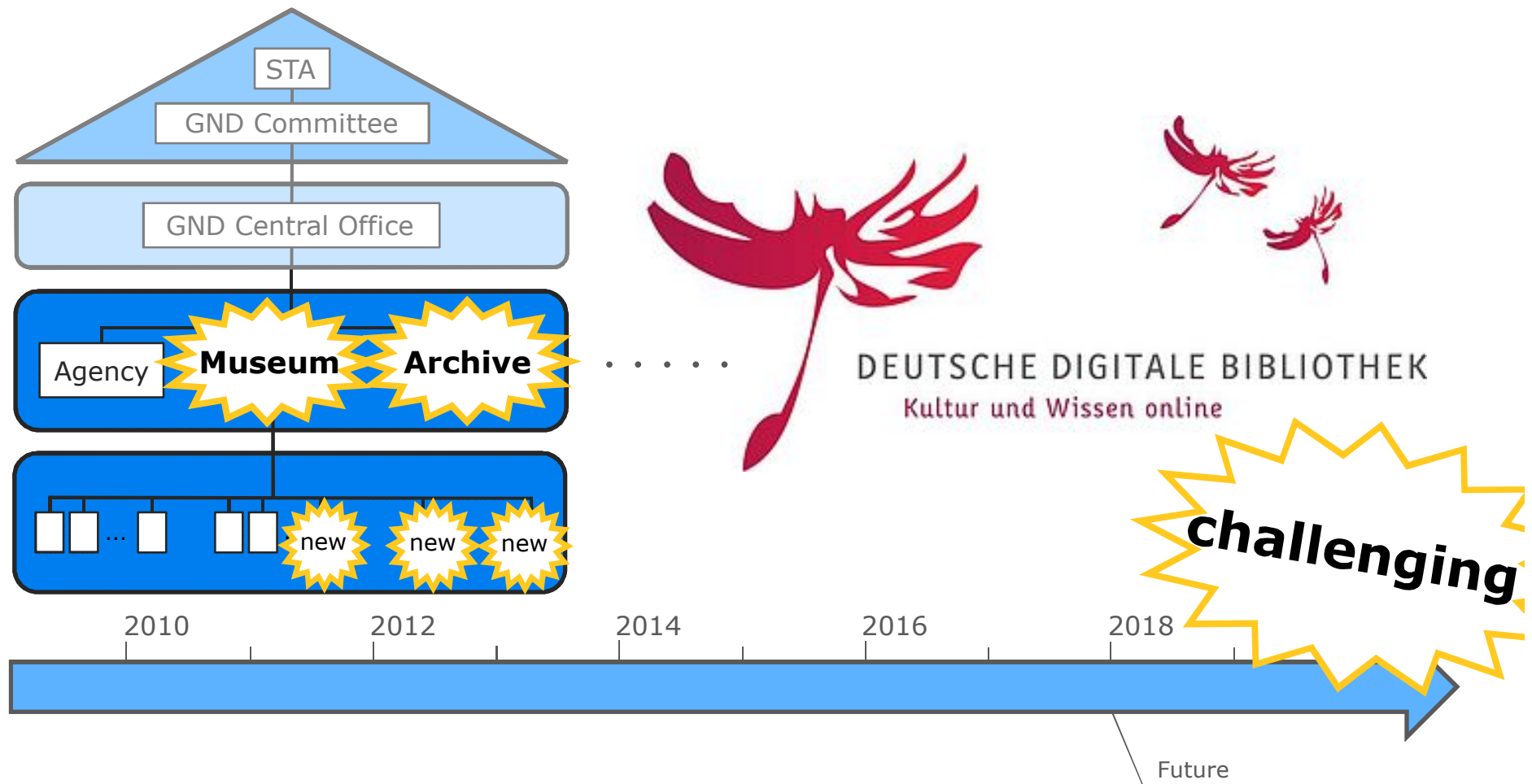
Organisation



Interfaces

GND  	PICA	MARC 21 XML	RDF XML	Turtle	JSON	
DNB OPAC		•	•			passive
Data Service FTP		•	•	•		
OAI-PMH		•	•			
SRU		•	•			
Linked Data Service			•	•	•	
Entity Facts					•	active
Cataloguing Client	•					
API SRU Record Update		•				
API Webcat	•					

Opening up to Museums and Archives



Example PICA3

0501 Text\$btxt
0501 unbewegtes Bild\$bsti
0502 ohne Hilfesmittel zu benutzen\$bn
0503 Band\$bnc
1100 2016
1131 !041453956!Bildband
1505 \$erda
3010 !118736140!O'Keeffe, Georgia\$BKünstler\$4art
3010 !11920133X!Loengard, John\$BFotograf\$4pht
3010 !121205592!Schirmer, Lothar\$BHerausgeber\$4edt
3195 !007507763!Schirmer/Mosel Verlag
4000 Paintings & photographs : a visit to Abiquiu and Ghost Ranch / Georgia O'Keeffe/John Loengard ; edited and compiled by Lothar Schirmer
4030 München : Schirmer/Mosel
5100 !118736140!O'Keeffe, Georgia
5101 !040372200!Malerei
5102 :z Geschichte 1931-1972
5400 [DDC22ger]759.13

005 Tp1
006 http://d-nb.info/gnd/118736140
008 piz
040 \$erda
100 O'Keeffe, Georgia
500 !118798847!Stieglitz, Alfred\$4bezf
 \$vEhemann
548 1887\$b1986\$4datl
550 !040372235!Malerin\$4berc
551 !050266128!Sun Prairie, Wis.\$4ortg
551 !041241150!Santa Fe, NM\$4orts

005 Tu1
006 http://d-nb.info/gnd/1133051995
008 wit
040 \$erda
130 Sky above Clouds IV
500 !118736140!O'Keeffe, Georgia\$4kue1
510 !004027094!Art Institute of Chicago\$4besi
548 \$c1965\$4dats

005 Tg1
006 http://d-nb.info/gnd/1030140693
008 gib
040 \$erda
151 Ghost Ranch\$gAbiquiu, NM
500 !118736140!O'Keeffe, Georgia\$4befr
510 !952921197!Georgia O'Keeffe Museum\$4besi
551 !94619887X!Abiquiu, NM\$4orta\$X1

Example MARC 21

040 ## \$a1245\$bger\$cDE-101\$d9999\$erda
 245 00 \$aPaintings & photographs\$b a visit to Abiquiu and
 Ghost Ranch\$c Georgia O'Keeffe/John Loengard ;
 edited and compiled by Lothar Schirmer
 264 1# \$aMünchen\$b Schirmer/Mosel
 655 7# \$0(DE-588)4145395-5
 \$0(DE-101)041453956
 \$0http://d-nb.info/gnd/4145395-5
 \$aBildband\$2gnd-content
 689 00 \$0(DE-588)118736140
 \$0(DE-101)118736140
 \$0http://d-nb.info/gnd/118736140
 \$Dp\$aO'Keeffe, Georgia\$d1887-1986
 689 01 \$0(DE-588)4037220-0
 \$0(DE-101)040372200
 \$0http://d-nb.info/gnd/4037220-0
 \$Ds\$aMalerei
 689 02 \$Az\$aGeschichte 1931-1972
 700 1# \$0(DE-588)118736140
 \$0(DE-101)118736140
 \$0http://d-nb.info/gnd/118736140
 \$aO'Keeffe, Georgia\$d1887-1986
 \$eKünstler\$4art

024 7# \$ahttp://d-nb.info/gnd/118736140\$2uri
 040 ## \$aDE-101\$erda
 042 ## \$agnd1
 075 ## \$bp\$2gndgen
 075 ## \$bpiz\$2gndspec
 100 1# \$aO'Keeffe, Georgia\$d1887-1986
 500 1# \$0(DE-101)118798847
 \$0(DE-588)118798847
 \$0http://d-nb.info/gnd/118798847
 \$aStieglitz, Alfred\$d1864-1946
 \$4bezf
 \$4http://d-nb.info/standards/elementset/
 gnd#familialRelationship
 \$wr
 \$iBeziehung familiaer
 \$eBeziehung familiaer
 \$9v:Ehemann

024 7# \$ahttp://d-nb.info/gnd/1266913092\$2uri
 040 ## \$aDE-101\$erda
 042 ## \$agnd1
 075 ## \$bu\$2gndgen
 075 ## \$bwit\$2gndspec
 100 1# \$aO'Keeffe, Georgia\$d1887-1986
 \$tSky above Clouds IV
 500 1# \$0(DE-101)118736140
 \$0(DE-588)118736140
 \$0http://d-nb.info/gnd/118736140
 \$aO'Keeffe, Georgia\$d1887-1986
 \$4kue1
 \$4http://d-nb.info/standards/elementset/
 gnd#firstArtist

Example DNB OPAC

<http://d-nb.info/gnd/118736140>

Link zu diesem Datensatz	http://d-nb.info/gnd/118736140
Person	O'Keeffe, Georgia
Geschlecht	weiblich
Andere Namen	Stieglitz, Georgia O. O'Keeffe, Georgia Tutto Stieglitz, Georgia O'Keeffe OKifu, Jōjia
Quelle	LoC-NA gegen M, M 15, Kompakt B
Zeit	Lebensdaten: 1887-1986
Land	USA (XD-US)
Geografischer Bezug	Geburtsort: Sun Prairie, Wis. Sterbeort: Santa Fe, NM
Beruf(e)	Künstlerin Malerin
Weitere Angaben	Malerin, USA
Beziehungen zu Personen	Stieglitz, Alfred (Ehemann)
Systematik	13.4p Personen zu Malerei, Zeichnung, Grafik
Typ	Person (piz)
Autor von	6 Publikationen 1. <i>Georgia O'Keeffe</i>

Example RDF (Turtle)

<http://d-nb.info/gnd/118736140/about/lds>

```
@prefix gndo: <http://d-nb.info/standards/elementset/gnd#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .

<http://d-nb.info/gnd/118736140> a gndo:DifferentiatedPerson ;
foaf:page <http://de.wikipedia.org/wiki/Georgia\_O%25E2%2580%2599Keeffe> ;
owl:sameAs <http://dbpedia.org/resource/Georgia\_O'Keeffe> ,
    <http://viaf.org/viaf/32021794> ;
gndo:gndIdentifier "118736140" ;
gndo:variantNameForThePerson "Stieglitz, Georgia O." ;
gndo:professionOrOccupation <http://d-nb.info/gnd/4033430-2> ,
    <http://d-nb.info/gnd/4037223-6> ;
gndo:gndSubjectCategory <http://d-nb.info/standards/vocab/gnd/gnd-sc#13.4p> ;
gndo:placeOfBirth <http://d-nb.info/gnd/5026612-3> ;
gndo:placeOfDeath <http://d-nb.info/gnd/4124115-0> ;
gndo:dateOfBirth "1887-11-15"^^<http://www.w3.org/2001/XMLSchema#date> ;
gndo:dateOfDeath "1986-03-06"^^<http://www.w3.org/2001/XMLSchema#date> .
```

Example based on Entity Facts

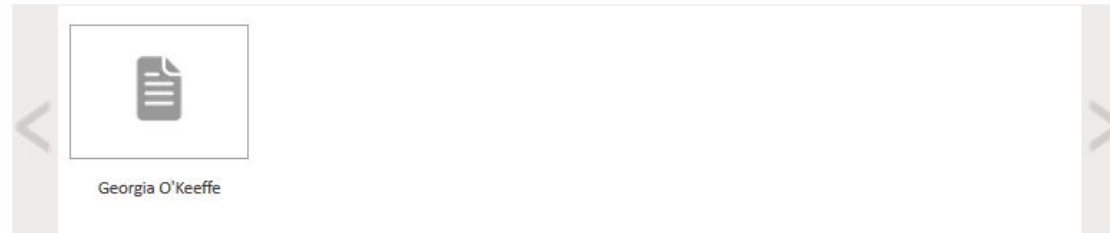
Georgia O'Keeffe

Künstlerin, Malerin

Born: November 15, 1887, Sun Prairie, Wis.

Died: March 6, 1986, Santa Fe, NM

Objects: ?



[All Pictures \(1\)](#)

Involved in:

→ O'Keeffe's O'Keeffes : die Sammlung der Künstlerin ; [dieses Buch erschien anlässlich der gleichnamigen Ausstellung des Milwaukee Art Museum und des Georgia O'Keeffe Museum, Santa Fe, in Milwaukee...

Lynes, Barbara Buhler ; Bowman, Russell ; O'Keeffe, Georgia ; Illetschko, Georgia. - München ; London ; New York : Prestel, 2002

→ Georgia O'Keeffe : 1887 - 1986 ; Blumen in der Wüste

Benke, Britta ; O'Keeffe, Georgia. - Köln : Taschen, 2011

→ Georgia O'Keeffe : Leben und Werk ; [anlässlich der Ausstellung in München: Georgia O'Keeffe - Leben und Werk ; München, Kunsthalle der Hypo-Kulturstiftung: 3. Februar - 13. Mai 2012 ; eine...

O'Keeffe, Georgia ; Lynes, Barbara Buhler ; Lange, Christiane ; Gallen-Kallela-Sirén, Janne ; Greenough, Sarah ; Troyen, Carol. - München : Hirmer, 2012

→ Georgia O'Keeffe : [dieser Katalog begleitet die Ausstellung "Georgia O'Keeffe", Kunsthaus Zürich, 24. Oktober 2003 bis 1. Februar 2004]

Curiger, Bice ; Ratcliff, Carter ; Schneemann, Peter Johannes ; Wetter, Trix ; O'Keeffe, Georgia. - Ostfildern-Ruit : Hatje Cantz, 2003

[All Objects \(7\)](#)



Georgia O'Keeffe

Source: [Wikimedia Commons](#)

Information regarding the license status of embedded media files (e.g., images or videos) may be retrieved by clicking the respective file.

Search:

["Georgia O'Keeffe" in the DDB](#)

External links:

[NACO Authority File](#)

[Virtual International Authority File \(VIAF\)](#)

[International Standard Name Identifier \(ISNI\)](#)

[Wikipedia \(Deutsch\)](#)

<https://www.deutsche-digitale-bibliothek.de/entity/118736140>

Links

- GND
<http://www.dnb.de/EN/gnd>
- MARC 21 in the German National Library
<http://www.dnb.de/EN/marc21>
- GND Ontology
<http://d-nb.info/standards/elementset/gnd#>
- Homepage of the German National Library
<http://www.dnb.de>

Abbreviations

Files

- **DMA-EST** – Einheitssachtitel des Deutschen Musikarchivs / Uniform Titles of the German Music Archive
- **GKD** – Gemeinsame Körperschaftsdatei / Corporate Bodies Authority File
- **GND** – Gemeinsame Normdatei / Integrated Authority File
- **PND** – Personennamendatei / Name Authority File
- **SWD** – Schlagwortnormdatei / Subject Headings Authority File

Format

- **MAB** – Maschinelles Austauschformat für Bibliotheken / Machine-readable Exchange Format for Libraries

Rules

- **RAK-Musik** – Regeln für die alphabetische Katalogisierung von Ausgaben musikalischer Werke / Cataloguing Rules for Musical Works
- **RAK-ÖB** – ... in öffentlichen Bibliotheken / Cataloguing Rules for Public Libraries
- **RAK-WB** – ... in wissenschaftlichen Bibliotheken / Cataloguing Rules for Academic Libraries
- **RSWK** – Regeln für die Schlagwortkatalogisierung / Rules for the Keyword Catalogue

Institutions

- **D-A-CH** – Deutschland, Österreich (lat. Austria), Schweiz (lat. Confoederatio Helvetica) / Germany, Austria, Switzerland
- **DNB** – Deutsche Nationalbibliothek / German National Library
- **STA** – Standardisierungsausschuss / Committee for Library Standards



Thank you

d.trunk@dnb.de