An open source application to map historical data with CIDOC CRM

Alexander Watzinger
February 11, 2020

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The Projects

Mapping Medieval Conflict
2014 - 2017, PI: Johannes Preiser-Kapeller

Digitising Patterns of Power
2015 - 2019, PI: Mihailo Popović
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• Build the foundation
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- Data
  - Use cases: social network analyzes, map viewer
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  - Kindly provided data for demo versions
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- Data
  - Use cases: social network analyzes, map viewer
  - Kindly provided data for demo versions
  - Used in new projects
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**Connected Clerics: Building a Universal Church in the Late Antique West**
2018 - 2022, PI: David Natal

**The Anthropological and Archaeological Database of Sepultures**
2019 - 2022, PI: Stefan Eichert, Nina Brundke
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New cooperations with ACDH-CH

- Infrastructure
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New cooperations with ACDH-CH

- Infrastructure
- New features for different research topics
- Synergy between projects
- Long time archiving
The Team

Stefan Eichert
Idea, Concept and Data Modelling

Alexander Watzinger
Software Development and Concept
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Christoph Hoffmann
Frontend Development

Bernhard Koschicek
Software Development

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Software Development

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Veronika Gründhammer
Project Administration

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The Contributors

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The Model
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CIDOC Conceptual Reference Model (CRM)
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• International Council of Museums (ICOM)
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- International standard (ISO 21127)
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- Defines classes, properties and rules how to link them
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• Designed to improve information sharing
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Linguistic Object (E33)

Place (E53)  Event (E5)  Person (E21)
The Model

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Linguistic Object (E33)
  \[\text{refers to} (P67)\]
  \[\text{took place at} (P7)\]
  \[\text{had participant} (P11)\]

Place (E53)
Event (E5)
Person (E21)

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The Development

• A new version about every month
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• Python3, Flask, PostgreSQL + PostGIS
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- High coding standards (bug free, tests, ...)

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• Transparent workflow
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• Next steps: API, more linked data
Thank you for listening

https://openatlas.eu