

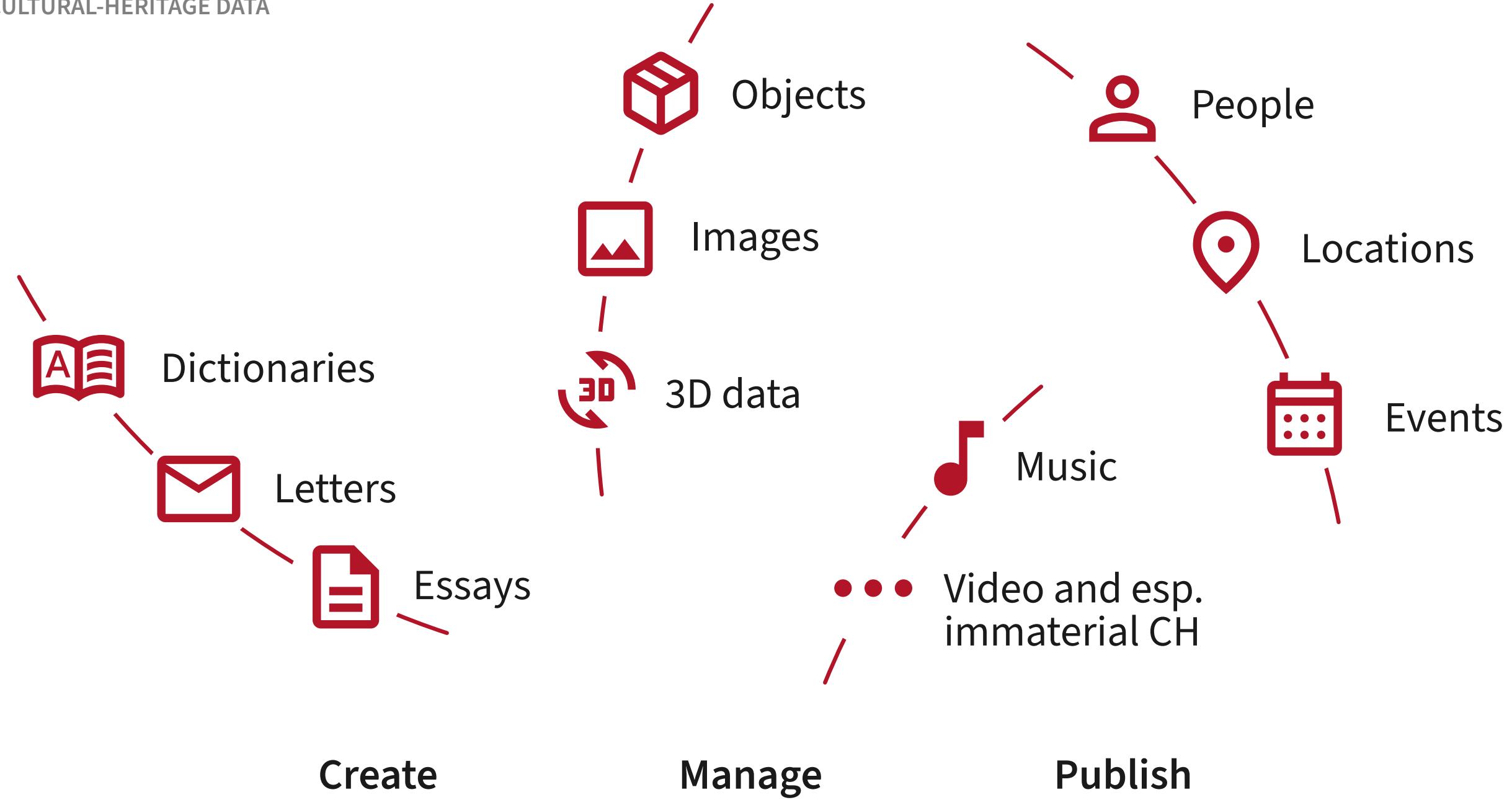
Accessible Multimodal Editions: Rewriting the Cultural Heritage Framework for the Age of (Digital) Ecosystems



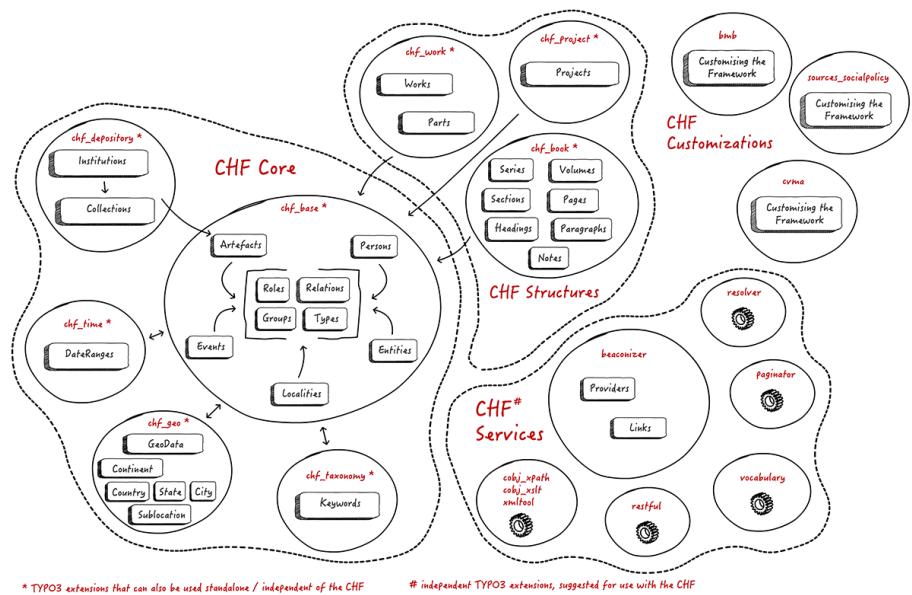
DIGITAL ACADEMY

ACADEMY OF SCIENCES AND LITERATURE MAINZ

CULTURAL-HERITAGE DATA



OPEN-SOURCE SOLUTIONS



2017 CHF concept by Torsten Schrade

⟨ LEXONOMY ⟩
Lexonomy

KITODO
KEY TO DIGITAL OBJECTS

Kitodo



WissKI



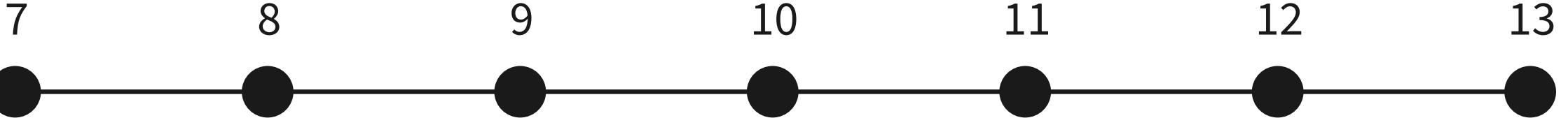
TEI Publisher

ediarum
Ediarum

MerMEId
MerMElD

Edirom
Edirom

PREVIOUS ISSUES



● Most sites, but with residue of code from previous versions

● Most recent site upgrade

● Prominent component

● Multiple incompatible versions

Breakage

● Heavily patched third-party component

Overwhelmed staff



Media ecology tries to find out what roles media force us to play, how media structure what we are seeing or thinking, and why media make us feel and act as we do. [...] Ecology is the scientific study on organisms and their interactions with the environment. In this context, an ecological approach focuses on the distributions, abundances, and relations between organic and nonorganic beings in an ecosystem.

Carlos A. Scolari. “Media Ecology: Exploring the Metaphor to Expand the Theory.” *Communication Theory*, vol. 22, no. 2, 2012, pp. 204–225, DOI: 10.1111/j.1468-2885.2012.01404.x.

- User stories ▶ Desires of communities?
- Mapping a domain ▶ Generic models and formats?
- Ubiquitous language ▶ Existing ontologies?
- Component reuse ▶ Components removable?
- Bounded contexts ▶ Resilient data flow?
And how these may change!

(DIGITAL) ECOSYSTEMS

As few physical servers as possible
Limited data duplication
Energy-preserving frontend

Environment

Semantic annotation
Screenreader-ready frontend
No vendor lock-ins

Accessibility

In-text glossaries
Responsive design
Multiple paths into the data

Interested public

Include XML-based serialisation like TEI
Options to download all data
Standardised data models if possible

Domain-specific communities

Atomic design
Machine-readable metadata
Serialisations, APIs, LOD

Data licences
Privacy
Limited telemetry

Web and digital humanities infrastructure

International legal frameworks

Maintainable for newbies
Simple code beats elegant code
Documentation & education

German academia

Stay up to date
Act in good faith & contribute
Engage with the community

Software stack

Compatible to DoS protection
Download availability
Containerisation

Bad-faith actors

EXTENSIBLE DESIGN

TYPO3 with
Cultural Heritage
Framework

Optional automated
ingest routines

Data models Editing Serialisations User interface Embedded metadata Search Social

Project-specific overwrites

Optional LOD APIs Optional QA routines Optional visualisations

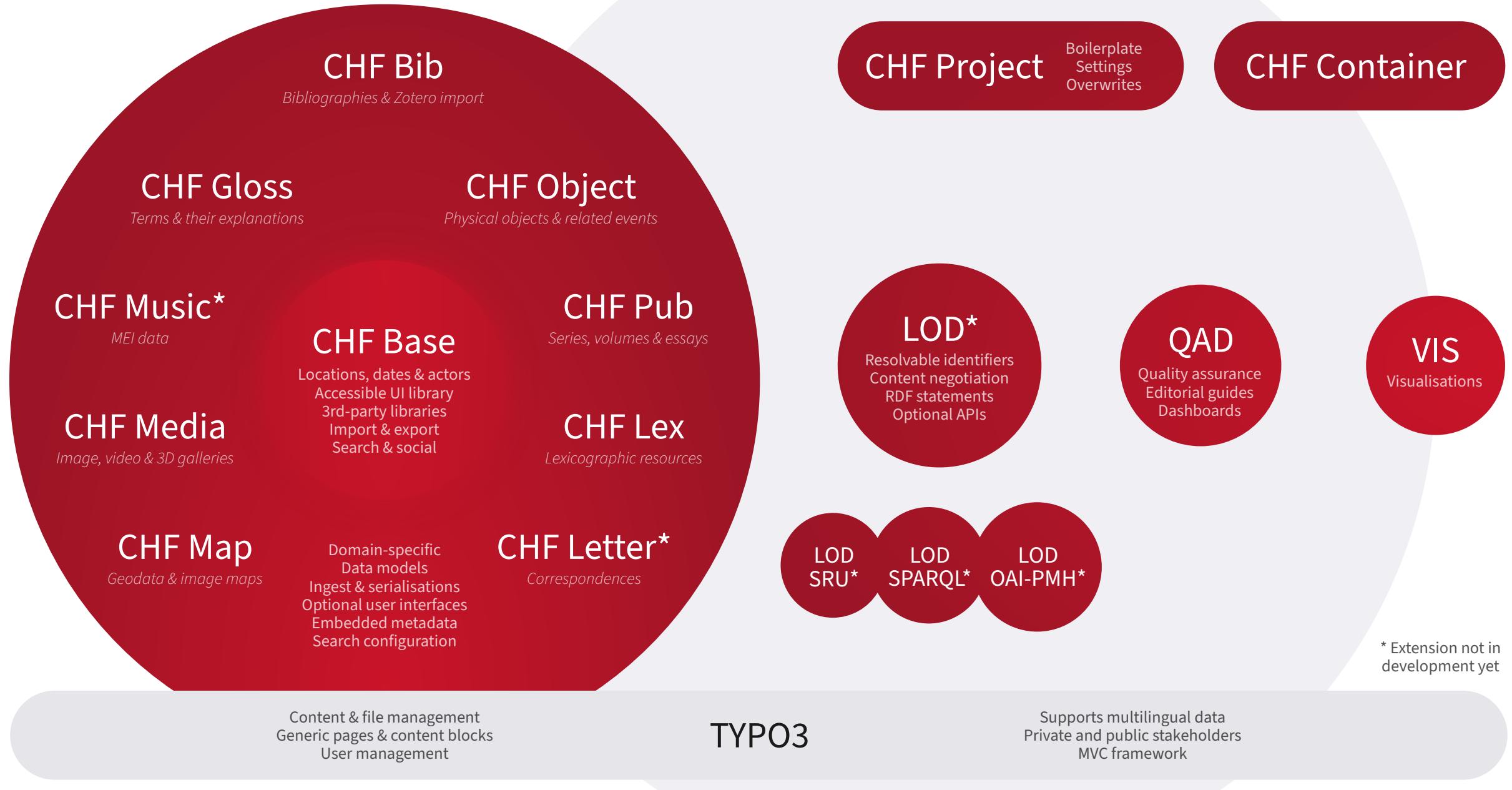
TYPO3 EXTENSIONS



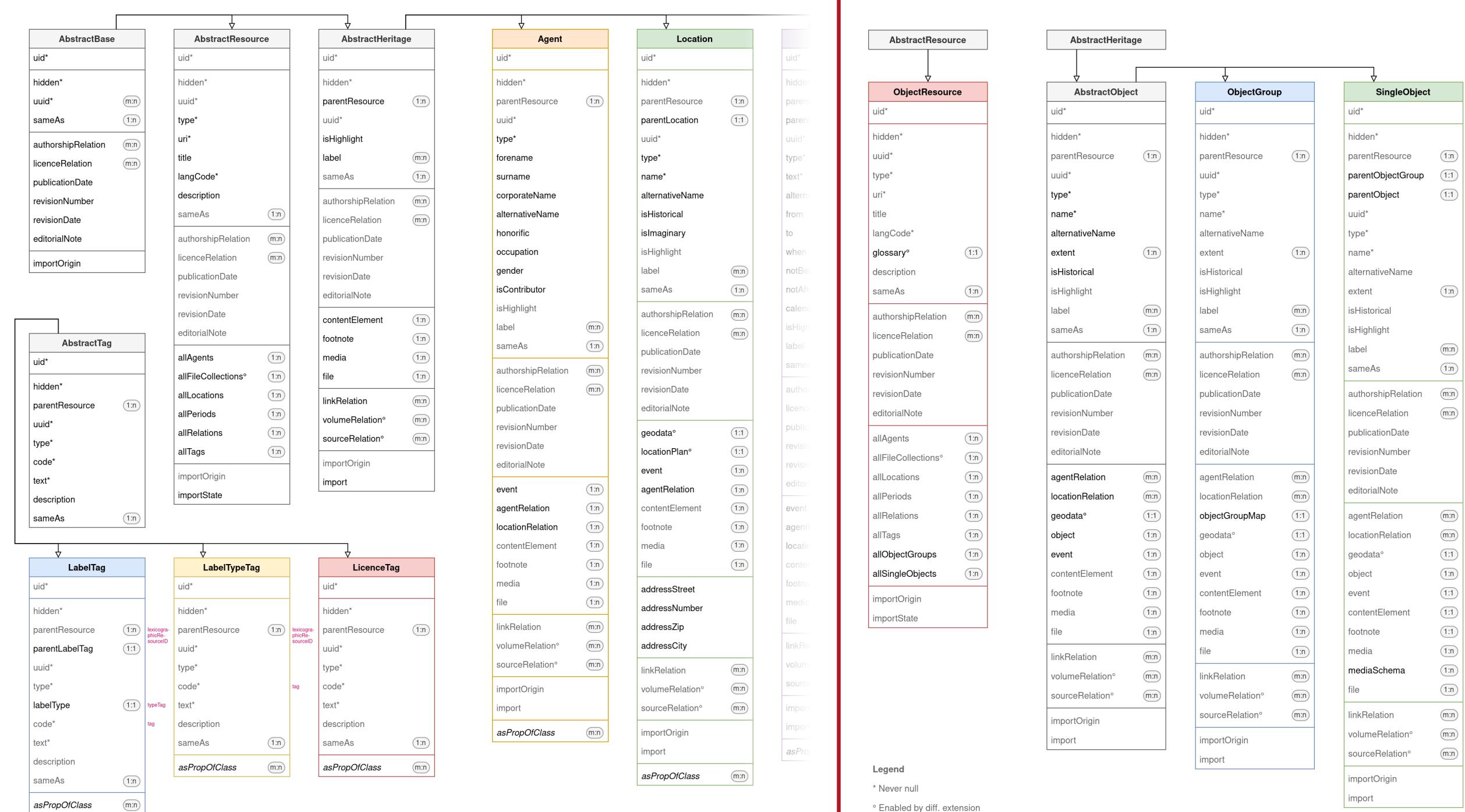
DATABASE TABLES



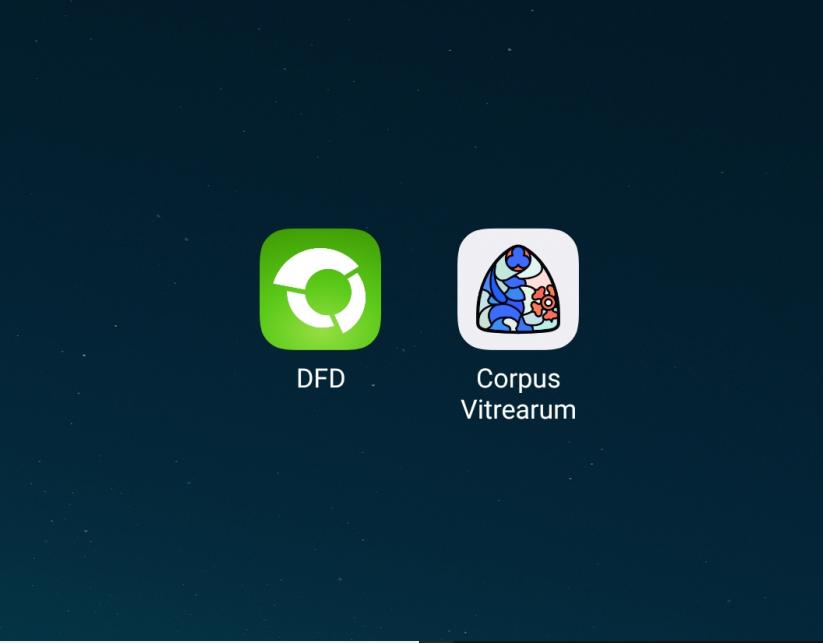
COMPONENTS







ACCESSIBLE FRONT- AND BACKEND



CORPUS VITREARUM
Deutschland

[Glasmalereien](#) Im Kontext Scheibenweise Buchreihe Projekt

[Merkliste](#) [Q](#) [?](#)

[← Zurück](#)

Verkündigung an Maria

[Herunterladen](#)

Gattung	Glasmalerei
Herstellung	vor 1362
Standort	Dom HI. Stephanus u. Sixtus Halberstadt, Sachsen-Anhalt, Deutschland
Fenster	Marienkapelle, I. 1b
Objektmaß	39,7 cm x 60,7 cm
Aufnahme	Digitalisiert von einem Filmpositiv Durchlicht Vorderseite Einzelauflaufnahme In situ
Datum	12. Dezember 1994

Metadaten: CC0
Bild: Renate Roloff, CVMA Potsdam/BBAW, CC BY-NC
Permalink: <https://corpusvitrearum.de/id/F18429>

A large image of a medieval stained-glass window. It shows the Virgin Mary in a green dress holding a blue book, looking up at the Angel Gabriel who is in a red robe. The background is filled with various colors and patterns typical of Gothic stained glass.

Portal für Namensforschung 13.0.1

[Dashboard](#)

[Web](#)

[Seite](#) **Im Wörterbuch stöbern**

Anzeigen

Liste

Formulare

Arbeitsumgebungen

Info

Links prüfen

Papierkorb

Datei

Site Management

Verwaltungswerzeuge

System

Zugriff

Backend-Benutzer

Reactions

Webhooks

Planner

Suchbegriff eingeben

German

Schließen Speichern Anzeigen Löschen

Pfad: /Digitales Familiennamenwörterbuch Deutschlands/ **Im Wörterbuch stöbern [3]**

Seite "Im Wörterbuch stöbern" bearbeiten

Allgemein SEO Soziale Medien Metadaten Erscheinungsbild Verhalten Ressourcen Sprache Zugriff

Kategorien Hinweise

Seite

Typ [doktype]

Standard [1]

Titel

Seitentitel [title]

Im Wörterbuch stöbern

URL-Segment [slug]

http://namenforschung.internal:8080 /dfd/dictionary

Alternativer Navigationstitel [nav_title]

Wörterbuch

Untertitel [subtitle]

Seite [3] [pages]

Research software suite for the production
and publication of humanities data,
built with ❤️ by [@digicademy](#) in Mainz



github.com/digicademy-chf
jonatan.steller@adwmainz.de
@jalle@mozilla.social

WIP

CHF2 designed to be useful for various types of cultural-heritage data

Combines highly structured semantic classes with annotatable fields

To become an extensible one-stop solution for editing/management/publication

Based on an analysis of (digital) ecosystems, accessibility first