An open source application to map historical data with CIDOC CRM

Alexander Watzinger

July 3th, 2019

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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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- Build the foundation
- Flexible for different research topics
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  - Use cases: social network analyzes, map viewer
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  - Kindly provided data for demo versions
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- Build the foundation
- Flexible for different research topics
- Data
  - Use cases: social network analyzes, map viewer
  - Kindly provided data for demo versions
  - Used in new projects
The Projects

**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

• Infrastructure
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New cooperations

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- New features for different research topics
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New cooperations

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

Stefan Eichert
Idea, Concept and Data Modelling

Alexander Watzinger
Software Development and Concept

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The Team

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Idea, Concept and Data Modelling

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Quality Assurance

Jan Belik  
Logo Design and Design Consulting

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Software Development and Concept

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Quality Assurance

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The Model
The Model

CIDOC Conceptual Reference Model (CRM)
The Model

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

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- Letter
  - Church
  - Meeting

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The Model

CIDOC Conceptual Reference Model (CRM)

Letter

Linguistic Object (E33)

Church
Place (E53)

Meeting
Event (E5)

Person (E21)
The Model

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The Development

- A new version about every month
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- Transparent workflow
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- Transparent workflow
- Python3, Flask, PostgreSQL + PostGIS
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- Next steps: Linked data
Thank you for listening

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