Introduction to LIDO

Rome 26 September 2011

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Introduction to LIDO

1. Background
2. Schema Design
3. Structure
4. Further guidelines
5. Basic Rules for Mapping
<table>
<thead>
<tr>
<th>Zoological Museums</th>
<th>Medical and Pharmaceutical Collections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archaeological Museums</td>
<td>Museums of Cultural History</td>
</tr>
<tr>
<td>Botanical Gardens</td>
<td>Museums of Fire Fighting</td>
</tr>
<tr>
<td>Computer Collections</td>
<td>Theatre History Collections</td>
</tr>
<tr>
<td>Geological and Mineralogical Museums</td>
<td>Art Museums</td>
</tr>
<tr>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>
Why a standard format for contributing content?

• 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
LIDO – 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.
The harvesting format CDWA Lite is published in 2006.

Generalization into museumdat in 2007 to be applicable for all kinds of objects.


LIDO v1.0 Release during ICOM-CIDOC Conference in 2010.
CIDOC-CRM / ISO 21127 in less than a nutshell…

- 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
  - Expressed as an “object-oriented” schema
CIDOC-CRM / ISO 21127 in less than a nutshell…

- Establishes a conceptual basis for integration and access to cultural heritage information: „semantic glue“
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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 is NOT

- A fully developed data exchange format.
- A format designed for proper cataloging – it is not intended to be used as a basis for a collection management system or to support loan and acquisition activities.
• Provide a specification and related XML schema that describes cultural materials appropriately

• Individual data providers can decide on how light – or how rich – they want their contributed metadata records to be

• Allow for delivering data and resources / digital surrogates relating to your objects

• Include links from contributed metadata back to records in their 'home' context
Cont.:

• 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, e.g. provide 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
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**
Schema Design

Mandatory elements

- LIDO Record Identifier
- 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
Full support of multilinguality

- `xml:lang` mandatory for default language on high-level elements `descriptiveMetadata` and `administrativeMetadata`

Two possibilities to provide multi-lingual entries:

- Repeat the high-level elements with different `xml:lang` attributes for fully multi-lingual resources
- Repeat text-level elements with different `xml:lang` attributes for providing translations only for just a few elements
Full support of multilinguality - Example

```xml
<lido:lido>
  <lido:lidoRecID lido:type="local">1300_MFV 1893-237</lido:lidoRecID>
  <lido:category lido:source="CIDOC CRM v5.0.1">E22 Man-Made_Object</lido:category>
  <lido:descriptiveMetadata xml:lang="de">...
    <lido:eventWrap>
      <lido:eventSet>
        <lido:event>
          <lido:eventType>
            <lido:term>Production</lido:term>
          </lido:eventType>
          ...
        </lido:event>
        <lido:eventMaterialsTech>
          <lido:materialsTech>
            <lido:termMaterialsTech lido:type="Material">
              <lido:term>Ton</lido:term>
              <lido:term xml:lang="en">clay</lido:term>
            </lido:termMaterialsTech>
          </lido:materialsTech>
        </lido:eventMaterialsTech>
      </lido:eventSet>
    </lido:eventWrap>
    <lido:descriptiveMetadata xml:lang="de">...
  </lido:lido>
</lido:lido>
```
• Distinguish identifiers for an entity itself and a webresource about it!

• Identifiers are repeatable

• Entities including an identifier el.:
  - Concept
  - Actor / Legal Body Ref
  - Place
  - Event
  - Object

• Example:

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Schema Design

Display <> Index

Display and Index elements – basic structure:

xxxWrap (0-1)
xxxSet (0-unbounded)
displayXXX (0-unbounded) (for language variants only)
XXX (0-1)

e.g.
objectMeasurementsWrap
objectMeasurementsSet
displayObjectMeasurements
objectMeasurements

```
objectMeasurementsSet
  displayObjectMeasurements: 44,3 x 35,4 cm (Blatt); 10 Bildfelder
objectMeasurements
  measurementsSet: (value: 44,3) (unit: cm) (type: Höhe)
  measurementsSet: (value: 35,4) (unit: cm) (type: Breite)
  extentMeasurements: Blatt
```
Introduction to LIDO

1. Background
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3. Structure
4. Further guidelines
5. Basic Rules for Mapping
Structure

Object Classification

- Object Classifications –
  - Object / Work Type \((\text{mandatory})\)
  - Classification

- Object Identifications –
  - Title / Name \((\text{mandatory})\)
  - Inscriptions
  - Repository / Location
  - State / Edition
  - Object Description
  - Measurements

- Events –
  - Event Set

- Relations –
  - Subject Set
  - Related Works

- Administrative Metadata –
  - Rights
  - Record \((\text{mandatory})\)
  - Resource
Object Classification

objectWorkType: Mineral

classification: Malachit
type: Mineral systematic
classification: Azurit
type: Mineral systematic
- **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**
Object Identification

**objectWorkType:** Mineral

**classification:** Malachit
**type:** Mineral systematic

**classification:** Azurit
**type:** Mineral systematic

**title:** Mineral
**type:** object name

*mandatory*
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Object Identification

objectWorkType: Gemälde

repository
repositoryType: current
repositoryName:
legalBodyID http://d-nb.info/gnd/2166186-8
legalBodyName Museumsberg Flensburg
workID: 23214
type: Inventarnummer
repositoryLocation: Museumsberg
isPartOf Flensburg

Designation and unambiguous identification of the institution of custody
No artist? No creation date? No finding place?

Museum 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

or

- 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

---

**Event Set**

**Event**

- **Events** –

  - **Relations** –

    Subject Set  
    
    Related Works  
    
    - **Administrative Metadata** –
      
      Rights  
      
      Record *(mandatory)*  
      
      Resource
Event title: La primavera / Der Frühling

- Event Type: Herstellung / Creation
  - Event Actor: Botticelli, Sandro
    - Role in Event: Maler
  - Event Date: earliestDate 1482, latestDate 1482
  - Event Materials / Technique: Tempera, Pappelholz

- Event Type: Herkunft / Provenance
  - Event Place: Florenz, Palazzo Medici Riccardi, Via
    - partOfPlace: Florenz
    - partOfPlace: Firenze, Provincia
    - partOfPlace: Italien
  - Event Date: earliestDate 1498, latestDate 1498

- Event Type: Restaurierung / Restoration
  - Event Date: earliestDate 1982, latestDate 1982
− 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
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

objectWorkType: Schlosspark
title: Schlosspark Nymphenburg
event
eventType: Herstellung / Creation
eventActor
displayActorInRole: unknown

eventDate
displayDate: ab 1664
date
earliestDate: 1664
latestDate: 1664
eventPlace
place
namePlace: München - Nymphenburg
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

objectWorkType: Schlosspark

title: Schlosspark Nymphenburg

event
eventType: Erweiterung / Part Addition

eventActor
displayActorInRole: Charles Carbonet (1701?-1715)
actorInRole:
actor
nameActor: Carbonet, Charles
roleActor: Gartenarchitekt

eventDate
earliestDate: 1702
latestDate: 1702

eventPlace
place
namePlace: München - Nymphenburg
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
objectWorkType: Kragenflasche

event
eventType: Production

culture: Trichterbecherkultur

eventDate
earliestDate: -4000
latestDate: -2800

periodName: Neolithikum

eventMaterialsTech
materialsTech
termMaterialsTech: Ton
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**Structure**

**Event**

- **objectWorkType:** Kragenflasche

- **event**
  - **eventType:** Find
  - **eventPlace**
    - **place**
      - **namePlace:** HH-Ohlsdorf
      - **partOfPlace:** Hamburg
      - **namePlace:** Hamburg
Structure

Subject / Content

- **Object Classifications** –
  
  **Object / Work Type** *(mandatory)*  
  
  Classification

- **Object Identifications** –
  
  **Title / Name** *(mandatory)*  
  
  Inscriptions

Repository / Location

State / Edition

Object Description

Measurements

- **Events** –
  
  Event Set

- **Relations** –
  
  Related Works

- **Administrative Metadata** –
  
  Rights

Record *(mandatory)*

Resource
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Structure

Subject / Content

- Extent Subject
- Subject Concept
- Subject Actor
- Subject Date
- Subject Place
- Subject Event
- Subject Object
Holzschnitt/Woodcut:
**Bildnis des Johann Aventinus**

creator: Hans Sebald Lautensack -> Event
depicted Person: Johann Aventius -> Subject Actor
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Object Work Type: Druck

Subject

Subject Actor

Johannes Aventinus

Actor ID

URL

GND

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

Name Actor

preferred

Aventinus, Johannes

alternate

Thurmair, Johannes

Vital Dates Actor

1477-1534

Extent Subject

Subject Concept

Subject Actor

Subject Date

Subject Place

Subject Event

Subject Object
Training Workshop

Structure

Subject / Content

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

vitalDatesActor 1477-1534
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Structure

Subject / Content

Allows for full content description of event photographs

subjectSet
subject
subjectEvent
event
eventType Ereignis
eventName Der grosse Hamburger Brand
eventDate
earliestDate 1842-05-05
latestDate 1842-05-08
eventPlace
namePlace Hamburg
eventDescriptionSet
type: Beschreibung
descriptiveNoteID
http://de.wikipedia.org/wiki/Hamburger_Brand
type: URI
source: wikipedia
descriptiveNoteValue:
Der Hamburger Brand war ein großer Stadtbrand in Hamburg, der zwischen dem 5. Mai und dem 8. Mai 1842....
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Structure

Related Works

relatedWorkSet
  relatedWork
displayObject
  Laeisz, Zeichnung, 1842 vermutlich
  objekt
    objectID
      1301_EB 1942,897
    type
      local
  relatedWorkRelType
    related to
relatedWorkSet
relatedWork
displayObject
Horbas, Claudia / Pelc, Ortwin (Hrsg.): Hamburg. Es brannte an allen Ecken zugleich. Hamburg 1842.
object
  objectID  380421143,
type ISBN
relatedWorkRelType  is referred to by
- Object Classifications –

Object / Work Type \textit{(mandatory)}

Classification

-Object Identifications –

Title / Name \textit{(mandatory)}

Inscriptions

Repository / Location

State / Edition

Object Description

Measurements

-Events –

Event Set

-Relations –

Subject Set

Related Works

-Administrative Metadata –

Rights

Record \textit{(mandatory)}

Resource
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Administrative Metadata

Record Information

Record types:
- single object
- collection
- series
- group
- volume
- fonds
- ...

![Screenshot of a webpage showing a search interface for an archive with examples of metadata records and their relevant information.]
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Basic Event Types include:

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Event Type</th>
<th>Event Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquisition</td>
<td>Finding</td>
<td>Production</td>
</tr>
<tr>
<td>Collecting</td>
<td>Loss</td>
<td>Provenance</td>
</tr>
<tr>
<td>Commissioning</td>
<td>Modification</td>
<td>Publication</td>
</tr>
<tr>
<td>Creation</td>
<td>Move</td>
<td>Restoration</td>
</tr>
<tr>
<td>Designing</td>
<td>Part addition</td>
<td>Transformation</td>
</tr>
<tr>
<td>Destruction</td>
<td>Part removal</td>
<td>Type assignment</td>
</tr>
<tr>
<td>Excavation</td>
<td>Performance</td>
<td>Type creation</td>
</tr>
<tr>
<td>Exhibition</td>
<td>Planning</td>
<td>Use</td>
</tr>
</tbody>
</table>
Training Workshop

Further guidelines

Building Terminology
Further guidelines

Building Terminology

For qualifying attributes and elements:

- Refer to existing, published vocabularies where applicable
- Provide terminology
The idea:

- Defining profiles for specific object groups allows for exemplifying specific documentation needs of these different groups.

- Apart from LIDO mandatory elements, further elements are marked as
  - Core (= strongly recommended)
  - Recommended

- Draft discussed in CIDOC Working Group, to be delivered by end of October
## Classical Archaeology

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIDO Record ID</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Object Published ID</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Object / Work Type</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Title / Name</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Inscriptions</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Repository</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repository Name</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Work ID</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place ID</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>gml:Point partOfPlace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display State</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display Edition</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Object Description</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Object Measurement</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

### Event Set

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Type</td>
<td>C</td>
<td>CProduction</td>
</tr>
<tr>
<td>Event Type</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Actor</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Actor ID</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Role</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>AttributionQualifier</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Culture</td>
<td>R</td>
<td>R if no actor: Core</td>
</tr>
<tr>
<td>Date</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>(displayDate/earliestDate/latestDate)</td>
<td></td>
<td>Date and/or Period</td>
</tr>
<tr>
<td>Period</td>
<td>C</td>
<td>Date and/or Period</td>
</tr>
<tr>
<td>Place</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place ID</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Material / Technique</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

### Subject

- subjectConcept: C
- subjectActor: R
- subjectEvent: R
- subjectPlace: R
- subjectObject: R

### Related Works

- Related Works: R if Relationship Type= has Part / is Part of: Core

### Rights Work

- Rights Work: C

### Record

- Record ID: M
- Record Type: M
- Record Source: M
- Rights Record: C

### Resource

- Link Resource: C
- Resource Rights: C
Applied / Fine Arts

Event Set

Event Type
Actor
Actor ID
Name
Role
Attribution Qualifier
Culture
Date (displayDate/earliestDate/latestDate)
Period
Place
Place ID
Name
Classification
Material / Technique

if possible record modification events

Subject
subjectConcept
subjectActor
subjectEvent
subjectPlace
subjectObject
Related Works
Record
Record ID
Record Type
Record Source
Rights Record
Resource
Link Resource
Resource Rights
Photography

Event Set

Event Type: C Production

Actor

Actor ID: C
Name: C

Vital Dates: R

Role: C Photographer

Attribution Qualifier

Culture
Date
(displayDate/earliestDate/latestDate)

Period

Place

Place ID: C
Name
Classification

Material / Technique: R

if possible distinguish shot and print production

Event Set

Event Type

Actor

Actor ID
Name
Role

Attribution Qualifier

Culture
Date
(displayDate/earliestDate/latestDate)

Period

Place

Place ID
Name
Classification

Material / Technique
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubjectConcept</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>SubjectActor</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>SubjectEvent</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>SubjectPlace</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>SubjectObject</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Related Works</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Rights Work</td>
<td>C</td>
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<tr>
<td>Event Set</td>
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<td>C Production</td>
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<td>Name</td>
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<tr>
<td>Vital Dates</td>
<td>R</td>
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<tr>
<td>Role</td>
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<td>Culture</td>
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<td>R if no actor: Core</td>
</tr>
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<td>Date (displayDate/earliestDate/latestDate)</td>
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<td>Attribution Qualifier</td>
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<tr>
<td>Culture</td>
<td>R</td>
<td>R if no actor: Core</td>
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<td>Date (displayDate/earliestDate/latestDate)</td>
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</table>
Introduction to LIDO

1. Background
2. Schema Design
3. Structure
4. Further guidelines
5. Basic Rules for Mapping
Map first the mandatory elements, make sure that the respective fields in your source data are filled in.

Populate indexing elements if possible, and only in second step display elements (people tend to fill in only display elements but this is usually not appropriate).

Analyze your source data for event-mediated information: look for implicit event types in field names and for qualifier elements.

Think of your data outside of your own context - add implicit information: e.g. the repository name, if you map the inventory number.
Training Workshop

Lightweight Information Describing Objects

www.lido-schema.org

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