

Europeana, standards and aggregation of content. The LIDO model

Regine Stein

Stockholm 23 May 2012



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2.1K



From the blog



[The ingenious hidalgo Don Quixote of La Mancha](#)

Did you know that you can find the very first Spanish edition of Don Quixote on

Featured item




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Europeana so far provides relatively simple search functionality.



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"bildarchiv foto marburg"

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Results 145 - 156 of 3,949 Page: 10 11 12 13 14 15 < >

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IMAGE (3,949)

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Kämpfer mit vier stehenden




Gestühl




Petersaltar




Mythologische Szenen einer antiken Jagd...




Grabkreuz der Eheleute Johann




Deckenbild: Evang Lukas



Das Jüngste Gericht



Heiliger Ágídius



Die Heiligen Thon und Martin

Results 145 - 156 of 3,949 Page: 10 11 12 13 14 15 < >

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Das Jüngste Gericht

Date: 1901/2000 [Herstellung]

Type: Wandbild | Malerei |

Subject: 11 U 11 | Darstellung des Jüngsten Gerichts mit dem Erzengel Michael als Seelenwäger (oder als demjenigen, der die Seligen und die Verdammten voneinander trennt) |

Description: Aufbewahrung/Standort: Brand bei Marktredwitz, Evangelische Pfarrkirche & Ehemalige Pfarrkirche Sankt Margaretha, Nordwand
 Datierung des Fotos: 1995
 Fotograf: Gaasch, Uwe
 Fotoinhalt/Ansicht: Ansicht von Süden

View item at [Bildarchiv Foto Marburg](#)

Rights: Deutsches Dokumentationszentrum für Kunstgeschichte - Bildarchiv Foto Marburg [Resource]

Identifier: local 20148198 [Metadata] - C 433.501 [Resource]

Source: Deutsches Dokumentationszentrum für Kunstgeschichte - Bildarchiv Foto Marburg |

Explore further!

Similar content







- Europeana is replacing its currently used data model

*ESE
Europeana Semantic
Elements*

by

*EDM
Europeana Data Model*

- Can represent richer semantics



Europeana Data Model Primer

05/08/2010

Europeana v1.0



co-funded by the European Union

The project is co-funded by the European Union, through the eContentplus programme
<http://ec.europa.eu/econtentplus>

- Several projects of the Europeana group are already using specific aggregation models appropriate for the material they are aggregating.
- ATHENA, according to its best practice report on metadata models for museum objects, contributed to the development of LIDO – Lightweight Informations Describing Objects

- The LIDO model is subsequently being used by a number of projects of the Europeana group:



The LIDO model

- Background -

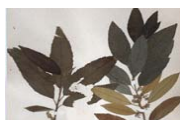
LIDO Background



Zoological Museums



Archaeological Museums



Botanical Gardens



Computer Collections



**Geological and Mineralogical
Museums**

...



**Medical and Pharmaceutical
Collections**



Museums of Cultural History



Museums of Fire Fighting



Theatre History Collections



Art Museums

...

LIDO Background

- It's all about
 - creating a consistent information base
 - making your information understandable outside of your collection database / your home context!
- Need for convenient instruments to provide cultural heritage information
 - from different collections / object classes
 - from different data structures
 - from different software systems

Why not just using Dublin Core / ESE

- Museum metadata is ‘flatten out’, with most of the data going into a limited subset of elements – particularly with respect to the object’s history
- Lack of structure that allows elements to be grouped according to their semantic content leads to substantial information loss

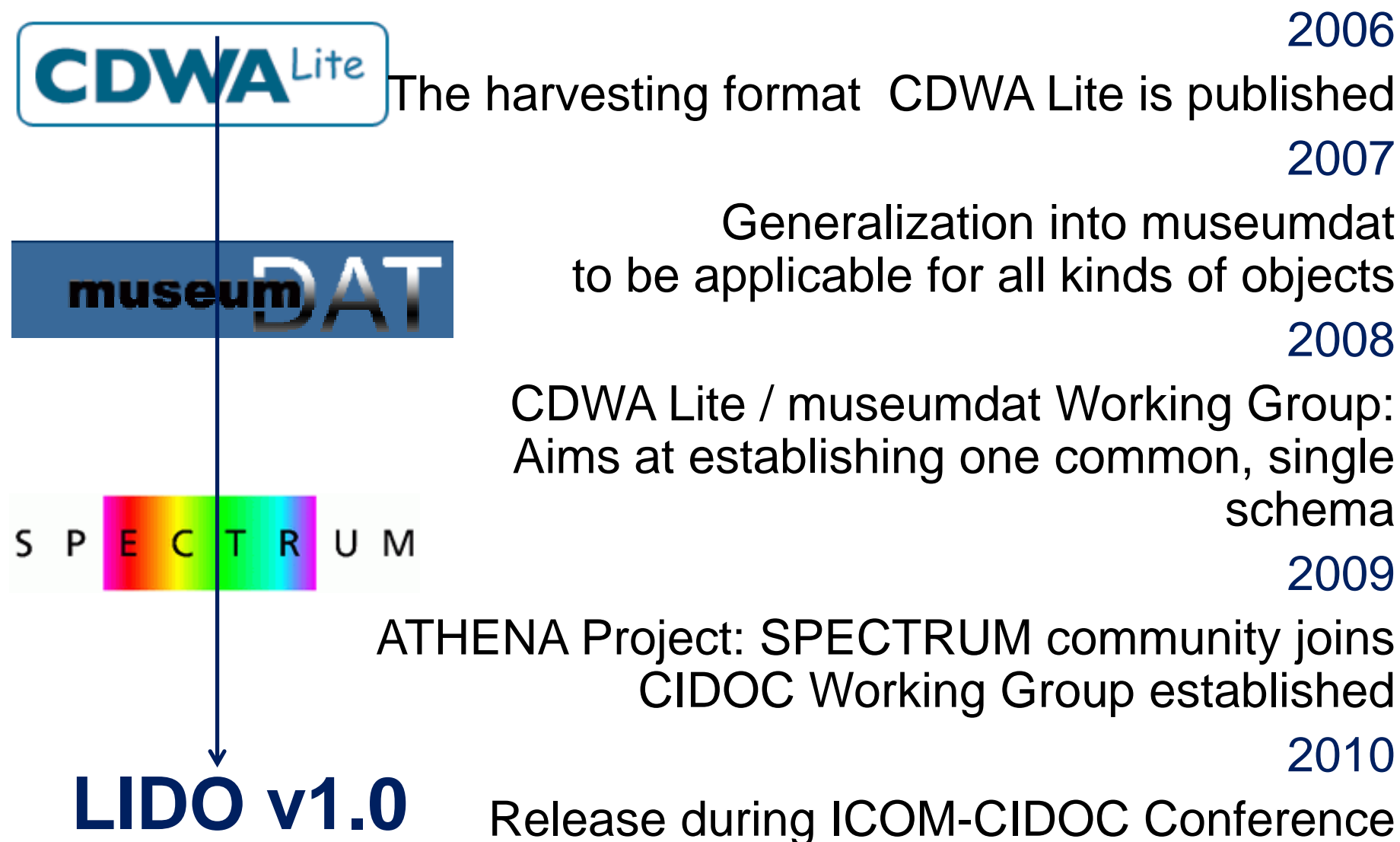


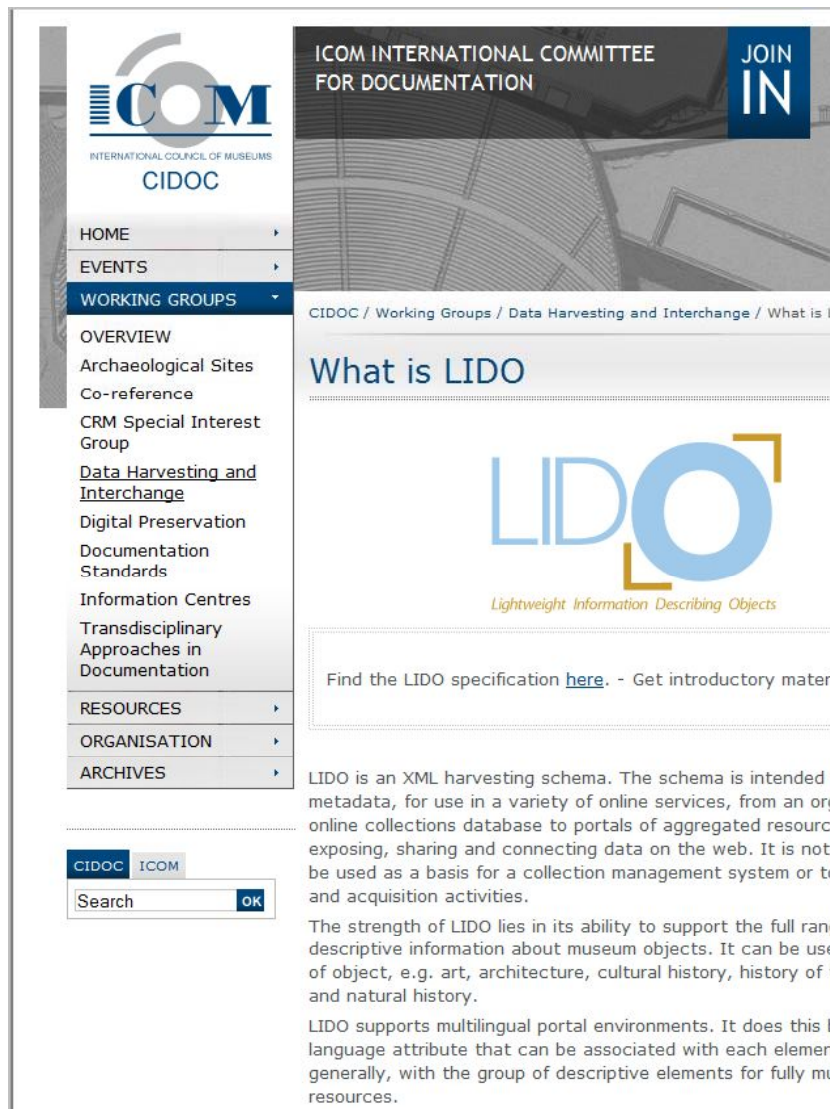
LIDO Background

Lightweight Information Describing Objects

- Is the result of a collaborative effort of international stakeholders in the museum sector to create a common solution for contributing cultural heritage content to web applications.
- Provides an explicit format to deliver (museum's) object information in a standardized way.

LIDO Background





ICOM INTERNATIONAL COMMITTEE FOR DOCUMENTATION

JOIN IN

ICOM

INTERNATIONAL COUNCIL OF MUSEUMS

CIDOC

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EVENTS

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OVERVIEW

Archaeological Sites

Co-reference

CRM Special Interest Group

Data Harvesting and Interchange

Digital Preservation

Documentation Standards

Information Centres

Transdisciplinary Approaches in Documentation


RESOURCES

ORGANISATION

ARCHIVES

CIDOC / Working Groups / Data Harvesting and Interchange / What is LIDO

What is LIDO



Lightweight Information Describing Objects

Find the LIDO specification [here](#). - Get introductory material

LIDO is an XML harvesting schema. The schema is intended to describe metadata, for use in a variety of online services, from an online collections database to portals of aggregated resources. It is not to be used as a basis for a collection management system or for other collection and acquisition activities.

The strength of LIDO lies in its ability to support the full range of descriptive information about museum objects. It can be used to describe any type of object, e.g. art, architecture, cultural history, history of science and natural history.

LIDO supports multilingual portal environments. It does this by using a language attribute that can be associated with each element. This is generally, with the group of descriptive elements for fully multilingual resources.

CIDOC ICOM

Search OK



LIDO - Lightweight Information Describing Objects Version 1.0

November 2010

Erin Coburn,
Richard Light, Gordon McKenna,
Regine Stein, Axel Vitzthum





LIDO Background

Reference: CIDOC-CRM / ISO 21127

CIDOC-CRM / ISO 21127

- Developed within CIDOC, the Documentation Committee of the International Council of Museums (ICOM)
- Is a formal domain ontology for cultural heritage information
- Describes the things that the cultural heritage sector deals with and how these things relate to each other

XML Schema for Contributing Content to Cultural Heritage Repositories

- For **delivering metadata for use in a variety of online services**, from an organization's online collections database to portals of aggregated resources – as well as exposing, sharing and connecting data on the web.
- Intended to **represent the full range of descriptive information about museum objects**, e.g. art, cultural, technology and natural science.
- It supports **multilingual** environments.

LIDO Schema Design

Construction Principles

- Individual data providers can decide on **how light – or how rich** – they want their contributed metadata records to be
- Allow for delivery of **full information**: a record can include all the necessary information for display and retrieval of your object
- Allow for **identification of each referenced entity**
<> references to controlled vocabulary and authority files.
- Provide optimised metadata for retrieval on one hand and for display on the other -> **distinction of display and indexing** elements

LIDO Schema Design

Groups of Information

Descriptive and administrative information groups in LIDO

- *Object Classifications* –

Object / Work Type (*mandatory*)

Classification

- *Object Identifications* –

Title / Name (*mandatory*)

Inscriptions

Repository / Location

State / Edition

Object Description

Measurements

- *Events* –

Event Set

- *Relations* –

Subject Set

Related Works

- *Administrative Metadata* –

Rights

Record (*mandatory*)

Resource

LIDO Schema Design

Mandatory elements

LIDO Record Identifier

- *Object Classifications* –

Object / Work Type (*mandatory*)

Classification

- *Object Identifications* –

Title / Name (*mandatory*)

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Repository / Location

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- *Relations* –

Subject Set

Related Works

- *Administrative Metadata* –

Rights

Record (*mandatory*)

Resource

No artist? No creation date? No finding place?

Objects may relate to any actor, date, or place in two ways:

- The object was present at an event (such as creation, find, use, ...)
 - having participants / carried out by some actors
 - at some time
 - in some place
- The object refers to such entity by
 - depicting it
 - „being about“

- *Object Classifications* –

Object / Work Type (*mandatory*)

Classification

- *Object Identifications* –

Title / Name (*mandatory*)

Inscriptions

Repository / Location

State / Edition

Object Description

Measurements

- *Events* –

Event Set

- *Relations* –

Subject Set

Related Works

- *Administrative Metadata* –

Rights

Record (*mandatory*)

Resource

Event

- Event Identifier
- Event Type**
- Role in Event
- Event Name
- Event Actor**
- Culture
- Event Date**
- Period
- Event Place**
- Event Method
- Materials / Technique**
- Thing Present
- Event Related
- Event Description



Künstler
Porträts
Themen

title: La primavera / Der Frühling

event

eventType **Herstellung / Creation**

eventActor

actor

nameActor **Botticelli, Sandro**

roleActor **Maler**

eventDate

earliestDate **1482**

latestDate **1482**

eventMaterialsTech

termMaterialsTech **Tempera**

termMaterialsTech **Pappelholz**

event

eventType **Herkunft / Provenance**

eventPlace

place

namePlace **Florenz, Palazzo Medici Riccardi, Via**

partOfPlace

namePlace **Florenz**

partOfPlace

namePlace **Firenze, Provincia**

partOfPlace

namePlace **Italien**

eventDate

earliestDate **1498**

latestDate **1498**

event

eventType **Restaurierung / Restoration**

eventDate

earliestDate **1982**

latestDate **1982**

LIDO Structure

Event


MUSEEN NORD
MUSEEN SCHLESWIG-HOLSTEIN & HAMBURG

Home Museen Veranstaltungen Objekte Bilder Impressum Lin

Museum

- Archäologisches Museum Hamburg | Helms-Museum Stiftung Historische Museen Hamburg

Kragenflasche »



« zurück zu Objektsuche zum Leuchtkasten hinzufügen »

Objektbezeichnung:
Kragenflasche

Datierungs Epochen:
Neolithikum

Fundort:
HH-Ohlsdorf

Technik:
aufgebaut, gebrannt, geritzt

Datierung:
-4000 - -2800

Kulturgruppen:
Trichterbecherkultur

Material:
Ton

Maße:
H: 13 cm, D: 9,6 cm, Gewicht:

objectWorkType: **Kragenflasche**

event

eventType **Production**

culture **Trichterbecherkultur**

eventDate

earliestDate **-4000**

latestDate **-2800**

periodName **Neolithikum**

eventMaterialsTech

materialsTech

termMaterialsTech **Ton**

MUSEEN NORD
MUSEEN SCHLESWIG-HOLSTEIN & HAMBURG

Home Museen Veranstaltungen Objekte Bilder Impressum Lin

Museum

- Archäologisches Museum Hamburg | Helms-Museum Stiftung Historische Museen Hamburg

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Fundort:
HH-Ohlsdorf

Technik:
aufgebaut, gebrannt, geritzt

Datierung:
-4000 - -2800

Kulturgruppen:
Trichterbecherkultur

Material:
Ton

Maße:
H: 13 cm, D: 9,6 cm, Gewicht:

objectWorkType: **Kragenflasche**

event

eventType **Find**

eventPlace

place

namePlace **HH-Ohlsdorf**

partOfPlace

namePlace **Hamburg**

- *Object Classifications* –

Object / Work Type (*mandatory*)

Classification

- *Object Identifications* –

Title / Name (*mandatory*)

Inscriptions

Repository / Location

State / Edition

Object Description

Measurements

- *Events* –

Event Set

- *Relations* –

Subject Set

Related Works

- *Administrative Metadata* –

Rights

Record (*mandatory*)

Resource

LIDO Structure

Subject / Content



Holzschnitt/Woodcut:

Bildnis des Johann Aventinus

creator: Hans Sebald Lautensack -> Event

depicted Person: Johann Aventinus -> Subject Actor

07010042,T
H 462a

LIDO Structure

Subject / Content

- Extent Subject
- Subject Concept
- Subject Actor
- Subject Date
- Subject Place
- Subject Event
- Subject Object

objectWorkType: Druck

subject

subjectActor

displayActor

Johannes Aventinus

actor

actorID

type URL

source GND

<http://d-nb.info/gnd/11850522X>

nameActor

pref preferred

Aventinus, Johannes

nameActor

pref alternate

Thurmair, Johannes

nameActor

pref alternate

...

vitalDatesActor 1477-1534

LIDO Structure

Subject / Content

DNB, Katalog der Deutschen Nationalbibliothek - Mozilla Firefox

DEUTSCHE NATIONALBIBLIOTHEK

LEIPZIG FRANKFURT AM MAIN BERLIN

KATALOG DER DEUTSCHEN NATIONALBIBLIOTHEK

Gesamter Bestand Deutsches Musikarchiv Deutsches Exilarchiv

Suchformular zurücksetzen

<http://d-nb.info/gnd/11850522X>

Person Aventinus, Johannes (männlich)

Andere Namen

- Aventin, Johannes
- Aventinus, ...
- Thurmair, Johannes
- Turnmair, Johannes
- Turmair, Johannes %(VD-16)
- Auen., Johannes
- Durmair, Johannes
- Thurinomarus, Johannes Aventinus
- Aventin, Iogann
- Aventinus, Joannes
- Aventin
- Aventinus
- Turmair, Johann
- Turmair, Johannes [Winkl. Name]
- Turmair, Johann Georg
- Aventin, ...
- Aventinus, Johannes

Quelle M; LCAuth; NDB; ADB

Lebensdaten 1477-1534

Beruf(e) Historiker

Land Deutschland (XA-DE)

Weitere Angaben Bayerischer Hofhistoriograph; Dt. Historiker

Autor von / Beteiligt an 7 Publikationen

1. *Bayrische Chronik*
Aventinus, Johannes. - München : Diederichs, 1988, Erw. Neuausg.

objectWorkType: **Druck**

subject

subjectActor

displayActor

Johannes Aventinus

actor

actorID

type **URL**

source **GND**

<http://d-nb.info/gnd/11850522X>

nameActor

pref **preferred**

Aventinus, Johannes

nameActor

pref **alternate**

Thurmair, Johannes

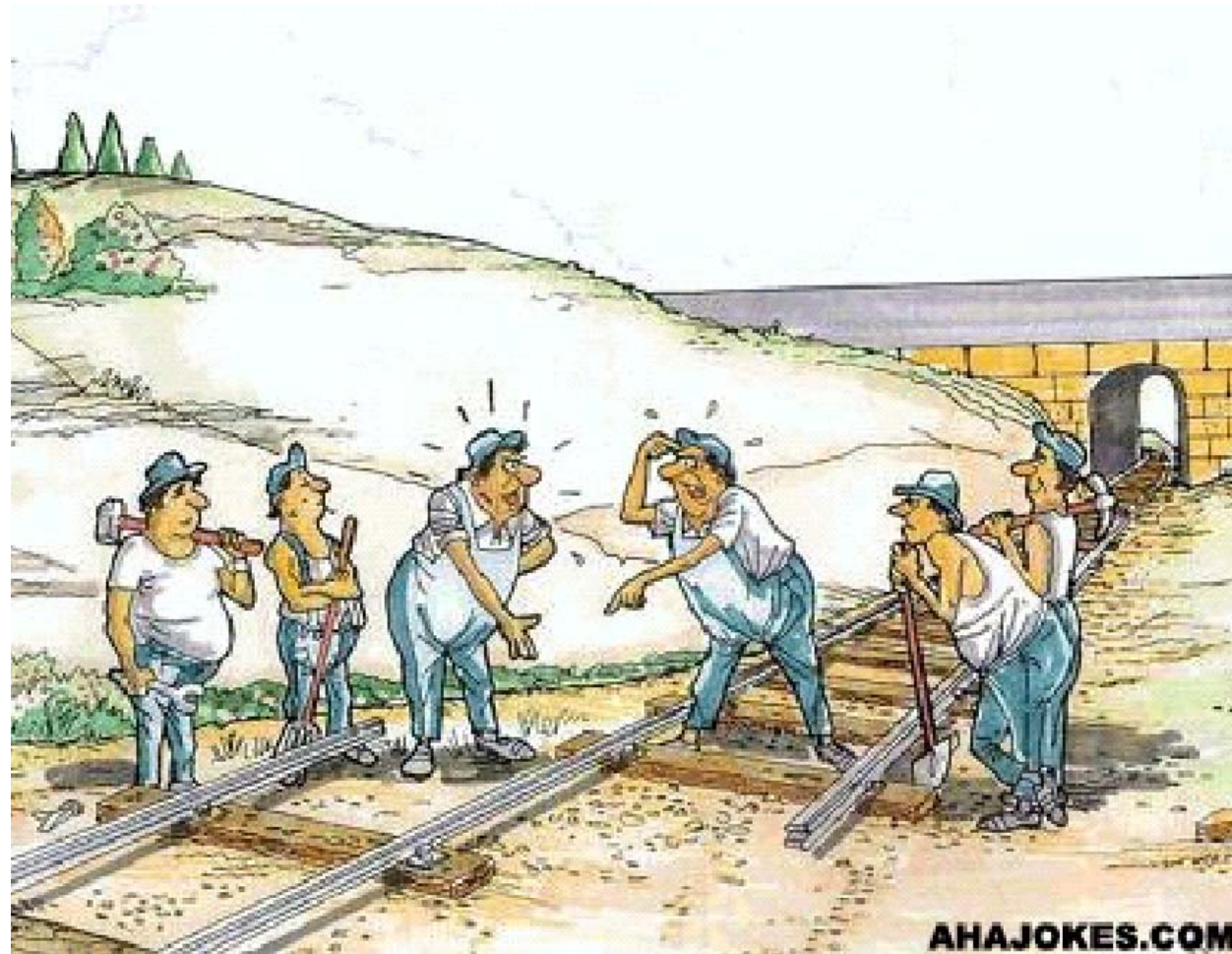
nameActor

pref **alternate**

...

vitalDatesActor **1477-1534**

LIDO effectively supports data quality focused approaches and re-use of data





Lightweight Information Describing Objects

www.lido-schema.org

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Bildarchiv Foto Marburg

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