

Funded by
the European Union

UNICHE

UNICHE: A No-Code, Human-AI Platform for Cultural Heritage Experiences

Michalis Zervas, Ioannis Zikos, Vasileios Perifanis, Vasilis Zafeiropoulos, Akrivi Katifori, Maria Boile, Chairi Kiourt, Yannis Ioannidis

Athena Research Center

ACM GreekCHI-CYCHI Symposium 2026

Dynamics of Hybrid Collaborative Networks | Thessaloniki, Greece, 6-7 November 2026

Funded by the European Union

Motivations & Challenges



Growing demand for **interactive, immersive** and **personalized** cultural heritage experiences



Adoption of **AI, XR, web** and **mobile** technologies by CH institutions



Fragmented tools: separate systems for content, design, delivery and evaluation hinder collaboration



Need for **accessible, no-code** creation by non-technical experts

Funded by the European Union

UNICHE

GreekCHI Symposium

CYCHI

Research Question & Key Objectives

RESEARCH QUESTION

How can **one no-code platform** let **non-technical** cultural heritage professionals create **AI-assisted experiences** across **onsite, hybrid and remote** settings?

Key Objectives

- **Hybrid Human–AI collaboration**
- **Unified no-code platform**
- **Technology-agnostic architecture**
- **AI-assisted experience authoring**
- **Interoperability with ECCCH**

Funded by the European Union

UNICHE

GreekCHI Symposium

CYCHI

Hybrid Human–AI Architecture – 4E Approach



Funded by the European Union

UNICHE

GreekCHI Symposium

CYCHI

Validation Across Europe

Internal Pilot Environments

- Open-air archaeological sites
- Museum exhibitions
- Portable exhibitions

10 **Open Call Pilots**
Pan-European expansion

Extending validation to more CH institutions and diverse use cases across Europe



Archaeological site
Kalapodi, Greece



Messapian city walls
Ugento, Italy



Museo Galileo
Florence, Italy



Museum of Architecture
Wrocław, Poland

Funded by the European Union

UNICHE

GreekCHI Symposium
CYCHI

Impact



Empowers multidisciplinary **Human–AI** collaboration



Simplifies cultural heritage authoring through **no-code**



Enables interoperable and **multimodal** experiences



Supports data-driven visitor engagement and evaluation

36	12	7	10
Months	Partners	Countries	Open Call Pilots

Funded by the European Union

UNICHE

GreekCHI Symposium

CYCHI

UNICHE

echoes

Consortium

uni.systems

ATHENA Research & Innovation Information Technologies

miasto. praco wnia —

FundingBox

<mobics>

IN2 AI-powered Web Solutions

leopoly

DEUTSCHES ARCHÄOLOGISCHES INSTITUT ATHEN

Consiglio Nazionale delle Ricerche

Spc Istituto di Scienze del Patrimonio Culturale

museo galileo Istituto e Museo di Storia della Scienza

uniche-eccch.eu | info@uniche-eccch.eu | linkedin

Funded by the European Union