

ARCHAIDE

Archaeological Automatic Interpretation and Documentation of cEramics

Kurzbeschreibung des Projekts:

The objectives of ArchAIDE are to support the classification and interpretation work of archaeologists with innovative computer-based tools, able to provide the user with features for the semi-automatic description and matching of potsherds over the huge existing ceramic catalogues. Pottery classification is of fundamental importance for the comprehension and dating of the archaeological contexts, and for understanding production, trade flows and social interactions, but it requires complex skills and it is a very time consuming activity, both for researchers and professionals. This tool would revolutionise archaeologists habits, behaviours and expectations, would meet real user needs and generate economic benefits, reducing time and costs, would create societal benefits from cultural heritage, improving access, re-use and exploitation of the digital cultural heritage in a sustainable way.

These objectives will be achieved through the development of:

- an as-automatic-as-possible procedure to transform the paper catalogues in a digital description, to be used as a data pool for search and retrieval process;
- a tool (mainly designed for mobile devices) that will support archaeologists in recognising and classifying potsherds during excavation and post-excavation analysis, through an easy-to-use interface and efficient algorithms for characterization, search and retrieval of the visual/geometrical correspondences;
- an automatic procedure to derive a complete potsherd's identity card by transforming the data collected into a formatted electronic document, printable or visual;
- a web-based real-time data visualization to improve access to archaeological heritage and generate new understanding;
- an open archive to allow the archival and re-use of archaeological data, transforming them into common heritage and permitting economic sustainability.

Those instruments will be tested and assessed on real-cases scenarios, paving the way to future exploitation.

Deutsche Partner im Projekt:

Universität zu Köln
Arbeitsstelle für Digitale Archäologie (CoDArchLab)
Prof. Dr. Michael Heinzelmann
<http://archaeologie.uni-koeln.de/node/59>

Weitere Partner:

CONSIGLIO NAZIONALE DELLE RICERCHE, IT
TEL AVIV UNIVERSITY, IL
UNIVERSITY OF YORK, UK
UNIVERSITAT DE BARCELONA, ES
BARAKA ARQUEOLOGOS S.L., ES
ELEMENTS CENTRO DE GESTIO I DIFUSIO DE PATRIMONI CULTURAL, ES
INERA SRL, IT

Koordination:

Universita di Pisa
MAPPA Lab
Francesca Anichini
Italien
www.mappaproject.org

Förderlinie:

Innovation Action (IA)

Forschungsbereich:

6. Gesellschaftliche Herausforderung/
Verbundforschung

Topic:

REFLECTIVE-6-2015 - Innovation ecosystems
of digital cultural assets

Laufzeit:

36 Monate

Projektbeginn:

01.06.2016

EU Beitrag:

EUR 2 460 376

Projekt-Website:

www.archaide.eu

Proposal-Nummer:

693548

Diese Informationen wurden für Sie zusammengestellt durch die:

Nationale Kontaktstelle Gesellschaft

Projekträger im Deutschen Zentrum für Luft- und Raumfahrt e.V.

Heinrich-Konen-Str. 1

53227 Bonn

Telefon: 0228 38 21 - 1644

E-Mail: nks-gesellschaft@dlr.de

www.nks-gesellschaft.de

