



OpenAtlas V



Ein Datenbank System für die Humanities





Alexander Watzinger (Alex)



- Lead developer von OpenAtlas
- Arbeitet am ACDH-CH, ein Institut der ÖAW
- Liebt Open Source und wissenschaftliche Projekte





OpenAtlas

- Projekt Webseite: https://openatlas.eu
- Open Source, browser basierte Datenbank Software
- Erfassen, editieren und verwalten von Forschungsdaten
- Basiert auf dem Modell von <u>CIDOC CRM</u>
- Initiiert vor über 10 Jahren von Stefan Eichert
- Hauptsächlich entwickelt am <u>ACDH-CH</u> / <u>ÖAW</u>







OpenAtlas Kooperationen

- Projekte aus allen Bereichen der Geisteswissenschaften
- Größtenteils historische und archäologische Projekte
- Synergien zwischen den Projekten























Mission Statement

- https://openatlas.eu/mission
- Open source Open data access
- Transparenter Workflow und Kommunikation
- Hohe Datenintegrität und Coding Standards
- Usability
- Interoperabilität durch
 - CIDOC CRM
 - API



- FAIR Grundsätze
- Links zu externen Referenzen Systemen





Daten Strukturieren

Ziel

- Suchen
- Vergleichen
- Zusammenführen
- Forschungsfragen

Umsetzung

- Klassen für Einträge identifizieren
- Mit Attributen bereichern
- Einträge verlinken -> Netzwerk

Herausforderung

 Balance zwischen einfacher Eingabe und Erfassung von Details

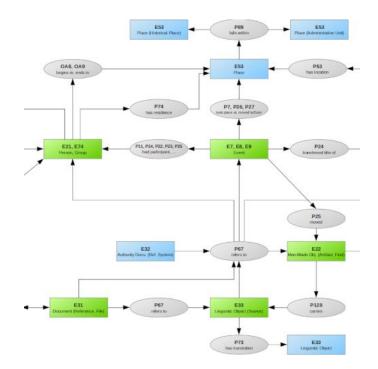






Model - CIDOC Conceptual Reference Model

- Internationaler Standard (ISO)
- Entwickelt von der CIDOC CRM
 Special Interest Group
- Spezifiziert Klassen für Entitäten wie Akteur, Quelle, Ereignis, Ort und Regeln für das Verlinken







CIDOC CRM Beispiel









E18 Mes Aynak

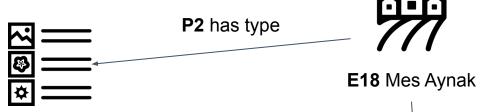
P53 current or former location



E53 Location







E55 Type

- Settlement
- Collection
- Kingdom

• ...

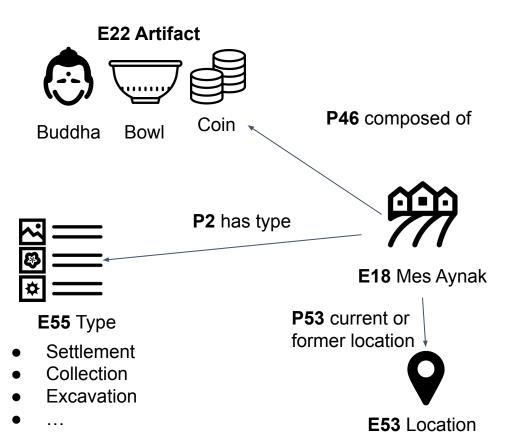
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E53 Location



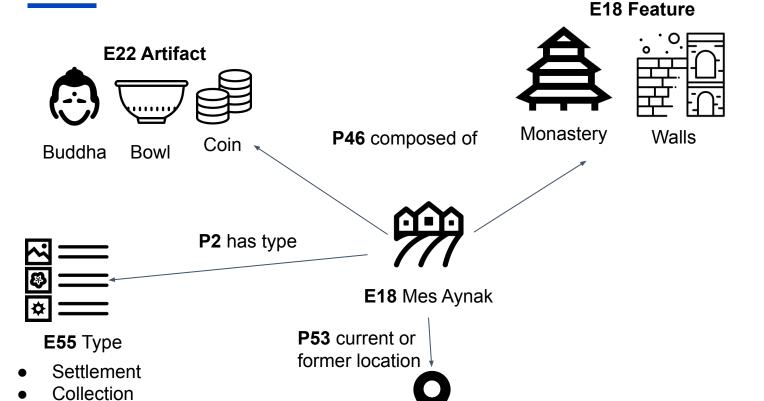






Excavation



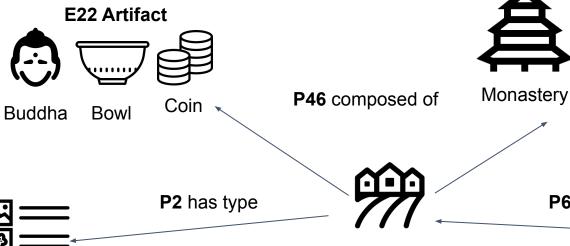


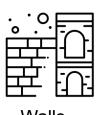
E53 Location













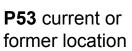


P67 refers to

E31 References



- Settlement
- Collection
- Excavation





E18 Mes Aynak

E53 Location



E31 Image files



E32 Authority Document





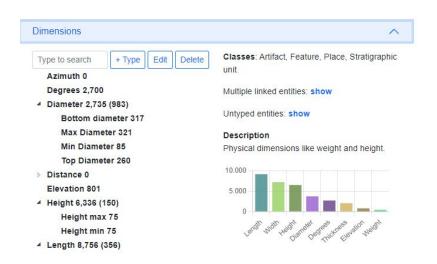
- Detaillierte Beschreibung von <u>Features</u> im Manual
- Spatial, Objekt, Akteur und Ereignis Informationen
 - Detaillierte Beschreibung von Objekten
 - Personen Netzwerke
 - Mitglieder von Gruppen und deren Funktionen
 - Persönliche Beziehungen, Verwandtschaft und mehr
 - Ereignisse
 - Hierarchische Struktur
 - Sequenzen von Ereignissen
 - Örtliche und zeitliche Zuordnung jeder Entität

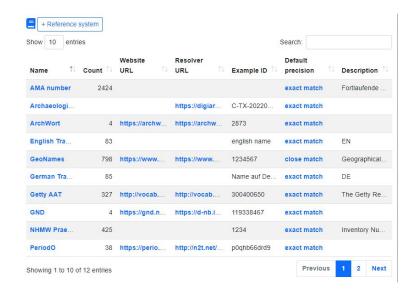






Sehr anpassbare Typen und Referenzsysteme









Lösungen für Unsicherheit in Raum und Zeit

Begin	1011	01	01	comment
	1020	12	31	
End	1425	08	01	destruction









- Archäologische/Anthropologische Features
 - Subunits
 - Radiokarbondatierung
 - Geschlechtsbestimmung

Radiocarbon dating	
Laboratory ID *	VERA
Specimen ID *	23432A
Radiocarbon year *	2040
Range *	30
	Save



Sex estimation		
Edit Delete		
Skull		
Glabella	3	Not preserved
Arcus superciliaris	2	Not preserved
Tuber frontalis and parietalis	2	Not preserved
Inclinatio frontalis	1	Not preserved
Processus mastoideus	3	Not preserved
Relief of planum nuchale	3	Not preserved
Protuberantia occipitalis externa	2	Not preserved
Processus zygomaticus	3	Not preserved
Os zygomaticum	2	Not preserved
Crista supramastoideum	2	Not preserved
Margo supraorbitalis	1	Not preserved
Shape of orbita	1	Not preserved
Mandible		
Overall apperence	3	Not preserved
Mentum	2	Not preserved
Angulus	1	Not preserved







- IIIF Technologie
- Bildannotation







- **Dokumentation**
 - Project Webseite: openatlas.eu
 - Code auf GitHub
 - Ausführliches (up-to-date) User Manual
 - Technisches Wiki, Installationsanleitung
 - Ticket System, Roadmap für die Planung









8.3.0

♠ OpenAtlas

Search docs

USER INTERFACE

Features

Overview

Entity

Tools

Admin

DOCUMENTATION

Model

API

Database Structure

Application Structure

Examples

Troubleshooting

FAQ







- User management
- Passwort Funktionen
- Newsletter

	Admin	Manager	Editor	Contributor	Readonly	Guest
Browse data	yes	yes	yes	yes	yes	
Edit data	yes	yes	yes	yes*		
Edit types	yes	yes	yes			
Add custom types	yes	yes				
Add reference systems	yes	yes				
Import/Export	yes	yes				
User management	yes	yes				
System settings	yes					







Zusammenfassung

- OpenAtlas ist und basiert komplett auf Open Source Software
- Daten werden strukturiert nach dem internationalen Standard von CIDOC CRM
- Aktiv entwickelt mit hohen Qualitätsstandards im Fokus
- Mit Augenmerk auf Dokumentation und nahen Kontakt zu unseren Usern
- API zur Verbindung mit anderen Systemen
- Große Synergien zwischen Projekten die OpenAtlas verwenden
- Getestet und erprobt in vielen produktiven Systemen und Projekten







Bernhard Koschiček-Krombholz

Studierte

- Informatik am Technikum Wien
- Geschichte an der Universität Wien

Aufgabenbereiche

- API
- Backend Entwicklung
- Server Administration







Maria-Theresien-Denkmal









Live Demonstration

https://demo.openatlas.eu/

Benutzer: Demolina, Passwort: Demolina







Olivia Reichl

- Frontend Developerin im OpenAtlas Team
- Arbeitet am ACDH-CH / ÖAW
- Studiert an der Donau Universität Krems
- Liebt alles an gutem Design,
 Gamification und lebenslangem Lernen















OpenAtlas Discovery

Präsentationswebsite für OpenAtlas Projekte

Demo: https://frontend-demo-dev.openatlas.eu

- Gerade in Entwicklung
- Open source, herunterladbar auf <u>GitHub</u>
- Projektdaten und -ergebnisse für ein breiteres Publikum zugänglich machen

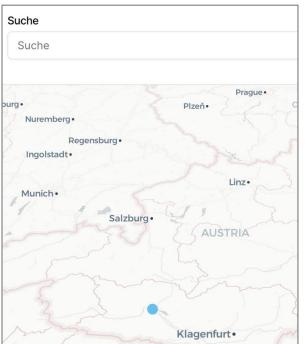






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Team

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Stefan Eichert

Stefan is the the initiator and master mind behind the OpenAtlas project. His main research fields







Zugänglich

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Aktuelle Entwicklung

- CMS (Content-Managment-System)
- Detailansichten für verschiedene Kategorien (Personen, Orte, Events)
- Karten-Visualisierungen für Bewegung
- Netzwerk-Visualisierung













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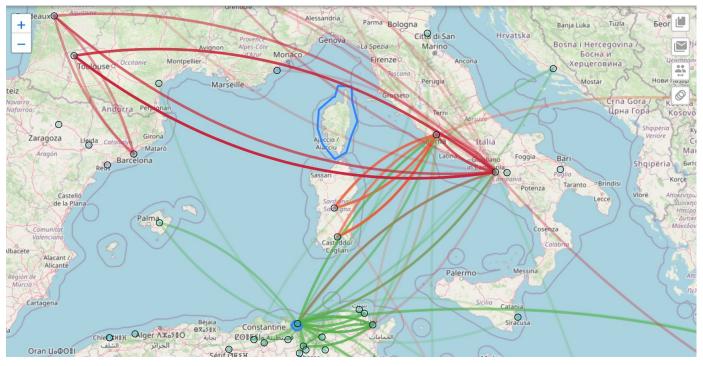














https://discover-connec.openatlas.eu/map





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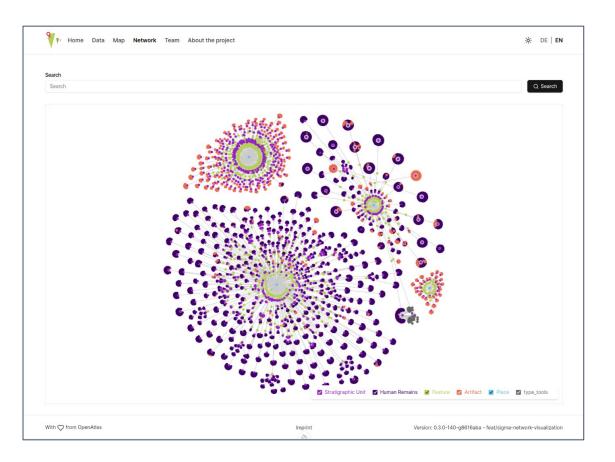








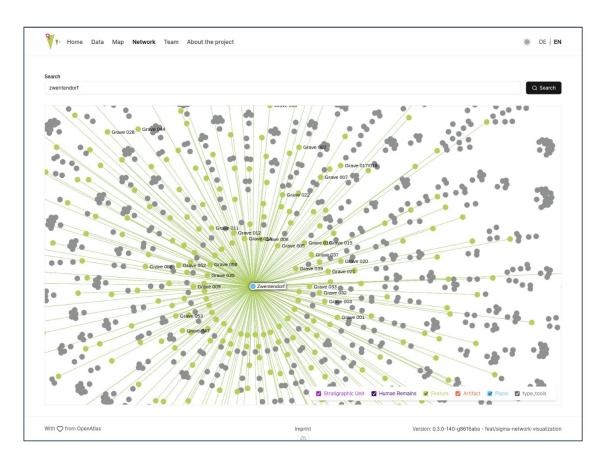








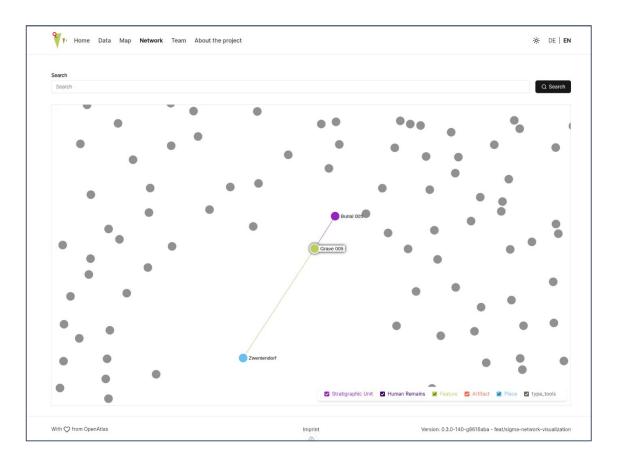


















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Feedback,

vor allem im
Anfangsstadium,
ist immer willkommen :)

- Redmine







Danke! OpenAtlas



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