ArchAIDE aims to create a new system for the automated recognition of archaeological pottery from excavations around the world. Funded by the European Union, the project involves more than 35 researchers, computer scientists, designers, and video makers from nine universities, public research centres and private companies from five countries (Italy, Germany, Israel, Spain, United Kingdom). Pottery is of fundamental importance for the comprehension and dating of archaeological contexts, and for understanding the dynamics of production, trade flows, and social interactions. Today, this classification of ceramics is carried out manually, through the expertise of specialists and the use of analogue catalogues held in archives and libraries. The goal of ArchAIDE is to optimise and economise this process, making resources accessible wherever archaeologists are working. ArchAIDE aims to allow the study of archaeological objects to be undertaken more quickly, using a tablet or smartphone to take a photo of a fragment, send the photo and information to a database, activate an automated identification system, receive an answer with connected information, and share new discoveries online! This is ArchAIDE, a project to help archaeologists in their work and build new understanding!

www.archaide.eu

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ARCHAEOLOGICAL AUTOMATIC INTERPRETATION AND DOCUMENTATION OF CERAMICS

ArchAIDE Workflow
1. Excavation
2. Image capture with mobile device
3. Processing the inquiry
4. Presenting results
5. Sharing online

User inquiries will be compared to a reference database with textual and image data. The ArchAIDE database will be populated with already structured metadata and specially digitized catalogues. The text will then be extracted and imported. Drawings of pottery are very important for automated recognition. The cross-section of a sherd can be compared with the drawings for identification and other uses, such as generating a 3D-model. Pottery classes used for proof of concept: Roman Amphorae • Terra Sigillata • Majolica