Linked Data Uses in the German Digital Library

Europeana Data Model,
Gemeinsame Normdatei
and other challenges

19th Fiesole Collection Development Retreat

Université de Lille, April 19th, 2017

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Project Coordination

https:// https://w

DEUTSCHE NATIONAL BIBLIOTHEK

DEUTSCHE DIGITALE BIBLIOTHEK
Das Netzwerk für
Kultur und Wissenschaft

Overview

1. Deutsche Digitale Bibliothek: What's that?

2. The portal of the DDB

   - DDB items
   - DDB person pages

3. Gemeinsame Normdatei (GND) – An integrated authority file

4. Entity Facts – A lightweigh authority data service

Deutsche Digitale Bibliothek: What's that?

Deutsche Digitale Bibliothek (DDB)

1. **The central access portal** to digital cultural objects in Germany (German digital cultural heritage in general)

2. **Platform** for data & services around digital heritage

3. Cooperative **Network**

4. National **Aggregator** for Europeana

Some facts and figures – items
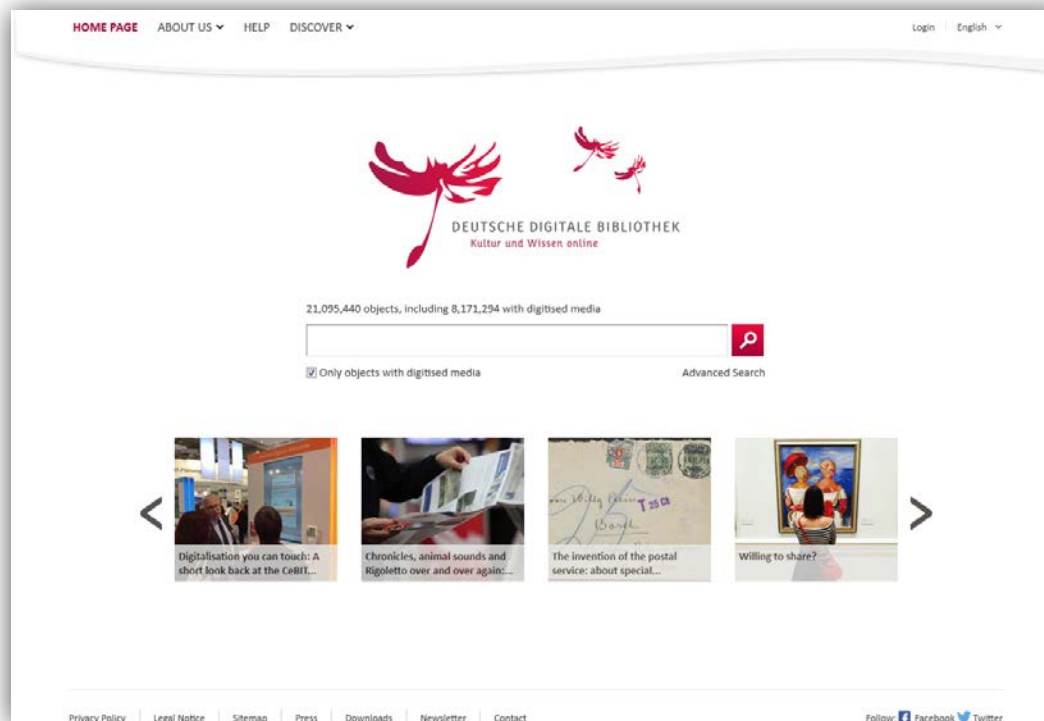
- **ca. 21.2 mio. items**
  - **Archive** 56.07%, **Library** 29.62%, Monument Protection 0.34%, Research 3.00%, Media (AV/Sound archives) 6.12%, Museum 4.84%, Other 0.01%
- ca. 8.3 mio. with digital objects like **images**, **video**, **audio**

https://www.ddb.de/

Some facts and figures – organizations
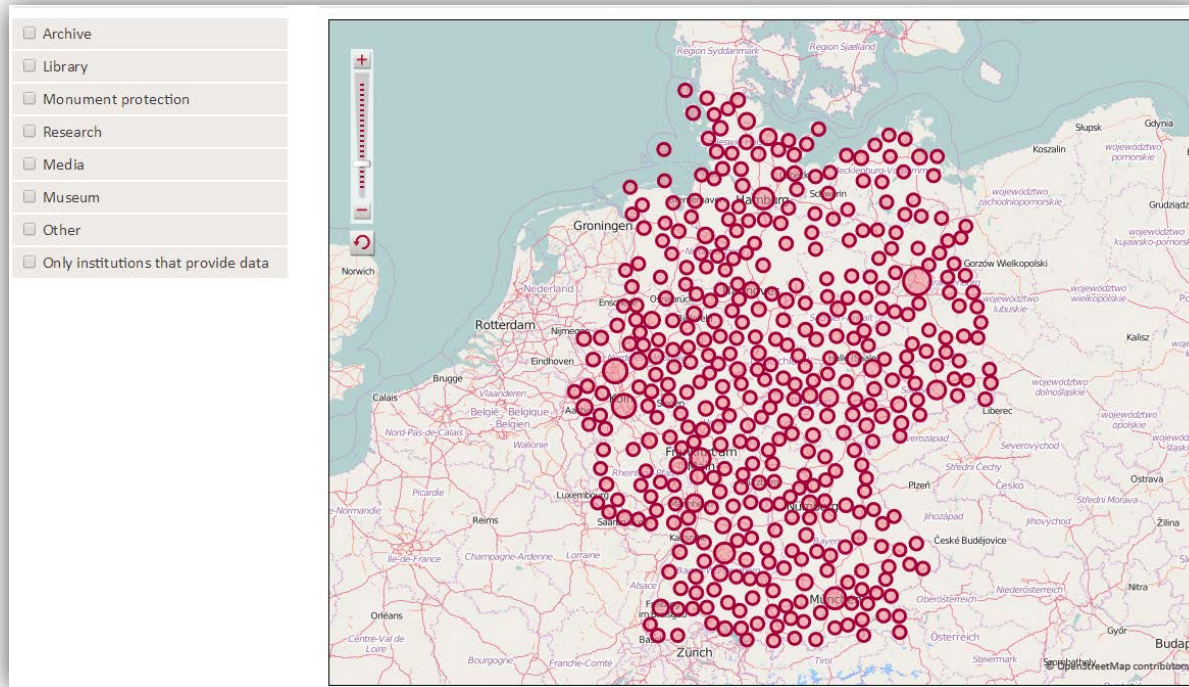
- **4,346 registered organizations**: prospective data providers
- **353 data partners** who already provide data
  - **Archive 33.43%**, Library 9.34%, Monument Protection 1.51%, Research 5.72%, Media 3.92%, **Museum 44.88%**, Other 1.20%

The DDB portal

Search field

Filter facets

Search as

Search results in items

https://www.deutsche-digitale-bibliothek.de/searchresults?query=Lille

Data provider

Institution
→ **Museum für Kunst und Gewerbe Hamburg**
☒ www.mkg-hamburg.de

☒ Data provider's object view

MK&G
MUSEUM FÜR
KUNST UND GEWERBE
HAMBURG

🔗 Link to this page   ⬇ PDF View   CC0-licensed metadata   Digital object   f t g+

Vue de Port

Objekt type:	Fotografie
Material/Technique:	Papier (auf Karton montiert); Gummidruck (in Blaugrün)
Measurements:	Bildmaß: Höhe: 35,40 cm; Breite: 26,00 cm Passepartout (außen): Höhe: 70,00 cm; Breite: 50,00 cm
Event:	Herstellung
(who):	🧑 Dubreuil, Pierre (Fotograf/in)
(where):	Lille
(when):	um 1900
Subject (what):	Meer (Seestück); Segelschiff, Segelboot; Hafen
Inscriptions:	Signatur: monogrammiert Wo: recto u. re. Was: "PD" (ligiert) Signatur: beschriftet Wo: verso o. Was: in schwarzer Tinte: "A. M.M. Hofmeister / Vue de Port / P. Dubreuil", andere Hand: "Geschenk der Herrn Th. u. Oskar Hofmeister / Hamburg 1918" Signatur: Stempel Wo: verso o. Mitte Was: Inventarstempel des MKG, Inventarnummer in Blei ergänzt
Classification:	Landschaftsfotografie (Sachgruppe); Piktorialismus (Stil)
Location:	Museum für Kunst und Gewerbe Hamburg
Inventory number:	AB1988.635
Acknowledgment:	Schenkung Theodor und Oscar Hofmeister 1918 (Creditline)
Collection:	Fotografie und neue Medien
Rights:	gemeinfrei
Legal status: ?	⓪ CC0 1.0 Universell - Public Domain Dedication

Vue de Port

☒ Data provider's object view

Last update: 22.12.2016, 10:55 AM ?

How's that possible? –
Linked Open Data

Which metadata formats do we accept from our data partners?

denkXWeb

Monument Protection

Our delivery formats are...
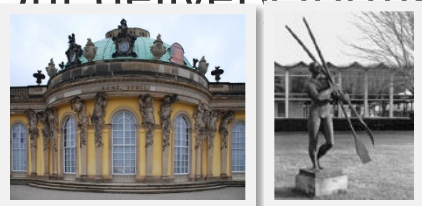
Photo as monument documentation

Dublin Core and ESE based profiles

Media Institutions

Film
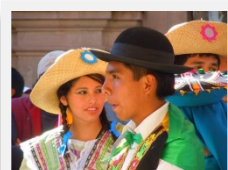
Image
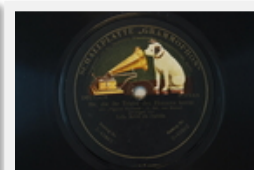
Audio

Libraries

Open access publications

EAD

Archives

Finding aids, files etc.

LIDO

Museums

All kinds of museum objects

Image Institutions

Photos, maps etc.

Research

History of art or sciences, ...

METS/MODS

Libraries

Digitised print works

METS/TEI

Libraries

Handwritings

MARCXML

Libraries

All kinds of library material

```xml
<?xml version="1.0" encoding="UTF-8"?>
```

`<lido:lidoWrap xmlns:lido="http://www.lido-schema.org" xmlns:xalan="http://xml.apache.org/xalan"> <lido:lido> <lido:lidoRecID lido:type="local">DE-`
`<lido:category> <lido:conceptID lido:type="URI" lido:source="GND">http://d-nb.info/gnd/4046902-5</lido:conceptID>`

Metadata Record ID

`<lido:lidoRecID lido:type="local">DE-700/HBP/9640</lido:lidoRecID>`

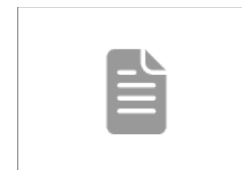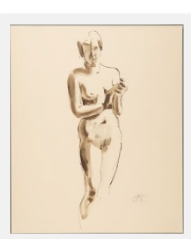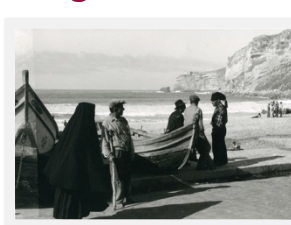`<lido:recordInfoLink>http://www.bildpostkarten.uni-osnabrueck.de/displayimage.php?pos=-9640</lido:recordInfoLink>`

Web Resource URLs

`<lido:linkResource>http://www.bildpostkarten.uni-osnabrueck.de/albums/userpics/10012/2_1_2-029.jpg</lido:linkResource>`

`lido:source="http://terminology.lido-schema.org/eventType">http://terminology.lido-schema.org/lido00011</lido:conceptID> <lido:term lido:addedSearch`
`xml:lang="de">Gebrauch</lido:term> </lido:eventType> <lido:eventDate> <lido:displayDate>[gelaufen] undatiert (Datierung, Poststempel)</lido:display`
`</lido:eventSet> </lido:eventWrap> <lido:objectRelationWrap> <lido:subjectWrap> <lido:subjectSet> <lido:displaySubject>Noten</lido:displaySubject>`

`<lido:conceptID lido:pref="preferred" lido:type="URI" lido:source="GND">http://d-nb.info/gnd/4129674-6</lido:conceptID>`

Concept URIs

`<lido:conceptID lido:pref="alternate" lido:type="URI" lido:source="AAT">http://vocab.getty.edu/aat/300026819</lido:conceptID>`

`<lido:conceptID lido:type="URI">http://creativecommons.org/licenses/by-nc-sa/4.0/</lido:conceptID>`

`<lido:measurementType>Dateigröße</lido:measurementType> <lido:measurementUnit>kB</lido:measurementUnit> <lido:measurementValue>373800</lido:measure`
`</lido:resourceMeasurementsSet> <lido:resourceMeasurementsSet> <lido:measurementType>Höhe</lido:measurementType> <lido:measurementUnit>px</lido:mea`

`<lido:placeID lido:type="URI" lido:source="GND">http://d-nb.info/gnd/4043974-4</lido:placeID>`

Place URIs

`<lido:placeID lido:type="URI" lido:source="Geonames">http://www.geonames.org/2856883</lido:placeID>`

`<lido:legalBodyName> <lido:appellationValue xml:lang="de">Historische Bildpostkarten - Universität Osnabrück</lido:appellationValue> <lido:legalB`

…we transform all delivery formats to RDF/XML – to the **Europeana Data Model (EDM)**

DEUTSCHE DIGITALE BIBLIOTHEK
Kultur und Wissen online

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/" xmlns:edm="http://www.europeana.eu/schemas/edm/" xmlns:exslt="http://exslt.org/common" xmlns:institution="h
  xmlns:ns1="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:ns2="http://www.deutsche-digitale-bibliothek.de/cortex" xmlns:ns3="http://www.deutsche-digitale-
  <ore:Aggregation ns1:about="FVEPNLVE6ZKHOD3Q2AC2KJSCGTH2AM2D" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:ddb="http://www.deutsche-digitale-biblio
    <edm:aggregatedCHO ns1:resource="http://www.deutsche-digitale-bibliothek.de/item/HF56AHLLBEBU33NCJYILMZCVSFZNYXAN" />
    <edm:dataProvider>Museum für Kunst und Gewerbe Hamburg</edm:dataProvider>
    <edm:dataProvider ns1:resource="http://www.deutsche-digitale-bibliothek.de/organization/2YVOH2LF5PRYX6LAYWUBOQEOWKVJMIY4" />
    <edm:isShownAt ns1:resource="http://sammlungonline.mkg-hamburg.de/de/object/Vue+de+Port/AB1988.635/mkg-e00132768" />
    <edm:isShownBy ns1:resource="http://resources.digicult-museen.net/dam/provided_image/m57d2ffdda5a56" />
    <edm:object ns1:resource="http://www.deutsche-digitale-bibliothek.de/binary/HF56AHLLBEBU33NCJYILMZCVSFZNYXAN/mvpr/1.jpg" />
    <edm:provider>Deutsche Digitale Bibliothek</edm:provider>
    <edm:rights ns1:resource="http://creativecommons.org/publicdomain/zero/1.0/" />
    <dcterms:rights ns1:resource="http://creativecommons.org/publicdomain/zero/1.0/" />
  </ore:Aggregation>
  <edm:WebResource ns1:about="http://sammlungonline.mkg-hamburg.de/de/object/Vue+de+Port/AB1988.635/mkg-e00132768" xmlns:dc="http://purl.org/dc/element
    <edm:rights ns1:resource="http://creativecommons.org/publicdomain/zero/1.0/" />
    <dc:type ns1:resource="http://ddb.vocnet.org/medientyp/mt002" />
    <dcterms:rights ns1:resource="http://creativecommons.org/publicdomain/zero/1.0/" />
  </edm:WebResource>
  <skos:Concept ns1:about="http://ddb.vocnet.org/medientyp/mt002" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:foaf="http://xmlns.com/foaf/0.1/" xmlns:ore=
    <skos:notation>mediatype_002</skos:notation>
  </skos:Concept>
  <edm:WebResource ns1:about="http://resources.digicult-museen.net/dam/provided_image/m57d2ffdda5a56" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:ore=
    <edm:rights ns1:resource="http://creativecommons.org/publicdomain/zero/1.0/" />
    <dc:type ns1:resource="http://ddb.vocnet.org/medientyp/mt002" />
    <dcterms:rights ns1:resource="http://creativecommons.org/publicdomain/zero/1.0/" />
  </edm:WebResource>
  <skos:Concept ns1:about="http://ddb.vocnet.org/medientyp/mt002" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:foaf="http://xmlns.com/foaf/0.1/" xmlns:ore=
    <skos:notation>mediatype_002</skos:notation>
  </skos:Concept>
  <edm:Agent ns1:about="http://www.deutsche-digitale-bibliothek.de/organization/2YVOH2LF5PRYX6LAYWUBOQEOWKVJMIY4" xmlns:dc="http://purl.org/dc/elements/
    <skos:prefLabel>Museum für Kunst und Gewerbe Hamburg</skos:prefLabel>
    <ns1:type ns1:resource="http://ddb.vocnet.org/sparte/sparte006" />
  </edm:Agent>
  <skos:Concept ns1:about="http://ddb.vocnet.org/sparte/sparte006" xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:foaf="http://xmlns.com/foaf/0.1/" xmlns:ore=
    <skos:notation>sec_06</skos:notation>
```

No worries, we're not going into the details now! ;-)

EDM at DDB: It's free and highly available!

- We transform all data into EDM (RDF/XML)...
  - ...and all metadata (including EDM) is **CC0-licensed**,
  - ...we grant free access via an **API** (see https://api.deutsche-digitale-bibliothek.de/),
  - ...our metadata is liked to **Authority Files** (like AAT, GND, Geonames)
  - ...and we are willing to **improve continuously** (better data quality)!

Porträt eines kleinen Jungen

Schlagwort:	Fotografie; Foto; Bildnisse; Fotos
Description:	Porträt eines kleinen Jungen, Lothar, Vom Lachen zum Weinen
Geschaffen (von wem):	Rössing, Roger (Fotograf); Rössing, Renate (Fotograf)
Geschaffen (wann):	1952
Gesammelt (von wem):	SLUB/Deutsche Fotothek
Language:	Deutsch
Location:	Sächsische Landesbibliothek - Staats- und Universitätsbibliothk Dresden
Rights:	Deutsche Fotothek
Legal status: ⍰	© Free access - no reuse

↗ Data provider's object view

Porträt eines kleinen Jungen
Bild: Rössing, Roger (Fotograf); Rössing, Renate (Fotograf) (1952)
Deutsche Fotothek

DDB person pages

Institution
→ **Museum für Kunst und Gewerbe Hamburg**
☑ www.mkg-hamburg.de

☑ Data provider's object view

🔗 Link to this page   ⬇ PDF View   f 🐦 g+

Vue de Port

Event: Creation of the photograph (who, where and when)

Objekt type:	Fotografie
Material/Technique:	Papier (auf Karton montiert); Gummidruck (in Blaugrün)
Measurements:	Bildmaß: Höhe: 35,40 cm; Breite: 26,00 cm Passepartout (außen): Höhe: 70,00 cm; Breite: 50,00 cm
Event:	Herstellung
(who):	🔺 Dubreuil, Pierre (Fotograf/in)
(where):	Lille
(when):	um 1900
Subject (what):	Meer (Seestück); Segelschiff, Segelboot; Hafen
Inscriptions:	Signatur: monogrammiert Wo: recto u. re. Was: "PD" (ligiert) Signatur: beschriftet Wo: verso o. Was: in schwarzer Tinte: "A. M.M. Hofmeister / Vue de Port / P. Dubreuil", andere Hand: "Geschenk der Herrn Th. u. Oskar Hofmeister / Hamburg 1918" Signatur: Stempel Wo: verso o. Mitte Was: Inventarstempel des MKG, Inventarnummer in Blei ergänzt
Classification:	Landschaftsfotografie (Sachgruppe); Piktorialismus (Stil)
Location:	Museum für Kunst und Gewerbe Hamburg
Inventory number:	AB1988.635
Acknowledgment:	Schenkung Theodor und Oscar Hofmeister 1918 (Creditline)
Collection:	Fotografie und neue Medien
Rights:	gemeinfrei
Legal status: ?	Ⓞ CC0 1.0 Universell - Public Domain Dedication

Vue de Port

☑ Data provider's object view

Last update: 22.12.2016, 10:55 AM ?

Lille
☑ Only objects with digitised media   Advanced Search

🔗 Link to this page   [F] [T] [G+]

Pierre Dubreuil

Fotograf
Born: 1872
Died: 1944

Pierre Dubreuil
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.

Objects: ?
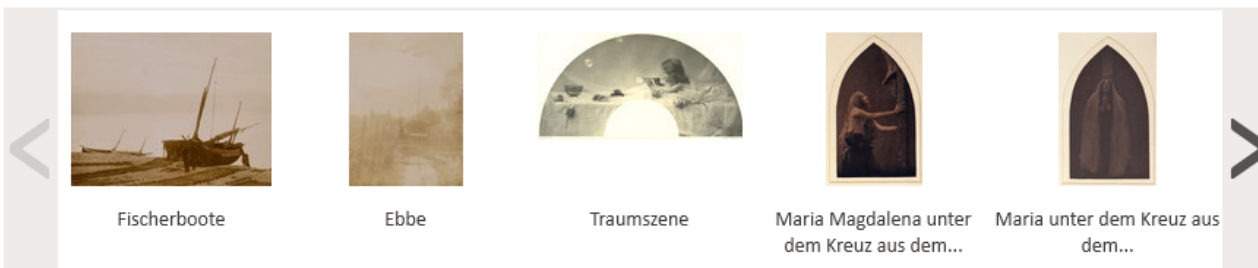
| Fischerboote | Ebbe | Traumszene | Maria Magdalena unter dem Kreuz aus dem... | Maria unter dem Kreuz aus dem... |

All Pictures (19)

Involved in:

→ **Soleil couchant sur les marais en neige**
Fotografie
→ **Christ au Sépulcre**
Fotografie
→ **Die goldene Stunde**
Fotografie
→ **Das Goldfisch-Glas**
Fotografie

All Objects (18)

Search:

🔍 "Pierre Dubreuil" in the DDB

External links:

❬ Bibliothèque nationale de France
NACO Authority File
Virtual International Authority File (VIAF)
International Standard Name Identifier (ISNI)
W Wikipedia (Deutsch)
W Wikipedia (English)
Wikidata

Linked data use in the DDB

This is **Linked Open Data** hosted by the German National Library:
Gemeinsame Normdatei (GND) – Integrated Authority File

Happy-Hippo, Spielfigur aus dem Kinder-Überraschungsei

Objekt type:	Spielfigur
Material/Technique:	Lackfarbe (mehrfarbig), Kunststoff, gegossen, bemalt
Measurements:	Höhe: 4,1 cm, Breite: 1,8 cm, Tiefe: 2 cm
Event:	Herstellung
(who):	Produktion: Ferrero
(where):	Frankfurt (Main), Deutschland
(when):	um 1998
Classification:	Unterhaltung (Gattung)
Keyword:	Überraschungsei; Süßigkeit
Location:	Deutsches Historisches Museum, Berlin
Inventory number:	AK 99/369
Rights:	Deutsches Historisches Museum
Legal status: ?	© Free access - no reuse

Happy-Hippo, Spielfigur aus dem Kinder-Überraschungsei
Foto: Deutsches Historisches Museum

Gemeinsame Normdatei,
Entity Facts

Gemeinsame Normdatei (GND)

- used by **libraries**, **archives**, **museums** and several other institutions to describe their resources
  - **popularity is increasing**, even for the non-library sectors
- Hosted by the **German National Library (DNB)**

- run **cooperatively**
  - library networks in German-speaking countries
  - Bavarian State Library / Berlin State Library
  - German Union Catalogue of Serials (ZDB)
  - Swiss National Library
  - numerous other institutions
- around **13.5 mio. records** (August 2016)

Subject headings 2%
Work 2%
Corporate bodies 11%
Confer- ences 6%
Geografic names 3%
Persons 33%
Names of persons 43%
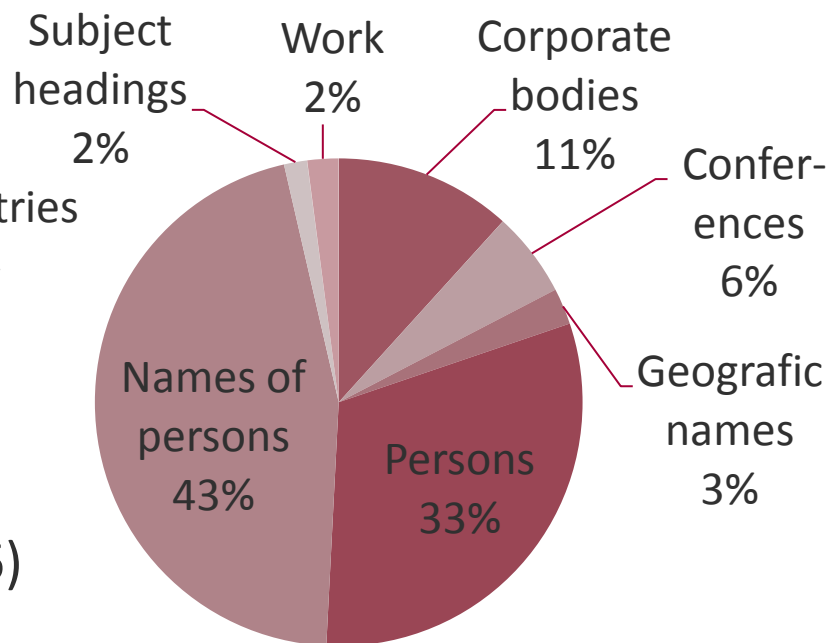
Relations of the GND person entities

Family relations (persons, names)

Information about birth and death (e.g. geographic names)

http://d-nb.info/gnd/118554727
Humboldt, Wilhelm von

http://d-nb.info/gnd/4005728-8
Berlin

http://d-nb.info/gnd/119247267
Humboldt, Elisabeth von

http://d-nb.info/gnd/118554700
Humboldt, Alexander von

http://d-nb.info/gnd/7569879-1
Ideen zu einer Geographie der Pflanzen

http://d-nb.info/gnd/4041423-1
Naturwissenschaftler

http://d-nb.info/gnd/4020214-8
Geograph

has mother · has son · has brother · is born in · died in · has mother · has son · has author · has occupation · has occupation

Pieces of his/her Oeuvre

Occupation (subject headings)

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Kultur und Wissen online

Entity Facts

Entity Facts – A light-weight service based on the GND

- Machine-readable **fact sheets for entities** of the GND
  - **easy to use** authority data service
  - currently: **Persons** and **Organizations**
- Developed by and run by the **German National Library**
  - **ready-to-use** data to display for humans → "August 28, 1749"
  - **JSON-LD**
- Goals
  - provide information about GND entities
  - **easy integration** into other (web-) applications
  - **links to other representations** of the same entity
  - combine GND data with data from **other sources**

```
"@context": http://hub.culturegraph.org/entityfacts/context/v1/entityfacts.jsonld,
"@type": "person",
"@id": http://d-nb.info/gnd/118540238,
preferredName: "Johann Wolfgang von Goethe",
surname: "Goethe",
prefix: "von",
forename: "Johann Wolfgang",
describedBy: {
    valid: "2017-04-13T11:07:54+0200",
    license: https://creativecommons.org/publicdomain/zero/1.0/,
    "@id": http://hub.culturegraph.org/entityfacts/118540238
},
variantName: [
    "Johann Wolfgang Goethe",
    "Johan Wolfgang von Goethe",
    "Johan Wolphgang Goethe",
    "Johan W. von Goethe",
    "Joh. Wolfg. v. Goethe",
    "J. Wolfgang Goethe",
    "J. W. v. Goethe",
    "J. W. Goethe",
    "Jan Wolfgang Goethe",
    "Jean Wolfgang Goethe",
    "Juan Wolfgang von Goethe",
    "Juan Wolfgang von Goethe",
    "Juan W. Goethe",
    "João Wolfgang von Goethe",
```

JSON-LD of Entity Facts –

GND-URI: http://d-nb.info/gnd/118889125

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DDB is using GND data via Entity Facts!

http://hub.culturegraph.org/entityfacts/118889125

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Entity Facts (GND with enrichments)

🔗 Link to this page   [f] [t] [g+]

Pierre Dubreuil

Fotograf
Born: 1872
Died: 1944

EDM-Data (DDB data partner)

Objects: ⑦

Fischerboote   Ebbe   Traumszene   Maria Magdalena unter dem Kreuz aus dem...   Maria unter dem Kreuz aus dem...

All Pictures (19)

Involved in:

→ **Soleil couchant sur les marais en neige**
Fotografie
→ **Christ au Sépulcre**
Fotografie
→ **Die goldene Stunde**
Fotografie
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All Objects (18)

Pierre Dubreuil
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🔍 "Pierre Dubreuil" in the DDB

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〓 NACO Authority File
VIAF Virtual International Authority File (VIAF)
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What's next? (1)

What are the goals we like to reach together with our data partners?

- We like to **improve cataloging**
  - **optimize cataloging** software together with the producer
  - build up new **data services**, like a matching service for GND entities

- We like to **improve data formats**
  - **further development** of data formats
  - defining **profiles of common data formats**
  - standardization with **Integrated Authority Files** (like GND, AAT, Geonames)
    - … for persons and organizations: **GND as common data hub**
   - … for geographic name: GND, Geonames (?)

What's next? (2)

- We like to improve our **transformation processes**
  - improving the checks on **data quality**
  - **feedback** for data provider about data/transformation quality
  - **enrich data** if possible (DBPedia, Wikidata …)
  - enhance our **search strategies and technologies**

  A platform like the DDB works well, when the delivered data is high-quality Linked Open Data (which is using authority files)!

Thank you!
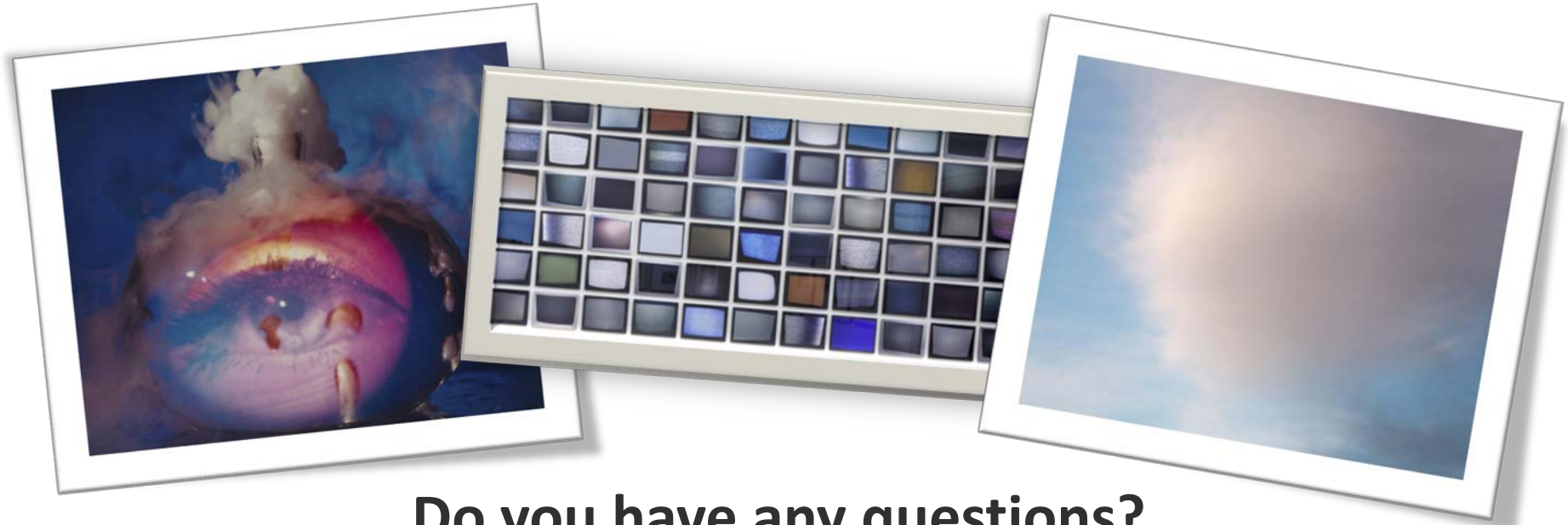
Do you have any questions?

m.buechner@dnb.de

…

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