ARCHAIDE What can a fragment of ceramic tell us? How much information is hidden within it? Every day, all over the world, archaeologists spend a great deal of time, energy and money to identify individual pieces of ceramic, in order to discover the stories that objects tell us about our past. An international team of archaeologists and ICT specialists are working to simplify and automate this work; making it accessible by a "click". 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! ARCHAEOLOGICAL This is ArchAIDE, a project to help archaeologists in their work and AUTOMATIC INTERPRETATION build new understanding! AND DOCUMENTATION **OF CERAMICS** 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. **ArchAIDE Workflow** The goal of ArchAIDE is to optimise and economise this process, making resources accessible wherever archaeologists are working. Excavation Image capture with mobile device Processing the inquiry Presenting results 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 Università di Pisa More Info Consiglio Nazionale MAPPA Lab - Dept. Civiltà e Forme del Sapere University of Pisa TEL AUIU UNIUERSITY via dei Mille 19, 56126 Pisa - Italy Ph. +39 050 2215817 info@archaide.eu UNIVERSITY of York UNIVERSITAT DE BARCELONA Universität zu Köln Baraka **ARCHAEOLOGICAL** This project has received ARCHAIDE AUTOMATIC INTERPRETATION AND DOCUMENTATION OF CERAMICS funding from the European Elements Union's Horizon 2020 research and innovation programme oinera under grant agreement www.archaide.eu N.693548 f S O F You Tube