European Commission

Research and Innovation

DRIVING A GREEN, DIGITAL AND INNOVATIVE EUROPEAN CULTURAL HERITAGE

EU-funded research and innovation projects from the **2024** call for proposals of Horizon Europe's cluster 2 "Culture, creativity and inclusive society"



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2026

Directorate-General for Research and Innovation
Horizon Europe's Cluster 2 "Culture, Creativity and Inclusive Society"



CONTENTS

INTRODUCTION 6

GREEN CULTURAL HERITAGE 8

1 HORIZON-CL2-2024-HERITAGE-01-01:
New European Bauhaus – Innovative solutions for greener and fairer ways of life through arts and culture, architecture and design for all 9

1.1 **Art of Darkness** - Art of Darkness as Cultural Heritage of Urban Landscape 10

1.2 **CONVIVIUM** - New European Bauhaus Solutions in Food, Living Heritage, and Conviviality Challenge 11

1.3 **Make-a-thek** - Modular Library Makerspaces for Heritage Crafts Innovation and Digitisation 12

1.4 **STARTUP** - Sustainable Transition, Action Research and Training in Urban Perspective 13

2 HORIZON-CL2-2024-HERITAGE-01-02:
Cultural and creative industries for a sustainable climate transition 14

2.1 **Just Fashion** - Supporting the Just transition for the Fashion sector 15

2.2 **SIMIACCI** - Sustainable Intelligent Management of Indoor Air Quality for the Culture and Creative Industries 16

2.3 **EMCCINNO** - EMpowering CCIs to boost systemic INNOvation for sustainable climate transition 17

2.4 **StreamSCAPES** - Driving Sustainable Climate Transition of Video-On-Demand Platforms at a Time of Transformation 18

DIGITAL 19

3 HORIZON-CL2-2024-HERITAGE-01-03:
Leverage the digital transition for competitive European cultural and creative industries 20

3.1 **ELLIE** - On the UsE of Internet of Senses for the CuLturaL HerItagE 21

3.2 **HAMLET** - Human-centred generative Ai fraMework for cultural- IndustriEs' digital Transitions 22

3.3 **AMPLIFY** - Phygital Solutions for the Cultural and Creative Industries 23

3.4 **EXCENTRIC** - Excelling Human-Centric Collaborative Ecosystems for Smart Digital Transformations in CCIs 24

INNOVATIVE CULTURAL HERITAGE 25

4 HORIZON-CL2-2024-HERITAGE-01-04:
Europe's cultural heritage and arts – promoting our values at home and abroad 26

4.1 **ANIMA MUNDI** - PIP, Discoverability and Partnerships: Reviving the International Promotion of European Values Through European Animation Industry Ecosystem 27

4.2 **COLUMN** - Colonial Legacies of Universities: Materialities and New Collaborations 28

4.3 **DanceMap** - Innovation Pathways and Policies to Promote European Dance Heritage at Home and Abroad 29

4.4 **RELISH** - Reframing European Gastronomy Legacy through Innovation Sustainability and Heritage 30

5 HORIZON-CL2-2024-HERITAGE-01-05:
Strategies to strengthen the European linguistic capital in a globalised world 31

5.1 **Pluridentities** - Protecting and stimulating plurilingual identities in learners in Europe via inclusive policies and classroom practices 32

5.2 **FOSTERLANG** - Fostering Linguistic Capital: A Roadmap for Reversing the Diversity Crisis and Activating Societal Benefits in Europe 33

5.3 **MultiLX** - Strategies to Strengthen European Linguistic Capital in a Globalised World 34

5.4 **REVIVE** - Community-centred language REVItalisation powered by heritage-led storytelling and digital innovation in Europe 35

EUROPEAN COLLABORATIVE CLOUD FOR CULTURAL HERITAGE 36

6 HORIZON-CL2-2024-HERITAGE-ECCCH-01-01:
Innovative tools for digitisation and analysis of dynamic processes, objects and complex combined data 37

6.1 **Kinetika** - Advancing the Digitization and Analysis of Dynamic Cultural Heritage Objects 38

6.2 **MusicSphere** - A Multimodal Approach for Digitizing, Analyzing, and Simulating Traditional Musical Organs Through 3D Technologies, Acoustic Analysis and Interactive Experiences 39

7 HORIZON-CL2-2024-HERITAGE-ECCCH-01-02:
A European Collaborative Cloud for Cultural Heritage – Innovative tools for documenting, interlinking and organising data **40**

7.1 **StratiGraph** - Knowledge Graphs for Stratigraphy 41

7.2 **ARXIVE** - Advanced Research and eXploration for Interoperable Value in European Heritage 42

8 HORIZON-CL2-2024-HERITAGE-ECCCH-01-03:
A European Collaborative Cloud for Cultural Heritage – Innovative tools for advanced data enrichmen **43**

8.1 **INFINITY** - Multidimensional knowledge-based annotation for ethical context-aware heritage data life cycles 44

8.2 **ECHOLOT** - European Cultural Heritage Optimised Linked Open Tools 45

9 HORIZON-CL2-2024-HERITAGE-ECCCH-01-04:
A European Collaborative Cloud for Cultural Heritage – Innovative tools for high-value interactions with visitors and heritage objects **46**

9.1 **UNICHE** - Unified No-Code platform for Interactive Cultural Heritage Experiences 47

9.2 **Placemus XR** - Digital Journey across Musical Places in Europe and Extended Realities 48

10 HORIZON-CL2-2024-DEMOCRACY-01-10:
A European Collaborative Cloud for Cultural Heritage – Innovative tools for the study, conservation and restoration of heritage objects **49**

10.1 **EXCALIBUR** - Advanced toolkits for interdisciplinary and enhanced study, conservation, and restoration in burial excavations and findings 50

10.2 **COLOURS** - Collaborative On-cloud Lab for the conservation and digital restoration of ColOUred heritage collectionS 51



INTRODUCTION

Europe's rich cultural heritage and strong creative tradition not only reflect our past but also shape our future. It is by building on this foundation and developing our strengths that we can face the great challenges of our time with confidence, and shape a future based on European values and the respect of human rights.

Europe's cultural wealth is a unique asset; it enriches our lives, fosters social and cultural cohesion and contributes to a sense of belonging. The full potential of cultural heritage, arts and cultural and creative sectors as a driver of sustainable innovation and a European sense of belonging is realized through a continuous engagement with society, citizens and economic sectors as well as through better protection, restoration and promotion of cultural heritage.

The projects in this booklet have been selected under the Horizon Europe 2024 call of Cluster 2 - 'Innovative Research on European Cultural Heritage and Cultural and Creative Industries - Building our Future from the Past'. They adopt a people-centred perspective and place cultural heritage and the cultural and creative sectors and industries (CCSIs) at the very heart of the European economy, its competitiveness and its sustainable development. The solutions proposed here meet challenges structured around three themes: Green, Digital and Innovative, with a total budget of approximately EUR 65 million.

In the first part, adaptation to the consequences of climate change and mobilization of resources to support European citizens and societies for an inclusive, socially and culturally sustainable climate transition are central. In the second part, the enormous opportunities - as well as serious challenges - of the digital transition for Europe's cultural heritage and cultural and creative industries are addressed. The third part focusses on the role of creative and cultural aspects which drive socio-ecological innovation, participatory democratic processes, economic growth and competitiveness, and societal transformations such as the green and digital transitions which depend on behavioural changes. The fourth part showcases projects selected under the call of the Cultural Heritage Cloud.

All information in this booklet has been sourced from https://cordis.europa.eu/ and has been carefully curated. As a result, certain words and sentences have been adjusted or combined to better suit the context and its purpose.

For more information about R&I on cultural heritage & the cultural and creative industries, you can visit the dedicated website on cultural heritage and cultural and creative industries[1].

For any further information, please contact:
RTD-DEMOCRACY-EQUALITY-CULTURE@ec.europa.eu

[1] https://research-and-innovation.ec.europa.eu/research-area/social-sciences-and-humanities/cultural-heritage-and-cultural-and-creative-industries-ccis_en

GREEN CULTURAL HERITAGE

This chapter presents an overview of eight innovative projects of more than EUR 30 million, designed to address distinct challenges across cultural heritage preservation and sustainable cultural and creative industry practices in the context of climate change and the green transition.

Four projects focus on demonstrating and refining innovative solutions to achieve strategic investments in cultural heritage and the cultural and creative industries in the spirit of the New European Bauhaus initiative. These projects range from a Europe-wide collaborative network promoting the values of darkness, leveraging the power of food and creating a resource toolkit for fashion- and craft-focussed makerspaces in libraries, to the creation of a European creative placemaking framework.

The following four projects look into specific approaches to address the difficulties of large parts of the CCI sector – typically small and micro enterprises - to take the necessary measures to adapt to, thrive under and even drive the climate change transition. These projects research how to support and accelerate the climate change adaptation and mitigation in the fashion industry, the management of indoor air quality, as well as the development of sustainable business models and of video-on-demand platforms.

This chapter will be particularly relevant for policymakers, academic researchers, industry leaders, and technology developers who are involved in cultural heritage preservation, environmental sustainability, and creative industry innovation.

HORIZON-CL2-2024-HERITAGE-01-01:

NEW EUROPEAN BAUHAUS – INNOVATIVE SOLUTIONS FOR GREENER AND FAIRER WAYS OF LIFE THROUGH ARTS AND CULTURE, ARCHITECTURE AND DESIGN FOR ALL

The New European Bauhaus - which is closely connected to cultural heritage and culture - brings a cultural and creative dimension to the European Green Deal. The September 2021 Communication on the New European Bauhaus[2], recognises that artists and cultural and creative professionals are essential actors when it comes to reflecting and conveying values, transmitting new and symbolic meanings, and ensuring sustainability and enabling societal transformation.

Projects under this topic demonstrate and refine innovative solutions to achieve strategic investments in cultural heritage and the CCIs in the spirit of the New European Bauhaus initiative and search for links with the ESFRI Research Infrastructures in the Social and Cultural Innovation.



[2] https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52021DC0573&qid=1634631059689

Art of Darkness

Art of Darkness as Cultural Heritage of Urban Landscape

Challenge: The project aims to preserve and develop cultural heritage sites throughout Europe with a better understanding of the cultural, aesthetic, and sustainability values of darkness, which are important to the well-being of humans and nature.

Objective: The project raises awareness of - and explores well-considered darkness with - high-quality architectural lighting design and light art as an asset in relation to cultural heritage, which can be cherished and harnessed to boost cultural-led innovation and attract strategic investments to cultural heritage and Cultural and Creative Industries (CCI). This is achieved through the creation of a Europe-wide collaborative network of three cities, five research institutions and two societies, which conduct five artistic pilot trials in cultural heritage sites in five countries.

Approach: The pilot trials develop design strategies and solutions for more sustainable, aesthetic and socially feasible dark-time experiences through co-design with local stakeholders. The piloting process, which consists of context mapping, co-design, pilot production and evaluation processes, brings together researchers, CCI professionals (e.g. artists, lighting designers, architects), citizens, local societies, and municipality actors. Thus, methodology of the project is transdisciplinary, participatory and integrative. The disciplines included in the project consortium are architecture, light-art, cultural heritage, urban design and planning, lighting design, photometric techniques, engineering, media- and neurotechnology, environmental psychology, cultural anthropology, scenography, and performing arts. Importantly, the evaluated results are integrated into the Art of Darkness Piloting Model to be replicated in other cities and regions and translated into roadmaps and policy briefs for further impact. All values and working principles of the New European Bauhaus Compass are implemented in the project work with the highest ambition level.

https://artofdarkness.eu/
https://cordis.europa.eu/project/id/101177779

Project n°: **101177779**
Start date: **01/01/2025**
End date: **31/12/2027**

Consortium:

OULUN YLIOPISTO - **FI**
TECHNISCHE UNIVERSITEIT EINDHOVEN - **NL**
ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA - **IT**
AALBORG UNIVERSITET - **DK**
TALLINNA TEHNIKAÜLIKOOL - **EE**
ASSOCIATION LUCI LIGHTING URBAN COMMUNITY INTERNATIONAL - **FR**
Montpellier Méditerranée Métropole - **FR**
TALLINNA LINN - **EE**
SUOMEN VALOTAITEEN SEURA FLASH – **FI**
OULUN KAUPUNKI – **FI**

CONVIVIUM

New European Bauhaus Solutions in Food, Living Heritage, and Conviviality Challenge

Challenge: CONVIVIUM is an interdisciplinary coalition of public and private European partners working together to bring a cultural dimension to the European Green Deal through the leveraging of the material, semiotic, and symbolic power of food. The consortium sees food cultures as a "living heritage" that reflects changes in society and contributes to local well-being with wide-reaching impacts.

Objective: CONVIVIUM will achieve it's commitment supported by solid managerial, scientific, collaborative, and technical structures, which are in constant dialogue to ensure that the unlocking of food heritage translates into solutions grounded in the needs and opportunities of local communities, in state-of-the-art social science and humanities approaches and methods, and in synergies between traditional crafts and cutting-edge technological developments.

Approach: The project mobilizes numerous creative and transformative forces in the fields that inform the New European Bauhaus to promote sustainability and positive societal change through the medium of food heritage. It offers attractive and sustainable culture-based solutions which will bring about a range of cultural and economic applications available to different target groups. They include:

- architecture- and design-based prototypes that will support farmers and agricultural cooperatives to work in symbiosis with the environment, balancing tradition and state-of-the art advancements
- cultural events and interventions that bring food, the arts, and the humanities together to positively change the mindsets of food producers and consumers
- new organizational models that champion inter-cultural, generational, and intersectional visions through the medium of food across local populations
- digital tools to reinforce the presence of food heritage in institutions such as museums and historical sites.

https://convivium-neb-project.com/
https://cordis.europa.eu/project/id/101178921

Project n°: **101178921**
Start date: **01/11/2024**
End date: **31/10/2027**

Consortium:

Centre de recherche de l'institut Lyfe - **FR**
Oslomet – Storbyunivsitetet – **NO**
Institut européen d'histoire et des cultures de l'alimentation - **FR**
Uniwersytet Gdanski - **PL**
Slaesh – **NO**
Stiftelssen Museum Nord - **NO**
Nord Universitet - **NO**
UVA - DESIGN, LDA - **PT**
Asociacion Campo Adentro - **ES**
Universiteit Utrecht - **NL**
DNARB Agency SL - **ES**
Stichting het nieuwe instituut - **NL**
Circular Ways AS – **NO**
Memoar Oslo - **NO**
Camara municipal de Coimbra - **PT**
Université Paris I Pantheon-Sorbonne - **FR**

Partner:

Lofotrådet - **NO**
Destination Lofoten AS - **NO**
CoimbraMaisFuturo - CM F - Associação de Desenvolvimento Local de Coimbra - **PT**
MUNICIPIO DE COIMBRA - **PT**
Centrum voor agrarische geschiedenis VZW – **BE**

Make-a-thek

Modular Library Makerspaces for Heritage Crafts Innovation and Digitisation

Challenge: Make-a-thek creates modular, replicable set-ups of makerspaces in public libraries, providing access to innovative and circular approaches to fashion and crafts. Based on extensive mapping and co-creation, the project will create a resource toolkit and open educational resources for modular fashion and craft focussed makerspaces in libraries and will test their application in at least nine European and three international pilot trials. During these trials, target communities of practitioners and prosumers (engaged citizens) will learn from each other by co-designing and piloting new ways of digitising heritage craft and linking them to digital fabrication techniques.

Objective: With a focus on social innovation, the project aims to create impact on four dimensions that are aligned with the work programme and will be measured according to their Societal Readiness Levels:

1. Supporting new prosumers in fashion and crafts

2. Establishing public libraries as hubs for circular knowledge and creation for all

3. Preservation of heritage crafts through digital innovation and skill building

4. Circularity and green innovation for fashion and crafts.

Make-a-thek aims to scale its results beyond the pilot trails in libraries through a networking and embedding approach and an exploitation guide aimed at other Cultural and Creative Sectors and Cultural Heritage stakeholders.

Approach: Make-a-thek creates modular, replicable set-ups of makerspaces in public libraries, providing access to innovative and circular approaches to fashion and crafts. Based on extensive mapping and co-creation, the project will create a resource toolkit and open educational resources for modular fashion and craft focussed makerspaces in libraries and will test their application in at least nine European and three international pilot trials. During these trials, target communities of practitioners and prosumers (engaged citizens) will learn from each other by co-designing and piloting new ways of digitising heritage craft and linking them to digital fabrication techniques. They will also create and share new tools, techniques, skills, and culture for circularity in fashion and craft. This approach is in line with the New European Bauhaus principles: it is inclusive, as it democratises access to innovation technologies by creating new public infrastructures and inviting all citizens to engage in the green transition. It is sustainable as it opens up ways to contribute to the circular society. It is also enriching, as it enables people's self-expression through fashion and crafts.

https://publiclibraries2030.eu/project/make-a-thek/
https://cordis.europa.eu/project/id/101177660

Project n°: **101177660**
Start date: **01/02/2025**
End date: **31/01/2028**

Consortium:

ZENTRUM FUR SOZIALE INNOVATION GMBH – **AT**
GLOBAL INNOVATION GATHERING EV – **DE**
FASHION REVOLUTION GERMANY EV – **DE**
OPENDOT SRL – **IT**
INSTITUT D'ARQUITECTURA AVANCADA DE CATALUNYA - **ES**
Ukrainian Makers Association – **UA**
EUROPEAN CRAFTS ALLIANCE – **BE**
SIHTASUTUS FAB CITY FOUNDATION – **EE**
PUBLIC LIBRARIES 2030 – **BE**

STARTUP

Sustainable Transition, Action Research and Training in Urban Perspective

Challenge: Communities across Europe are facing the challenge of socio-economic recovery to promote a transformative change. The EU-funded STARTUP project seeks to address this aim by focusing on cultural heritage and creative industries to drive the transition towards a beautiful, inclusive, sustainable environment. Aligned with the New European Bauhaus' core values, STARTUP will adopt the placemaking paradigm – a bottom-up, small-scale, place-based approach, introducing ethical elements in planning. Through eight trials as well as the mapping and analysis of specific case studies, the project will explore how European communities try to turn some proximity spaces into creative places, encouraging a co-design process. STARTUP's final result will be a European Creative Placemaking Framework, a policy tool based on local cultural and creative professionals engaged in their art.

Objective: STARTUP will engage in a double-sided process of taking action and doing research that promotes transformative change. The project highlights the critical role of Cultural Heritage (CH) and the Cultural Creative Industries (CCIs) in socio-economic, postcrisis recovery and their potential to drive the transition towards a beautiful, inclusive, sustainable environment. These principles align with the New European Bauhaus' (NEB) core values, which seek to engage citizens, institutions, and creative individuals as thinkers and change-makers in shaping a better future.

Approach: The project adopts the placemaking paradigm, which promotes a bottom-up, small-scale and place-based approach. In eight small-scale trials, placemaking based on culture and creativity will be tested and refined. Cultural mapping and comparative case study research will further promote the knowledgebase for such interventions. The trials, mappings and case studies will form the empirical underpinnings of analyses of sustainable architectural design, multi-level policy and governance, and social, economic and environmental impacts (positive and negative) of culture-driven placemaking. These analyses, in turn, will form the evidence-base for STARTUP's final results and main outcome: a "European Creative Placemaking Framework", which is the policy option STARTUP will innovate. The approach of the framework builds upon local actors in culture and creativity, and aims at strengthening these actors, as well as local authorities, in building their future on the tangible and intangible cultural resources represented in the place. The framework, which aims to be a world-leading management tool, in this way supports local economic development, sustainability, social cohesion and identity across Europe, but based on local cultural and creative professionals engaged in their art.

https://horizon-startup.eu/
https://cordis.europa.eu/project/id/101178523

Project n°: **101178523**
Start date: **01/01/2025**
End date: **31/12/2028**

Consortium:

Università degli studi di Roma la Sapienza - **IT**
Stockholms Universitet - **SE**
Slovenska tecnická univerzita v Bratislave - **SK**
ILS Research GGMBH - **DE**
KEA European Affairs - **BE**
Universidad complutense de Madrid - **ES**
Folkrörelsernas Konstfrämjande - **SE**
Centrum Sztuki wspólczesnej Laznia - **PL**
ZEMOS98 SCOOP AND - **ES**
Matrioska design & research S.COOP.MAD – **ES**
Universidad Pablo de Olavide - **ES**
Fondazione Piccolo America ETS - **IT**
Uniwersytet Gdanski - **PL**
Die Urbanisten EV - **DE**
Le Faubourg - **FR**
Ecole nationale supérieure d'architecture de Strasbourg - **FR**

Third Party:

ILS – Institut fur landes- und stadtentwicklungsforschung GGMBH - **DE**

HORIZON-CL2-2024-HERITAGE-01-02:

CULTURAL AND CREATIVE INDUSTRIES FOR A SUSTAINABLE CLIMATE TRANSITION

The cultural and creative industries (CCIs) are an important source of growth and job creation in the European economy. Moreover, the CCIs play a key role in shaping culture, values and perceptions across the European Union and beyond. Thus, the role of the CCIs in achieving the European Union's climate transition objectives is crucial. However, large parts of the CCIs lack the capacity to take the necessary measures to adapt to and thrive under the climate transition, not to speak of driving this transition.

Projects under this topic research specific approaches needed to enable Europe's CCIs to develop their full potential to support a sustainable climate transition.



Just Fashion

Supporting the Just transition for the Fashion sector

Challenge: The fashion industry is one of the largest polluters, contributing to global carbon emissions and waste. It drives overproduction, leading to resource depletion and massive textile waste, much of which ends up in landfills. In addition, unsustainable practices in supply chains often lack transparency, hindering efforts to address environmental and social impacts. As the demand for eco-friendly alternatives grows, businesses face increasing pressure to adopt more sustainable models.

Objective: In this context, the EU-funded Just Fashion project addresses this challenge by providing tools and a reference framework to help fashion businesses transition to lower-carbon, circular and socially inclusive practices. Through mapping, piloting circular business models and developing AI tools, the project prepares businesses for more sustainable production. It is set to develop a portfolio of approaches to support and accelerate climate transition in the fashion industry, by helping businesses in the partner countries shift their production methods, internal procedures and final products towards more sustainable models that are lower carbon, circular and socially inclusive.

Approach: The project aims to address this problem by mapping the current state of fashion and sustainability in Europe, mapping and evaluating tools and on circular business models, creating a process of interventions to support these tools and support existing networks in preparing micro, small and medium sized enterprises ((M)SMEs) for the new legislation on the European Green deal.

The 4 central elements of the projects are:

1. development of a new sustainability index as well as testing and refining several circular business model tools that are already in use in different areas and are already being tested in these countries.
2. Run six pilot cases from different regions, focusing on different aspects of circularity (end of life, materials, zero waste prototyping, circular business models, recycling techniques, transparency/ traceability...).
3. Update current instruments and tools in transformation & mitigation
4. Develop the necessary instruments to better prepare SME's for European Green deals in terms of policy regulations (through building an AI support tool).

https://justfashionproject.eu/
https://cordis.europa.eu/project/id/101178623

Project n°: **101178623**
Start date: **01/12/2024**
End date: **31/11/2027**

Consortium:

Universiteit Antwerpen - **BE**
European Crowdfunding Network - **BE**
Vilniaus Gedimino Technikos Unversitetas - **LT**
Consorzio materahub industrie culturali e creative - **IT**
Agru pacio Catalana del textil i de la moda - **ES**
Fun dacio Eurecat - **ES**
Association Européenne des agences de développement - **BE**
Waanzin VOF - **BE**
Staff Jersey SRL - **IT**
Zdruzenie za moda makedonsko modnozdruzenie – koncept moden klaster - **MK**
University for the Creative Arts - **UK**
Art-er-societa consortile per azioni - **IT**
Luisa Cerano GmbH - **DE**
Xandres - **BE**
Fashion council de EV - **DE**
Flanders district of creativity VZW - **BE**
Adral – agencia de desenvolvimento regional do Alentejo DRAL - SA - **PT**
Boboli SA - **ES**
European Fashion Alliance E.V. - **DE**
Company for production, commerce and services Bastet Noar LTD, Ohrid - **MK**

SIMIACCI

Sustainable Intelligent Management of Indoor Air Quality for the Culture and Creative Industries

Challenge: The climate transition is important for all sectors of the EU economy, including Cultural and Creative Industries (CCIs), especially through more efficient use of resources. Amongst CCIs, Galleries, Libraries, Archives and Museums (GLAMs) require large quantities of energy for controlling Volatile Organic Compounds (VOCs), Nitrogen Oxides (NOx), Hydrogen Sulfide (H2S) and humidity for cultural heritage (CH) artifacts conservation, due to the absence of smart and efficient Indoor Air Quality (IAQ) control technologies.

Objective: By demonstrating first-of-a-kind energy- and resource-efficient solutions for strict IAQ management, CCIs will inspire the climate transition of five new sectors where transferability potential will be assessed and disseminated, including through the creation of the SIMIACCI label. Dedicated exhibitions, reaching 30,000 visitors, will consolidate GLAMs leadership when it comes to the climate transition. The project brings together world renowned academic materials and conservation scientists, deep tech small and medium sized companies, big-sized companies, and one association to develop twenty prototypes demonstrated in seven GLAMs of different sizes in different contexts in Europe and beyond.

Approach: SIMIACCI improves traditional IAQ solutions, such as CH storage/showcases conditioning, heating ventilation, and air conditioning (HVAC), by developing a portfolio of innovative solutions reducing related energy demand by 30-50% and extent CH conservation time. The project will demonstrate:

1. Metal Organic Framework (MOFs) adsorbents to efficiently capture noxious VOCs
2. MOFs to mitigate NOx in real scenarios
3. MOFs to capture H2S
4. Predictive modelling to forecast contaminants concentrations evolution coupled with monitoring sensors and conservation/maintenance recommendations
5. Modular designs that fulfil the technical/environmental requirements of controlling IAQ
6. New business models for the solutions portfolio that integrate the developed pillars, supported by market analysis and economic, environmental and social sustainability analysis.

https://simiacci.eu/
https://cordis.europa.eu/project/id/101178095

Project n°: **101178095**
Start date: **01/01/2025**
End date: **31/12/2028**

Consortium:

I ST-ID Associacao do instituto superior tecnico para a investigacao e o desenvolvimento - **PT**

Danmarks Tekniske Universitet - **DK**

Staatliche akademie der bildenden kunste Stuttgart - **DE**

Squair tech SAS - **FR**

Federatie van verenigingen voor verwarmin en luchtbehandeling in Europea REHVA - **BE**

DET KGL. Bibliotek - **DK**

AON Spa insurance & reinsurance brokers - **IT**

národního technického muzea - **CZ**

Ecole supérieure de physique et de chimie industrielles de la ville de Paris - **FR**

Teqoya – **FR**

Ecole nationale supérieure d'ingenieurs de Caen - **FR**

Euroquality SAS - **FR**

Deutsches museum von meisterwerken der naturwissenschaft und technik - **DE**

Museus e monumentos de EPE - **PT**

Centre national de la recherche scientifique CNRS - **FR**

Partner:

Staatsarchiv Aargau - **CH**

Third party:

Université de Caen Normandie - **FR**

Musuem national d'histoire naturelle - **FR**

EMCCINNO

EMpowering CCIs to boost systemic INNOvation for sustainable climate transition

Challenge: Climate change is a pressing threat, and Europe faces a significant challenge to address it urgently. The EU has set ambitious climate goals, such as the Green Deal's target to reduce net greenhouse gas emissions by at least 55% by 2030. But this challenge also involves deep social and cultural transformations. Within this context, the cultural and creative industries (CCIs) play a crucial role in the climate transition by raising awareness, changing imaginaries and contributing to economic sustainability and innovation. However, CCIs, mostly small and medium-sized organizations, are particularly vulnerable due to limited resources and fragmentation, emphasized by the negative consequences of climate change. They urgently require tested tools to enhance their capacity for rapid adaptation and making meaningful contributions to the climate transition.

Objective: The EMCCINNO project brings together the areas of CCIs, climate transition, and social enterprises. It aims to refine, test, validate and scale sustainable business models, implementing them into prototypes for real-world impact within small and medium-sized CCIs. Focusing on cultural and artistic social enterprises, the project involves five diverse organizations from five EU Member States that will design and test prototypes based on their sustainability transition needs, supported by researchers throughout the process, thus contributing to the EU's climate goals.

Approach: Cultural and Artistic Social Enterprises, within CCIs, work in close proximity to citizens and in cooperation with local actors, which makes them uniquely able to identify emerging social and environmental demands. Based on this citizen and creative driven knowledge, the EMCCINNO project will work with such proposed innovative and creative solutions, having a unique potential of influencing values and attitudes and inspiring blueprints beyond the sector.

https://www.emccinno.eu/
https://cordis.europa.eu/project/id/101178706

Project n°: **101178706**
Start date: **01/02/2025**
End date: **31/01/2028**

Consortium:

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS - **FR**
FRICHE LA BELLE DE MAI - **FR**
BE.TIME - **ES**
KULTURÁLIS ÖRÖKSÉG MENEDZSEREK EGYESÜLETE - **HU**
JAZZ AO CENTRO CLUBE - **PT**
KUNSTREPUBLIK E.V. - **DE**
CENTRO DE ESTUDOS SOCIAIS - **PT**
HELMHOLTZ ZENTRUM POTSDAM DEUTSCHES GEOFORSCHUNGSZENTRUM GFZ - **DE**
GREENFORMATION KFT - **HU**
CULTURE ACTION EUROPE - **BE**
EMES INTERNATIONAL RESEARCH NETWORK - **BE**
NOMAD GARDEN SL – **ES**

Third party:

UNIVERSITE D'AIX MARSEILLE – **FR**

StreamSCAPES

Driving Sustainable Climate Transition of Video-On-Demand Platforms at a Time of Transformation

Challenge: The overarching goal of the project StreamSCAPES is to kickstart a new era in forward "thinking and doing" in the ways in which production, consumption and decision-making systems in the cultural and creative industries lead through the sustainable climate transition with a particular emphasis on Video-On- Demand (VOD) platforms as central nodes within audiovisual and cultural ecosystems.

Objective: Specifically, the project will provide:

1. an interdisciplinary mapping and assessment of the ways in which it is possible to substantially "green" the operations of VOD platforms in the CCIs
2. pilot the transformative impact of VOD platforms to engage in "Blue Skies" generation of ideas through a 'hubs'-based approach, in the form of a future studies approach with a special focus on children and youth
3. co-test the potential of VOD platforms to contribute to sustainable climate transition in line with the European Industrial Strategy and the European Green Deal.

Approach: To achieve this, a multi-stakeholder team of four core academics and eight key stakeholders, including several European VOD platforms, combines original data and knowledge and collated best practices. The project:

a. develops robust methods to measure the carbon footprint of VOD platforms and a pilot sustainable climate transition VOD certification

b. designs and develops business clinics providing advice on how VOD platforms can best green their business models

c. develops a StreamSCAPES Dashboard making public data, such as the carbon footprints of VOD platforms, available to policymakers, professionals and citizens

d. identifies underutilized approaches that can be used by VOD platforms to boost the sustainable climate transition

e. delivers a first-aid kit handbook to empower VOD professionals, audiovisual and cultural workers, and citizens to support the sustainable climate transition in a bottom-up manner, paying particular attention to engaging young people and children in practices and 'Blue Skies' imaginations towards innovation.

https://www.streamscapes.eu/
https://cordis.europa.eu/project/id/101177811

Project n°: **101177811**
Start date: **01/10/2024**
End date: **31/08/2028**

Consortium:

UNIVERSITE DE LIEGE - **BE**
VRIJE UNIVERSITEIT BRUSSEL - **BE**
KEA EUROPEAN AFFAIRS - **BE**
Viaplay Group AB - **SE**
OUTTV MEDIA BV - **NL**
COMPANY FOR MOVIE PRODUCTION AND DISTRIBUTION CUTAWAY DOOEL IMPORT-EXPORT SKOPJE - **MK**
UNIVERSITÄT WIEN - **AT**
EUROPEAN UNIVERSITY INSTITUTE - **IT**
Green Producers Club AS - **NO**
European Video Exchange Network - **BE**
TONGARIRO RELEASING SP Z.O.O. - **PL**
NEP NO AS - **NO**

Partner:

EFAD - European Film Agency Directors (aisbl) – **BE**

DIGITAL

This chapter on cultural heritage presents four projects of more than EUR 14 million aimed at leveraging the digital transition for the European Cultural and Creative Industries. The sector is characterized by a large and diverse number of chiefly small and micro-enterprises, as well as by significant differences across geographical and sectorial divides. The ongoing digital transition therefore brings great opportunities, but at the same time some serious threats. This was particularly evident during the COVID19 pandemic, when many CCIs were devastated. Taking full advantage of the many opportunities offered by the digital transition while avoiding such pitfalls requires new capacities and competencies.

The projects selected under this theme range from the use of the internet of senses and making Generative AI accessible to everyone, to physical-digital experiences for facilitating the digital transition, as well as addressing underutilization of data in the daily operations of specific experience sectors, such as live music, festivals, theatre, and museums.

Overall, the projects in this chapter are highly relevant for a wide array of stakeholders, including policymakers, cultural heritage professionals, technology developers, and researchers, who are shaping the future of cultural preservation and accessibility.

HORIZON-CL2-2024-HERITAGE-01-03:

LEVERAGE THE DIGITAL TRANSITION FOR COMPETITIVE EUROPEAN CULTURAL AND CREATIVE INDUSTRIES

The cultural and creative industries (CCIs) are an important source of growth and job creation in the European economy. Moreover, the CCIs play a key role in shaping culture, values and perceptions across the European Union and beyond. At the same time, the CCIs are characterised by a large and diverse number of chiefly small and micro enterprises, as well as by hefty differences across geographical and sectorial divides.

The ongoing digital transition brings great opportunities for the CCIs, but also serious threats. The measures taken during the Covid-19 pandemic to reduce contagion forced much human interaction into the digital realm, to a degree illustrating possible consequences of the digital transition. Large parts of the European CCIs were devastated. To take full advantage of the many opportunities offered by the digital transition, and avoid the pitfalls, capacities and competencies that many of Europe's CCIs currently lack are needed.

Projects under this call provide effective and cost-efficient measures to support CCIs to embrace and make full use of digital technologies for competitiveness and sustainability



ELLIE

On the UsE of Internet of Senses for the CuLturaL HerltagE

Challenge: Creative industries encompass a diverse array of sectors, including arts, craftsmanship, media, design, advertising, software, and more. Current research trends often focus on addressing various challenges and opportunities within these industries. One prevalent area of study involves examining the impact of emerging technologies on creative processes, particularly in terms of technological advancements and innovation. Artificial Intelligence (AI), Generative AI, Internet of Senses and Digital Twins (DTs) are key technologies frequently explored in this context.

Objective: By leveraging these technologies within a virtual immersive world, there is potential to create an innovative platform that opens up opportunities for novel services in the Cultural and Creative Industries domain.

Approach: ELLIE aims to support CCIs in enhancing their portfolios by providing a universal platform that integrates multiple high-impact technologies like the above-mentioned immersive worlds. This platform seeks to facilitate the creation of new user experiences, simplify the development of creative products, and better understand user needs. The project's overarching objective is to offer a comprehensive solution that aids in the delivery of advanced services and expedites the production of new products. This initiative empowers stakeholders to streamline the workflow of service and product creation. Through the combination of the above technologies, ELLIE supports innovative and automated processes, ultimately providing end users with high-quality experiences.

https://www.ellieproject.eu/
https://cordis.europa.eu/project/id/101178099

Project n°: **101178099**
Start date: **01/01/2025**
End date: **31/12/2027**

Consortium:

PANEPISTIMIO THESSALIAS - **EL**
UNIVERSITÀ DEGLI STUDI DI FIRENZE - **IT**
MASSIVE DYNAMIC SE AB - **SE**
TSIPOTAS DIMITRIOS - **EL**
SIDROCO HOLDINGS LIMITED - **CY**
BI2S-BUSINESS AND IOT INTEGRATED SOLUTIONS LTD - **CY**
UNIVERSITY OF GLASGOW - **UK**
FONDAZIONE PER LA RICERCA E L'INNOVAZIONE - **IT**
THE TALL SHIP GLENLEE TRUST - **UK**
ARTEX S.CONS.R.L. - **IT**
MOVERSE IKE - **EL**
Ascanio Entertainment Limited - **CY**
G-CORE LABS SA - **LU**

HAMLET

Human-centred generative Ai fraMework for cultural- IndustriEs' digital Transition

Challenge: HAMLET is committed to exploring and researching novel business models, including mechanisms for profit sharing and equitable distribution of benefits derived from collaborative efforts, aiming to lower barriers to AI adoption and to establish sustainable frameworks that incentivize shared success and innovation. This cohesive approach ensures that barriers to adopting AI technologies are significantly lowered, enabling a more inclusive and dynamic creative sector that is equipped to navigate the complexities of the digital age. With the help of HAMLET, smaller actors of European CCIs are empowered to explore new horizons of creativity and innovation, solidifying Europe's position as a global leader in cultural and creative excellence. This initiative will be tested through four pilot cases involving different CCI sectors across four countries in Europe.

Objective: The project aims to democratize access to Generative AI in Europe's Cultural and Creative Industries. Its mission is to make Generative AI benefits accessible to entities of all sizes, in order to foster a sustainable digital transition.

Approach: The strategy involves integrating a digital collaboration platform, the "HAMLET Collaborative Community Hub", enabling entities across different sectors to pool investments, share facilities, exchange competencies and employ shared investment and profits-based collaboration models. In parallel, the project produces seven diverse AI Enablers for CCIs as demonstrators of the framework, which streamline the creative process. These enablers are designed to be integrative, promoting collaboration by facilitating seamless interactions and project co-creation among various CCI stakeholders. By intertwining these two core components, HAMLET not only provides the technological infrastructure necessary for embracing digital transformation but also cultivates an ecosystem where collaboration and shared success are the norms.

https://hamlet-project.eu/
https://cordis.europa.eu/project/id/101178362

Project n°: **101178362**
Start date: **01/01/2025**
End date: **31/12/2027**

Consortium:

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS - **EL**
HYPERTECH KENTRO EPISTIMONIKON KAI TECHNOLOGIKON EREVNON AEIFORIAS ASTIKI MI KERDOSKOPIKI ETAIREIA - **EL**
ARISTOTELIO PANEPISTIMIO THESSALONIKIS - **EL**
CYENS CENTRE OF EXCELLENCE - **CY**
CAUSA CREATIONS INTERACTIVE MEDIA GMBH - **AT**
IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE - **UK**
STICHTING WAAG SOCIETY - **NL**
HOCHSCHULE DER BILDENDEN KUNSTE SAAR - **DE**
CHIMERA ENTERTAINMENT GMBH - **DE**
THE AUDIENCE AGENCY - **UK**
STICHTING INTERNATIONAL CHOREOGRAPHIC ARTS CENTRE - **NL**
IJAD – **UK**

AMPLIFY

Phygital Solutions for the Cultural and Creative Industries

Challenge: AMPLIFY is a consortium of artists, technologists and researchers from eight European countries dedicated to facilitating the digital transition in the Cultural and Creative Industries. It rests on three ideas:

a. Music is humanity's universal and transversal non-verbal language, enriching many CCI sectors

b. Physical-digital (phygital) experiences enrich the CCI offer with new opportunities

c. Impactful social value stems from co-creation by both professionals and non-professional

Objective: The project will involve other CCI sectors from the start, explore their needs, desires and fears about the digital transition, and generate added value as early as feasible. The projects is based on a human-centric approach that balances the tools and their use, so that the whole project delivers not only innovative technologies, new ways of working and enhanced audience experiences, but also sustainable economic models consistent with the beliefs, values and practices of the creators and audiences for wider societal benefit.

Approach: AMPLIFY will develop, test and pilot two innovative suites of digital technologies empowered by AI and XR for CCIs:

A. AMPLIFY PORTABLE is a cost-effective, easy-to-use tool to enable people in different places to play, learn and perform together, especially at community level.

B. AMPLIFY IMMERSIVE enables producers to promote live performance experiences to distributed and remote audiences.

Both tools will be open-source and, although focused on music, transferable across the spectrum of CCI sectors. AMPLIFY's technology will be developed and tested with a diverse range of creative partners and situations in four small-scale pilot trials:

1. RENEWING TRADITION: Remote learning and performance in Gaelic folk culture (UK)

2. MUSIC WITH BABIES: Digitally enabled music co-creation with families (PT)

3. STAGE DIVING: Augmented Reality concerts connecting artists and audiences (IT)

4. REVEALING OPERA: Immersive experiences of co-creation with communities (ES).

https://amplifyproject.eu/
https://cordis.europa.eu/project/id/101177413

Project n°: **101177413**
Start date: **01/11/2024**
End date: **31/10/2027**

Consortium:

Cooperativa Paulo Lameiro CRL - **PT**
Feisean Nan Gaidheal - **UK**
Stichting Nederlandse Wettenschappelijk Onderzoek Instituten - **NL**
F6S Network IE Limited - **IE**
Matarasso Francois Louis Andre - **FR**
Norges Teknisk-Naturvitenskapelige Unversitet - **NO**
Fundacion centro de tecnologias de interaccion visual y comunicaciones vicomtech - **ES**
Toscana Produzione Musica ETS - **IT**
Salsa Sound LTD - **UK**
Technological University of the Shannon: Midlands Midwest - **IE**
Europe Jazz Network - **FR**
Last Tour Concerts SL - **ES**
Fundacio del gran teatre del Liceu (Barcelona) - **ES**

Partner:

Stichting Nederlands Instituut Voorbeeld en Geluid – **NL**

EXCENTRIC

Excelling Human-Centric Collaborative Ecosystems for Smart Digital Transformations in CCIs

Challenge: EXCENTRIC supports the digital transition aimed at sustainable and responsible growth in the European Cultural and Creative Sectors and Industries (CCSI). It addresses underutilization of data in the daily operations of specific experience sectors: live music, festivals, theatre, and museums. These sectors are distinguished by their capacity to create value by providing audience-centric intangible cultural experiences.

Objective: The project's unique approach pioneers the concept of Collaborative Data Practices in CCSIs, which has proven effectiveness in pharma, energy, and logistics. It aims to break down silos within CCSIs and foster ecosystem thinking. EXCENTRIC's exceptional consortium, with six pilots across six countries, and three Pan-European umbrella organizations, broadens its impact and fosters adoption.

Approach: The project applies human-centric principles by actively involving the creative workforce's needs, skills, and interests of pilot organizations and their extended network in the tools' development processes. It builds organizational capabilities, data literacy, and skill sets to enable the adoption, diffusion, and customization of digital tools, and supports sustainable innovation beyond the project's duration. At the policy level, EXCENTRIC will formulate evidence-based recommendations for successful digital transformation by employing innovative practices and identifying relevant metrics based on pilot results.

https://www.excentric-project.com/
https://cordis.europa.eu/project/id/101178180

Project n°: **101178180**
Start date: **01/02/2025**
End date: **31/01/2028**

Consortium:

ERASMUS UNIVERSITEIT ROTTERDAM - **NL**
ARS ELECTRONICA LINZ GMBH & CO KG - **AT**
STICHTING WAAG SOCIETY - **NL**
MUSEUM BOOSTER GMBH - **AT**
KEA EUROPEAN AFFAIRS - **BE**
FONDAZIONE ROMAEUROPAARTE E CULTURA - **IT**
DRUŠTVO RAČUNALNIŠKI MUZEJ - **SI**
OULUN KULTTUURISÄÄTIÖ SR - **FI**
CTL CULTURAL TREND LISBON PRODUCTION & MANAGEMENT LDA - **PT**
STADT DORTMUND - **DE**
EUROPEAN FESTIVALS ASSOCIATION - **BE**
LIVE (DEVELOPING MUSICAL ACTIONS) - **FR**
STICHTING EUROPEANA - **NL**

INNOVATIVE CULTURAL HERITAGE

The arts can play an important role in building the contemporary image of the EU by increasing the visibility of the European identity, its cultural heritage and the promotion of its values. It can foster a sustainable and inclusive local, regional and national development and growth, including the growth of the Cultural and Creative Industries while influencing countries outside the EU on important societal issues, such as the protection of the environment, peace and security, migration, gender equality, justice, or freedom of expression.

This chapter on "Innovative Cultural Heritage" summarises the essence and ambition of eight diverse projects of almost EUR 27 million. Four projects under this theme test existing practices and policies that enable arts and culture to promote European values and identities outside Europe, allowing people to experience European arts, culture and traditions both in their original environments and settings and by visiting the rich European cultural landscapes, while also identifying potential barriers. Four more projects research the tensions between globalization and the preservation of European identities as expressed in languages. European languages are vehicles of our identity, behaviour and cultural perception. This is particularly significant, since the European language capital is at risk of impoverishment due to the domination of digital technologies, which leads to changes in the way people exchange information.

This chapter offers valuable insights for researchers, policymakers, and stakeholders across various sectors, as it highlights innovative approaches to leveraging cultural heritage and the use of our unique languages to highlight our European identity, within Europe and beyond.

HORIZON-CL2-2024-HERITAGE-01-04:

EUROPE'S CULTURAL HERITAGE AND ARTS – PROMOTING OUR VALUES AT HOME AND ABROAD

The European Union should endeavour to use its cultural and creative assets to better assert its influence around the world. The arts can play an important role on building the contemporary image of the EU by increasing the visibility of the European identity, cultural heritage and the promotion of its values. The increased visibility of European arts and culture abroad can foster a sustainable and inclusive local, regional and national development and growth, while influencing countries outside the EU on important societal issues, such as the protection of the environment, peace and security, migration, gender equality, justice, or freedom of expression.

However, when it comes to the presentation of the European traditional arts and culture abroad there is still lack of cooperation between national and European level. The EU does not yet have an aligned vision and approach on how to promote the European values and identities through arts and meet common goals on behalf of the EU.

Project under this topic will test existing practices and policies that enable arts and culture to promote European values and identities outside Europe. It also aims to identify potential existing barriers and propose a mixed model for cooperation.



ANIMA MUNDI

IP, Discoverability and Partnerships: Reviving the International Promotion of European Values Through European Animation Industry Ecosystem

Challenge: The overarching goal of ANIMA MUNDI is to 'awaken' the sleeping giant of animation as a popular, promising and potent sector of CCIs in European diversity and artistic expression, global markets and international cultural relations.

Objective: The project will do so by generating and assessing data on, and addressing, cross-sectoral strengths as well as pervasive gaps in terms of intellectual property (IP), discoverability, and international partnerships in the European Animation Industry Ecosystem (EAIE) that enable or hinder its international promotion. Specifically, ANIMA MUNDI will:

1. provide an interdisciplinary mapping and assessment of the ways in which it is possible to increase the visibility of, and access to, European animation internationally
2. pilot the transformative impact of European Animation to promote EU priorities, culture and fundamental values abroad, by investigating practices and innovative hubs of creativity, with a special focus on children and youth
3. co-test the potential of European Animation to strengthen cooperation among stakeholders involved in CCIs and to establish strategic alliances with other sectors.

Approach: To achieve this, ANIMA MUNDI, a multi-stakeholder team of five academics and eight key stakeholders, develops, among other things:

i. a European Animation Brand to support the visibility of the EAIE globally

ii. joint promotional activities on European coproductions at the Annecy International Festival

iii. an ANIMA MUNDI Dashboard, a tool for policymakers and professionals when assessing the visibility of, and access to, European Animation internationally

iv. and pilots the design of a tool promoting discoverability through gamification

v. and delivers Empowering Partnerships and IP toolkits to promote effectively EU priorities abroad

vi. a first-aid kit handbook on audiences, including youth and children, to support the promotion of EAIE abroad in a bottom-up and imaginative manner.

https://www.animamundi-values.eu
https://cordis.europa.eu/project/id/101178027

Project n°: **101178147**
Start date: **01/01/2025**
End date: **31/07/2028**

Consortium:

UNIVERSITE DE LIEGE - **BE**
VRIJE UNIVERSITEIT BRUSSEL - **BE**
KEA EUROPEAN AFFAIRS - **BE**
COMPANY FOR MOVIE PRODUCTION AND DISTRIBUTION CUTAWAY DOOEL IMPORT-EXPORT SKOPJE - **MK**
EUROPEAN UNIVERSITY INSTITUTE - **IT**
UNIVERSITÄT WIEN - **AT**
UNIFR - **FR**
Linking Market Forces for European Film and Television - **BE**

Partners:

EUROPA INTERNATIONAL - **BE**
EUROPA DISTRIBUTION - **BE**
EUROPEAN FILM PROMOTION EV - **DE**
UNION EUROPEENNE DE RADIO TELEVISION-EBU - **CH**
European Video Exchange Network - **BE**

COLUMN

Colonial Legacies of Universities: Materialities and New Collaborations

Challenge: Historically, universities have been foundational to promoting and shaping European culture, knowledge, and values including democracy, human dignity, freedom, human rights, and equality as a global project. They have also been leading institutions for promoting dialogue and building strategic alliances between the global north and the global south in the fields of science, heritage, and Cultural and Creative Industries. In recent years, universities and museums in Europe have increasingly developed innovative approaches to address the colonial entanglements in their collecting practices, material legacies, understandings of national and transnational identities, and the production of knowledge. However, unfinished coversations with former colonies about colonial legacies in and beyond Europe remain barriers to cooperation and exchange as well as the promotion of European values.

Objective: COLUMN brings together partners from the creative industries, seven European universities from the Coimbra network - including some of the oldest research universities in Europe - and partner universities from the global south to rethink, reframe, and refresh approaches to European and postcolonial arts, culture, heritage, and societal values.

Approach: Focusing on four pilot interventions that apply new collaborative and decolonial curatorial practices, COLUMN will lead the development of policies, recommendations, and good practices for new collaborations around European university heritage through strategic partnerships within and beyond the borders of the EU. Bridging knowledge production and creative arts practices, it builds an understanding of European cultural heritage as a vehicle to strengthen rights-based and equitable approaches to colonialism in dialogue with global south partners - thus paving the way for cultural cooperation in the true spirit of modern European values. Through its deliverables, the project redefines scholarly consensus, heritage practice, and policy.

https://column-horizon.eu/
https://cordis.europa.eu/project/id/101177706

Project n°: **101177706**
Start date: **01/04/2025**
End date: **31/03/2029**

Consortium:

UNIVERSITEIT UTRECHT - **NL**
UNIVERSITAET GRAZ - **AT**
UNIVERZITA KARLOVA - **CZ**
AARHUS UNIVERSITET - **DK**
ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA - **IT**
STUDIO LOUTER BV - **NL**
UNIVERSITY OF PRETORIA - **ZA**
ANTON DE KOM UNIVERSITEIT VAN SURINAME - **SR**

Partner:

UNIVERSITE DE GENEVE - **CH**

DanceMap

Innovation Pathways and Policies to Promote European Dance Heritage at Home and Abroad

Challenge: The heritage of 20th century dance in Europe is largely invisible and in real danger of being lost. Works that are no longer being performed - even from the recent past - are forgotten, their memory confined to small and fragmented communities of artists and practitioners.

Objective: DanceMap proposes an ambitious strategy for safeguarding and promoting dance heritage. It is a map both in the geographical sense, showcasing examples of successful dance heritage initiatives all over Europe and making them accessible for a wider global public, and in the sense of a blueprint or roadmap towards effective and sustainable policy solutions at regional, national and European level. Combining excellence in research and extensive experience of delivering innovative dance heritage initiatives at the national level, the DanceMap consortium has developed an integrated, cross-sectoral approach that incorporates research, data science, artistic practice, outreach, advocacy and policymaking. With this project, the consortium makes the case that European dance heritage is overlooked in its ability to build a contemporary image of the EU as a progressive, diverse and inclusive political entity. One of its aims is to ensure that dance is included in the Cultural Heritage Cloud (ECCCH) as a use case for other embodied practices.

Approach: The consortium is a sixteen-strong alliance of research centres, universities, archives, arts organizations and leading policy experts, who recognize that dance represents values which are central to the European project: It is a collaborative, non-logocentric, embodied practice that mirrors European conviviality and draws on marginal experiences and perspectives, which - along with connotations of femininity and queerness - have contributed to dance's low status and lack of funding relative to other art forms.

https://dancemap.eu/
https://cordis.europa.eu/project/id/101177556

Project n°: **101177556**
Start date: **01/01/2025**
End date: **31/12/2027**

Consortium:

BUREAU RITTER GUG (HAFTUNGSBESCHRANKT) - **DE**
FONDATSIYA BRAIN STORE PROJECT - **BG**
COVENTRY UNIVERSITY - **UK**
HOCHSCHULE MAINZ UNIVERSITY OF APPLIED SCIENCES - **DE**
LOKOMOTIVA CENTRE FOR NEW INITIATIVES IN ARTS AND CULTURE - **MK**
Noa eshkol foundation for movement notation - **IL**
NOMADSKA PLESNA AKADEMIJA - **HR**
UMETNIŠKO DRUŠTVO NOMAD DANCE ACADEMY SLOVENIJA - **SI**
SK STIFTUNG KULTUR DER SPARKASSE KÖLNBONN - **DE**
STATION SERVICE FOR CONTEMPORARY DANCE – **RS**
STUK KUNSTENCENTRUM - **BE**
UNIVERSITEIT ANTWERPEN - **BE**
FUNDACAO CAIXA GERAL DE DEPOSITOS-CULTURGEST - **PT**
CORNELIA DUMCKE - **DE**
Rosas VZW - **BE**

Partner:

GOETHE-INSTITUT EV - **DE**
THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO – **CA**

Third party:

CU ACADEMIC SERVICES LIMITED – **UK**

RELISH

Reframing European Gastronomy Legacy through Innovation Sustainability and Heritage

Objective: Through an innovative and systematic approach to the understanding and use of traditional EU recipes via digital and AI-powered technology, RELISH embarks in the production of a visual and verbal food storytelling web platform that aims to mediate social cohesion, reinforce EU cultural heritage transmission at home and abroad through education and public engagement, while addressing sustainable practices in the EU hospitality sector.

https://relisheu.org/
https://cordis.europa.eu/project/id/101177427

Project n°: **101177427**
Start date: **01/01/2025**
End date: **31/12/2027**

Consortium:

UNIVERSITY OF DURHAM - **UK**
FUNDACIO ALICIA, ALIMENTACIO I CIENCIA - **ES**
UNIVERSITA DEGLI STUDI DI MILANO - **IT**
UNIVERSITA DEGLI STUDI DI SCIENZE GASTRONOMICHE - **IT**
CITY UNIVERSITY OF LONDON - **UK**
UNIVERSIDAD DE ALICANTE - **ES**
CENTRE DE RECHERCHE DE LINSTITUT LYFE - **FR**
ROSKILDE UNIVERSITET - **DK**
UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IE, CORK - **IE**
ATLANTIC TECHNOLOGICAL UNIVERSITY - **IE**
BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION - **ES**
I ST-ID ASSOCIACAO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E O DESENVOLVIMENTO - **PT**

Partner:

THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO – **CA**

HORIZON-CL2-2024-HERITAGE-01-05:

STRATEGIES TO STRENGTHEN THE EUROPEAN LINGUISTIC CAPITAL IN A GLOBALISED WORLD

European languages are vehicles of our identity, behaviour and cultural perception. Communicating in their native languages, EU citizens connect with their cultural heritage, build their collective and individual identity and better understand the contribution of their national or regional culture to the European culture as a whole.

However, in the globalisation era, some languages are dominating, leading gradually to a 'language oligopoly'. Protecting Europe's linguistic capital is essential to avoid cultural dilution, to strengthen European identity, culture and creativity and to promote mutual understanding and social inclusion, which serve social, economic and political stability in Europe.



Projects under this topic address tensions between globalisation and the preservation of European identities as expressed by languages, paying attention to policies and practices regarding the use of national and 'international' languages and their place in each country's cultural, scientific, academic, social, political and economic life.

Pluridentities

Protecting and stimulating plurilingual identities in learners in Europe via inclusive policies and classroom practices

Challenge: Linguistic diversity forms an important part of the European identity, yet there are a number of challenges that threaten this heritage. In this project, the focus will be on problems that affect, and can be affected by, education only. The rise of English as lingua franca caused other languages to be pushed to the sidelines, leading to situations where pupils are less or even not motivated to learn other languages besides English even if it concerns an official national language of their country. Although multilingual programs like Content and Language Integrated Learning (CLIL) can affect these attitudes, the large majority of these kind of programs also use English as target language, which does not increase the proficiency in other (foreign) languages.

A second threat to linguistic diversity has to do with the protection of heritage languages, where we see that the linguistic capital of European citizens includes more and more non-EU languages. In schools, home languages are often rejected, and their usage is sometimes punished, leading pupils to be ashamed of their linguistic heritage and have a lower sense of belonging but also a lower linguistic proficiency. The increasing popularity of new technologies like ChatGPT and machine translation also threatens the acquisition of languages, as pupils do not feel the need to learn languages anymore.

Objective: At the same time, new technologies offer opportunities for teachers in their classrooms. These new features can be managed via evidence-based policies at different governance levels and by ensuring that teachers receive appropriate education and inspiration on how to accept and stimulate the linguistic heritage of pupils.

Approach: This will be done via collaboration with stakeholders at different levels, to ensure that sustainable guidelines, policies and practices can be implemented.

https://www.pluridentities.com/
https://cordis.europa.eu/project/id/101178914

Project n°: **101178914**
Start date: **01/11/2024**
End date: **31/10/2028**

Consortium:

VRIJE UNIVERSITEIT BRUSSEL - **BE**
KATHOLIEKE UNIVERSITEIT LEUVEN - **BE**
UNIVERSITEIT VAN AMSTERDAM - **NL**
UNIVERSIDAD DE CORDOBA - **ES**
UNIVERSITEIT VAN ARUBA - **AW**
GOETEBORGS UNIVERSITET - **SE**

FOSTERLANG

Fostering Linguistic Capital: A Roadmap for Reversing the Diversity Crisis and Activating Societal Benefits in Europe

Challenge: The project aims to have a transformative effect on how minoritised languages are protected, used and promoted in Europe in the context of the competitive societal dynamic between dominant and non-dominant languages.

Objective: This will be achieved by developing evidence-based diagnostics of the minority-language condition and by suggesting strategic and technologically informed initiatives to protect and enhance their socio-economic position. The major outcome will be a Linguistic Capital Roadmap which will set out short, medium and long-term recommendations on effective strategies for fostering multilingualism and for safeguarding Europe's linguistic diversity. The project aligns with strategic priorities of the EU and the Horizon Europe programme in fostering societal coherence of different linguistic communities living in their shared spaces.

Approach: The project consortium brings the cross-cultural, multidisciplinary expertise of 14 participating organisations in an ambitious partnership of intellectual enquiry on key societal aspects of protecting European linguistic diversity. Its members combine strengths and expertise in sociolinguistics, social anthropology, education and pedagogy, language planning, digital innovation, computer science, public policy and language revitalisation. The partners will work in tandem to develop a new societal and institutional dispensation by which minoritised language communities will catalyse their contested linguistic capital to counteract the socio-political and economic forces which continue to undermine a sustainable future for Europe's linguistic minorities and migrants. The work packages are centred on fostering linguistic capital not only from the perspective of protecting Europe's cultural diversity, but also to indicate how linguistic capital can enhance other components of human capital, such as economic, demographic and health-related well-being.

https://fosterlang.al.uw.edu.pl/
https://cordis.europa.eu/project/id/101178387

Project n°: **101178387**
Start date: **01/05/2025**
End date: **31/04/2028**

Consortium:

UNIWERSYTET WARSZAWSKI - **PL**
RESEAU EUROPEEN POUR LEGALITE DESLANGUES - **FR**
UNIWERSYTET IM. ADAMA MICKIEWICZA WPOZNANIU - **PL**
MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV - **DE**
ASSOCIACIO LINGUAPAX INTERNATIONAL - **ES**
UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA - **ES**
DUBLIN CITY UNIVERSITY - **IE**
UNIVERSITETET I OSLO - **NO**
UNIVERSITY OF THE HIGHLANDS AND ISLANDS - **UK**
UNIVERSITY OF WALES TRINITY SAINT DAVID ROYAL CHARTER - **UK**
PAEDAGOGISCHE HOCHSCHULE KAERNTEN – **AT**

Third party:

STOWARZYSZENIE NA RZECZ ZACHOWANIA DZIEDZICTWA KULTUROWEGO MIASTA WILAMOWICE WILAMOWIANIE - **PL**
STOWARZYSZENIE RUSKA BURSA W GORLICACH - **PL**
JABLONSKI ARTUR - **PL**

MultiLX

Strategies to Strengthen European Linguistic Capital in a Globalised World

Challenge: This research project will collect and analyse evidence to inform the transformation of language policies in Europe. Increased mobility of people across territories has altered the linguistic make-up of Europe, while rapid developments in AI and other digital technology have revolutionized the way people communicate. However, European policies have been slow to respond to the pace of these changes. Our challenge in an increasingly diverse, digital and multilingual Europe is to help reform language policies, to shape an inclusive, democratic and equitable future.

Objective: We will address this challenge by providing policy makers with comprehensive evidence of the communicative practices and language ideologies of young people in Europe.

Approach: We will examine how young people use language in multiple locations in Europe, focusing on their communication in digital, creative and everyday contexts. We will observe young people's interactions in six cities in five countries, and elicit their perspectives on language, identities, heritage, belonging and investment. This project will equip policy makers with the evidence necessary to introduce equitable, inclusive language policies fit for a digital, multilingual age.

https://multilx.com/
https://cordis.europa.eu/project/id/101177191

Project n°: **101177191**
Start date: **01/01/2025**
End date: **31/12/2027**

Consortium:

UNIVERSITY OF WARWICK - **UK**
UNIVERSITETET I OSLO - **NO**
FUN DACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA - **ES**
ALBERT-LUDWIGS-UNIVERSITAET FREIBURG - **DE**
UNIVERSITA DEGLI STUDI DI TORINO - **IT**
UNIVERSITY OF GLASGOW - **UK**
JYVÄSKYLÄN YLIOPISTO - **FI**
UNIVERSITY OF LIMERICK - **IE**
NATIONAL TECHNOLOGICAL PARK, PLASSEY - **IE**
THE UNIVERSITY OF STIRLING O - **UK**

Partner:

Pädagogische Hochschule Luzern - **CH**

REVIVE

Community-centred language REVItalisation powered by heritage-led storytelling and digital innovation in Europe

Challenge: Languages are part of our shared Cultural Heritage and gateways to European identity. Within this framework, Endangered Intangible Heritage and Language (EIHL) communities hold unique traditional knowledge that supports a distinct sense of place-making and also sustainability traditions within some of the most vulnerable ecosystems. Although digital technologies provide a uniquely powerful opportunity to revitalize EIHL, previous efforts have predominantly concentrated on preserving grammatical/lexical aspects of languages. There is untapped potential in exploring the integrated use of immersive technologies and participatory storytelling for linguistic heritage revitalization through active community engagement.

Objective: The project's activities will inform policy recommendations, best practice guidelines, and toolkits for EIHL revitalization, aligning with REVIVE's main goal: demonstrating that citizen participation, multidisciplinary, creativity and digital innovation are crucial and effective means for consolidating and promoting multilingualism and EIHL in Europe.

Approach: REVIVE will identify and evaluate the role of digital innovation, creativity and interactive narratives in promoting understanding and engagement with EIHL, fostering social integration and cross-cultural fertilisation among marginalised European communities. The project will be based on two concrete case studies and cultural contexts: Cornish (UK), and Griko (IT). Taking advantage of XR (Extended Reality) technologies, REVIVE will produce the first EU online digital scaffolder - so called REVIVE(S) – comprising:

a) an online repository (and showcase) of old material testimonies collected by locals and new XR digital narratives

b) onsite temporary exhibitions, made of micro- and macro-outputs born out of REVIVE(S) and set up in selected communities' venues.

https://revive-horizon.eu/
https://cordis.europa.eu/project/id/101177908

Project n°: **101177908**
Start date: **01/03/2025**
End date: **31/02/2028**

Consortium:

ANGLIA RUSKIN UNIVERSITY HIGHER EDUCATION CORPORATION - **UK**
CONSIGLIO NAZIONALE DELLE RICERCHE - **IT**
NOWHERE MEDIA GMBH - **DE**
PRIVREDNO DRUŠTVO ZENTRIX LAB DRUŠTVO SA OGRANIČENOM ODGOVORNOŠĆU PANČEVO - **RS**
UNIVERSITATEA DE VEST DIN TIMISOARA - **RO**
GLOBAZ, S.A. - **PT**
OPEN SOCIETA COOPERATIVA SOCIALE - **IT**
KOWETHAS AN YETH KERN EWEK – **UK**

Third Party:

ZENTRIX LAB OU - **EE**

A EUROPEAN COLLABORATIVE CLOUD FOR CULTURAL HERITAGE

The Cultural Heritage Cloud[3] – or "European Collaborative Cloud for Cultural Heritage" (ECCCH) – is a European Union initiative for the creation of a digital infrastructure that will connect cultural heritage institutions and professionals across the EU. It will develop specific digital collaborative tools for the sector while removing barriers for smaller and remote institutions.

The goal is to help cultural heritage institutions, research organisations and other professionals of all sizes and types of work with their digital objects in a more visible, interconnected, harmonised, and informed way, allowing them to successfully cope with the challenges the digital transition poses to the sector. It aims to add a new digital dimension to cultural heritage preservation, conservation, restoration and enhancement by providing cutting-edge technologies for digitising artefacts and researching artworks.

Under the **2023 call** – with an indicative budget of 35 EUR million – the project ECHOES was selected to build the Cloud infrastructure. Three more projects selected under the same call are developing user tools: AUTOMATA, HERITALISE and TEXTaiLES.

The projects presented in this section – selected under the **2024 call** with an indicative budget of 48 EUR million - are developing innovative tools for the Cloud, organised in five different thematic areas:

1 - Digitalisation and analysis of dynamic processes, objects and complex combined data

2- Advanced data enrichment

3 - Documenting, interlinking and organising data

4 - High-value interactions with visitors and heritage objects

5 - Study, conservation and restoration of heritage objects

By the end of 2026 the final Cloud call - HORIZON-CL2-2025-01-HERITAGE-03 - A European Collaborative Cloud for Cultural Heritage-Innovative use cases - will select new projects focussed on the creation of use cases.

If you would like to learn more, please visit:

- The Cultural Heritage Cloud - Research and innovation - European Commission
- Echoes – Eccch – European Cloud for Heritage OpEn Science

Or consult these factsheets:

- The Cultural Heritage Cloud - Advancing with new tools - Publications Office of the EU
- Shaping the future of cultural heritage - Publications Office of the EU

[3] For consistency in the descriptions of the projects, we refer to 'the Cultural Heritage Cloud' - or 'the Cloud' in short - in this booklet.

HORIZON-CL2-2024-HERITAGE-ECCCH-01-01

INNOVATIVE TOOLS FOR DIGITISATION AND ANALYSIS OF DYNAMIC PROCESSES, OBJECTS AND COMPLEX COMBINED DATA

Projects funded under this topic aim at developing and implementing a set of innovative tools and methods on the Cultural Heritage Cloud **for digitisation and analysis of dynamic processes, objects and complex combined data**. Concrete applications of these tools and methods will allow for digitisation of dynamic objects, processes and practices, for monitoring the evolving status of cultural heritage objects over time and for interacting with, cross-mixing and re-mixing different data types.



Kinetika

Advancing the Digitization and Analysis of Dynamic Cultural Heritage Objects

Cultural heritage (CH) and CH objects are crucial to understanding our past, our history, and the cultures and traditions to which they belonged. The preservation and study of CH have been difficult, but advancements in digital and computing technologies have created several solutions that could improve these efforts. The KINETIKA project will develop a revolutionary 4D digital twin framework for CH objects with mechanical parts, such as CH masonry and movable structures of industrial heritage. The project will combine laser scanning, muography, photogrammetry, and other advanced imaging solutions to accurately capture the physical forms and internal complexities of objects, precisely depicting their dynamic nature. Furthermore, Internet of Things (IoT) based sensor networks allow for continuous monitoring and data collection, such as structural integrity, environmental conditions, and mechanical performance, feeding data into AI-driven analytics for anomaly detection, predictive maintenance, and conservation strategies.

The core principles of the 4D Digital Twin include accurate 3D representation, displacement or strain estimation, functional simulation, predictive failure analysis and time-based evolution modelling. These capabilities are enhanced by advanced computer vision and AI algorithms, enabling new levels of study and engagement with CH assets. The project also emphasises interactive and cross-media engagement, combining 3D models, images, sensor data and simulations to create immersive experiences for researchers, educators and the public. Collaboration between the cultural and industrial sectors is central, with KINETIKA's platform being seamlessly aligned with the Cultural Heritage Cloud framework to ensure data interoperability. Third-party CH service providers will offer and consume specialised services through a secure interface, enhancing the Cloud data while tailoring solutions for different heritage professionals. The project will validate its innovations through representative case studies, including clock towers, looms and drawbridges, demonstrating the platform's adaptability and guiding further applications across a wide range of cultural artefacts.

https://www.echoes-eccch.eu/kinetika/
https://cordis.europa.eu/project/id/101233379

Project n°: **101233379**
Start date: **01/01/2026**
End date: **31/12/2028**

Consortium:

UNIVERSIDAD DE SALAMANCA – **ES**
MUON SOLUTIONS OY – **FI**
OULUN YLIOPISTO – **FI**
STICHTING WAAG SOCIETY – **NL**
Institute of Entrepreneurship Development Estonia OÜ – **EE**
ACCELIGENCE LTD – **CY**
JOHANNITER OSTERREICH AUSBILDUNG UND FORSCHUNG GEMEINNUTZIGE GMBH – **AT**
UNIVERSITE CATHOLIQUE DE LOUVAIN – **BE**
POLYTECHNEIO KRITIS – **EL**
UNIVERZITET U NOVOM SADU FAKULTET TEHNICKIH NAUKA – **RS**
JOTNE CONNECT AS – **NO**
University of Belgrade - Faculty of Mechanical Engineering – **RS**
ENVITERRA IDIOTIKI KEFALAIOUCHIKI ETAIREIA – **EL**
PARTICLE SUMMARY – **PT**
MUNICIPALITY OF NAXOS AND SMALL CYCLADES ISLANDS – **EL**
COMPANHIA CARRIS DE FERRO DE LISBOA, E.M., S.A. – **PT**
CAMARA MUNICIPAL DE LISBOA – **PT**
UBITECH LIMITED - **CY**

MusicSphere

A Multimodal Approach for Digitizing, Analyzing, and Simulating Traditional Musical Organs Through 3D Technologies, Acoustic Analysis and Interactive Experiences

In essence, MusicSphere aims to develop tools that combine advanced technologies for preserving, studying, and providing access to the cultural heritage aspects of traditional musical organs. The project will focus on traditional wind instruments such as Pipe Organs and their ancient Greek counterpart such as 'Hydraulis'. By employing digital technologies, precise digital replicas of these instruments will be created, capturing intricate physical and mechanical details and aiding in the preservation and restoration efforts. The study will involve analysing the unique sound characteristics of the organs and utilizing acoustic simulations in order to accurately recreate their tonal qualities and the interaction of sound with surrounding architecture and environmental conditions.

Virtual and interactive tools will be developed to simulate the handling of these instruments, providing platforms where users can experience them in digital or augmented reality environments. By integrating 3D visual data, acoustic properties, and interactive models into a cohesive system, the research aims to offer a holistic understanding of the instruments' artistic and functional significance. The results will contribute to the long-term preservation of these cultural artifacts by creating digital archives and enhancing public and scholarly access through interactive technologies and educational applications.

Another key objective is the projection of the results to the past in an effort to approximate the acoustic characteristics of non-functional musical instruments. Surviving fragments or detailed historical records will be used to create accurate digital 3D models of the partly preserved artifacts and the missing segments will be recreated through advanced computational techniques based on similar instruments from the same period or region. Non-invasive techniques will identify the properties of the original materials, which can then be digitally and/or physically replicated.

https://www.echoes-eccch.eu/musicsphere/
https://cordis.europa.eu/project/id/101233618

Project n°: **101233618**
Start date: **01/10/2025**
End date: **31/03/2029**

Consortium:

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS – **EL**
DIETHNES PANEPISTIMIO ELLADOS – **EL**
UNIVERSIDAD DE MALAGA – **ES**
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV – **DE**
CATALINK LIMITED – **CY**
Afoi Koumartzi OE – **EL**
Johannes Klais Orgelbau Gmbh & Co KG – **DE**
INITIATIVE FOR HERITAGE CONSERVATION – **EL**
VILABS (CY) LTD – **CY**
ORGELBAU SCHUMACHER - MANUFACTURE D'ORGUES SCHUMACHER – **BE**
EUROPEAN ASSOCIATION FOR EXTENDED REALITY – **BE**
TECHNISCHE UNIVERSITAET ILMENAU - **DE**

HORIZON-CL2-2024-HERITAGE-ECCCH-01-02

A EUROPEAN COLLABORATIVE CLOUD FOR CULTURAL HERITAGE – INNOVATIVE TOOLS FOR DOCUMENTING, INTERLINKING AND ORGANISING DATA

Project selected under this topic aim at developing and implementing a set of innovative tools and methods on the Cultural Heritage Cloud for **documenting, interlinking and organising data**. Concrete applications of these tools and methods will be creating, enriching and refining annotated bibliographies, as well as documenting the results of fieldwork such as archaeological or paleontological excavations or other collection processes and studies.



StratiGraph

Knowledge Graphs for Stratigraphy

"StratiGraph aims to transform archaeological and paleontological documentation by developing innovative open collaborative tools that integrate advanced knowledge graphs, artificial intelligence, and 3D field documentation techniques. The project's 'data-ready' approach enables clean, structured data collection during fieldwork for seamless integration into knowledge graphs without additional curation burden. Key innovations include tools that function effectively in all conditions - a 'works-everywhere' solution allowing technology use even where power and connectivity pose challenges. The project will validate these tools through diverse case studies including the Basilica Iulia in Rome, Sarmizegetusa Regia in Romania, St. John Lampadistis Monastery in Cyprus, the Colonia Iulia Ilici Augusta in Spain, the Kraków Spadzista Palaeolithic site, the Santa Olalla site in Spain, and the dataset from Cesarea in Israel.

StratiGraph will deliver:

- Knowledge graph infrastructure to organize stratigraphic and spatial data
- AI-powered tools for creating and enriching annotated bibliographies
- Advanced 3D documentation capabilities for recording stratigraphy
- Variable connectivity protocols for real-time and seamless offline/online work
- Comprehensive training modules and technical support resources

The project emphasizes open science principles, with all tools being open-source and data FAIR[4]-compliant. Through integration with the Cultural Heritage Cloud, StratiGraph will establish new standards for digital documentation while fostering a skilled, collaborative research community across Europe. This will significantly reduce the time from discovery to publication while improving documentation accuracy and interpretation of our shared cultural heritage. By maintaining exclusive data control and ownership within EU-based institutions, the project supports Europe's strategic autonomy and long-term data governance objectives."

https://www.echoes-eccch.eu/stratigraph/
https://cordis.europa.eu/project/id/101232855

Project n°: **101232855**
Start date: **01/10/2025**
End date: **31/03/2029**

Consortium:

CONSIGLIO NAZIONALE DELLE RICERCHE – **IT**
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS – **FR**
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH – **AT**
THE CYPRUS INSTITUTE – **CY**
ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS – **EL**
3D RESEARCH SRL – **IT**
FONDAZIONE BRUNO KESSLER – **IT**
INSTITUTUL NATIONAL AL PATRIMONIULUI – **RO**
THE UNIVERSITY OF EXETER – **UK**
KEA EUROPEAN AFFAIRS – **BE**
Muzeul National de Istorie a Transilvaniei din Cluj-Napoca – **RO**
Israel Antiquities Authority – **IL**
INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK – **PL**
UNIVERSIDAD DE ALICANTE – **ES**
UNIVERSITE DU LUXEMBOURG – **LU**
CY CERGY PARIS UNIVERSITE – **FR**
INSTYTUT SYSTEMATYKI I EWOLUCJI ZWIERZAT POLSKIEJ AKADEMII NAUK – **PL**
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS - **ES**

Partners:

Parco archeologico del Colosseo – **IT**
UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA – **IT**
DEUTSCHES ARCHAOLOGISCHES INSTITUT – **DE**
FS ENGINEERING SPA - **IT**

[4] Principle of **F**indability, **A**ccessibility, **I**nteroperability, and **R**euse of digital assets, https://www.go-fair.org/fair-principles/

ARXIVE

Advanced Research and eXploration for Interoperable Value in European Heritage

ARXIVE revolutionizes the documentation, analysis, and dissemination of cultural heritage objects by developing cutting-edge tools and methodologies integrated into the Cultural Heritage Cloud. Addressing fragmented on-site workflows and the challenges of preserving both tangible and intangible cultural assets, the project introduces a semantic archival system that provides advanced solutions for annotating evolving digital twins. These tools empower cultural heritage professionals to create semantically rich, context-aware documentation while streamlining processes for research, preservation, and dissemination. The project enhances the accessibility, organization, and contextualization of cultural heritage objects by integrating high-fidelity 3D reconstructions, granular annotations, AI-powered annotated bibliography tools, and narrative-building applications. It ensures interoperability with established standards principles, fostering seamless collaboration and long-term sustainability.

Through two Use-Case Pilots (Greece and Portugal) the tools will be tested and validated in real-world environment. Through a comprehensive 'Financial Support to Third Parties' program for funding and accelerating of at least twenty projects via two diverse Open Calls, ARXIVE will engage different stakeholders, promote knowledge sharing and capacity building, and foster the scalability and wider adoption of Cloud tools. Leveraging the expertise of a multidisciplinary consortium of nine partners from five countries, the project establishes strong synergies with Cloud initiatives to amplify the impact of European cultural heritage. By advancing cutting-edge methodologies and fostering collaboration, ARXIVE positions European heritage at the forefront of innovation, ensuring its preservation and relevance for future generations.

https://www.echoes-eccch.eu/arxive/
https://cordis.europa.eu/project/id/101233418

Project n°: **101233418**
Start date: **01/01/2026**
End date: **31/12/2028**

Consortium:

GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER – **DE**
IDRYMA TECHNOLOGIAS KAI EREVNAS – **EL**
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV – **DE**
OPEN KNOWLEDGE FOUNDATION GREECE - **EL**
INOVA+ - INNOVATION SERVICES, SA – **PT**
FUNDACIO EURECAT – **ES**
ETHNIKI BIBLIOTHIKI ELLADOS – **EL**
MUSEUS E MONUMENTOS DE PORTUGAL EPE – **PT**
VILABS OE - **EL**

HORIZON-CL2-2024-HERITAGE-ECCCH-01-03

A EUROPEAN COLLABORATIVE CLOUD FOR CULTURAL HERITAGE – INNOVATIVE TOOLS FOR ADVANCED DATA ENRICHMENT

Project selected under this topic aim at developing and implementing a set of innovative tools and methods for the Cultural Heritage Cloud for **advanced data enrichment**. Concrete applications of these tools and methods will be providing for metadata enrichment, embedding scientific and professional value as well as IP and other associated rights throughout the digital content production chain. Collaboration- and business models based on the multi-actor value chain will also be implemented.



INFINITY

Multidimensional knowledge-based annotation for ethical context-aware heritage data life cycles

The Cultural Heritage Cloud is an EU initiative connecting cultural heritage institutions through shared digital tools. The project supports this effort by improving how Cultural Heritage Digital Objects (CHDOs) are managed and understood. Using multidimensional knowledge graphs, it will create richer, more ethical, and sustainable descriptions of heritage data, following FAIR[5] principles in both commercial and non-commercial contexts to ensure accessibility and reuse. INFINITY will offer an open library of AI and Semantic Web tools, enable crowdsourced data enrichment, and provide user-friendly interfaces for diverse professionals. Five real-world use cases will test these innovations, while training and close collaboration with cultural institutions will promote engagement and long-term impact.

The project advances the Cultural Heritage Cloud with an innovative ecosystem of tools and methods that enhance the lifecycle management of CHDOs. It focuses on creating enriched, multi-context descriptions of CHDOs through multidimensional knowledge graphs, supporting their nuanced, ethical and sustainable reuse. By embedding workflows, data provenance, IPR, and diverse cultural, historical and socio-political perspectives into CHDO descriptions, the project ensures inclusive and accurate representations. Key innovations include an open library of Semantic Web and AI-driven software components for metadata enrichment, multilingual knowledge extraction and explainable AI tools, all designed for seamless integration into existing Collection Management Systems. The project introduces scalable infrastructures to support large-scale crowdsourcing and citizen science campaigns, fostering collaborative CHDO annotation and reuse. Advanced interfaces provide intuitive access to CHDOs, enabling responsible interaction by diverse users, including citizens, cultural organizations, researchers and creative industries. Five use cases covering a wide range of data enrichment, IPR and ethical reuse scenarios will frame the development, validation and exploitation of INFINITY's solutions. To drive engagement and adoption, the project will establish a stakeholder network, deliver capacity-building workshops, provide training resources and launch an open call for cultural institutions and creative industries. These initiatives aim to unlock the potential of CHDOs to foster societal connections, enable innovative business models and support cultural preservation.

https://www.echoes-eccch.eu/infinity/
https://cordis.europa.eu/project/id/101233051

Project n°: **101233096**
Start date: **01/01/2026**
End date: **30/06/2029**

Consortium:

ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA – **IT**
STORYPACT GMBH - **AT**
FRIEDRICH-SCHILLER-UNIVERSITÄT JENA - **DE**
INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK - **PL**
STICHTING EUROPEANA - **NL**
DIGITAL PATHS SRL - **IT**
STICHTING NEDERLANDS INSTITUUT VOORBEELD EN GELUID - **NL**
FACTS & FILES DIGITAL SERVICES GMBH - **DE**
THE UNIVERSITY OF EDINBURGH - **UK**
MINISTERO DELLA CULTURA - **IT**
UNIWERSYTET WROCLAWSKI - **PL**
TIME MACHINE ORGANISATION (TMO)- ORGANISATION FUR INTERNATIONALE ZUSAMMENARBEIT IN TECHNOLOGIE UND WISSENSCHAFT UND KULTURELLEM ERBE - **AT**
EIT CULTURE AND CREATIVITY SOUTH WEST SL - **ES**

Partners:

ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE - **CH**
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH - **AT**

Third Parties :

FACTS & FILES - HISTORISCHES FORSCHUNGSINSTITUT BERLIN DRAUSCHKE - SCHREIBER PARTNERSCHAFTSGESELLSCHAFT -ARCHIV-, GESCHICHTS- U. LITERATURWISSENSCHAFTLER - **DE**
CONSIGLIO NAZIONALE DELLE RICERCHE - **IT**

[4] Principle of **F**indability, **A**ccessibility, **I**nteroperability, and **R**euse of digital assets, https://www.go-fair.org/fair-principles/

ECHOLOT

European Cultural Heritage Optimised Linked Open Tools

The EU-funded ECHOLOT project supports the development and adoption of the Cultural Heritage Cloud's digital infrastructure by researchers and institutions across Europe. The project's open-source software suite enables the curation and enrichment of cultural heritage data through AI-enhanced workflows combining automated processing and human input. Integrated as a core service within the Cloud, ECHOLOT facilitates the simultaneous publication of high-quality, semantically rich and interoperable data by aggregators such as Europeana and the common European data space for cultural heritage, as well as citizen science platforms from the Wikimedia ecosystem. Tested and validated through five thematic case studies, the project's added support for embedding rights and provenance metadata opens new collaboration opportunities across the research, heritage and creative sectors.

In support of the development and adoption of the Cloud by Cultural Heritage Professionals and Researchers (CHPR), ECHOLOT will make the creation, provision, and reuse of high-quality, semantically rich, and interoperable Cultural Heritage (CH) data accessible to scholars and institutions, significantly lowering the threshold for joining the Cloud. It will address the fundamental issue that, while ever larger amounts of diverse CH data are available through CH institutions (CHIs), the active reuse of this data, especially in research and the creative sectors, is hampered by poor quality and lack of interoperability. It will achieve this by seamlessly integrating as a core service in the Cloud, enabling the quality curation and enrichment of CH data, including multimedia, through AI-enhanced workflows combining automated processing and human input. Moreover, it will natively support embedding rights metadata and chain-of-production provenance, thereby preserving the value and integrity of CH datasets.

ECHOLOT will serve as an interoperability hub facilitating the exchange of CH data between systems. It will enable CHPRs to publish simultaneously to aggregators, such as Europeana, and open knowledge platforms from the Wikimedia ecosystem, as well as contribute to the Cultural Heritage Cloud and the Common European Data Space for Cultural Heritage.

Together, these technical innovations will revolutionise CHPR practices and increase the availability of CH data for reuse and collaboration across institutional and sectoral boundaries. ECHOLOT's solutions will be validated and tested in five case studies presenting a wide spectrum of CH actors. Maximising the adoption of ECHOLOT and the Cloud will be enabled by social and organisational change measures, including innovative business models co-created with relevant stakeholders. Training resources, interactive workshops and open-source software best practices will further support capacity building and long-term sustainability.

https://www.echoes-eccch.eu/echolot/
https://cordis.europa.eu/project/id/101233096

Project n°: **101233096**
Start date: **01/01/2026**
End date: **30/06/2029**

Consortium:

TECHNISCHE INFORMATIONSBIBLIOTHEK (TIB) - **DE**
INSTYTUT BADAN LITERACKICH POLSKIEJ AKADEMII NAUK - **PL**
STICHTING EUROPEANA - **NL**
DIGITAL RESEARCH INFRASTRUCTURE FOR THE ARTS AND HUMANITIES - **FR**
INSTYTUT BADAN LITERACKICH POLSKIEJ AKADEMII NAUK - **PL**
INSTITUT JOZEF STEFAN - **SI**
UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA - **ES**
Professional Wiki GmbH - **DE**
TAKIN.SOLYUSHANS - **BG**
KMA KNOWLEDGE MANAGEMENT ASSOCIATES GMBH - **AT**
Ustav pro ceskou literaturu AV CR, v. v. i. - **CZ**
INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK - **PL**
HELSINGIN YLIOPISTO - **FI**
MTU AUSTRALO ALPHA LAB - **EE**
MEEMOO - VLAAMS INSTITUUT VOOR HET ARCHIEF - **BE**

Third Parties :

OESTERREICHISCHE AKADEMIE DER WISSENSCHAFTEN - **AT**

HORIZON-CL2-2024-HERITAGE-ECCCH-01-04

A EUROPEAN COLLABORATIVE CLOUD FOR CULTURAL HERITAGE – INNOVATIVE TOOLS FOR DOCUMENTING, INTERLINKING AND ORGANISING DATA

Project selected under this topic aim at developing and implementing a set of innovative tools and methods on the Cultural Heritage Cloud for **high-quality interactions with visitors and cultural heritage objects**. Concrete applications of these tools and methods will be provided for uses such as creating, sharing and re-using interactive content, as well as analysing, designing and testing interactions with visitors.



UNICHE

Unified No-Code platform for Interactive Cultural Heritage Experiences

Creating engaging digital cultural heritage experiences can be technically demanding, limiting take-up for smaller institutions and independent professionals. The UNICHE project aims to simplify the process with a no-code, technology-agnostic platform that lets users collaboratively design, produce and share interactive cultural content experiences effortlessly. AI-assisted workflows repurpose existing content into multimodal experiences, from on-site and hybrid to fully remote exhibitions.

“The project aspires to co-design and create an intuitive, technology-agnostic “”black-box”” platform as a “no-code”, single-entry, collaborative tool for effortlessly designing, producing and sharing high-quality, interactive, cultural heritage experiences. With its user-friendly system, CH institutions and professionals, researchers, CI freelancers and resource limited players will be able to collaborate and generate high value interactive content in multiple formats (multimodal). UNICHE’s approach prioritizes ease of use and minimizes the technical expertise required, ensuring broad accessibility for diverse users and their audiences.

By leveraging and integrating existing advanced technologies and tools developed by the consortium, it’s platform (Repository, Authoring Environment, Experience Apps and Evaluation tool) addresses in a holistic way the four E’s: Exhibits, Experience design, Exhibitions and Evaluation processes. Direct access and inclusion of exhibits from existing data spaces at the EU and Member States’ levels through the Cultural Heritage Cloud is a fundamental aspect of the project, addressing key challenges in cultural heritage institutions.

The cultural content (exhibits) channeled through the Cloud is utilised and repurposed in the AI-assisted Experience design process and presented through the Exhibition phase (Onsite, Hybrid and Remote), in which Evaluation processes are put in place to inform the enhancement of visitor engagement.

UNICHE’s approach will firstly be evaluated in Pilot scenarios that represent diverse cultural heritage settings: open-air archaeological sites, museum permanent exhibitions and portable exhibitions and secondly will be further tested through an open call to third parties, inviting them to use the platform, fostering a community of small cultural heritage institutions and creative industry professionals.

https://www.echoes-eccch.eu/uniche/
https://cordis.europa.eu/project/id/101233650

Project n°: **101233650**
Start date: **01/10/2025**
End date: **30/09/2028**

Consortium:

UNISYSTEMS LUXEMBOURG SARL - **LU**
ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS - **EL**
MIASTOPRACOWNIA SP. Z O.O. - **PL**
FUNDINGBOX ACCELERATOR SP ZOO - **PL**
DEUTSCHES ARCHAOLOGISCHES INSTITUT - **DE**
IN2 DIGITAL INNOVATIONS GMBH - **DE**
LEOPOLY KFT - **HU**
MOBICS TELECOMMUNICATION AND CONSULTING SERVICES SA - **EL**
MUZEUM ARCHITEKTURY WE WROCLAWIU - **PL**
CONSIGLIO NAZIONALE DELLE RICERCHE - **IT**
Museo Galileo - Istituto e Museo di Storia della Scienza - **IT**

Third Parties:

MUSEOTEK ANONYMI ETAIREIA - **EL**
FUNDINGBOX COMMUNITIES SL - **ES**

Placemus XR

Digital Journey across Musical Places in Europe and Extended Realities

This research project focuses on creating digital applications that enable users to explore significant "places of music" across European regions and cities. The applications aim to provide an interwoven narrative, encompassing the musical event itself, its cultural and historical context, the location, and physical museum objects. This multi-layered storytelling approach will draw upon a diverse range of sources, including musical scores, instruments, chronicles, diaries, letters, philosophical treatises, and images. The project involves geographically mapping musical locations and creating engaging thematic itineraries based on places, people, themes, and historical periods, encompassing a wealth of tangible and intangible heritages. It will be implemented through case studies which will be further adaptable and extensible in the future.

The project will focus on developing cutting-edge digital tools to enrich the visitor experience at these places of music through virtual and augmented reality experiences, multimedia accessible through different applications and tools integrated in the Cultural Heritage Cloud. This includes a particular emphasis on reconstructing historical soundscapes, as well as the acoustic properties of spaces for musical performances, exploring the interplay between music and architecture, and harnessing the potential of virtual and augmented reality technologies. Furthermore, the project will create design and simulation tools, conduct analysis and evaluation of the impact of audio-visual communication in museums. To achieve these aims, the project will cater to a diverse audience, encompassing scholars, museum curators, the entire educational sector, creative cultural industries, citizens and tourists.

All datasets, metadata, and interaction tools will be Open Source and implemented in accordance with the FAIR[6] principles, aligning with the knowledge base and requirements of the Cloud.

https://www.echoes-eccch.eu/placemus-xr/
https://cordis.europa.eu/project/id/101233325

Project n°: **101233325**
Start date: **01/10/2025**
End date: **30/09/2029**

Consortium:

CONSIGLIO NAZIONALE DELLE RICERCHE – **IT**
FONDAZIONE CHANGES- CULTURAL HERITAGE ACTIVE INNOVATION FOR SUSTAINABLE SOCIETY – **IT**
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS – **FR**
UNIVERSITE DE TOURS – **FR**
MEZZO FORTE – **FR**
THE OPEN UNIVERSITY - **UK**
HANGVETO ZENEI TERJESZTO TARSULASKORLATOLT FELELOSSEGU TARSASAG – **HU**
GEORGIA FOLK LIFE – **GE**
3D RESEARCH SRL – **IT**
S.D. Cinematografica – **IT**
POLITECHNIKA KRAKOWSKA – **PL**

Partners:

MINISTERO DELLA CULTURA - **IT**
COMUNE DI BOLOGNA – **IT**
Fondazione Museo del Violino Antonio Stradivari Cremona - **IT**

[6] Principle of **F**indability, **A**ccessibility, **I**nteroperability, and **R**euse of digital assets, https://www.go-fair.org/fair-principles/

HORIZON-CL2-2024-HERITAGE-ECCCH-01-05

A EUROPEAN COLLABORATIVE CLOUD FOR CULTURAL HERITAGE – INNOVATIVE TOOLS FOR THE STUDY, CONSERVATION AND RESTORATION OF HERITAGE OBJECTS

Projects selected under this topic aim at developing and implementing a set of innovative tools and methods on the Cultural Heritage Cloud based on the **digital twins of cultural heritage objects** stored in the Cloud, for the study, conservation and restoration of cultural heritage objects. Concrete applications of these tools and methods provide for the uses that support the study of cultural heritage objects as well as conservation and restoration works.



EXCALIBUR

Advanced toolkits for interdisciplinary and enhanced study, conservation, and restoration in burial excavations and findings

The study, preservation, conservation, and restoration of burial sites can be a boon to researching and studying our cultural heritage, as well as ancient civilisations and cultures. It can provide key insights into their traditions, ceremonies, and so forth. However, this process is time-intensive, requiring sensitive handling of findings, as well as being costly. The EXCALIBUR project aims to develop a holistic framework that provides researchers with tools and methodologies for researching, studying, conserving, and restoring cultural heritage objects through the use of digital twins. The platform will provide open-source, cost-effective solutions for various situations across the cultural heritage spectrum, equipping researchers with the tools needed to efficiently discover breakthroughs and insights.

EXCALIBUR focuses on solutions that assist the study, conservation, and restoration of burial excavations, remains, and findings at the level of:

a) burial sites, excavations, and surroundings

b) tomb structures and burial decorations

c) artefacts, burial findings, traditions and ceremonies

d) human and burial remains.

Through the centralised, interoperable, and human-based platform of EXCALIBUR, toolkits of usable, open-source, and cost-affordable solutions will be available for the wide spectrum of cultural heritage. The DNA of EXCALIBUR consists of the real user needs, as archaeologists, bioanthropologists, museologists, conservators, historians, researchers, and scholars co-define the requirements and their needs, co-design the toolkits, test, evaluate, and validate the tools through representative case studies and an open call for support to third parties, and finally, using the innovative and enhanced solutions of the project through the Cultural Heritage Cloud. In addition, a multidisciplinary group of experts and sciences from European research, academia, and creative entrepreneurship join forces, sharing their knowledge, designing and developing through cutting-edge technologies, and delivering usable, cost-affordable, and sustainable solutions for enhanced study, improved conservation and restoration works, and knowledge of cultural heritage. The holistic framework and the innovative solutions of the EXCALIBUR project will be designed and developed according to the guidelines of the Cloud's infrastructure and services, as well as with close collaboration with the Cloud's ecosystem.

https://www.echoes-eccch.eu/excalibur-eccch/
https://cordis.europa.eu/project/id/101233712

Project n°: **101233712**
Start date: **01/10/2025**
End date: **31/03/2029**

Consortium:

ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS – **EL**

STICHTING NEDERLANDSE WETENSCHAPPELIJK ONDERZOEK INSTITUTEN – **NL**

LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN – **DE**

DIMOKRITIO PANEPISTIMIO THRAKIS – **EL**

CENTRO DI RICERCA, SVILUPPO E STUDI SUPERIORI IN SARDEGNA SOCIETÀ A RESPONSABILITÀ LIMITATA – **IT**

ERATOSTHENES CENTRE OF EXCELLENCE – **CY**

DIETHNES PANEPISTIMIO ELLADOS – **EL**

VILABS BG LTD – **BG**

CATALINK LIMITED – **CY**

INITIATIVE FOR HERITAGE CONSERVATION – **EL**

CYPRUS SECTION OF THE INTERNATIONAL COUNCIL ON MONUMENTS AND SITES (ICOMOS) – **CY**

SOPRINTENDENZA ARCHEOLOGIA BELLE ARTI E PAESAGGIO PER LA CITTA METROPOLITANA DI CAGLIARI E LE PROVINCE DI ORISTANO E SUD SARDEGNA – **IT**

BAYERISCHES STAATSMINISTERIUM FUR WISSENSCHAFT UND KUNST – **DE**

Partners:

PIX4D SA – **CH**

COLOURS

Collaborative On-cloud Lab for the conservation and digital restoration of ColOUred heritage collectionS

Preserving Europe's cultural heritage requires common digital tools shared by curators, conservators, and scientists to protect primary data and ensure accuracy, particularly concerning colour, which is essential for understanding artefacts. The Notre Dame fire showcases the need for adaptive solutions, while the Sistine Chapel restoration project highlights the value of predictive tools. In this context, the COLOURS project will develop integrated tools for colour analysis and the restoration of various artefacts, including sculptures, paintings, textiles, historic films, and photographs. These tools will connect with the Cultural Heritage Cloud, offering high-precision analysis and realistic restoration simulations. Additionally, the project will create hybrid spaces that facilitate real-time interactions with digital twins.

Preserving Europe's cultural heritage requires advanced digital tools that enable seamless collaboration among curators, conservators, and scientists. These tools must preserve primary data referenced to digital representations and twins and maintain documentation of analysis and reasoning processes. They must also preserve "raw" primary data to ensure accuracy and integrity and support future analysis techniques as the methods evolve. Colour, a key element of cultural heritage, is critical to understanding the historical and artistic significance of artefacts. However, its preservation faces challenges such as fading, alteration or loss. Building on 2 years of research and development conducted under the project PERCEIVE, the COLOURS project aims to make a major contribution to the digital transition of cultural heritage conservation and restoration by developing integrated colour analysis and restoration tools tailored to diverse artefacts. These tools, fully interoperable with the Cultural Heritage Cloud, will provide high-precision analysis, simulate restoration results with perceptual accuracy, and support interdisciplinary collaboration through hybrid spaces that merge virtual and physical environments. These spaces will enable real-time interaction with the digital twins, fostering inclusive decision-making among conservators, curators, and scientists, while ensuring accessibility for remote participants. In addition, the project seeks to enhance public engagement by leveraging mixed reality technologies and digital storytelling to showcase restored colours and convey the authenticity of artefacts, promoting a deeper appreciation of cultural heritage.

https://www.echoes-eccch.eu/colours/
https://cordis.europa.eu/project/id/101233413

Project n°: **101233413**
Start date: **01/10/2025**
End date: **30/09/2028**

Consortium:

CONSIGLIO NAZIONALE DELLE RICERCHE – **IT**
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV – **DE**
IDRYMA TECHNOLOGIAS KAI EREVNAS – **EL**
NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU – **NO**
FUNDINGBOX ACCELERATOR SP ZOO – **PL**
FUNDINGBOX COMMUNITIES SL – **ES**
ERASMUS CENTRE FOR ENTREPRENEURSHIP BV – **NL**
JAVNI ZAVOD REPUBLIKE SLOVENIJE ZA VARSTVO KULTURNE DEDISCINE - **SI**
Brakebusch Börries – **DE**
GALERIA MESTA BRATISLAVY – **SK**
MINISTERO DELLA CULTURA - **IT**

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This booklet gives an overview of the research and innovation projects selected for EU-funding from the 2024 Horizon Europe Cluster 2 call for proposals on 'Research and Innovation on Cultural Heritage and Cultural and Creative Industries - Building our future from the past'

Project information

Publications Office
of the European Union
Law | Data | Publications