



OpenAtlas 👣

A Database System for the Humanities and Beyond

5. February 2025 - Meet the Researchers





Alexander Watzinger (Alex)



- Lead developer of OpenAtlas
- Works at the ACDH-CH / ÖAW
- Loves open source and scientific projects





Olivia Reichl

- Frontend developer in the OpenAtlas team
- Works at <u>ACDH-CH</u> / <u>ÖAW</u>
- Studies at the Danube University Krems
- Loves everything about good design, gamification and lifelong learning









OpenAtlas

- Project site: https://openatlas.eu
- Open Source, browser based database software
- Acquire, edit and manage research data
- Based on the model of <u>CIDOC CRM</u>
- Initiated over 10 ago by Stefan Eichert
- Mainly developed at the <u>ACDH-CH</u> / <u>ÖAW</u>







OpenAtlas Cooperations

- Projects from all fields of the humanities
- Mostly historical and archaeological projects
- A lot of synergy between the cooperations























Mission Statement

- https://openatlas.eu/mission
- Open source Open data access
- Transparent workflow and communication
- High data integrity and coding standards
- Usability
- Interoperability through
 - CIDOC CRM
 - API



- <u>FAIR</u> principles
- Links to external reference systems





Structured data

Aim

- Search
- Compare
- Merge
- Research questions

Workflow

- Identify classes for entities
- Add attributes
- Link entities -> network

Challenge

 Balance between easy data entry and acquiring detailed information

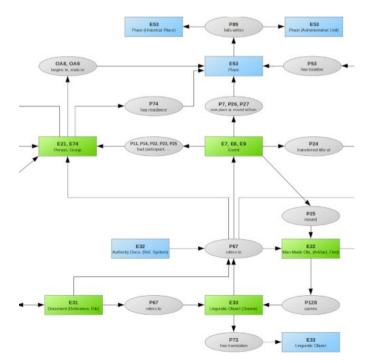






Model - CIDOC Conceptual Reference Model

- International standard (ISO)
- Developed by the CIDOC CRM
 Special Interest Group
- Specifies classes for entities like actor, source, event, place and rules how to link them







CIDOC CRM Example









E18 Mes Aynak

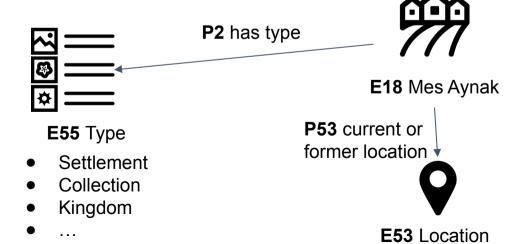
P53 current or former location •



E53 Location

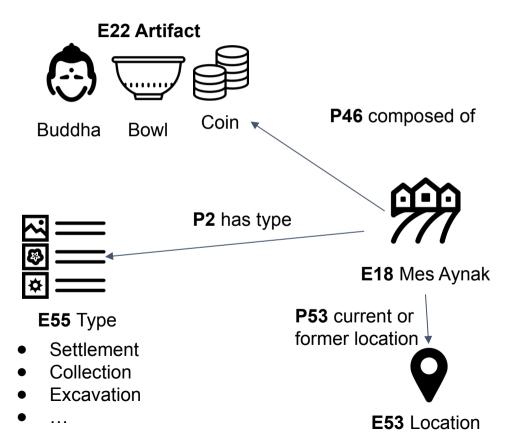








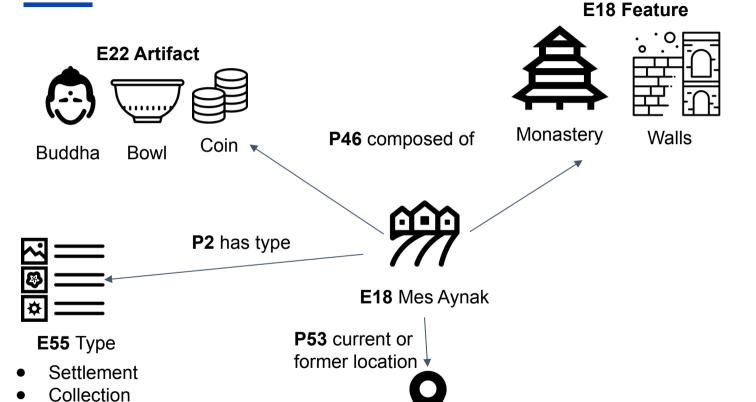






Excavation





E53 Location



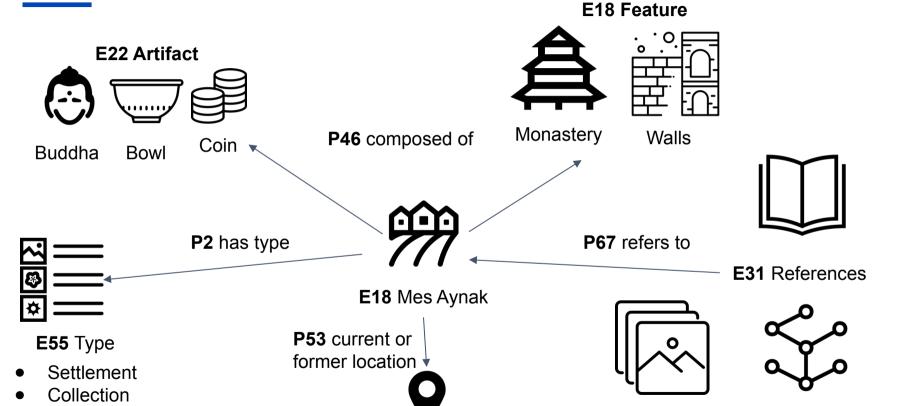
Excavation



E32 Authority

Document

E31 Image files



E53 Location





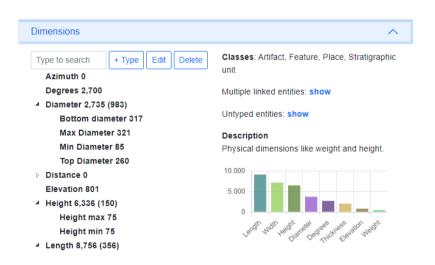
- Detailed description of <u>Features</u> in the manual
- Spatial, object, actor and event information
 - Detailed descriptions of objects
 - Person networks
 - Members of groups and their functions
 - Personal relations, kinship and more
 - Events
 - Hierarchical structure
 - Sequences of events
 - Geographical and temporal information about every entity

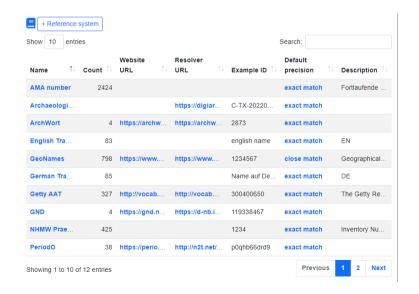






Very adaptable types and reference systems









Solutions for uncertainty in space and time

Begin	1011	01	01	comment
	1020	12	31	
End	1425	08	01	destruction
	1425	10	31	





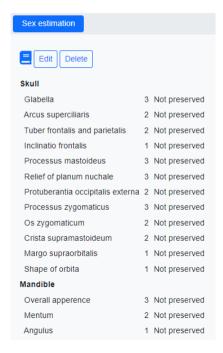




- Archaeological/anthropological features
 - Subunits
 - Radio carbon dating
 - Sex estimation













- IIIF technology
- Image annotation
- Text annotation







- Documentation
 - Project website: <u>openatlas.eu</u>
 - Code on <u>GitHub</u>
 - Detailed (up-to-date) <u>User Manual</u>
 - Technical <u>Wiki</u>, <u>installation notes</u>
 - <u>Issue tracker</u>, <u>roadmap</u> for planning



Public meeting <u>protocols</u>





8.3.0

Search docs

USER INTERFACE

Features

Overview

Entity

Tools

Admin

DOCUMENTATION

Model

API

Database Structure

Application Structure

HELP

Examples

Troubleshooting

FAQ





- User management
- Password functions
- 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					







Live Demonstration

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

User: Demolina, Password: Demolina







Exercise

- https://demo-dev.openatlas.eu/
- Create a place
- Create an artifact of the place (statue)
- Upload an image
- Annotate the image
- Add an owner
- Results are visible at the presentation site: https://openatlas-discovery-demo.acdh-ch-dev.oeaw.ac.at/





OpenAtlas V



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