

THIRD NETWORKING SESSION OF EC-FUNDED PROJECTS

BERLIN 22 NOVEMBER 2016

Series of networking events launched during RICHES FP7 project

Hosted by Europeana Space

Best Practice Network for the creative reuse of digital cultural heritage









PROGRAMME

• 14:00 – 15:00 Presentation of the projects

• 15:00 – 16:00 Discussion







E SPACE

PROJECTS

- Photoconsortium
- SCAN4RECO
- COURAGE
- CRUSEV
- Cultural Base
- EDMUSE
- EnDOW
- EUscreen Foundation
- FINNA.FI
- HEROMAT and NanomeCH

- iC-ACCESS
- IDEA Association
- INCEPTION
- MODSCAPES
- NANORESTART
- PREFORMA
- DARIAH-CY
- ITN-DCH
- Vi-MM
- Voices of Culture





International Consortium for Photographic Heritage

PHOTO CONSORTIUM





www.photoconsortium.net





International association to promote and enhance photographic heritage

A novel access point to photographic culture

A centre of expertise and knowledge on digitisation, digital archives, and metadata standards

A network for the research on the use and reuse of photography within virtual exhibitions, virtual museums, virtual reality applications

An aggregator for photography to Europeana

A travelling international exhibition "All Our Yesterdays (1839 - 1939): Life Through the Lens of Europe's First Photographers"



"Multimodal Scanning of Cultural Heritage Assets for their multi-layered digitization and preventive conservation via spatiotemporal 4D Reconstruction and 3D Printing"

Horizon 2020 "Scan4Reco" Project

Project Overview



Presenters:

Artur Krukowski & Emmanouela Vogiatzaki

R&D Projects Managers





Summary

Grant Agreement: 665091

Project acronym: Scan4Reco

Project title: Multimodal Scanning of Cultural Heritage Assets for their multi-layered digitization

and preventive conservation via spatiotemporal 4D Reconstruction and 3D Printing

Start date: 1/10/2015 - 30/09/2018 (36 months) **Currently @ M15**

Project website: www.scan4reco.eu and http://cordis.europa.eu/project/rcn/197123_en.html





Centre for Research and Technology Hellas Informatics and Telematics Institute





Research for Science, Art and Technology (RFSAT) Ltd





Centre for Research, Development, and Advanced Studies in Sardinia





"Ormylia" Foundation, Art Diagnostic Centre





BW TEK Inc.





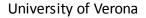
Fraunhofer Institute for Computer Graphics Research





Avasha AG









Opificio delle Pietre Dure



Aims and objectives

"Truth is like a sculpture - one perspective is never enough for true understanding"

F. Nietzsche

To offer a comprehensive and multispectral object representation (outside and inside)

To facilitate **preservation**, **conservation**, **curation**, **restoration** & **documentation** via **automatic digitization** of a wide variety of **cultural heritage assets** also **in situ**, using:

- Accurate 3D model representation of real object (geometry, internal/external structure)
- Multi-spectral scanning and digitization (visual, infra-red, ultrasonic, X-ray, Raman, etc.)
- Use real ageing of materials to derive ageing rules for simulated "ageing" in 3D models
- Detection of current defects and "prediction" of possible future deteriorations
- Automated scanning systems of ceramics, paintings and metallic objects (also on site)
- Realistic 3D printing (in variable scale) for reproduction and to aid in restoration
- Demonstration in Virtual Museum



The Scan4Reco Concept

Cultural Heritage Objects:

Paintings/icons

objects

sculptures



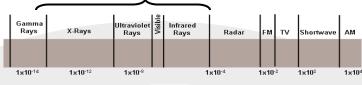




Multispectral scanning

Artificial ageing

Material Panel







Future Degradation 3D Reconstruction





Virtual Museum





WEB accessible

Immersive interaction

Ageing rules database

Aided restoration





Insight into internal structure

Multimodal, **Spatial and Temporal** Reconstruction

Integrated 3D modelling Realistic rendering Simulation

Realistic 3D printing







Interactive Visual Analytics



More about us...



Public WEB portal: http://www.scan4reco.eu



http://twitter.com/scan4reco



http://www.facebook.com/groups/982430741820987/



http://www.linkedin.com/groups/8428972



https://www.youtube.com/channel/UCqHuKVf9m-xBahvkA8ecmww/featured



http://www.rfsat.com/wiki/pmwiki.php



Questions & Answers





Emmanouela Vogiatzaki <u>Emmanouela@rfsat.com</u>

Artur Krukowski <u>Artur.Krukowski@rfsat.com</u>



Understanding the Cultural Heritage of Dissent in Former Socialist Countries

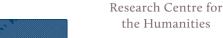
http://cultural-opposition.eu/













Institute for East and **Southeast European Studies**





Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin













This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 692919.





We think that culture in Eastern Europe before 1989 meant more than socialist realism and dull propaganda art: at certain times and places alternative cultural scenes flourished despite the strict controls of socialist regimes.

We do research that tackles this rich and colourful legacy of cultural opposition in the former socialist countries of Eastern Europe by exploring and comparing collections on cultural opposition.



COURAGE will show that people under authoritarian regimes frequently created cultural products that they themselves treated as a civil practice of dissent.

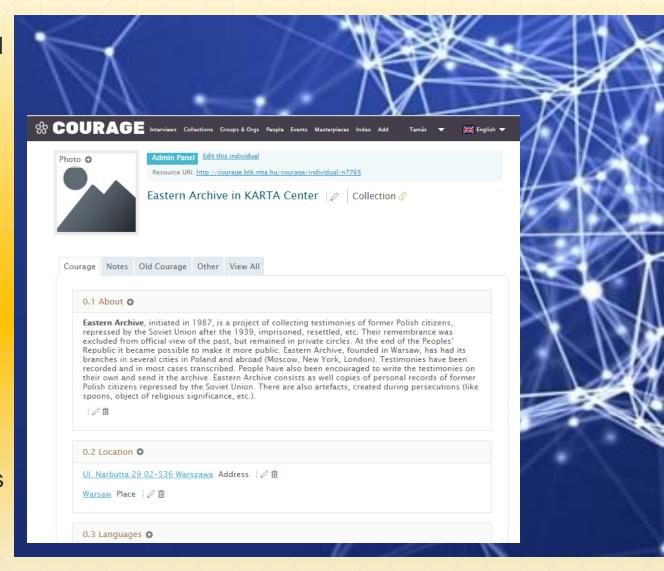
Metahistorical perspective.

We examine the collections as historical agents and producers in the processes of the fashioning of histories (including the history of cultural opposition).

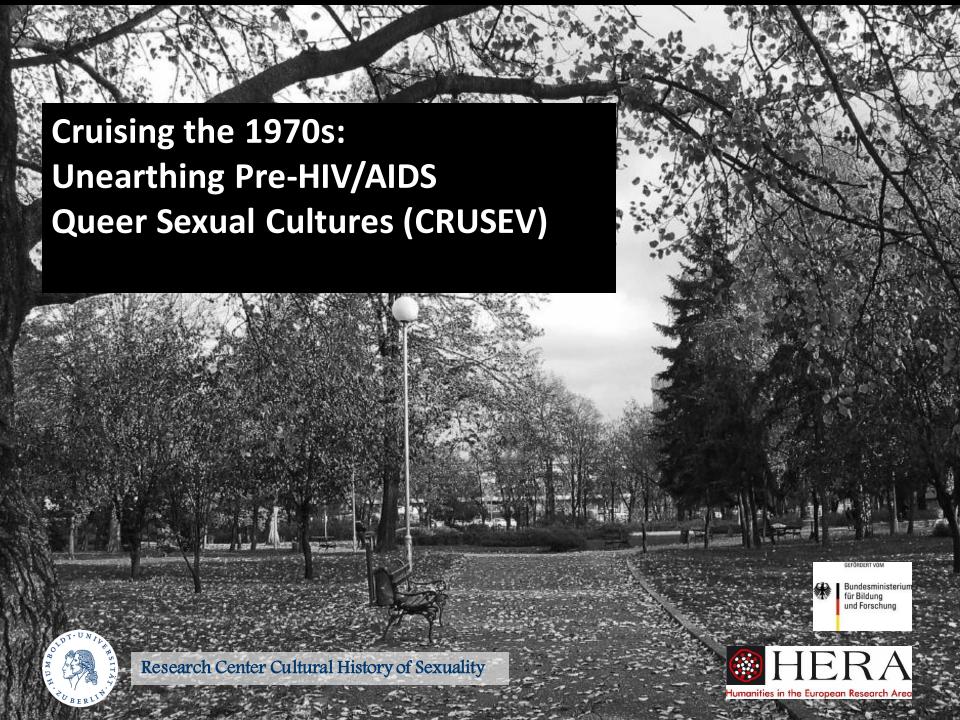
http://cultural-opposition.eu/

We create the first digital database of both online and offline private and public collections in Europe which testify to the survival of various forms of cultural opposition in the former socialist countries.

We show how these collections work, what functions they serve in their respective societies, and how they represent their holdings and findings to the national and international public.







HERA Joint Research Programme "Uses of the Past"

Pls
Glyn Davis (Edinburgh)
Juan Suárez (Murcia)
Fiona Anderson (Newcastle)
Tomasz Basiuk (Warsaw)
Andreas Krass (Berlin)

Research Question:

How might we best reconstruct and understand LGBTQ social and sexual cultures in the 1970s, and what can this knowledge contribute to understandings of queer politics and identity in Europe's present and future?

Transformative impact of queer world making in the 1970s on contemporary LGBTQ life in Europe and on the study of LGBTQ history in the present

- Challenges of historicising the recent past differences among European countries
- Blindspots in official histories of the 1970s
- Shaping impact of hegemonic public discourses (legal, religious, medical) around sexuality and gender identity on expressions of LGBTQ identity and experience
- Impact of these expressions on LGBTQ people in the present
- Relation of 1970s queer culture to the social and political legitimacy being won in many European countries at the time

Conference "A Golden Age for Queer Sexual Politics? Queer Literature and Film in 1970s Germany", Berlin, July 21-22 2017

CFP available at the website of the Research
Center "Cultural History of Sexuality"
(https://www.literatur.huberlin.de/de/forschung_idl/archiveforschungsstellen/forschungsstelle-kulturgeschichte-dersexualitaet/call-for-papers_a-golden-age-for-queer-sexualpolitics-1.pdf)



Cultural Base

Social Platform on Cultural Heritage and European Identities

Overview of the project

Berlin, November 22th 2016

Arturo Rodríguez Morató / University of Barcelona

rodriguez.morato@ub.edu

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 649454

For further information contact: info@culturalbase.eu www.culturalbase.eu





















CulturalBase as Social Platform

Social Platform on Cultural Heritage and European Identities



 CulturalBase explores the new challenges and the new potential of culture, where three pillars (cultural heritage, cultural identities and cultural expressions) intertwine combining the knowledge stemming from academic and non academic worlds.

Main groups in dialogue:

- ➤ A Consortium made up of 6 academic partners plus 1 professional partner backed by an Advisory Board of 5 members
- > Three stakeholders networks:
 - 1. Academic stakeholders
 - 2. Practitioners stakeholders
 - 3. Policy stakeholders



Academics and stakeholders interaction

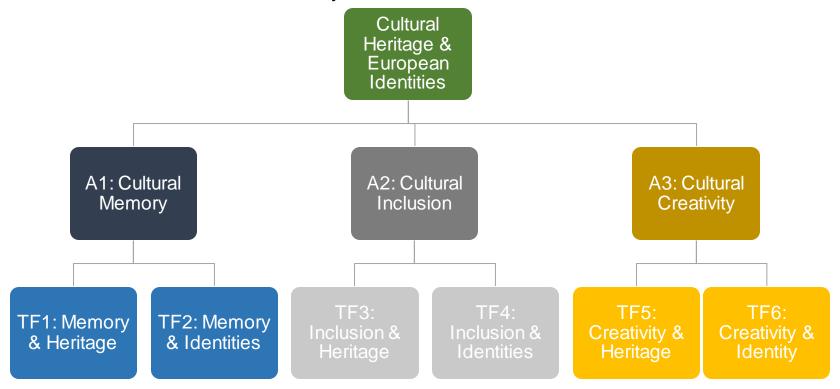


- Two main workshops
 - Online consultations
 - Stakeholders conference
 - Three local workshops
 - Policy seminar



Thematic Structure

- The work of CulturalBase is conducted along three main thematic axes:
 - Cultural memory
 - Cultural inclusion
 - Cultural creativity





Outputs by Axis

Research and policy review papers \rightarrow Vision Documents \rightarrow Research and Policy Agendas

Memory Agendas

- European Heritage Entangled Memories and Heritage Diplomacy.
- European Heritage Community Participation: from Exclusion and Contestation to Cooperation.
- European Heritage. Emergent Digital Past, exploring, facilitating and disseminating the non comercial and educational use of heritage.
- European Heritage Heritage Rights and Entangled values.

Inclusion Agendas

- New Cultural Commons –
 Memories of the Heritage of the Present.
- New Cultural Commons Euroepan Heritage of Mobility.
- New Cultural Commons Contesting European identity and Heritage today.
- New Cultural Commons Past and Present Urban Heritage.

Creativity Agendas

- Digital Single Market: policy and research dimensions.
- Cultural value and the "creative economy".
- New framework of cultural creativity.
- Cultural Hybridisation in Europe: its frameworks and its impacts.



Thank you for your attention

CulturalBase, Social Platform on Cultural Heritage and European Identities



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 649454

For further information contact: info@culturalbase.eu www.culturalbase.eu

















This document reflects the views only of the CulturalBase consortium, and the European Commission cannot be held responsible for any use which may be made of the information contained therein



EdMuse – Education and Museum: Cultural heritage for science learning



Third Networking Session of EC-funded Projects, hosted by Europeana Space

Berlin - 22 November 2016

EDMUSE Project

Vincenza Ferrara, Italy

Partners



La Istituto Comprensivo Via Val Maggia

Sapienza University of Rome

Digilab Research and Service Center

Italy

www.uniromal.it

Contact Person Vincenza Ferrara vincenza.ferrara@uniromal.it

ΥΠΟΥΡΓΕΙΟ ΠΑΙΔΕΙΑΣ, ΕΡΕΥΝΑΣ ΚΑΙ ΘΡΗΣΚΕΥΜΑΤΩΝ ΠΕΡΙΦΕΡΕΙΑΚΗ Δ/ΝΣΗ Π/ΘΜΙΑΣ & Δ/ΘΜΙΑΣ ΕΚΠ/ΈΗΣ ΔΥΤΙΚΉΣ ΕΛΛΑΔΑΣ ΔΙΕΥΘΎΝΣΗ Α/ΘΜΙΑΣ ΕΚΠ/ΣΗΣ ΑΧΑΪΑΣ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

46° 10/Θ ΟΛΟΗΜ, ΔΗΜ, ΣΧΟΛΕΙΟ ΠΑΤΡΩΝ

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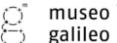


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Department of Cultural Education

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Contact Person Andreanna Koufou a.koufou@upatras.gr



EdMuse – Education and Museum: Cultural heritage for science learning

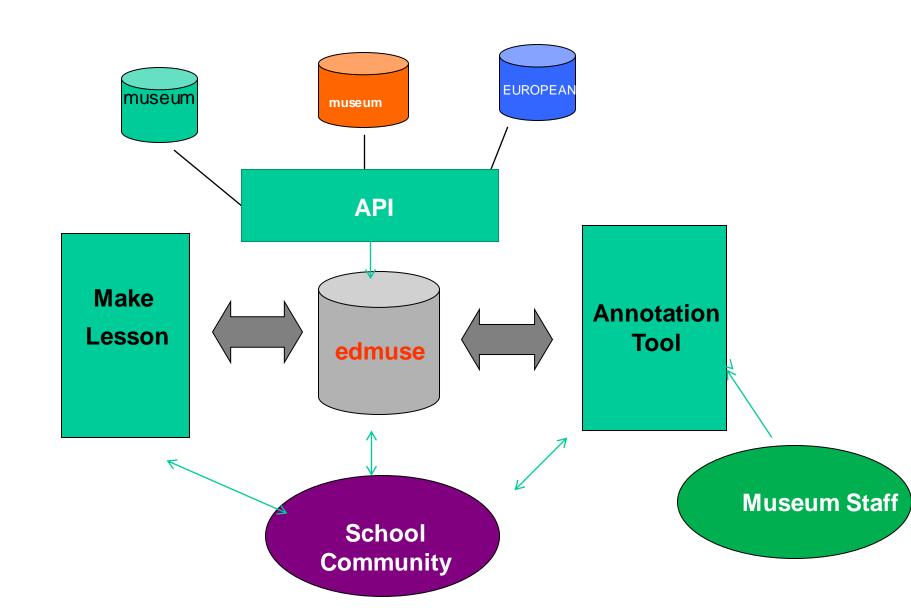


Project AIMS

Define a methodology to use technologies and digital cultural resources for making learning units

Design and development a platform to access and to re-use digital resources of cultural heritage in education

Schema





- Home page
- herbeceous plants
- shrubs
- trees
- · aromatic herbs
- pupils drawings

Ti trovi in: Home page > aromatic herbs

aromatic herbs

Aromatic herbs are used in the kitchen to give more taste to our dishes.



Oregano - Erbario - Museo di Botanica



Parsley - Europeana



Branch of rosemary plant - Europeana





EdMuse – Education and Museum: Cultural heritage for science learning



EDMUSE Project

http://Edmuse.eu edmuse2015@gmail.com



Enhancing access to 20th Century Cultural Heritage through Distributed Orphan Works Clearance

Aura Bertoni

Overview

- ▶ EnDOW is a 3-years project funded under Heritage Plus, a programme launched by 18 European national agencies and the European Commission as part of the Joint Programming Initiative in Cultural Heritage and Global Change.
- ▶ The project is a partnership of four European research centres:
 - ► CIPPM, Bournemouth University
 - CREATe, University of Glasgow
 - ► IViR, University of Amsterdam
 - ASK, Bocconi University, Milan











Objective

The main goal of EnDOW is...

▶ to facilitate the process of right clearance for European cultural institutions engaged in digitization of material contained in their collections.

Specifically, EnDOW aims at...

- designing, implementing and testing an efficient and cost-effective system for determining the "orphan work" status of library, archive and museum material, according to the requirements of the European Directive.
- streamlining the registration of orphan works.



Flowchart of operations



Work's known info

Public Domain Calculator Work is in public domain

Work is in-©

Status unknown

Relevant Sources (databases, RRO's, CMO's, ...) Right holder(s) unlocated

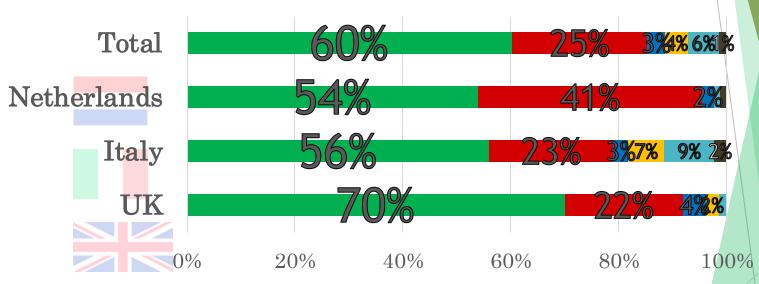
Right holder(s) located

Diligent search report issued

Right holder(s) info issued

Where are we now

Accessibility per Country



- Free Access Online (Incl. Reg)
- Paying Access Online
- Partial Access Online

- DB Not Accessible Online
- Paying Access On Site
- WIP (Will be accessible online)













2016 - ...

EUscreen: the **Expert Hub** for audiovisual heritage

2013-2016

EUscreenXL: The Pan-European Aggregator of

Audiovisual Content for Europeana

2009-2012

EUscreen: **Exploring** Europe's Television Heritage in

Changing Contexts

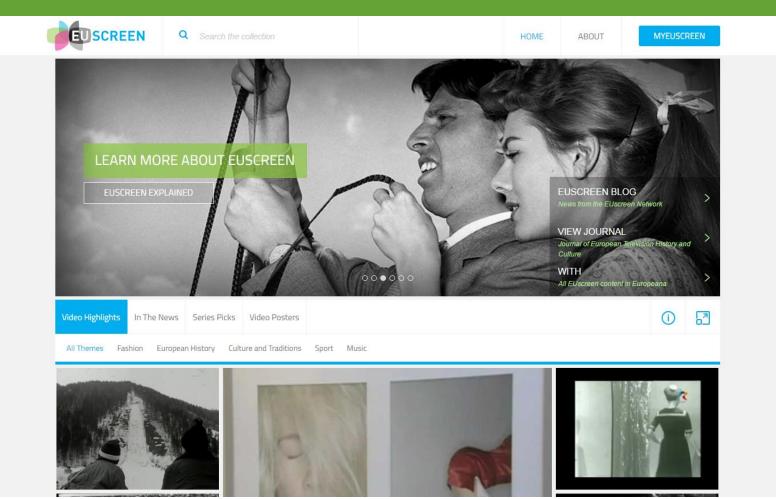
2006-2009

Video Active: **Providing Access** to TV heritage



"EUscreen is an independent, inclusive network, supporting durable and contextualised access to Europe's television heritage. We actively promote awareness of audiovisual heritage in various domains, including education, research, media production and towards the general public".

THE PORTAL





- 1. Maintain the effective operation of our service infrastructure
- 2. strive to **keep it up-to-date** by performing continuous editorial work, content selection, developing innovative technological solutions, etc.
- 3. **Strengthen the role as expert forum** for the exchange of knowledge on innovative developments in the audiovisual domain and the future of online AV archives;
- Continue to be actively involved in the international debate on copyright and open access to digital heritage;
- 5. Create opportunities for **collaboration** between academics, archivists and technology providers within the creative industry, education and research sectors;
- 6. Organise **training** for partners helping them develop new professional skills.



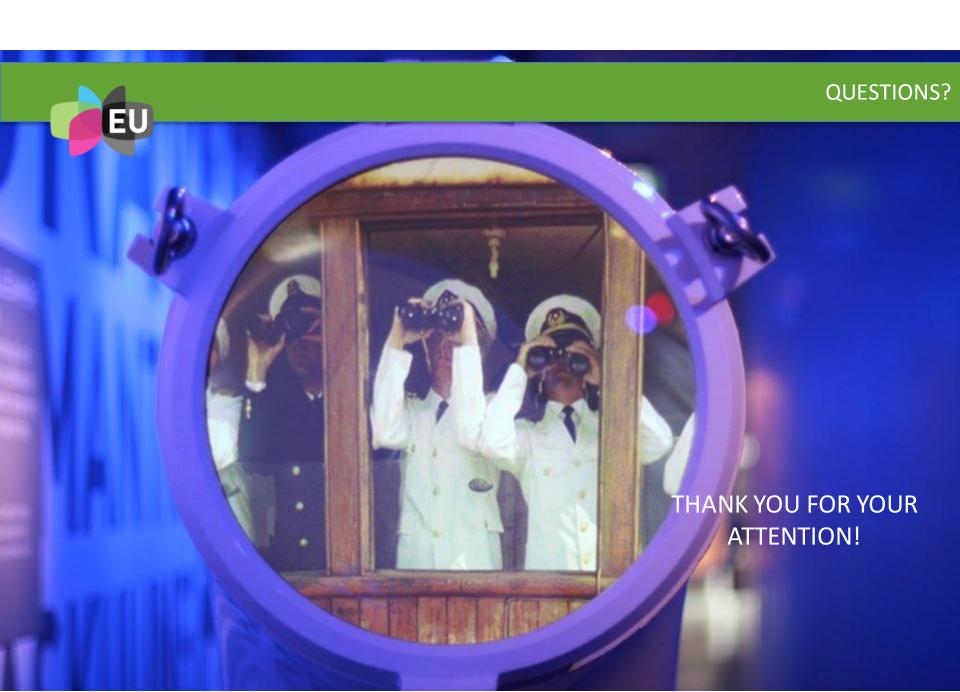
GOVERNANCE



FUNDING

- 1. Support from the network members (financial & in-kind contributions)
- 2. Europeana DSI
- searching for new EU funding opportunities





FINNA.FI

Enabling the Reuse of Finnish Digitized Cultural Heritage

ARCHIVE, LIBRARY & MUSEUM SYSTEMS

FINNA

Finna.fi is the public interface for the Finnish National Digital Library. It has made the digital cultural heritage of Finnish archives, libraries and museums easily accessible since its publication in 2013.

- + 11 million entries
- + 1,6 million records available online
- + 300 000 digital objects available under CC-licences
- + 120 archives, libraries and museums as providers
- + Open API released in early 2016



FINNA.FI & A FAMILY OF USER INTERFACES

- Finna.fi Exploring the collections of provider institutions with a single search.
- Institutions can build own Finna user interfaces.
- Discovery and delivery: service functions of provider institutions can be integrated into Finna.



FINNA STREET SEARCH

Search functionality based on **location**.

API.FINNA.FI

3rd Party Apps using CC0 metadata and openly licensed content from Finna

- Digital Learning Environments & Materials Haltu Dreamschool
 - Kuvatus
- Twitter bots
 @signebrander
 @helsinkikuvaa
- Apps & sites
 Finto thesaurus integration
 Loki Stories
 Ajapaik
 Sift.pics



THE NATIONAL LIBRARY OF FINLAND





NOVEL MATERIALS

- TWO CONSOLIDANTS
- PROTECTIVE PHOTOCATALYTIC COATING

RESULTS

- Pilot production (SMEs)
- In-situ application and monitoring
- New methods
- Mobile laboratory
- Dissemination

ADDED VALUES

- Networking and CLUSTER
- Refreshed curriculum content

NEW STEPS

 Preparatory steps for market launch





Research area/Call: FP7-ENV-NMP-2011

Total cost: 3.42 mil EUR

EU contribution: 2.58 mil EUR

Coordinated:

University of Novi Sad, Serbia

Duration: 12/2011-11/2015 (48 months)
HEROMAT website: ww.heromat.com
Contact e-mail: heromat@uns.ac.rs



- Association/clustering of already delivered and ongoing project to take care about achieved results, prevent overlapping with new proposals, perform continual monitoring efficiency and coordinate future actions (show case objects for multi results demonstration).
- Seek for EU support to successful projects which are just a few steps from the market launch (concerns: CH is a niche market - limited market impact and limited access to other EU funding (FTI).
- Advocate for new control approaches, standardization and legal approaches.
- Obtained results and generated knowledge systematized and available (onestop-shop) for education of experts in cultural heritage, restorers and other professionals involved in CH preservation and valorization.
- Three new proposals in materials, LCA and demonstration (H2020, ADRION), joint publishing, re-enhanced links and frequency of communication.

Survey on Knowledge management in CH multidisciplinary projects

- KNOWLEDGE INTENSIVE PROJECTS
- Do we really manage multidisciplinary knowledge?
- Common language and mutual understanding
- Communication structure, predefined expectations, group learning
- Extension to project management theory and practices
- Enable more effective and efficient CH collaborations
- Online survey December January
- Results will be published and made available to our community
- WE WILL VERY MUCH APPRECIATE YOUR EXPERT CONTRIBUTION:)





University of Amsterdam
Norwegian University of Science
and Technology
Staffordshire University
University of West Bohemia
Freie Universität Berlin
Universitat Pompeu Fabra

Herinneringskamp Westerbork
Jasenovac Memorial Site
Falstad Centre
Lidice Memorial
Muzeum Walki i Męczerstwa w
Treblince
Bergen Belsen Memorial
Wiener Wiesenthal Institut
Post Bellum





TESTIMONIES: CAMPSCAPES AS MEMORY



MATERIALITY: CAMPSCAPES AS TRACES



MAPPING: CAMPSCAPES AS SPACES





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RESOURCES »



EAGLE portal

- Set of resources
- aggregates contents and delivers them to Europeana
- Search of aggregated databases via image or string
- virtual exhibition
- wiki for translations of inscriptions
- storytelling application
- mobile apps
- events, community and networks



INSCRIPTIONS NEW & NOTEWORTHY

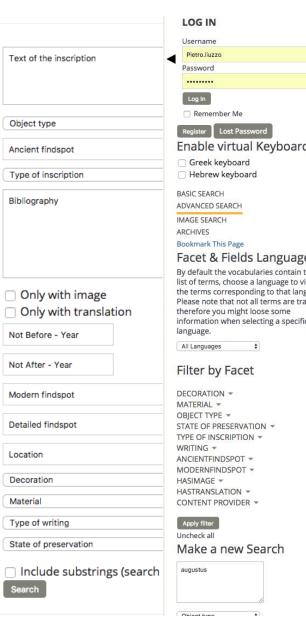


SEARCH INSCRIPTIONS

LOG IN Username Pietro.liuzzo Password Log In Remember Me Lost Password **Enable virtual Keyboard** ☐ Greek keyboard Hebrew keyboard BASIC SEARCH ADVANCED SEARCH IMAGE SEARCH **ARCHIVES Bookmark This Page** Facet & Fields Language By default the vocabularies contain the full list of terms, choose a language to view only the terms corresponding to that language. Please note that not all terms are translated therefore you might loose some information when selecting a specific language. All Languages Add/Remove Fields Modern findspot Detailed findspot Location Decoration Material Type of writing State of preservation

Update search form

Check all Uncheck all



Enable virtual Keyboard Facet & Fields Language By default the vocabularies contain the full list of terms, choose a language to view only the terms corresponding to that language. Please note that not all terms are translated information when selecting a specific

ARTEFACTS

CSV PDF Save result 4950 results found in the category ARTEFACT of which 3898 are unique results (i.e. related to the same inscription)

page 5 of 390



Content Provider: Epigraphische Datenbank Clauss - Slaby Ancient findspot: Germania superior, Augst - Augusta Rauricorum

Modern findspot: Augst Text: / Au]gustus [/]L S deae D[

Date: not available



Content Provider: Epigraphische Datenbank Clauss - Slaby Ancient findspot: Gallia Narbonensis, Chateauneuf - Cularo -

Gratianopolis

Modern findspot: Chateauneuf

Text: / [Merc]uriu[s((?))] / [A]urgiu[stus(!)]

Date: not available



BAU-/STIFTERINSCHRIFT AUF ARCHITEKTURTEIL Content Provider: Epigraphische Datenbank Heidelberg Ancient findspot: Macedonia, Colonia Iulia Augusta Diensis

Modern findspot: Dion Text: [---] / Aug[u]stus parens / dedit

Date: 30 BC - 14 AD



AE 1914, 0170.

Content Provider: Epigraphische Datenbank Heidelberg

Ancient findspot: Africa Proconsularis, Thugga

Modern findspot: Dougga Text: Divus / Augus/tus

Date: not available



Content Provider: Epigraphische Datenbank Clauss - Slaby

Ancient findspot: Belgica, Reims - Durocortorum

Modern findspot: Reims Text: / Augustus / Aprilis fili(us)

Date: not available

How many inscriptions in the world?

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STORIES

INSCRIPTIONS AND BEYOND

Posted by Ulrich Gehn on Jul 2, 2015

Honorific inscriptions to Roman emperors use standard formulae to praise the virtues of a good ruler. This is particularly true in the tetrarchic period (of the late 3rd/ early 4th century); however, what might seem dull at first sight, can prove very interesting when a destroyed text needed to be restored. A base found in Thamugadi, in the province of Numidia (now north-western Algeria) and last recorded on the forum of that city, is a telling example that a statue is more than just the inscription carved on it, and that it can reveal more...

READ MORE »

HOW MANY LIVES COULD AN INSCRIPTION LIVE?

Posted by Francesca Bigi on Jun 16, 2015

Mai

When we think of ancient inscriptions we instinctively associate them with the idea of a message engraved in stone meant to be delivered to eternity. In theory, it was so also

- in the mind of the ancient Romans, but, as we know, theory does not always match • G
- practice: evidences from the whole of the Roman empire show that inscriptions In suffered in antiquity a surprisingly high mortality rate, in some instances even higher H than that of the Romans themselves. The case of Lepcis Magna, one of the most
- Bi prosperous city of North Africa and capital of... In
- · Ancient Documents on an interactive linked data map Peripleo

Hello eagle-reserved!

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Logout

LATEST STORIES

- Inscriptions and beyond
- How many lives could an inscription live?
- A Silver Statue and a Golden Mouth
- 1 fragmentary epigraph, 1 anonymous relief fragment, and 2 gods
- Herculanus, Auggustorum nostrorum verna
- Where are the Dacians?
- The wax tablets of Alburnus Major
- The Building inscriptions of Eleusis and the importance of the epigraphic evidence for reconstruction of architectural remains
- Tile messages from Valencia
- A death in the Nauportus River

Room 0: Introduction



mation



EPICRAPHIC DATABASE BARI Inscriptions by Christians in Rome Ord-8th cent. CE)

ED827

Pertaining to Coem. Callisti pare inferior (via Appia)

Triulus sepulchralis insculptus

Tabula marmorea

Claric: 376-399

Edition(s): ICVR IV, 10056



[Soter]hicus et Leontia Nym-[phidi]o filio dulcissimo dormi-

[enti i]n pace qui depostus est

[--- au]g(ustas) vix(it) annum m(cn)s(cs) X d(icm) I ((vas)) ((avis in arbore)) ((equus))

SEPULCRALIS

EAGLE Vocabulary - Type of Insoription

preferred label	relation	term	language
Sepulcralis			in
	Translated term	Epitaph	en
	Translated term	funerary	en
	Translated term	funerary inscription	en
	Translated term	Inscription funéraire	fr
	Translated term	Inscription probablement funeraire	fr
	Translated term	Grabinschrift	de
	Translated term	Sepulchral Inscription	en
	Translated term	sirfelirat	hu
	Definition	Nicht bei Grabcippi, auf denen die Gre des Grabbezirks genannt ist (s.Grenzmarkierur	de .
	Examples	HD002154	de
	Examples	HEpOnline 35	65
	Examples	EDR000008	la
	Related term	Epitaphe métrique	fr
	Figures term	has Sandonnes	.00

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TAFEL

preferred label	relation	term	language
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	Translated term	lastra	it
	Translated term	sheet	en
	Translated term	slab	en
	Translated term	tablette	fr
	Translated term	tabula	ia
	Translated term	πίνακας	el
	Translated term	πινάκιο (ξύλινο συνήθως)	el
	Translated term	بلاطة	ar
	Related term	Inscribed plaque	en
	Related term	Placa	es
	Same as	Dalle	fr
	Same as	Planchs.	es
	Same as	Tatel PAGENCE	de
	Created	2013-10-01 22:44:21	

CAMPILLAND INDIAN	relation	term.	language
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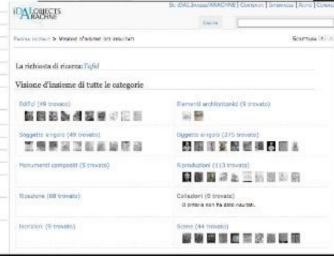
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ICVR IV, 10056 [odt]

Authorize
Statement

The control of the control of

RESOURCES

Translations Stolegosphy





IDEA - International Digital Epigraphy Association

Via Boccioni 2, 56037 Peccioli - Italy - Ph. 0039 0587 466881

Membership Application

I hereby apply to become a member of IDEA for the year 2016 and I agree to be bound by the rules of the association in force at the time.

Charter of the International Digital Epigraphy Association

https://form.jotformeu.com/61524210874350

Third Networking Session for EC-funded projects on Cultural Heritage Berlin, 22nd November 2016

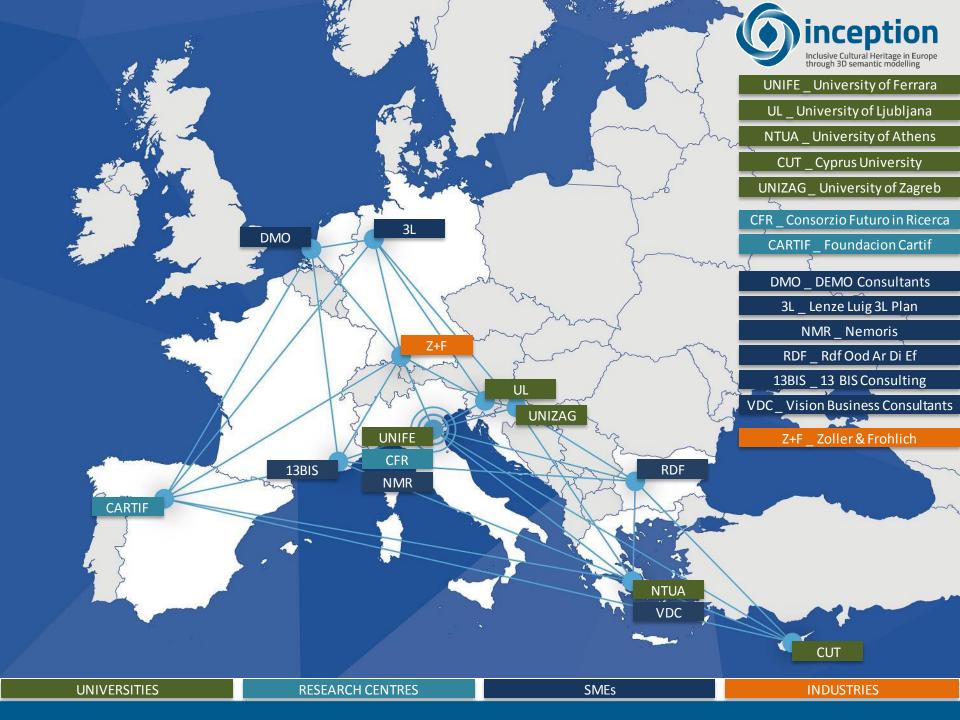


INCEPTION

Inclusive Cultural Heritage in Europe through 3D semantic modelling

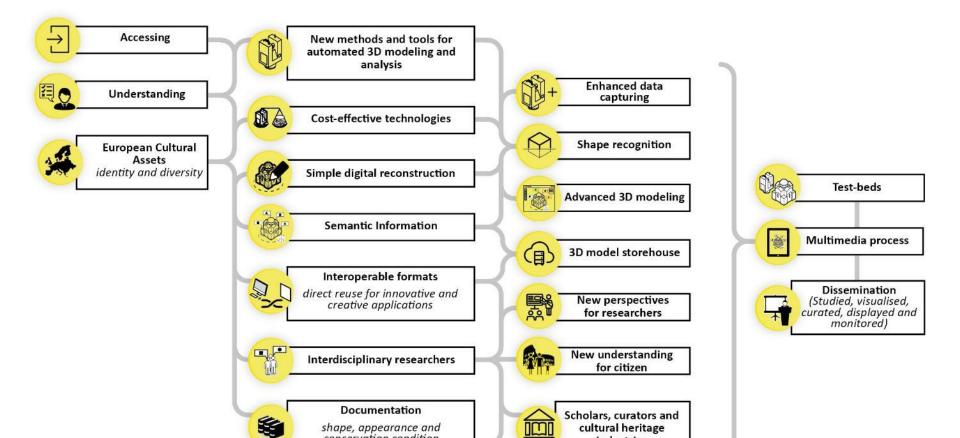
Federica Maietti | Department of Architecture, University of Ferrara





CHALLENGES





industries

conservation condition

OBJECTIVES



Main aim | To realise innovation in 3D modelling of cultural heritage through an inclusive approach for time-dynamic 3D reconstruction of built and social environments.

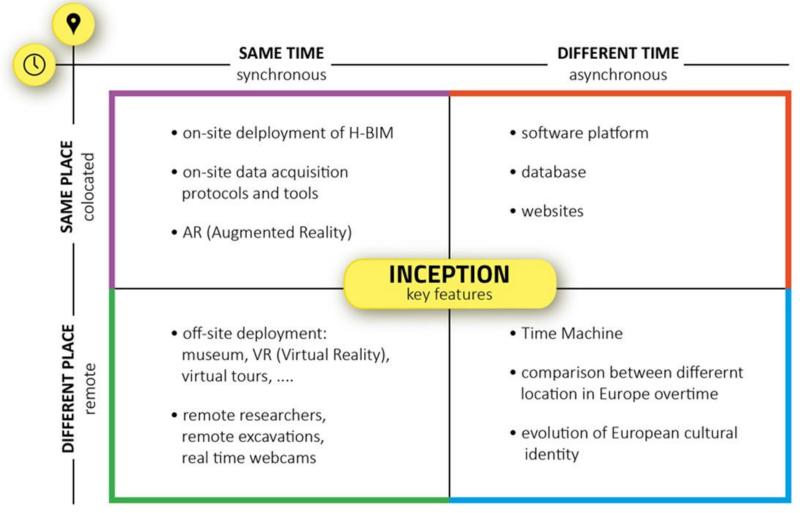
Project objective 1 | To create an inclusive understanding of European cultural identity and diversity by stimulating and facilitating collaborations across disciplines, technologies and sectors. WP 1, 4, 5 and 6

Project objective 2 | To develop cost-effective procedures and enhancements for on-site 3D survey and reconstruction of cultural heritage artefacts, buildings, sites and social environments. WP 2 and 5

Project objective 3 | To develop an open-standard Semantic Web platform for accessing, processing and sharing interoperable digital models resulting from 3D survey and data capturing. WP 3 and 4



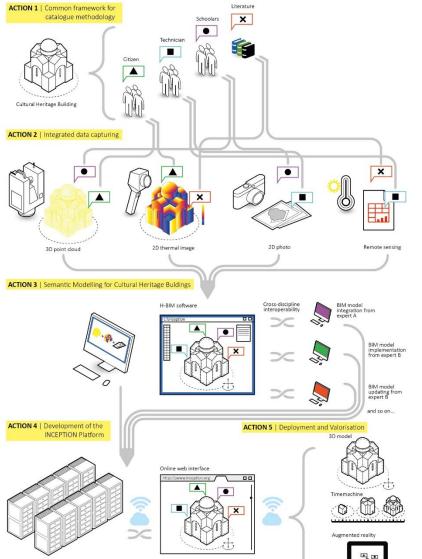
Targeted key achievements | Major innovation in (Co)Located – (A)Synchronous 3D Cultural Heritage modelling for analysis and understanding of Europe cultural identity through time dimension.



CONCEPT, METHODOLOGY AND TRANS-DISCIPLINARY







Action 1 | Common framework for cataloguing methodology

Action 2 | Integrated data capturing

Action 3 | Semantic Modelling for CH buildings

Action 4 | Development of the INCEPTION platform

Action 5 | Deployment and Valorization



WORK IN PROGRESS, NEXT STEPS, EXPECTED RESULTS

Requirements standards and protocols

- Mapping knowledge demands and users' and stakeholders' key requirements;
- Definition of measurable common parameters for European cultural assets (documentation protocol, nomenclature and performance indicators)

Hardware & Software advancement and innovation of procedures and tools

 Optimization and enhancement of 3D data capturing and processes and tools for BIM-oriented data conversion

INCEPTION Platform

- BIM-based platform, semantic web ontology and inclusive web interface

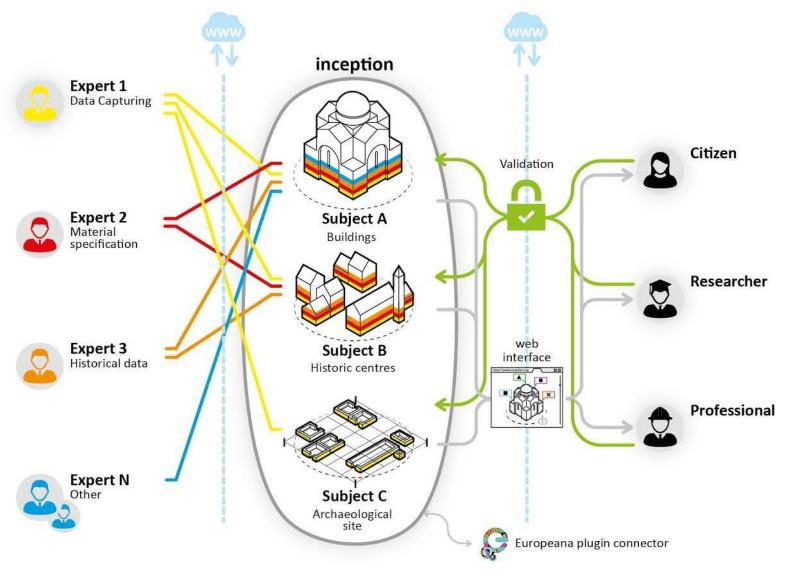
User-oriented tools and applications

- Demonstration cases and on-site and off-site model deployment

Requirements standards and protocols



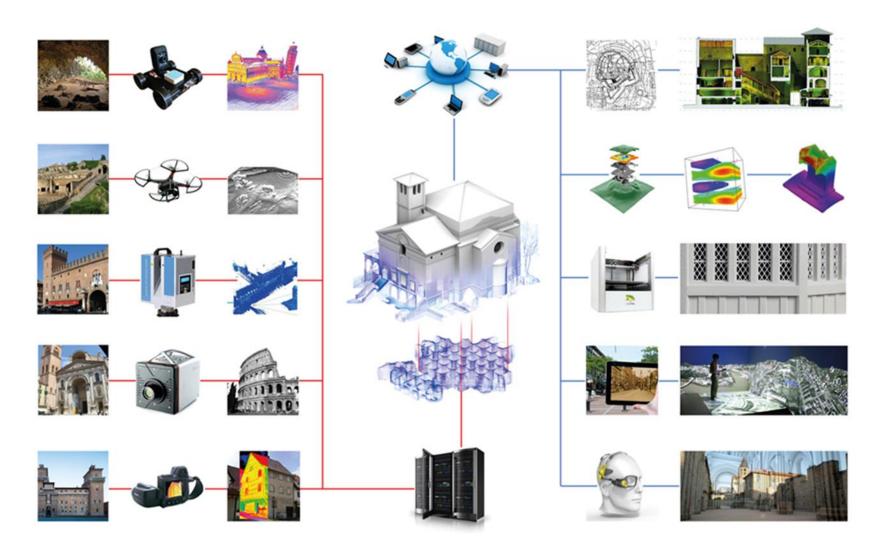
Mapping knowledge demands | Users' and Stakeholders' key requirements Measurable common parameters for European cultural assets

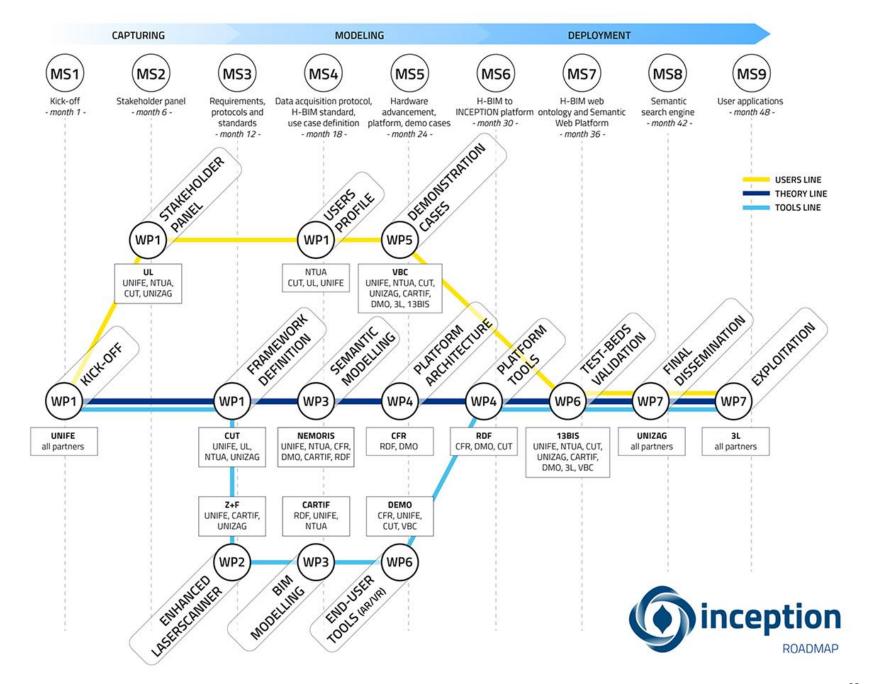


INCEPTION Platform



BIM-based platform, semantic web ontology and inclusive web interface







Federica Maietti federica.maietti@unife.it

www.inception-project.eu



COLOPHON

© INCEPTION

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THIS RESEARCH PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S H2020 REFELCTIVE PROGRAMME FOR RESEARCH AND INNOVATION UNDER GRANT AGREEMENT NO 665220. THE INFORMATION IN THIS PUBLICATION DOES NOT NECESSARILY REPRESENT THE VIEW OF THE EUROPEAN COMMISSION.

Third Networking Session for EC-funded projects on Cultural Heritage

Berlin, 22nd November 2016

Author: Federica Maietti (UNIFE)



modernist reinventions of the rural landscape

MODSCAPES



RURAL LANDSCAPES

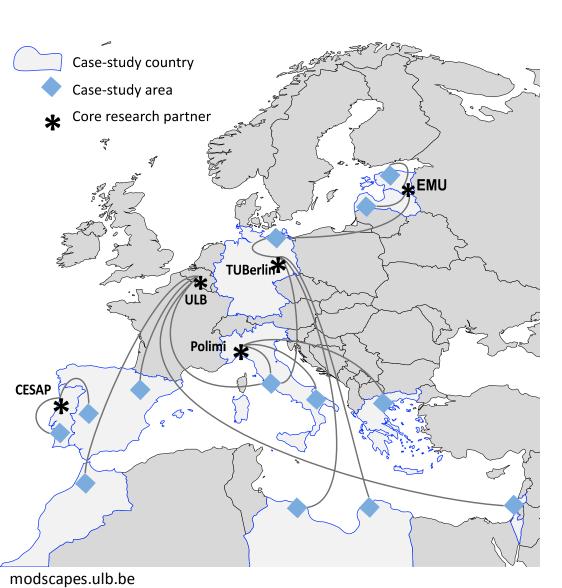
- produced by large-scale agricultural improvement / colonization schemes
- planned in the 20th century throughout Europe and beyond
- in different political and ideological contexts

CONCEPT OF LANDSCAPE

- unifying paradigm
- trans-disciplinary approach to tangible and intangible legacies
- bridge research, practice and policies
- test outcomes against current challenges

SHARED CULTURAL HERITAGE

- raise awareness around European history
- combine research-driven and bottom-up participatory activities
- enable better understanding of common patterns and diversities of our national identities
- help to support shared European narratives



TIMEFRAME: 10.2016-10.2019

FUNDED BY: HERA,

Humanity in the European Research Area

PARTNERS:

- •Université Libre de Bruxelles (Project Leader),
- •Politecnico di Milano,
- •Cooperativa de Ensino Superior Artistica do Porto.
- •Estonian University of Life Science,
- •Technical University of Berlin

ASSOCIATE PARTNERS

- •CIVA International Centre for Urbanism, Architecture and Landscape (Brussels)
- DOCOMOMO International
- •CIVILSCAPES (Bonn)
- •ECLAS European Council of Landscape Architecture Schools (Vienna)

CASE STUDIES: in Portugal, Spain, Italy, Germany, Baltic States, Greece, Libya, Morocco, Israel

5 WORKING PACKAGES: to allow a comparative perspective on the case studies





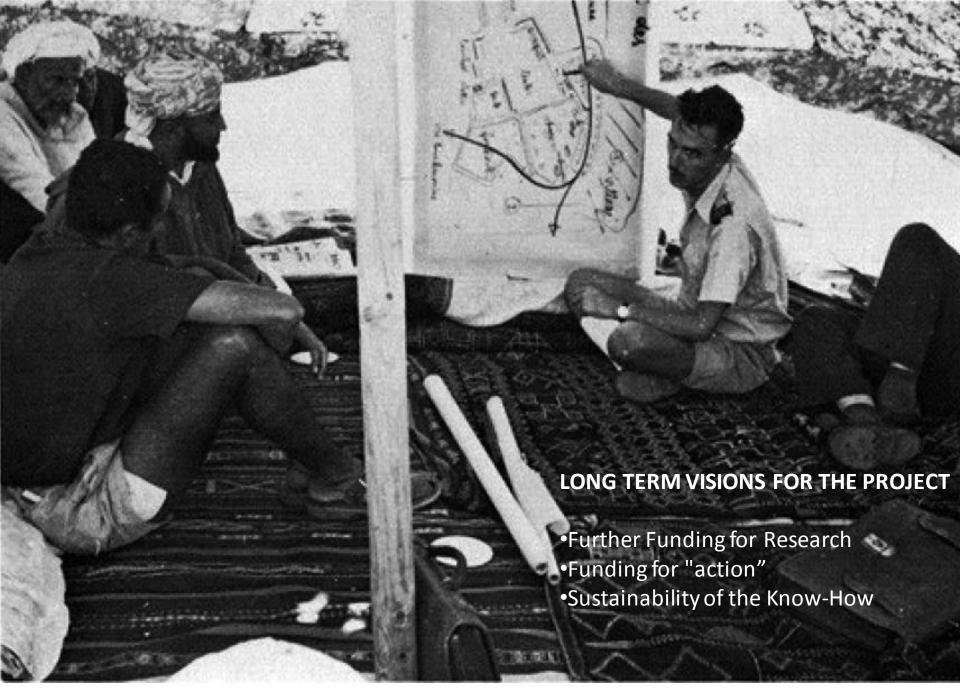
SHARING DATA: a tool, a product, a way of sustainability







modscapes.ulb.be



modscapes.ulb.be





NANOmaterials for the RESToration of works of ART

HORIZON 2020

NANORESTART focuses on nanotechnologies and contemporary art.

TOPIC: NMP-21-2014

"Materials-based solutions for protection or preservation of European cultural heritage"

Duration:
42 months as of June 2015
Budget:
about EUR 9 million

Why? Contemporary art is a major challenge for conservators since there is a significant lack of established conservation methodologies that can safely tackle the often extremely fast degradation of materials used by contemporary artists. The most effective way to solve this issue is to develop specific materials to counteract the degradation and consolidate works of art.



Coordinated by





26 partners from 14 countries over the word





MAIN CONSERVATION CHALLENGES

Conservation challenge 1 - Cleaning of contemporary painted and plastic surfaces

Conservation challenge 2 - Stabilization of canvases and painted layers in contemporary art

Conservation challenge 3 - Removal of unwanted modern materials

Conservation challenge 4 – Enhanced protection of artworks in museums and outdoors





NANORESTART is articulated into eight work-packages. All the WPs have already started

Work Package 1 - Management

Work Package 2 - New tools for cleaning

Work Package 3 - Surface strengthening and consolidation

Work Package 4 - Protection of surfaces

Work Package 5 - Nanostructured substrates for highly sensitive detection

Work Package 6 - Environmental impact assessment

Work Package 7 - Industrial scale-up and exploitation of the newly developed technologies

Work Package 8 - Dissemination and knowledge transferring to stakeholders





Several products for the preservation and restoration of works of art will be developed during the project

HORIZON 2020

Products to be developed	Delivery Month
Environmentally friendly nanostructured fluids for residue-free removal of unwanted materials	May 2016
Soft-matter scaffolds loaded with nanostructured fluids for the cleaning of sensitive surfaces	Aug. 2016
Soft-matter scaffolds gelloaded with enzymes for the cleaning of sensitive surfaces	Jan. 2017
Hard-matter scaffolds for the cleaning of sensitive surfaces	May 2017
Preparation, deposition, characterisation of multifunctional active protective layers for metals and plastics	May 2017
Preparation, deposition, characterisation of multifunctional passive protective layers for metals and plastics	May 2017
Hybrid systems of functionalized biopolymers and inorganic nanoparticles for the strengthening of fabrics	July 2017
SERS-active substrates for the detection of art materials and degradation products	July 2017
Preparation, deposition, characterisation of multifunctional active/passive protective layers for metals and plastics	Nov. 2017
Carbon and metal (nano-structured) materials electrochemical sensors for the detection of selected degradation products VOCs	Jan. 2018
Functionalized nanomaterials for the controlled release of plasticizers to recover the original properties of plastic substrates	Sept. 2018





Trademarks already registered by CSGI under the EU project NANOFORART and already available to conservators

Nanorestore® (distributed by CTS)

Nanorestore Paper®

Nanorestore Gel®

Nanorestore Cleaning®

Nanorestore Plus®*





18 PRODUCTS are already distributed by CSGI and—2
NEW PRODUCTS will be added soon within the
Cleaning line

For more information check our website: www.csgi.unifi.it/products/products.html

Or write to products@csgi.unifi.it





HORIZON 2020

We already tested some of the new materials and methodologies coming from the EU project for the cleaning of important works of art, such as the masterpiece of Pollock, named "Two" and "The Studio (L'Atelier)" by Picasso.



Pablo Picasso, The Studio (L'Atelier)



Jackson Pollock, Two



PREservation FORMAts for culture information/e-archives

Networking Session
Berlin 22 November 2016
Borje Justrell

Riksarkivet/National Archives, Sweden





Resources



- PREFORMA is an EU-funded Pre-Commercial Procurement project (FP7-ICT Programme) targeting one of the main challenges that memory institutions are facing today: longterm preservation of digital data.
- Duration: 48 month (1 Jan 2014 31 Dec 2017)
- Total budget for the procurement: 2.805.000 EUR
- Website: <u>www.preforma-project.eu</u>
- Contacts:
 - Project Coordinator: Borje Justrell, Riksarkivet, borje.justrell@riksarkivet.se
 - Technical Coordinator: Antonella Fresa, Promoter Srl, fresa@promoter.it
 - Communication Coordinator: Claudio Prandoni,
 Promoter Srl, <u>prandoni@promoter.it</u>

PREFORMA Concept



- The project develops three open source conformance checkers that control whether a file complies with standard specifications and with the acceptance criteria set by a memory institution.
- These conformance checkers offer full control of the process of conformity testing of files to be created, migrated and ingested into a digital archive.
- Interoperability mechanisms will also allow the integration of the conformance checkers into the legacy systems of the memory institutions as well as their extension to new formats





PREFORMA Concept



- The PREFORMA project seeks to establish a sustainable community that
 - ensures long-term availability of the soft ware
 - generates useful feedback for those who control it, and
 - advances improvement of the standard specifications.

Authenticity, interpretability "How to understand/interpret the data?"	Digital object conceptual object	Semantic Preservation
Object formats "How to open/render the file?"	logical object	Logical Preservation
Bit rot "How to keep the 1s and 0s ?"	physical object	Bit Preservation





Virtual MultiModal Museum (ViMM)

- Coordination and Support Action
- From November 2016 To December 2019
- Main Objectives:
 - Define, develop and promote a unique sustainable platform to broaden and intensify discussion as well as engage a large number of EU CH stakeholders and users across the whole community, going beyond VM.
 - Articulate communication and consultation with European and international organisations such as UNESCO, ICOM, ICOMOS, CIPA, ICCROM, Getty, Europeana Foundation, Wikipedia, in order to gain common understandings and establish positions of mutual support.

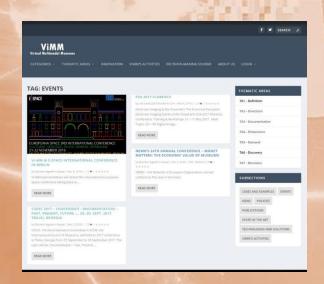






Virtual MultiModal Museum (ViMM)

 Platform is already running: vi-mm.eu Register & begin contribution! Kickoff Meeting @EuroMed2016
 International Conference











DARIAH — CY Cypriot Digital Research Infrastructure for the Arts and Humanities

• Aims at:

- **Developing** a dynamic, sustainable and evolving research **network**
- Coordinating on a national level all local initiatives in the field of Arts and Humanities

• Who can get involved:

- Researchers
- Education professionals
- Managers of cultural collections (archivists, librarians, museum curators etc.)

E P F X

Industrial sector

• How:

Developing, maintaining and distributing services and digital resources

Benefits:

- Access to the National and the European Infrastructure services, DARIAH-EU
- Increase of the is bility of participants' digital collections

DARIAH — CY Cypriot Digital Research Infrastructure for the Arts and Humanities

- Kickoff Meeting @EuroMed2016
- DHRLab is the National Coordinator in Cyprus – one of the founding members
- Currently: Local stakeholders are informed and CY DARIAH Agenda is in preparation
- Next Step: Coordination and action
- Aim: establishment of a sustainable network (with working groups) such as DARIAH-DE







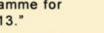
ITN-DCH

- The first and one of the largest Marie Curie fellowship projects in the area of the e-documentation / e-preservation and CH protection
- From October 2013 To September 2017
- Main Mission:
 - to train 20 fellows in the area of CH digital documentation, preservation and protection
 - new generation of creative, entrepreneurial and innovative researchers, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit

"This project has received funding from the European Union's Seventh Framework program for research, technological development and demonstration under grant agreement no 608013."









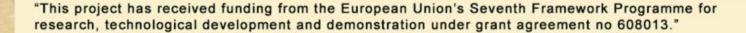
The power of ITN-DCH



"This project has received funding from the European Union's Seventh Framework program for research, technological development and demonstration under grant agreement no 608013."











ITN-DCH in action!



"This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 608013."

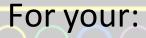




E SPACE

Thank you very much Europeana Space





Support

Inspiration

Excellent Cooperation



Merry hristmas!

> Digital Heritage Research Lab Cyprus University of Technology







DISCUSSION

- 1. European Cultural Heritage Year 2018: sharing our common cultural heritage and its potential for identification, participation and development in the light of a heterogeneous European society and against the background of current political and economic challenges.
- 2. The future of coordination activity among projects: what projects want to do in the future to coordinate among themselves? how can we move forward in terms of networking sessions and synergies for further research and funding application?
- 3. Accessibility and sustainability of projects' results: what happens to the work that the projects are doing? how can we ensure accessibility and sustainability?





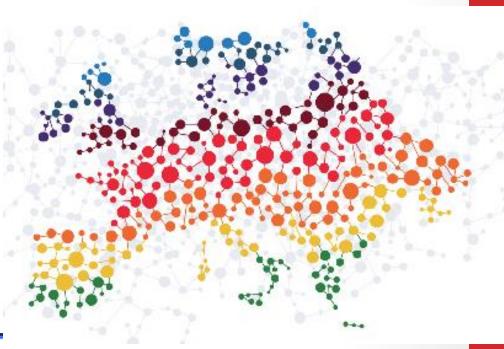


ECHOES - Enabling Cultural Heritage Oriented European Strategy - is a

community to connect all conservation science activities and stakeholders in Europe.

The cluster is a **bottom-up organization**.

The participation is open to all the people interested to the cluster mission.





Preliminary members

















PROJECTS









The goals are

- To support the scientific community to create network with different expertise in CH conservation
- To gather and focus the needs of conservators and cultural institutions
- To create a platform for analysis, characterization and evaluation of restoration and conservation methodologies
- To provide a suitable background for establishing and standardizing good practices in CH conservation
- To provide an open forum to citizens for discussion, problem solving and presentation of case-studies
- To support EC policy development in the field of tourism and industry related with CH conservation and valorization
- To wide and stimulate discussion and consultation with stakeholders.
- To play a major role in providing input to the Leadership in Enabling and Industrial Technologies (LEIT) policy on research road mapping in conservation science.



The structure



Cluster Coordinator



Working Group Leader

elected by the participant of the WG





Conservation Advisory Board

representing stakeholders in the conservation community (museums, policy-maker, national, ecc...)



Management Board

constituted by the coordinator and the WGLs and one representative from IAB and CAB



Industrial Advisory Board

representing stakeholders in the industrial community



For more information about ECHOES please visit the website http://www.echc.eu

Or contact

Piero Baglioni

baglioni@csgi.unifi.it or patrizia@csgi.unifi.it

