

The ITN-DCH Project

Overview and Scientific Work

Chance M. Coughenour
Dieter Fritsch

"This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 608013."



“To integrate, or not to
integrate?”

- *NOT Shakespeare*

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Video recordings
Online Content
Written records
Metadata
Oral histories
3D Models
Maps
Photos
Religious ceremonies
Dance
Animations
Music
Thermal imaging
Paradata
Archaeological remains

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ITN-DCH



Initial Training Network
for
Digital Cultural Heritage

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Project Network



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Project Network

Academia

Research Institutes

Private Industry

Libraries and Museums

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Fellows

20 PhD and postdoctoral researchers

Germany
Italy
United Kingdom
Spain
Switzerland
France

Belgium
Slovenia
Greece
Austria
Cyprus

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Aim

The goal of the project is to develop a *holistic framework* that utilises the inter-sectorial focus of cultural heritage research while addressing all of the aspects which it entails, from tangible objects to intangible content.

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Mathematics

Photogrammetry

Civil Engineering

Philosophy

Precolumbian Archaeology

Rural and Surveying Engineering

Computer Science

Near-Eastern Archaeology

Chemical Engineering

Architecture

History

Geomatics

Geoinformatics

Physics

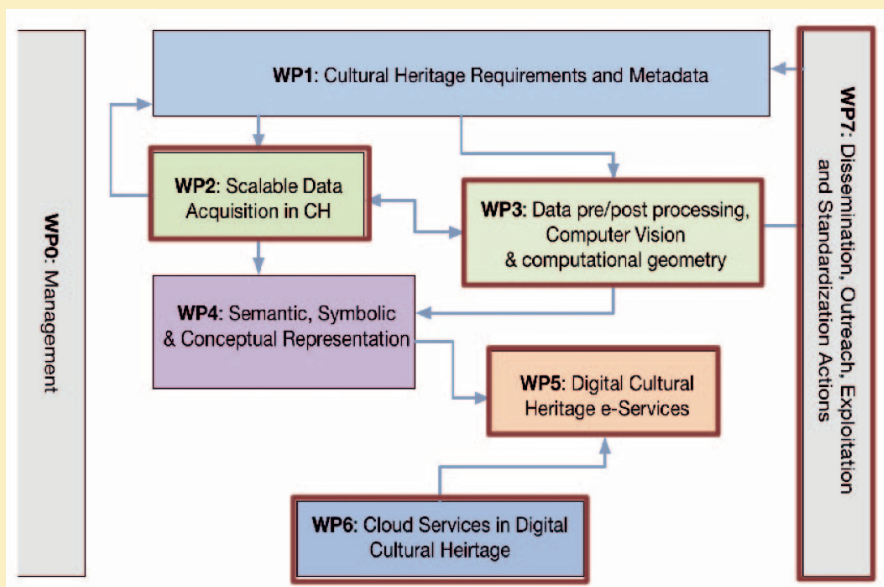
Cartography

Heritage Science

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Work Package Flowchart



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Case Studies

Asinou Church, Cyprus

Donaustauf Castle, Germany

Ilmendorf Archaeological Site, Germany

Carnuntum Archaeological Park, Austria

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Asinou Church, Cyprus



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UNESCO World Heritage Site

Constructed in 12th century

Previously documented and investigated



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Project Secondments



Supervisor: Dr. Marinos Ioannides

Fellows: Matthew Vincent
Chance Coughenour



Supervisor: Michael Klein

Fellows: Marleen de Kramer
Simon Senecal
Chance Coughenour

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Web Portal



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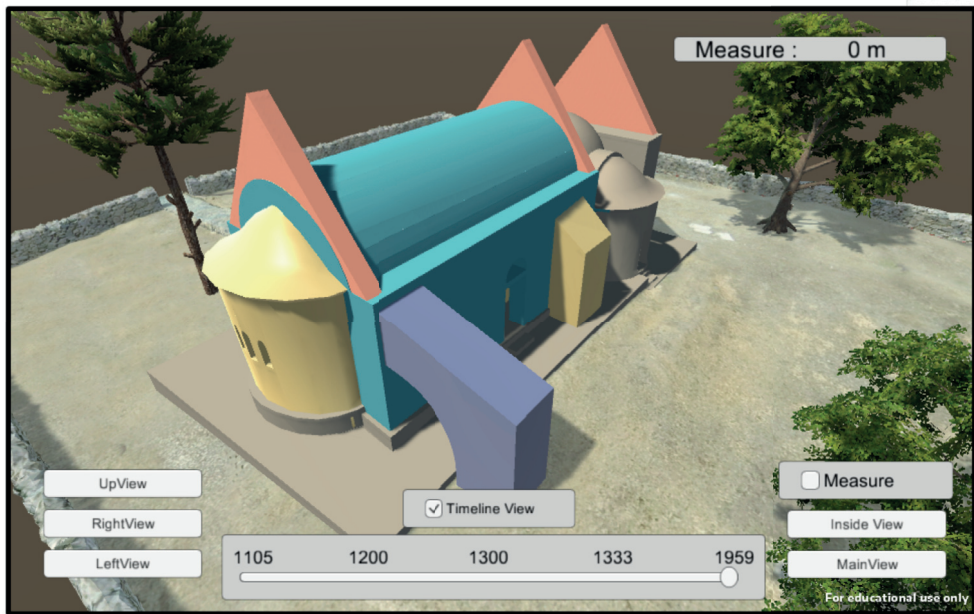
Asinou Viewer



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Asinou Viewer



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Asinou Viewer



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Augmented Reality Application



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Project Secondment

ArcTron 3D

Expertise in Three Dimensions

Supervisor: Martin Schaich

Fellows: Diego Bellido Castaneda
Matevz Domajnko
Chance Coughenour
Marleen de Kramer
Rossella Suma
Magda Ramos
Ellie Stathopoulou
Anais Guillem

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Donaustauf Castle, Germany



Credit: ArcTron3D

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Data Acquisition



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Riegl VZ-2000



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Visit with Site Historian



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Close Range Photogrammetry



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HDR Imaging



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Ilmendorf Archaeological Site



Zeichnung: BLfD

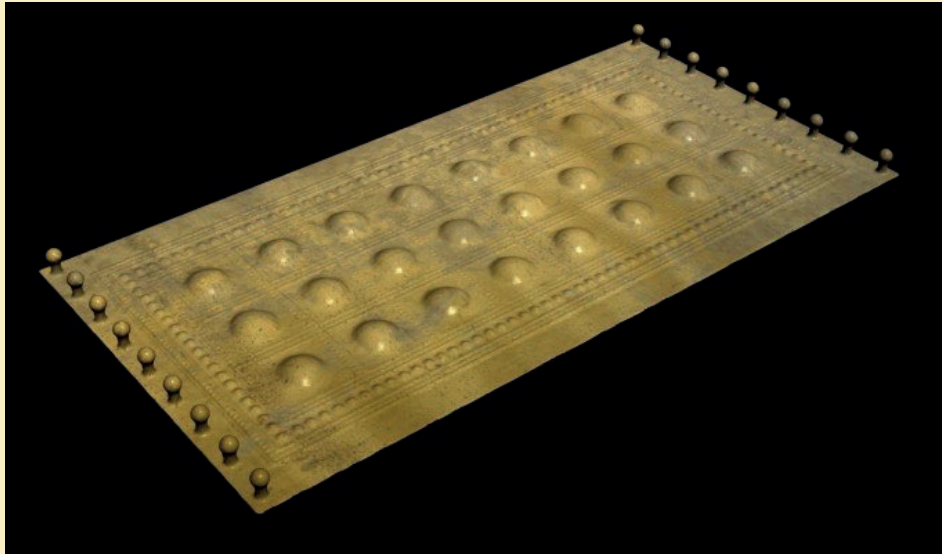


Foto: KANT

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Belt Plate Reconstruction (draft)

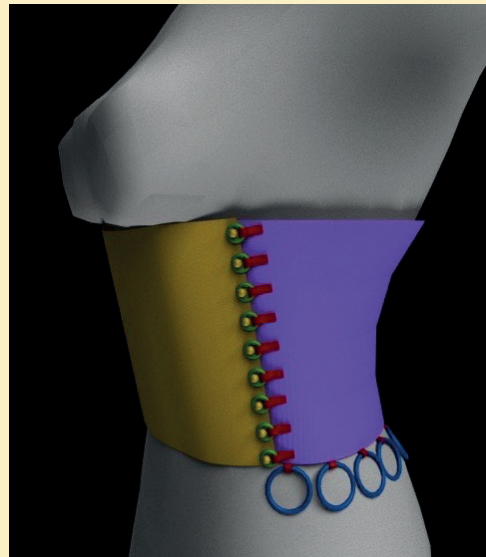
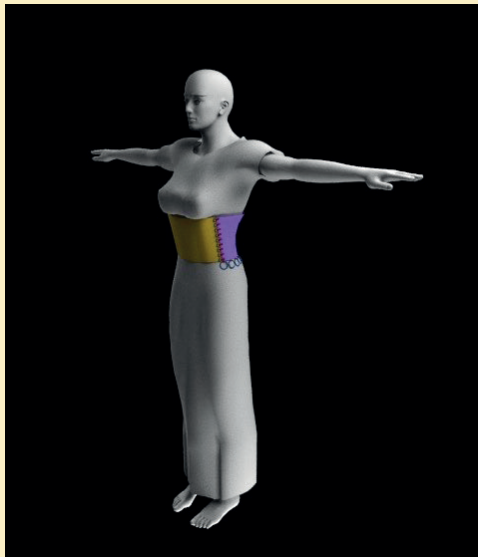


Credit: Marleen de Kramer, 7reasons

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Belt Plate Reconstruction (draft)



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Project Secondment



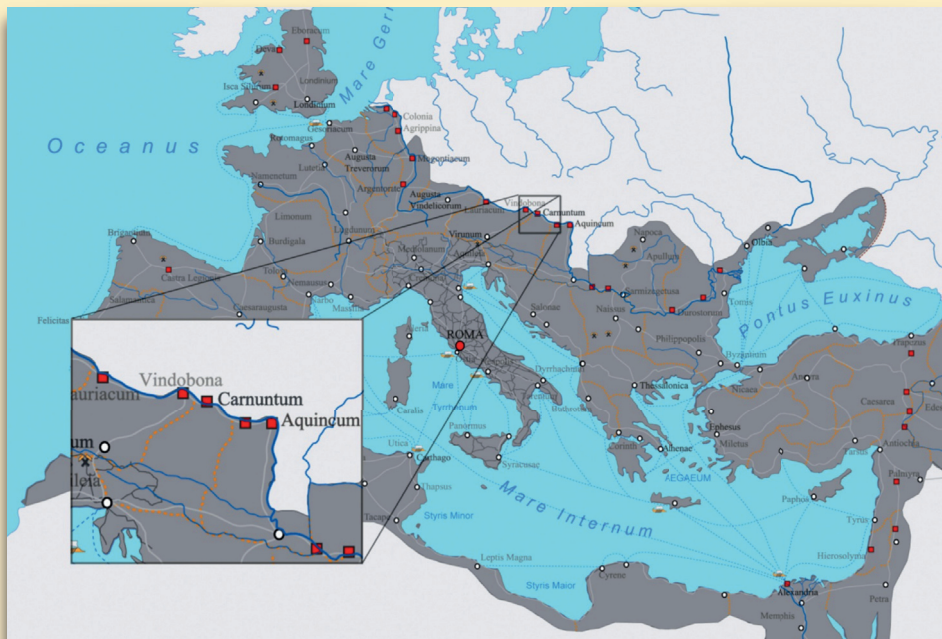
Supervisor: Prof. Dieter Fritsch

Fellows: Diego Bellido Castaneda
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Magda Ramos Calle
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Carnuntum Archaeological Site

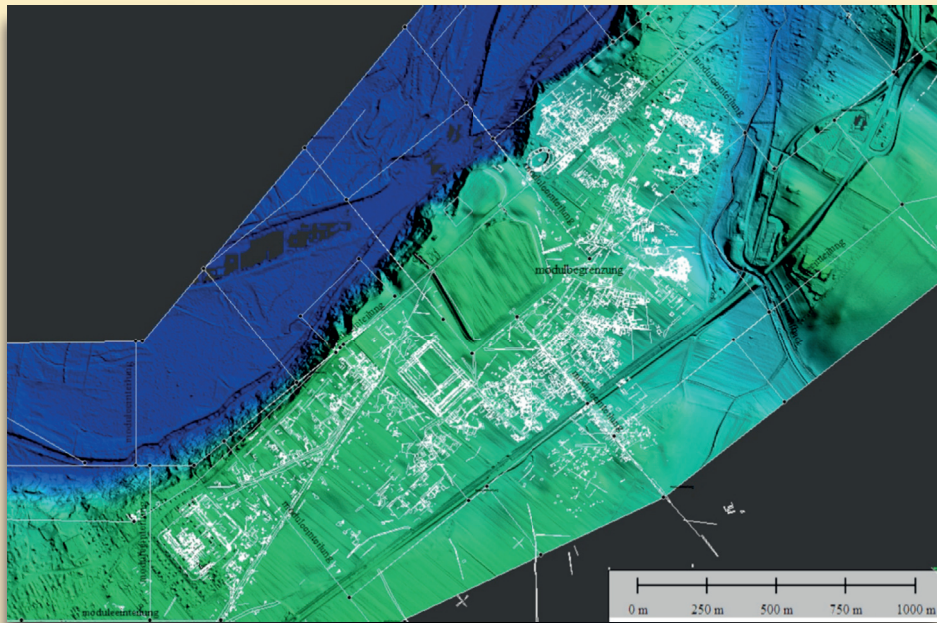


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Carnuntum Archaeological Site



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Conclusions

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