

Fourth Networking Session of EC-funded projects and other initiatives in the CH sector

Padua 6 March 2017

Series of networking events launched during RICHES FP7 project









Programme

- 14:30-16:00 Presentation of the participating projects and initiatives
- 16:00-16:30 Coffee break
- 16:30-18:00 Open discussion on the organisation of the CH Conference in 2018 and how to support it:
 - Presentation of the new REACH proposal to set up a social platform for the management, preservation, use and reuse of cultural heritage. If the proposal will be funded, it can represent an excellent opportunity to ensure the sustainability of the network of projects that has been established.
 - Possibility to set up a COST Action, whose deadline is in September of every year.
 - Plans to include the CH Conference in the Programme of the EU Presidency.









Projects and initiatives

- CHEAP GSHPS
- CIVIC EPISTEMOLOGIES
- COURAGE
- CULTURAL BASE
- ENDOW
- EUROPEANA SPACE
- IDEA ASSOCIATION
- ► INCEPTION
- INNOWEEE
- MEMOLA

- NANO-CATHEDRAL
- NANORESTART
- PHAIDRA
- PREFORMA
- PHOTOCONSORTIUM ASSOCIATION
- READ
- ROCK
- SCAN4RECO
- STORM









PREFORMA

Börje Justrell



PREservation FORMAts for culture information/e-archives

Networking Session Padua 6 March 2017 **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, <u>fresa@promoter.it</u>
 - Communication Coordinator: Claudio Prandoni, Promoter Srl, prandoni@promoter.it





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

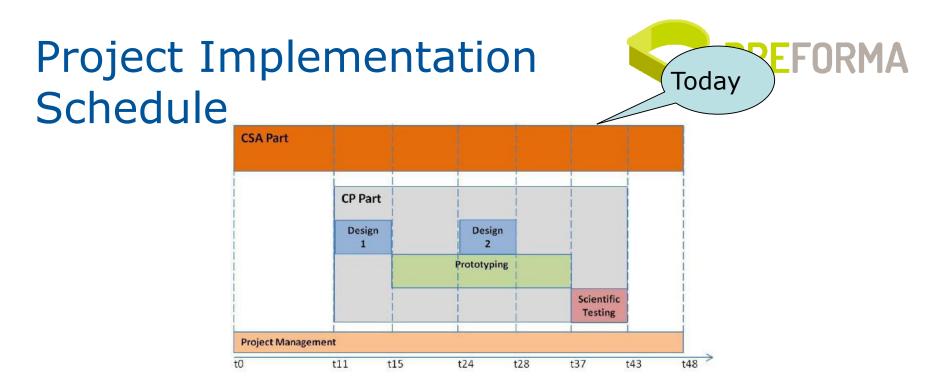






- The PREFORMA project seeks to establish a sustainable community that
 - ensures long-term availability of the soft ware
 - generates useful feedback for those who control it, and
 - advances improvement of the standard specifications.





Design phase (4 months): November 2014 – February 2015

Prototyping phase (22 months): March 2015 – December 2016

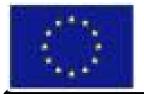
- First prototypes: March 2015 October 2015
- Re-design: November 2015 February 2016
- Second prototype: March 2016 January 2017

Testing phase (6 months): February 2017 – July 2017



CHEAP GSHPS INNOWEEE

Adriana Bernardi



CHeap and Efficient APplication of reliable Ground Source Heat exchangers and PumpS



Project number: 657982 Project duration: 4 years Total project budget: 5.804,847,50 € Project budget financed: 4.844.652,00 €

Coordinator: Adriana Bernardi National Research Council Institute of Atmospheric Sciences and Climate (CNR – ISAC)

a.bernardi@isac.cnr.it







AIM OF THE PROJECT

- To reduce the total cost of ownership
- To increase the safety of shallow geothermal systems during installation and operation
- To increase the awareness of this technology throughout Europe



Improving the drilling machines

 Developing tools for an holistic engineering approach



 Creating innovations of GSHE designs

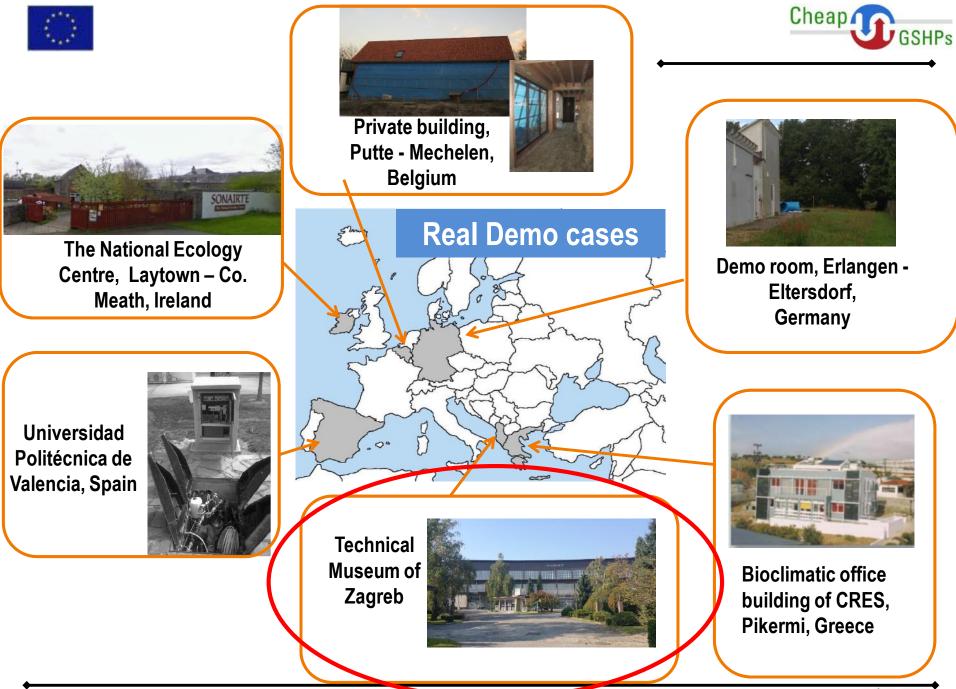




PROJECT STRATEGY

- **WP1 Geological mapping, climatic data and energy requirements**
- WP2 Helicoidal GSHE and drilling machine developments
- **WP3 Coaxial GSHE and installation machine development**
- WP4 Software and modelling tools for low enthalpy geothermal systems and heat pump developments
- **WP5 Decision support tool development**
- **WP6 Demonstration cases and scenario's**
- To demonstrate the developed technology <u>at 6 real sites, one of them a Historical building</u>
- To simulate the developed technology at 9 virtual sites, 5 of them Historical building and districts





Padova, 6th March 2017

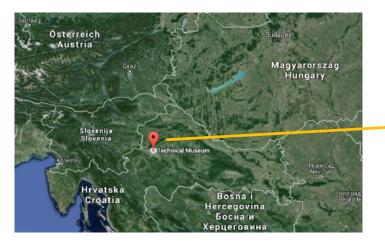
Adriana Bernardi







Technical Museum of Zagreb (real case)

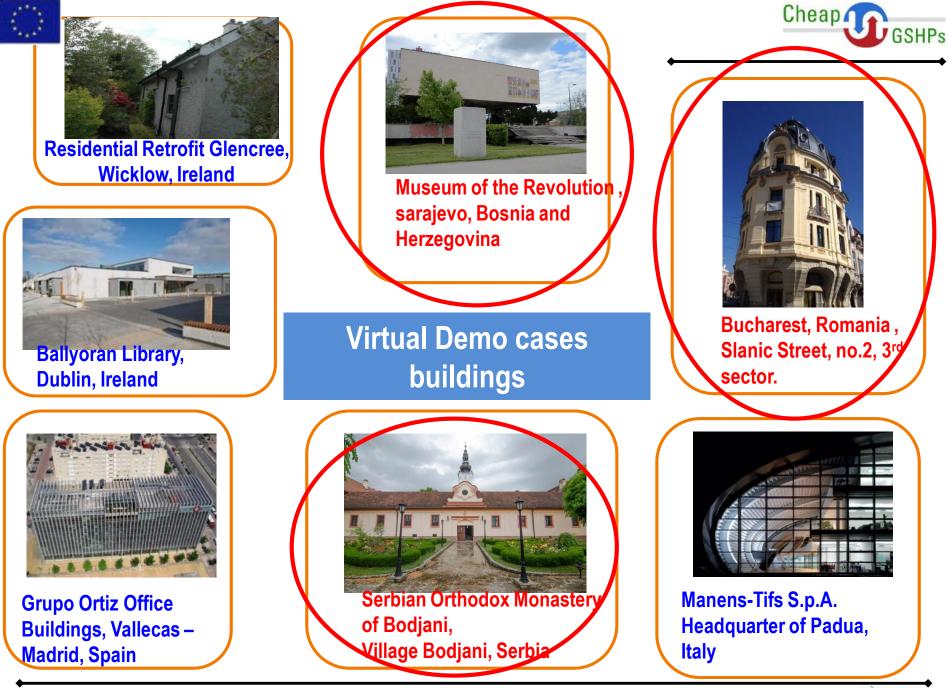




- Historic aircraft, cars, machinery and equipment
- It maintains the oldest preserved steam engine in the area, dating from the mid-19th century, which is still operational
- One of the most visited museum of Croatia

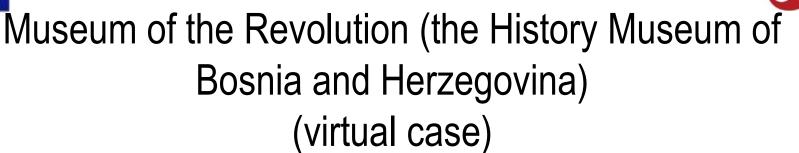
The implementation of CHEAP geothermal solution in the atelier and expo rooms will <u>also</u> display a <u>function of education and awareness</u> on the contribution of science and technology to sustainable energy.













- Location: Sarajevo (Bosnia-Herzegovina)
- 400.000 museum objects, documents, photographs, and art works for the entire history of Bosnia and Herzegovina.
- The museum is organised in 6 different components: Collection of Archive documents, Photographs, three - dimensional objects, works of art, Library and Documentation

Cheap







Serbian Orthodox Monastery of Bodjani located in village Bodjani in Serbia (virtual case)

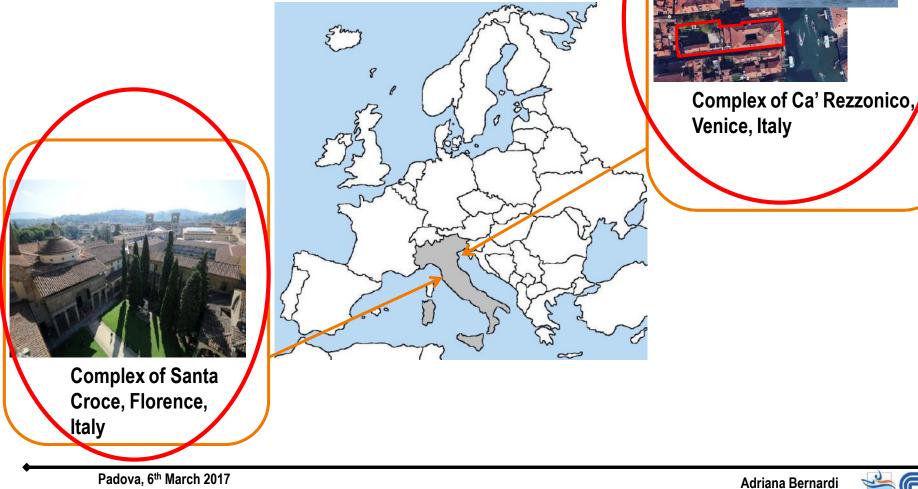


It is located in the borders of *Bač Cultural landscape*, situated on the left bank of the Danube river. The complex consists of a church, residential quarters and farm houses. The first monastery was built in 1478. The present monastery church, the fourth one to be built (1722) by Mihail Tamisvarlija





Virtual Demo cases as districts





Cheap

GSHPs





- WP7 Environmental Impact, Risk Assessment, Standards & Regulations
- **WP8 Exploitation and market deployment**
- **WP9 Training, education and dissemination**
 - ✤ <u>To develop</u>
 - \succ training, education and dissemination plan
 - training manual
 - ✤ Training program country
 - ✓ Spain,
 - ✓ Germany,
 - ✓ Romania,
 - ✓ Greece,
 - ✓ Belgium (2 events: one in the French side and another in the Flemish side),
 - ✓ Ireland,
 - ✓ Italy (2 events one focused on application to Historical Buildings).
 - ✤ To disseminate project's results







Many thanks

Adriana Bernardi – CNR-ISAC



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http://cheap-gshp.eu/



Innovative pre-fabricated components including different Waste construction materials reducing building Energy and minimising Environmental impacts



Project number: 723916 Project duration: 4 years Total project budget: 3.361.000,00 € Project budget financed: 3.361.000,00 €

Coordinator: Adriana Bernardi

National Research Council Institute of Atmospheric Sciences and Climate (CNR – ISAC)

a.bernardi@isac.cnr.it







CONSORTIUM

No.	PARTICIPANT ORGANISATION NAME	SHORT NAME	COUNTRY
1	Consiglio Nazionale delle Ricerche	CNR	IT
2	Proigmenes Erevnitikes & Diahiristikes Efarmoges	AMSSolution	GR
3	Research and Environmental Devices SRL	RED	IT
4	Fundacion Tecnalia Research & Innovation	TECNALIA	ES
5	Guidolin Giuseppe – ECO. G. SLR	ECO	IT
6	PIETRE Edil SRL	Pietre Edil	RO
7	Iznab Spolka Z Ograniczona Odpowiedzialnoscia	IZNAB	PL
8	Zavod Za Gradbenistvo Slovenije	ZAG	SLO
9	Magnetti Building SRL	MAGNETTI	RO
10	Dimos Varis – Voulas - Vouliagmenis	VOULA	GR









AIM OF THE PROJECT

To Develop an optimized reuse of Construction and Demolition Waste (CDW) materials producing high add value prefabricated insulating and radiating panels to be used in Energy Efficiency Building

- recovery, selection and disassembling of CDW
- Develop a new high performance prefabricated insulating geopolymeric panels and radiating panels
- Manufacture a material that is cost effective, competitive, robust, reliable and low maintenance and applicable also to the Historical Buildings
- Create pratical and sustainable building solutions easy to integrate into building designs also Historical
- Evaluate the new panels performance in the demo sites characterized by different climate conditions

Padova, 6th March 2017







PROJECT STRATEGY

WP1 – Identification of the waste typologies and their use in new construction material

WP2 – Development of the new materials including different construction waste and performance evaluation in laboratory

WP3 – Production definition and scale up of new panels

WP4 - Selection of the best technically solutions, energy performance and project design also for the Historical buildings

WP5 – Demonstration and validation in field, performance evaluation and scenarios

- To install the selected solutions in the real <u>4 buildings: a pilot demo case, one new, one existing and one Historical buildings</u>
- To virtually apply the solutions in other <u>4 buildings</u>, <u>2 of them historical ones</u>

WP6 – Business models, market introduction plan and future impact

WP7 – Dissemination, exploitation and communication activities











Residential Eco-house, Putte-Mechelen, Belgium



Don Orione Residential Care Center, Voluntari (Bucharest), Romania











Private house, Piazzola sul Brenta (Padua), Italy

Virtual demo cases





Historical Buildings



Historical Residential Building, Bucharest, Romania House in the settlement of Parikia in Paros, Greece



Two blocks in Txurdinaga neighborhood, Bilbao







Adriana Bernardi – CNR-ISAC



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https://www.innowee.eu

CIVIC EPISTEMOLOGIES

Mauro Fazio

Anna Caterina Carli



CIVIC EPISTEMOLOGIES: development of a Roadmap for Citizen Researchers in the age of Digital Culture

Mauro Fazio

Project Coordinator

Ministero dello Sviluppo Economico (Italy)



Padua, 6 March 2017



Media Partner

www.digitalmeetsculture.net



CITIZEN SCIENCE IN THE AGE OF DIGITAL CULTURE

- Coordination action funded by the EC under FP7-INFRASTRUCTURE-2013-2
- Duration: 16 months (1 August 2014 30 November 2015)
- 12 partners from 11 European countries:
 - Public administrations, universities, research centres, SMEs
- Website: <u>www.civic-epistemologies.eu</u>
- Facebook: <u>www.facebook.com/civic.epistemologies</u>
- Twitter: @citizen_CH
- MAIN OUTCOMES ACHIEVED:
 - Roadmap for Citizen Science
 - Registry of Resources
 - Learning Resources
 - Network of Common Interest, sharing the principles of the Berlin Charter, and which continues to be linked through the Blog

www.digitalmeetsculture.net/civic-epistemologies



COURAGE

Sándor Horváth



Research in 15 countries – about 60 researchers



http://cultural-opposition.eu/



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.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 692919. Horizon 2020 is the research and innovation programme of the European Union, which aims to secure Europe's leading role inproducing world-class science. By combining research, industry and social impact, Horizon 2020 seeks ways to successfully meet societal challenges in Europe and beyond.

image credits

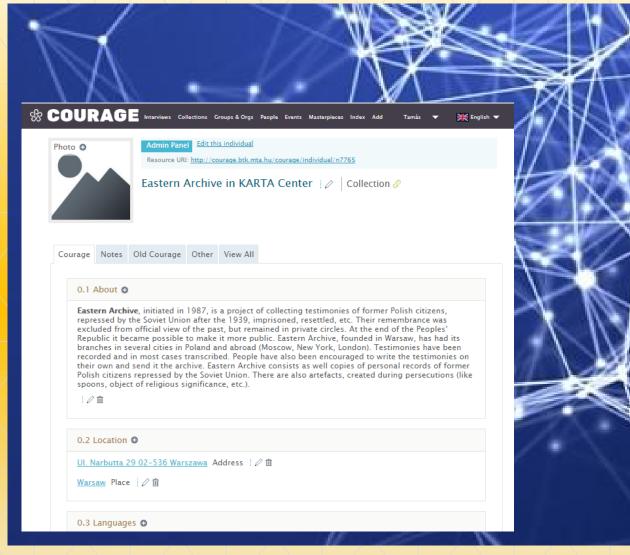
COURAGE will show that people under authoritarian regimes frequently created cultural products that they themselves treated as a **civil practice of dissent**.

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.



http://cultural-opposition.eu/ ---- COURAGE registry - February 18, 2017

😪 COURAGE Interviews Collections Groups & Orgs Persons Events Masterpieces Latest Stats index Add Sándor 👻 💥 English 👻

What is VITRO?

Vitro is a general-purpose web-based ontology and instance editor with customizable public browsing. Vitro is a Java web application that runs in a Tomcat servlet container.

With Vitro, you can:

Search VITRO

Search





Registry – in 13 languages



http://cultural-opposition.eu/

COURAGE Interviews Collections Groups & Orgs Persons Events Masterpieces Latest Stats index Add

Annotations

Link (5) Note (25) Source (19)

Collection

Collection (141)

Courage other

Access type (4) Audience (13) Catalogue type (5) Collection status (1) Content of collection (460) Content type (19) Educational background (7) **Employee statistics (91)** Format (27) Former Country (5) Form of networking (6) Gender (3) Geographic scope (4) Illustration (98) Language (24)

Document

Academic publication (19) Catalogue (17) Document (48)

Event

Acquisition (43) Change in legal framework (22) Destruction (2) Donation (21) Event (general) (233) Exhibition (43) Loss (2) Publication (38) Structural change (14)

Group

Group (38) Network (37) Organisation (163)

Interview Interview (118)

Location

Role

Collector role (226) Creator of content role (231) Founder role (213) Operator role (169) Owner role (298) Stakeholder role (113) Supporter role (147)

Sándor

💥 English 🔻

PUBLIC REGISTRY – February 18, 2017 - http://cultural-opposition.eu/

COLLECTIONS GROUPS&ORGS PEOPLE EVENTS FEATURED ITEMS INDEX YOUR COLLECTIONS

sort by:

Date of funding Name Acronym

search courage:

GO

filter by: GO

Topic Content type Country Geographic scope Does this collection have online content available? Language Collection created in emigration Date of founding GO

15 collections found



ARTPOOL ART RESEARCH CENTER

Artpool with its art archive and library – beside being dedicated to contemporary international avant-garde media arts – is a documentation

center and place of research concerning the progressive, non-official Hungarian art tendencies from the 1970s, and the Hungarian samizdat art of the 1970s and 1980s (including alternative art scenes and groups, contemporary music, underground art magazines, etc.).

Location: 1061 Budapest Liszt Ferenc tér 10 , Magyarország Web link: <u>http://artpool.hu/</u>

Topics: samizdat and tamizdat avant-garde, neo-avant-garde Underground culture (general) Visual Arts

Date of founding: 1979

Important events in the history of the collection: Publication of AL Publication of Törvénytelen avantgård. Galántai György balatonboglári kápolnaműterme 1970-1973. Interarchiv Self-Assembling Afternoons Poolwindow Underground Art During the Aczél Era Hidden Story. Samizdat from Hungary & Elsewhere Klipzensored. Rock music in Film, Television, Music clips, Media censorship in Hungary, GDR and post-1990 Germany In the Spirit of Marcel Duchamp Establishment of the Artpool Art Research Center Interrupted Histories Publication of ARTPOOL -The Experimental Art Archive of East-Central Europe Opening of Artpool P60 ehibition space Artpool Flux Hommage à Vera Mukhina Reconstructing a Banned Exhibition "Hungary Can Be Yours!" Samizdat. Alternative Culture in Central and Eastern Europe from the 1960s to the 1980s Integration into the Museum of Fine Arts artpool hu, website



The Bogdan Radica Collection is a personal archival fund which Radica founded in the late 1940s. His daughter Bosiljka Raditsa and Professor Ivo Banac delivered the entire collection to the Croatian State Archives (CSA) on three occasions in 1996, 2001 and 2006. It contains vital records related to the history of Croatian political emigration and constitutes an integral part of the cultural opposition to the Yugoslav communist regime.

Location

10000 Zagrob Trg Marka Marulića 21 , Croatia Hide map ²⁵ Trg Marka Marulića 21 ²⁶ Nagyobb térkép megtekintése *UI. Izidora Kršitjavog UI. Izidora Kršitjavog UI. Izidora Kršitjavog*



The Rockmuseum is established in 2014 as a grassroots initative of former musicians, experts and collectors. Collecting heterogenous materials of the Hungarian rock's and popular music's scene (with international focus) Rockmuseum is the first public institution in Hungary which is displaying its artifacts and rememberance from the late 1950s till the present. Generally, the phenomenon of rock music under state socialism is considered as a form of cultural resistance.

Location

1133 Budapest Kárpát utca 23 , Hungary Hide map

Kárpát u. 23 Nagyobb térkép megtekintése Dózsa G Kárpát utca 23

PUBLIC COURAGE REGISTRY – February 18, 2017 - http://culturalopposition.eu/

Contact - Sándor Horváth (Budapest) horvath.sandor@btk.mta.hu or Courage.dissemination@btk.mta.hu

Cultural Base

Susana Pallarés Espinosa



Cultural Base

Social Platform on Cultural Heritage and European Identities

Overview of the project

Berlin, November 22th 2016

Arturo Rodríguez Morató / University of Barcelona rodríguez.morato@ub.edu

© 2016 CulturalBase



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



- ✓ CulturalBase aims at addressing the topic of cultural heritage from a double point of view, and analytical as well as a public policy perspective
- ✓ CulturalBase intends to make a decisive contribution by defining the most important challenges and opportunities in the field of cultural heritage
- ✓ The work of CulturalBase has been conducted along three main axes:
 - ✓ Cultural memory
 - ✓ Cultural inclusion
 - ✓ Cultural creativity



Academics and stakeholders interaction





CulturalBase works on the achievment of its objectives through a **process of investigation** promoted by the consortium partners and a **process of dialogue and debate with stakeholders**.

- ✓ Make a state of the art review of the research literatures and policy programmes.
- ✓ Produce general overviews on the research priorities and opportunities.
- Develop a shared view within the social platform.
- ✓ Produce strategic research agendas and general policy guidelines in relation with cultural heritage and european identities.



Outputs by Axis

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

Memory Agenda

- 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 Agenda

- 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 Agenda

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



Dissemination of results



DIGITAL COMMUNICATION STRATEGY

- ✓ Web and digital archive.
- ✓ News alerts.
- ✓ Social media: Facebook and Twitter.
- ✓ Online platform.

NETWORKING EVENTS

- ✓ Workshops.
- ✓ Stakeholder Conference.
- ✓ Policy Seminar.

PUBLICATIONS

- ✓ Vision documents.
- ✓ Book.
- ✓ Policy Briefs.



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.

ENDOW

Aura Bertoni

Red Indow

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

Aura Bertoni

ASK (Art, Science, Knowledge) Research Centre, Bocconi University (Milan, Italy) Preforma Project Networking Session, Dep't of Information Engineering Padua, March 2017

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

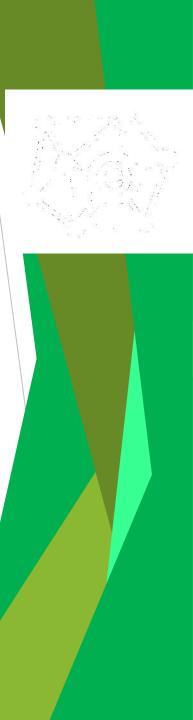
ASK Art, Science and Knowledge CREATE



Objective

The main goals of EnDOW are...

- to facilitate the process of right clearance for European cultural institutions engaged in digitization of material contained in their collections.
- to design, implement and test an online platform to carry out diligent searches according to the requirements of Directive 2012/28/EU and its national implementations.
- to crowdsource the diligent searches through the platform.
- to streamline the registration of orphan works.



Clearing copyright – estimated costs

ltem	Min	Max	unit
Books ¹	€75	€190	Per item
TV & Radio Broadcasts ²	3.25 hours	6.5hours	Per hour of broadcast
Photos ³	3.5hours		Per item
Newspapers ⁴	3.5 hours	4 hours	Per item
Miscellaneus material ⁵	1.0 hour	3.5 hours	Per item

1. US Orphan works report 2006, based on independent submissions

2. UK IPO estimates on the basis of submissions of the BBC and The Federation of Commercial Audio Visual Libraries, FOCAL (Orphan Works Impact Assessment, 2012)

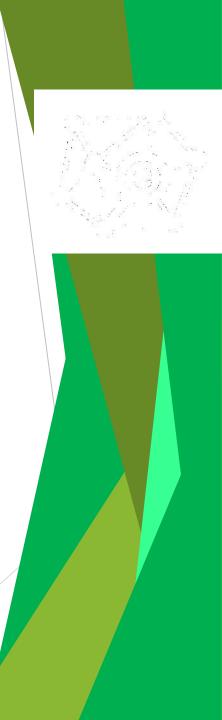
3. UK IPO estimates on the basis of submissions of Welcome Library and War Museum

4. UK IPO estimates based on BBC and British Library submissions



Crowdsourcing diligent search





For further info...

please visit us at our website:

www.diligentsearch.eu

THANK YOU!



Welcome

Diligent Search is an online resource designed to assist European cultural institutions engaged in digitisation of their collections. The design of the resource is currently in progress, as part of a project funded by the Joint **Progamme Initiative on Cultural Heritage** (see details in the box on the right and in the About page).

Once operative, Diligent Search will provide cultural institutions with a resource to carry out diligent searches of rightholders and to "crowdsource" certain phases of this process, so that they can legally digitise their collections.







EUROPEANA SPACE

Sarah Whatley

europeana think culture

Europeana Space

Spaces of possibility for the creative re-use of Europeana's content Best Practice Network Sarah Whatley – Co-ordinator *Outcomes and next steps*



E SPACE

Co-Funded by the European Union





empetitiveness and innovation amework programme anz_holia





- Pilot projects to develop tools for reusing digital cultural content (museums, dance, photography, interactive TV, Open publishing, games) and 5 educational demonstrators.
- Development of resources.
- Incubated projects testing new ideas for reusing and reimagining digital cultural content.
- Building educational resources (MOOC).
- Pop-up museum synergies between pilot disciplines.
- E-Space portal open for building collections and sharing content 'Where culture meets creativity'

Outcomes

 Tools, resources and prototype ideas demonstrating the value of remixing, reimagining, reusing digital cultural content – for increasing access to cultural content, to stimulate economic growth and to promote the role that creative and cultural industries play in cultural health of the European community.

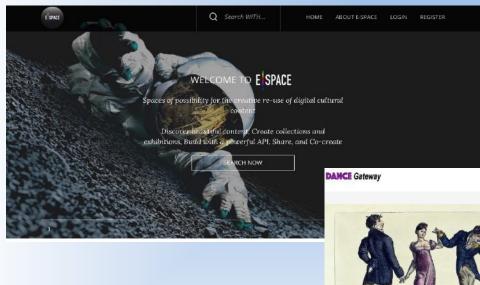


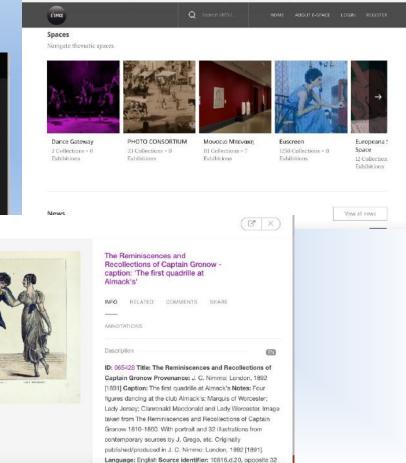


 Resources for helping to make rights issues more accessible for creators, owners and users of content. Educational tools that promote the values of CH for tomorrow's CH professional and creative communities



 The E-Space portal: a platform that will be openly available for others to use and that will ensure that the outcomes of the project are available into the future.





The Pop-up Museum







A hybrid physical and digital exhibition that remixes pilot activities using multiscreen technology and audience interaction

The Europeana Space community ... still growing

- www.europeana-space.eu
- http://espaceportal.eu/
- www.digitalmeetsculture.net/projects/euro
 peana-space/
 Twitter: #Europeanaspace





IDEA ASSOCIATION

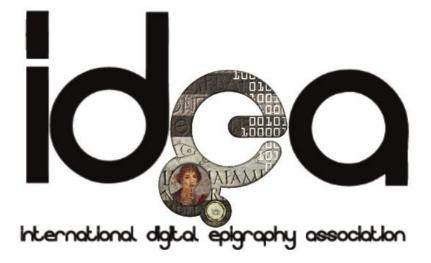
Silvia Orlandi



IDEA promotes the use of advanced methodologies in the research, study, enhancement, and publication of "written monuments," beginning with those of antiquity, in order to increase knowledge of them at multiple levels of expertise, from that of specialists to that of the occasional tourist.

The organisation is open to individuals, institutions, public and private organisations, societies and other associations.

http://idea-association.eu/







SEARCH INSCRIPTIONS

LOG IN

Username

Pietro.liuzzo

Password

.....

Log In

Remember Me

Register 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

Text of the inscription

Object type Ancient findspot

Type of inscription

Bibliography

Only with image

Not Before - Year

Not After - Year

Modern findspot

Detailed findspot

Location

Decoration

Type of writing

State of preservation

Material

Search

Only with translation

ARCHIVES **Bookmark This Page** Facet & Fields Language

BASIC SEARCH

IMAGE SEARCH

ADVANCED SEARCH

LOG IN

Username Pietro liuzzo

Password

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C Remember Me

Greek keyboard

Hebrew keyboard

Register Lost Password

Enable virtual Keyboard

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 \$

Filter by Facet

DECORATION -MATERIAL -OBJECT TYPE * STATE OF PRESERVATION = TYPE OF INSCRIPTION -WRITING * ANCIENTFINDSPOT * MODERNFINDSPOT -HASIMAGE -HASTRANSLATION -CONTENT PROVIDER -

Apply filter Uncheck all Make a new Search

Include substrings (search augustus

Object to

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]u^rg¹u[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



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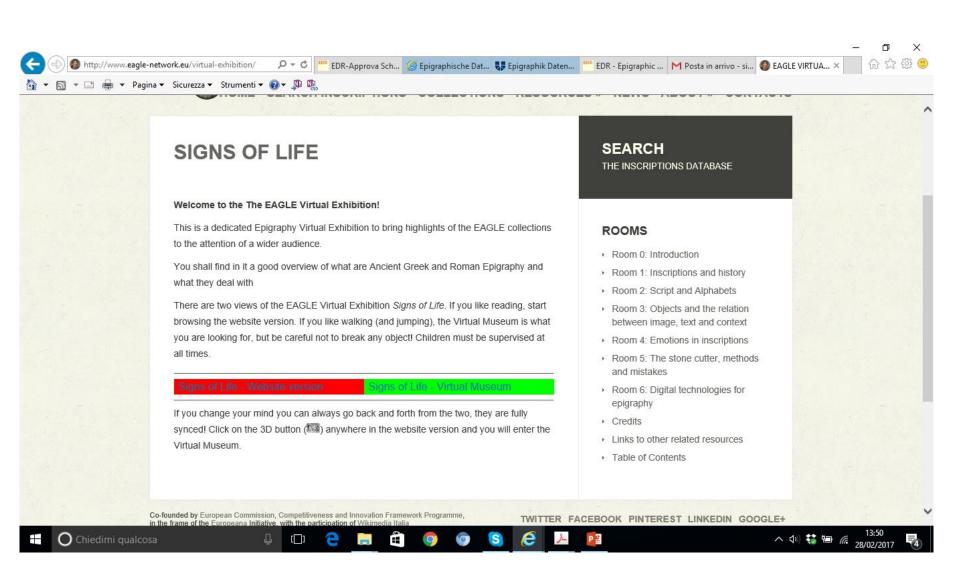


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Date: not available









HOME » TRANSLATIONS

TRANSLATIONS

=> GO TO THE EAGLE MEDIA WIKI <=

EAGLE aims to build a multi-lingual online collection of millions of digitised items from European museums, libraries, archives and multi-media collections, which deal with inscriptions from the Greek and Roman World. The aim of the network is to make available the vast majority of the surviving inscriptions of the Greco-Roman world, complete with the essential information about them and with a series of peer-reviewed translations in several European languages. These are notoriously unavailable for inscriptions, as photos.

EAGLE Mediawiki is designed to give a tool to anyone interested in bridging this gap and contributing translations of inscriptions, either by providing groups of translations or providing new ones. Mediawiki is the software installed on the EAGLE website, and it uses the additional extension Wikibase to produce seamlessly for users, machine readable data.

[]]

SEARCH THE INSCRIPTIONS DATABASE

RESOURCES

- Inscriptions Search Engine
- Storytelling Platform
- Mobile Application
- Vocabularies
- Translations
- Bibliography

PE

Virtual Exhibition

Students of the Liceo Socrate during a visit to the epigraphic collection of San Silvestro in Capite in Rome



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	Digital Humanities Awards	
	Highlighting Resources in Digital Humanities	
	ABOUT DH AWARDS 2012 DH AWARDS 2013 DH AWARDS 2014 DH AWARDS 2015 DH AWARDS 2016 TWITTER CONTACT	
	DH Awards 2016 Voting	
	Please vote for the following resources from 2016 in the DH Awards 2016. Have a look over the resources in each category and then fill out the form linked to at the bottom of the page in order to vote. For frequently asked questions please see	

Luck needs care...



Gluck braucht Pflege

Thousends of new inscriptions are discovered and published every year...



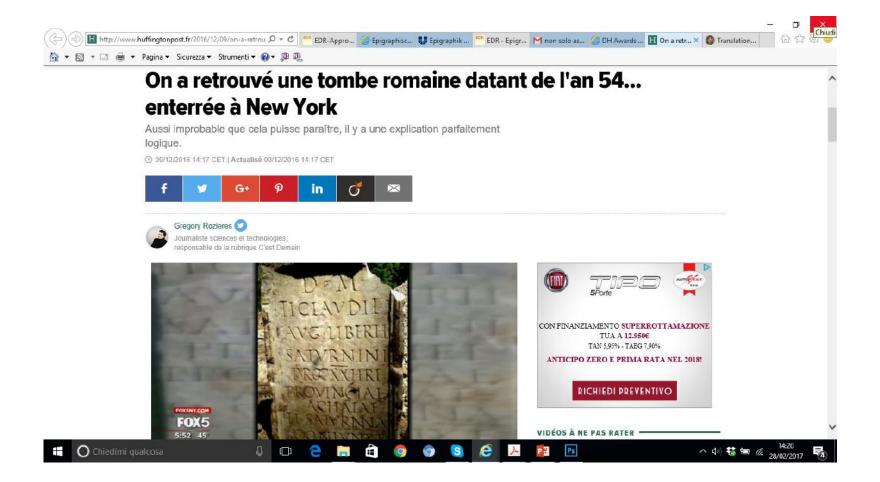
2011

L'ANNÉE Épigraphique





... but not always they are «new» inscriptions



Evento organizzato dall'Associazione IDEA (International Digital Epigraphy Association)

EAGLE e IDEA: il futuro dell'epigrafia digitale

L'associazione IDEA

IDEA sun'associazione senza scopo di lucro nata dal progetto Europee EAGLE (Europeana netvorek of Ancient Greek and Latin Epigraphy). Obiettivo di EAGLE (www.cagle-network.cu) è quallo di naccogliere e catalogare in u nuico database, catimente increable, obte un milione e mezco di immogini e altri oggetti digilati relativi a centinaia di miglaia di locazioni provenienti dal mondo greco-romano, correctate da informazioni esenziati e, in molti casi, dalla taduzione in inglese o in attre lingue moderne.

L'associazione IDEA ha per scopo la promozione dell'uso di metodologie e tecnologie avanzate nella ricerca, studio, valorizzazione, divulgazione dei "monumenti scritti" a partire dall'età antica, al fine dell'ampliamento della loro conoscenza a più livelli di competenza, da quello degli specialisti a quello del turista occasionale.

L'associazione è aperta sia a persone fisiche, sia a enti e organismi pubblici e privati, società e altre associazioni. Per iscriversi visitare la pagina

11:00 - 13:30 Assemblea Generale, riservata ai soci dell'Associazione

15:30 - 15:45 Antonella Fresa, Promoter Srl - Information Technology, Research and Innovation Introduzione

15:45 - 16:00 Silvia Orlandi, La Sapienza Università di Roma Dal progetto EAGLE all'associazione IDEA

16:00 – 16:15 Franco Zoppi, CNR-ISTI Sostenibilità ed evoluzione della infrastruttura tecnica EAGLE

16:15 - 16:30 Giuseppe Amato, CNR-ISTI Nuove prospettive offerte dal materiale reso disponibile da EAGLE

16:30–17:00 Silvia Evangelisti, Università di Foggia; Anita Rocco, Università di Bari Aggiornamento, completamento, miglioramento e approfondimento del materiale epigrafico: problemi e prospettive

17:00 – 17:15 Saverio Malatesta, La Sapienza Università di Roma

Wikimedia e il progetto di alternanza scuola-lavoro

17:15 - 17:30 Alessandra Giovenco, British School at Rome Esperienze didattiche con EAGLE

Pisa, 28 Settembre 2016

Museo della Grafica, Palazzo Lanfranchi Lungarno Galilei 9







UNIVERSITÀ DI PIS/

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IDEA was presented in Pisa, in September 2016, and is currently gathering more and more membres, both individuals and institutions.

EAGLE

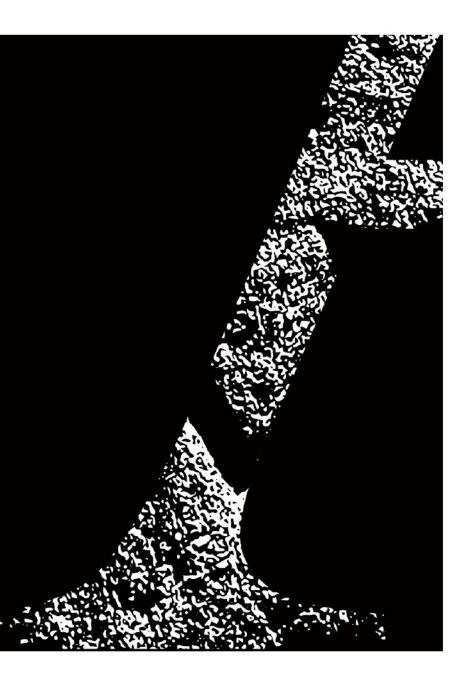
Thank you!

Silvia Orlandi Sapienza University of Rome

IDEA Scientific Supervisor

http://idea-association.eu

silvia.orlandi@uniroma1.it



INCEPTION

Federica Maietti

Fourth Networking Session for EC-funded projects on Cultural Heritage Padua, 6th March 2017

inception

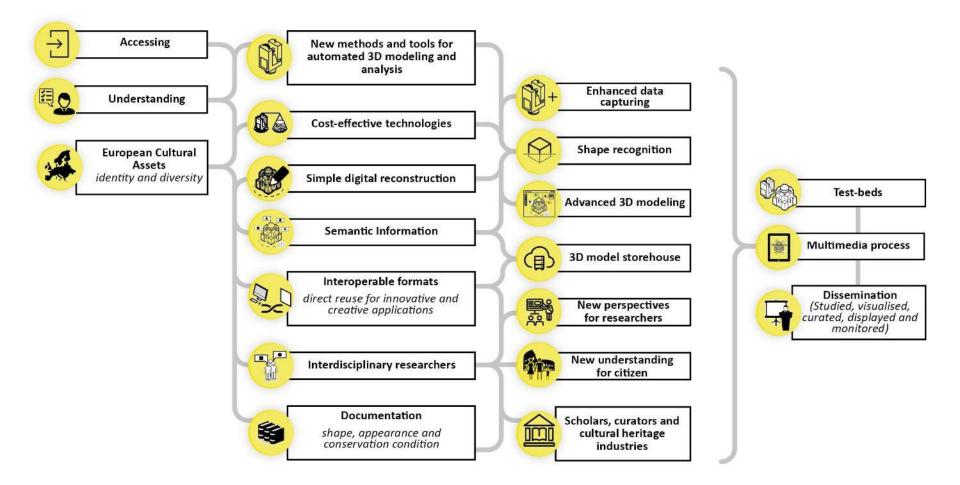
INCEPTION *Inclusive Cultural Heritage in Europe through 3D semantic modelling*

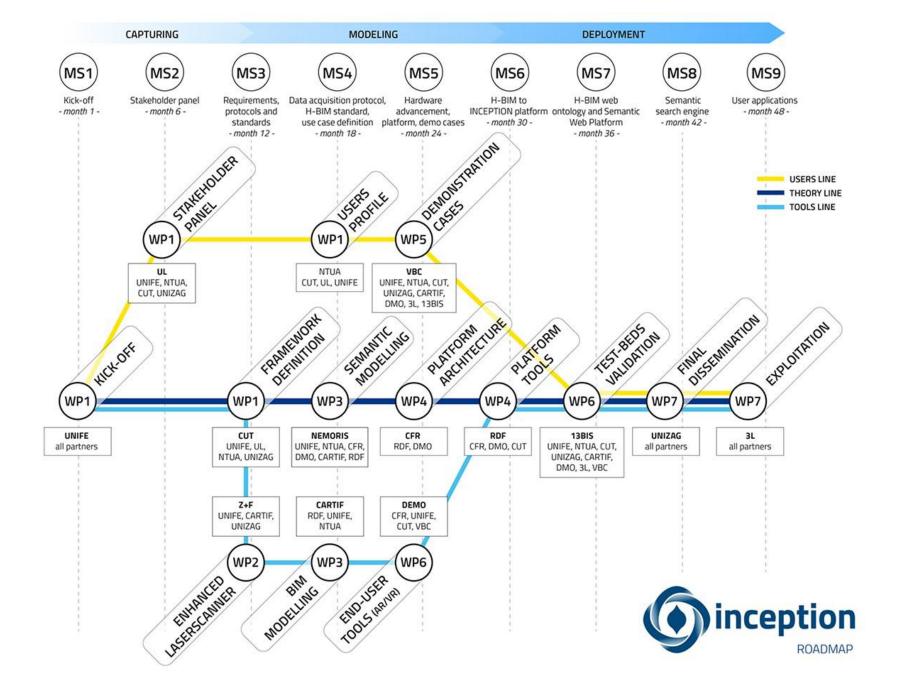
Federica Maietti | Department of Architecture, University of Ferrara



CHALLENGES

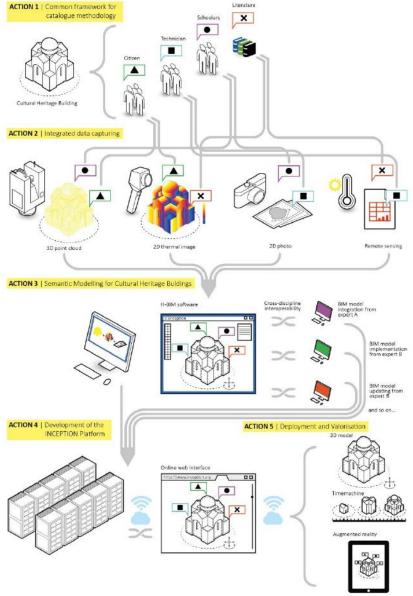








CONCEPT, METHODOLOGY AND TRANS-DISCIPLINARY APPROACH



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;

inception

- 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

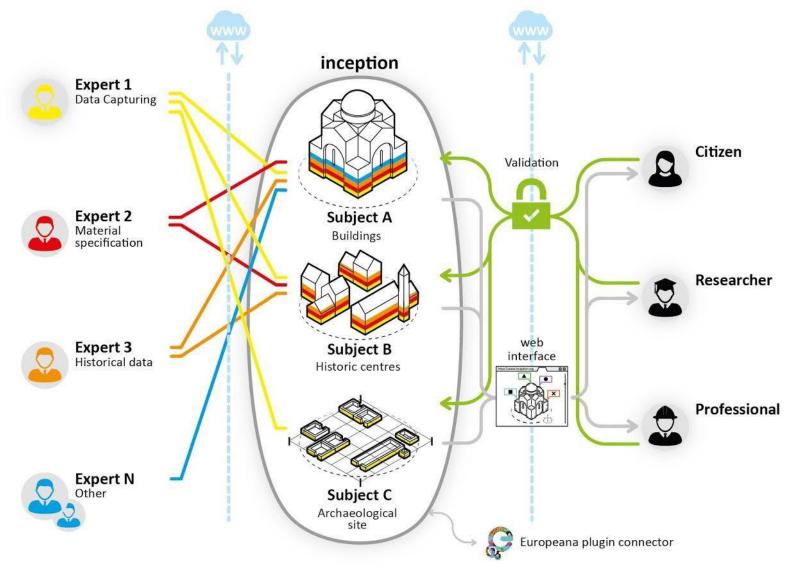
User-oriented tools and applications

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

Requirements standards and protocols



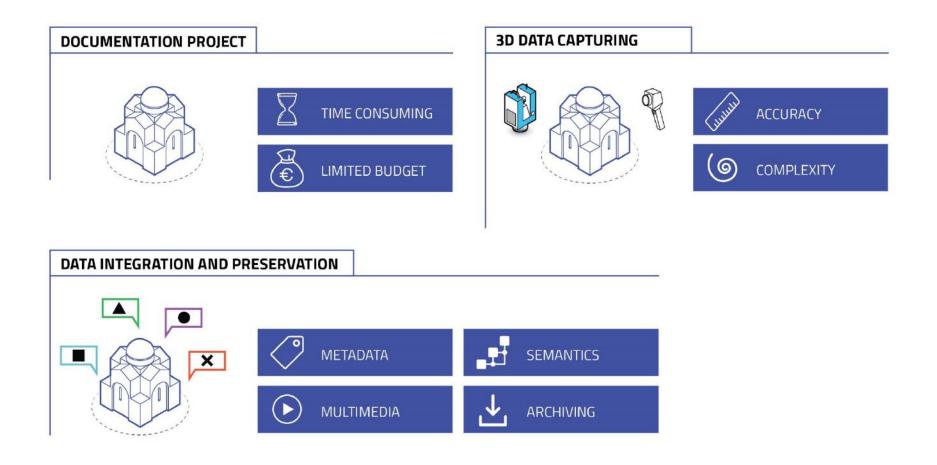
Mapping knowledge demands | Users' and Stakeholders' key requirements Measurable common parameters for European cultural assets



Requirements standards and protocols



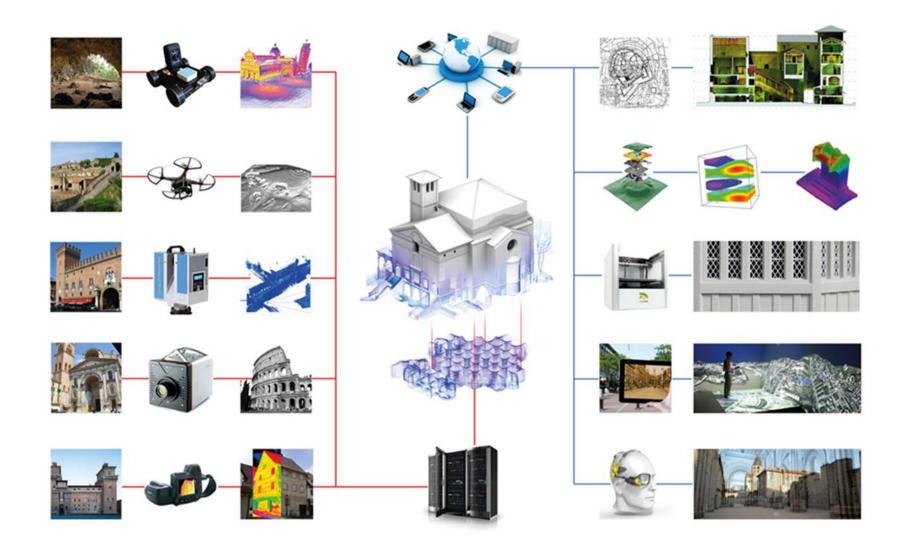
Mapping knowledge demands | Users' and Stakeholders' key requirements Measurable common parameters for European cultural assets



INCEPTION Platform

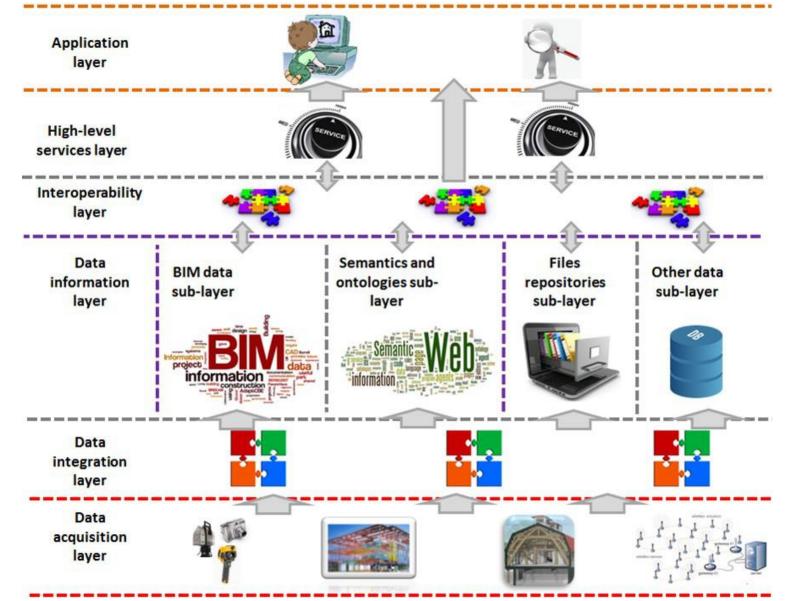


BIM-based platform, semantic web ontology and inclusive web interface



INCEPTION global architecture





INCEPTION applications





INCEPTION applications







Federica Maietti federica.maietti@unife.it

www.inception-project.eu



COLOPHO

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Author: Federica Maietti (UNIFE)



MEMOLA

Josè Maria Martin Civantos Alessandra Chavarria Arnau Gian Pietro Brogiolo

MEditerranean MOuntainous LAndscapes

an historical approach to cultural heritage based on traditional agrosystems

José María Martín Civantos Project Coordinator









The implementation of **MEMOLA** project is framed under the analysis of Cultural Landscapes from late antiquity to modern times, evaluating the relationship between human societies and natural resources. The project aims to analyse, from an interdisciplinary perspective, the management of water and soil. The **MEMOLA** project counts with a total of ten partners and its central coordination is based at the University of Granada, Spain







Our objectives

Research

of the process of historical landscapes formation in connection to natural resources utilization, in particular soil and water.

Apply

multidisciplinary approach with a wide range of specialists involved in cultural heritage studies, promoting skillshybridization.

Design

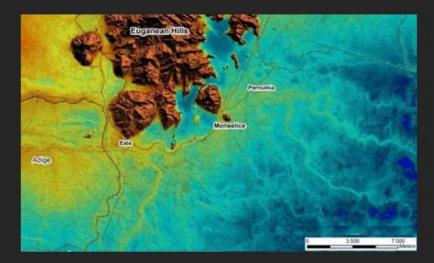
context-tailored strategies of preservation, diffusion and valorisation of the cultural heritage and of the environment.

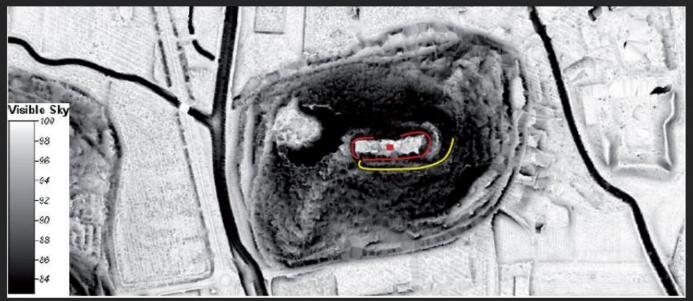
Stimulate

sustainable development strategies in rural areas by analysing the agrosystemic contexts and their current struggle for survival.



REMOTE SENSING: LIDAR-RADAR





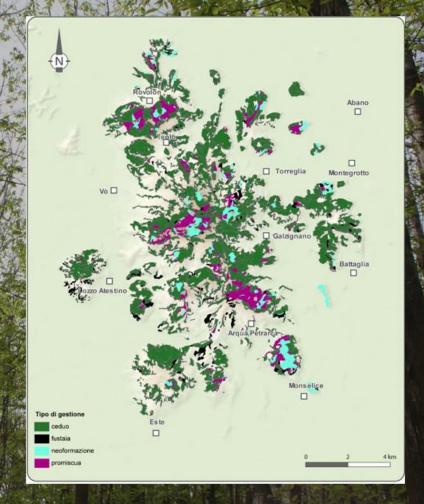


TO THE WOOD

overlapping perspectives on the history of ancient forests

INTERNATIONAL CONFERENCE

Padova (Italy) 18-20 April 2017





ESTE, L'ADIGE E I COLLI EUGANEI STORIE DI PAESAGG

Publications

DETECTING AND UNDERSTANDING HISTORIC LANDSCAPES

> ALEXANDRA CHAVARRIA ARNAU ANDREW REYNOLDS

> > FOTORS



MONSELICE. ARCHEOLOGIA E ARCHTETTURE DI UNA CITTÀ MEDIEVALE

GETTI DI ARCHEOLOGIA





Participative research



ITIS Euganeo Monselice Kennedy Padova Belzoni, Scalcerle

ATTIVITà DIDATTICHE



NANO-CATHEDRAL

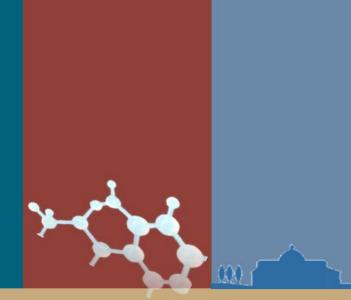
Maria-Beatrice Coltelli





Meeting

Padova(Italy) Date March 6, 2017

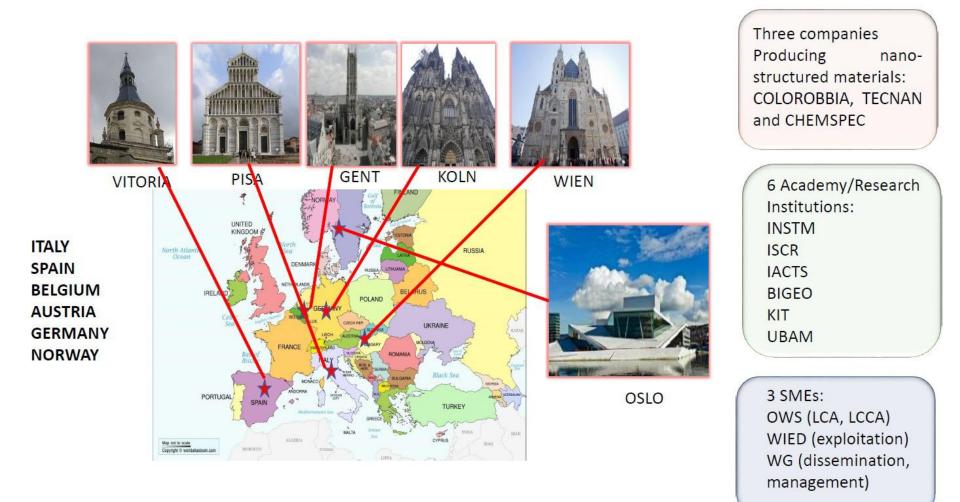


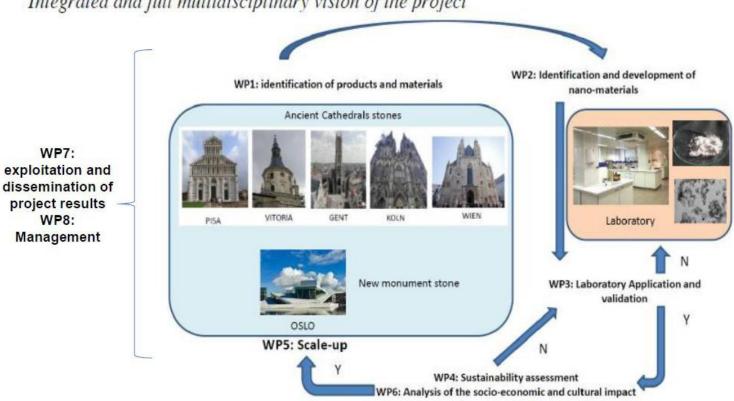
General introduction about Project (INSTM-coordinator staff- M.B. Coltelli) AIM OF THE PROJECT: developing, on an European scale, new nano-materials, technologies and procedures for the conservation of deteriorated stones in monumental buildings and cathedrals and high value contemporary architecture, with a

particular emphasis on the preservation of the originality of materials and on the development of a **tailor-made** approach to tackle the specific problems related to the different lithotypes

Aggregation of stone monuments representatives of :

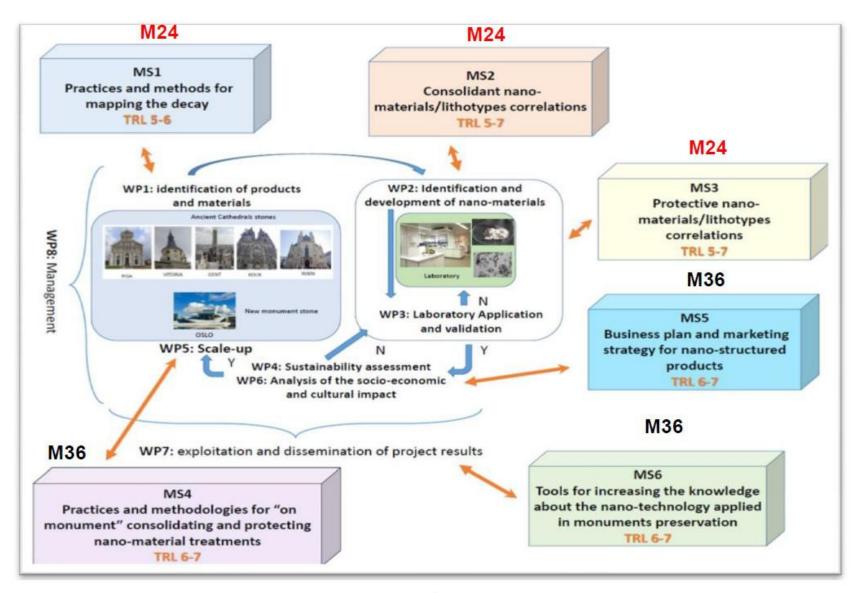
- different European climatic regions
- different styles and lithotypes





Integrated and full multidisciplinary vision of the project

Scheme 3: scheme illustrating the three levels (monument, laboratory and elaboration scale) on which the NANO-CATHEDRAL project will be developed, with monuments being the starting and final point.



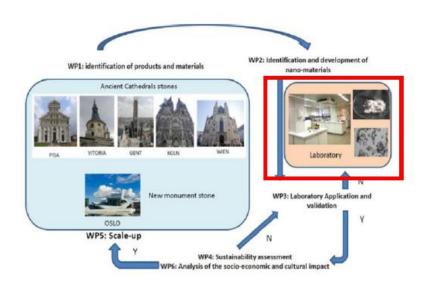
WP1: state of the art and selection of lithotypes

SELECTED LITHOTYPES (D1.3- OPAE)

Table 1: Overview of the selected lithotypes, belonging to the full program (in red) or to the reduced program (in black)

Place	Sample	Short description	Comments to explain major selection criteria
Lithotype			
Cologne			
Obernkirchen	ко	Fine siliceous sandstone with kaolinite	Both lithotypes are considered of equal importance by the Cathedral
Schlaitdorf	KS	Coarse siliceous sandstone with kaolinite and dolomite	partners. They have different weathering behavior. Both have been we studied in the existing literature
Tercé	КТ	Limestone	Recent substitute material, primarily in need of protection rather than consolidation
Ghent			
Balegem	GB	Limestone with much detrital quartz	Frequently employed historic stone, more prone to weathering than Gobertange
Gobertange	GG	Limestone with detrital quartz, layered texture	Frequently employed historic stone, less prone to weathering than Balegem
Oslo			
Carrara marble	OC	Non-foliated metamorphic rock composed of recrystallized calcite	Important stone of international level. In case of Oslo, no pronounced decay because of young age of the building
Pisa		91.1 TEV	
Apuan marble	PA	Non-foliated metamorphic rock composed of recrystallized calcite	Litotype of importance for the Cathedral, various problems of decay
Mt. Pisano marble	PM	Non-foliated metamorphic rock composed of recrystallized calcite and dolomite	Frequently employed historic stone, less prone to weathering than Apuan marble. Stone characteristics are described in the literature
Vienna			
St. Margarethen	WM	Calcareous fossil arenite	Important for the Cathedral, various problems of decay; main material for current repair and restoration.
Au	WA	Calcareous fossil arenite	Less frequent than St. Margarethen, available with some difficulties
Bihac	WB	Limestone	Secondary substitute material for current repair and restoration
Vitoria			
Elguea	VE	Quartz arenite	Important for the Cathedral, various problems of decay
Ajarte	VA	Fossil limestone	Important for the Cathedral, rel. less problems of decay than Elguea

Main Results



WP2: Identification and development of nano-materials

Treatments prepared:

About 30 Consolidants, 5 released for further testing.

About 20 Protectives, 14 released for further testing

The number of products until M18, developed by WP2 partners is about 50

The work will continue till month 24th

<complex-block>

WP3: Laboratory application and validation

CONSOLIDANTS:

- Performing of <u>pre-tests</u> onto 15 products with the selection of 4 products for experimentation on 6 lithotypes:
 - NPs in water

• NPs combined with sol gel silicates Experimentations on 6 lithotypes ongoing

PROTECTIVE TREATMENTS:

- Performing of tests onto 17 products onto 6 lithotypes.
- Photocatalytic
- Anti-fouling
- Hydrophobic

At month 24 the correlation between consolidants and protectives with lithotypes will be completed 8

Main Results

Some experiments on-site were performed and presented in the Rome meeting of October 4-5th 2016

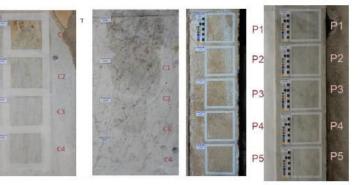
(T)



Ghent



Vienna



Pisa

Main Results



Cologne



Vitoria

Although the experimentations were not systematic and fully completed, up to now there are not significant disagreements with the ongoing tests in the laboratories

NANORESTART

Patrizia Zitelli

NANORESTART



HORIZON 2020

NANOmaterials for the RESToration of works of ART

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.



Nano Rest

Coordinated by



26 partners from 14 countries over the word





HORIZON 2020

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



HORIZON 2020

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

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 gel loaded with enzymes for the cleaning of sensitive surfaces	Jan. 2017
Hard-matter scaffolds for the cleaning of sensitive surfaces	May 2017
Preparation, deposition, characterization of multifunctional active protective layers for metals and plastics	May 2017
Preparation, deposition, characterization 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, characterization 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

NANORESTART



HORIZON 2020

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®*





Nano Rest

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

* registered by CSGI under the NANORESTART project





HORIZON 2020

We already tested some of the new materials and methodologies coming from the Nanorestart 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



<u>ECHOES – Enabling Cultural Heritage Oriented European Strategy</u> – 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 and institutions interested to the cluster mission.





The main goals are:



- To support the scientific community to create a network with different expertise in CH conservation.
- To collect industrial and academic players on the development of materials for the CH conservation.
- 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 support EC policy development in the field of tourism and industry related with CH conservation and valorization.
- 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.



Preliminary members











COORDINATOR:

Piero Baglioni – CSGI Director baglioni@csgi.unifi.it





CONTACTS:

Isella Vicini – Warrant Group isella.vicini@warrantgroup.it



Patrizia Zitelli – CSGI patrizia@csgi.unifi.it For more information visit our website http://www.echc.eu

PHAIDRA

Raman Ganguly Linda Cappellato





Università degli Studi di Padova

PHAIDRA Digital collections

University of Vienna University of Padova Library System

Networking Session for EC projects in the cultural heritage field 6th March 2017, Department of Information Engineering of the University of Padova



Austria

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Italy

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Montenegro

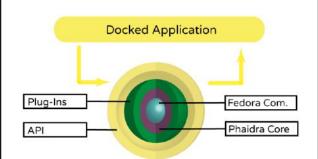
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Layers of the Phaidra Repository



A look into Phaidra at the University of Padova

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MUSEUM	LIBRARY	ARCHIVE





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Scientific wallcharts at the Botanical Museum

98 teaching wallcharts of Botany, produced in the late Nineteenth- and early Twentieth-Century

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- Tools for creation and visualization of digitised books (*Phaidra Importer* and *Book viewer*)
- Phaidra is FAIR Findable, Accessible, Interoperable, Reusable as indicated by <u>Guidelines on FAIR Data Management in Horizon 2020</u>

Phaidra interacts with other systems

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europeana think culture	cultura italia UN PATRIMONIO DA ESPLORARE	

PHOTOCONSORTIUM ASSOCIATION

Antonella Fresa

International Consortium for Photographic Heritage

PHOTO CONSORTIUM

У f

www.photoconsortium.net





- The Association participated in the development of the E-Space pilot on creative reuse of photographic content
- Photoconsortium is partner of the Digital Service Infrastructure project led by Europeana, and supported by the CEF Programme of the EU to create a Thematic Channel about Photography

READ

Louise Seaward

Recognition and Enrichment of Archival Documents (READ) 23 Jug 1807



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Lorie Deligates

Dr Louise Seaward University College London louise.seaward@ucl.ac.uk @Transkribus

UCL

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- Making archival documents more accessible
- New research infrastructure – Transkribus
- Funded until mid-2019
- 14 European partners





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- Handwritten Text Recognition and other tools
 - Enabling computers to automatically transcribe and search handwritten historical documents –

wire any date, language and layout!

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Results with 90% accuracy are possible!

the individual states, being a imitation of the house of Peers in Britain, is a separation of power without any utility and perhaps only protracts legislation and is the cause of onnecessary dissensions the senate in the federal Government only is a check on the apposuitnent of officers by the preevident by their confirmution be necessary and it has been observed that the expect apopointmeuts to amhassad or to be taken from amongst themselves, as it is difficult to obtain a mayority in favour of such as have not served in their body, in consequence

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What is Transkribus?

A research infrastructure for working with historical documents, including a downloadable expert client and web-based tools

Go to: http://transkribus.eu



Digital Editions

ALFRED ESCHER STIFTUNG Briefe Kontexte Suche Überdie Editi	ion Benutzerkonto		\$ # Ə 4 fi B
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Alfred Escher an Gerold Meyer			
Ich nehme die Freyheit mein lieber Herr, Sie unsere besten Grüße zu überbringen, und ihm übergeben. Er wird sich dann wieder so allein f Es ließe sich vielleicht ohnehin während dieses Briefes finden.	dann <i>erst bey ihrem Abschiede</i> mitkomme ühlen! und dieser wird ihm eine kleine Zers	enden Brief zu streuung gewähren.	Kontexte Korrespondenten Alfred Escher Gerold Meyer von Knonau
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Crowdsourcing platform

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Mobile Scanning app

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Spreading the word



- Building network of archivists,
 librarians, humanities
 researchers, computer
 scientists, the public
 (especially family historians)
- Services offered through Transkribus are free
- Open access, open source
- Conferences, workshops and online promotion

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For more information:

READ: <u>https://read.transkribus.eu/</u> Transkribus : <u>https://transkribus.eu/</u> Contact: <u>email@transkribus.eu</u>

Twitter: @Transkribus







ROCK

Jacopo Gaspari Valentina Gianfrate

SC5-21-2016-2017 | topic: CULTURAL HERITAGE AS A DRIVER FOR SUSTAINABLE GROWTH



egeneration and

PROJECT PROPOSAL :

ptimization of

ultural heritage in creative &

nowledge-cities

Municipality of Bologna - Alma Mater Studiorum University of Bologna - DA, DICAM, SDE, DiSCi



PROJECT PROPOSAL| SC5-21

CONCEPT IDEA

DEMONSTRATORS BOLOGNA AS A REPLICATOR

IMPACTS

DESCRIPTION | OBJECTIVES | METHODOLOGY | TOOLS

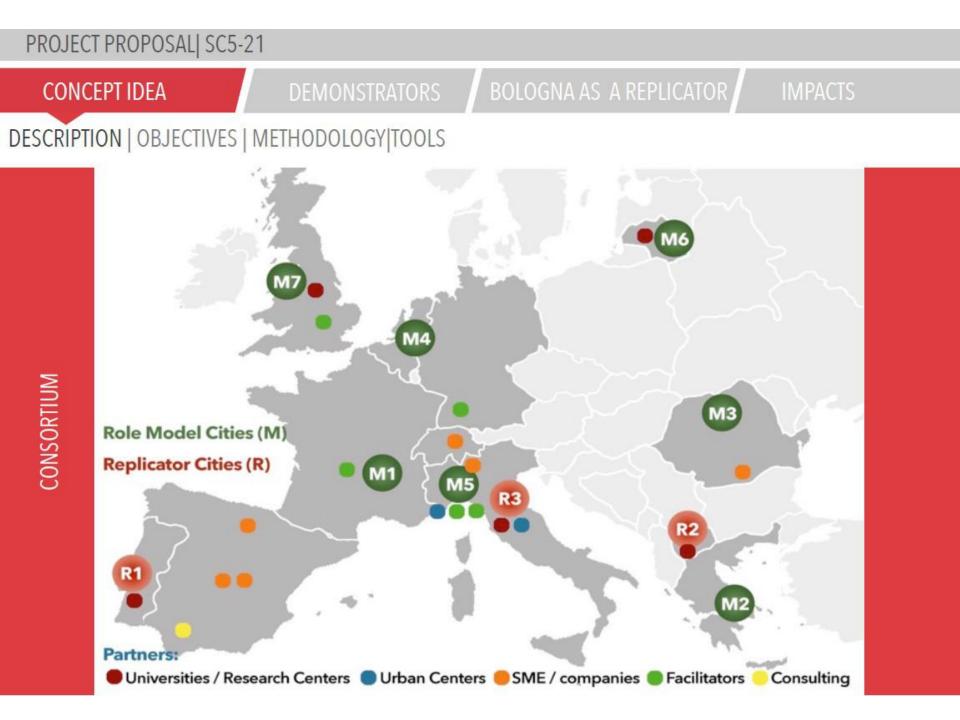
ROCK aims to develop an **innovative**, **collaborative** and **systemic approach** to promote the effective regeneration and adaptive reuse in historic city centres by implementing a repertoire of successful heritage-led regeneration initiatives

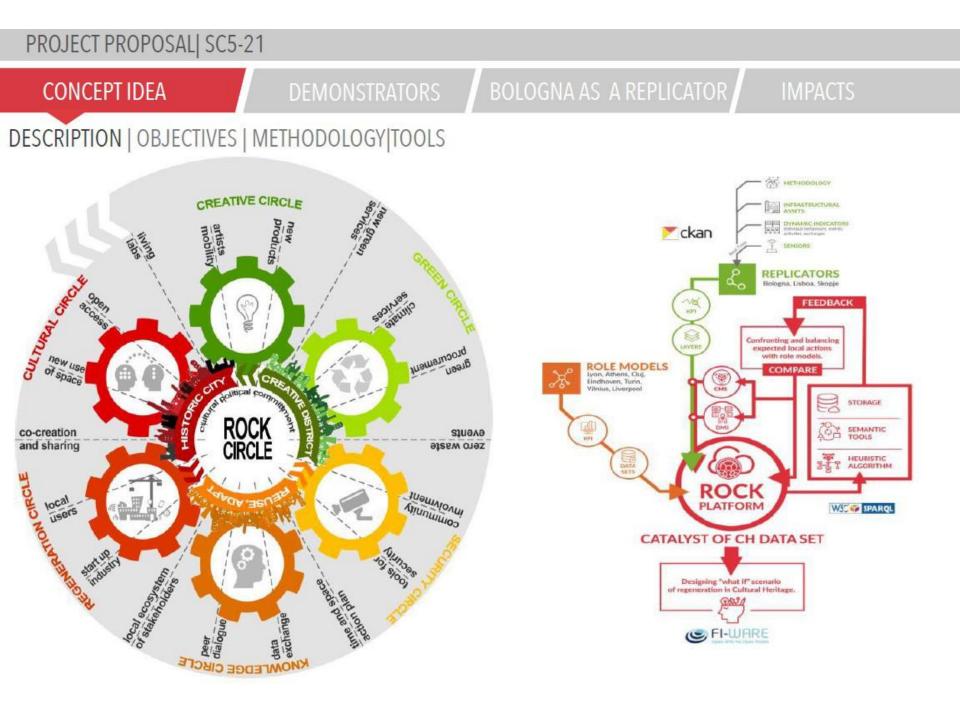
7 Role Models

The **replicability** of their spatial approach and effective models will address the specific needs of historic city centres and integrate site management plans with associated funding mechanisms **3 Replicators**

ROCK will provide new ways to access Cultural Heritage [CH]:

- fostering the usability of spaces to all,
- improving the functions of CH from a user perspective,
- defining key policy issues,
- integrating the emerging spatial, temporal and virtual structures of the **knowledge-based** society to support cohesion
- ____developing a sense of belonging to a place.





PROJECT PROPOSAL| SC5-21

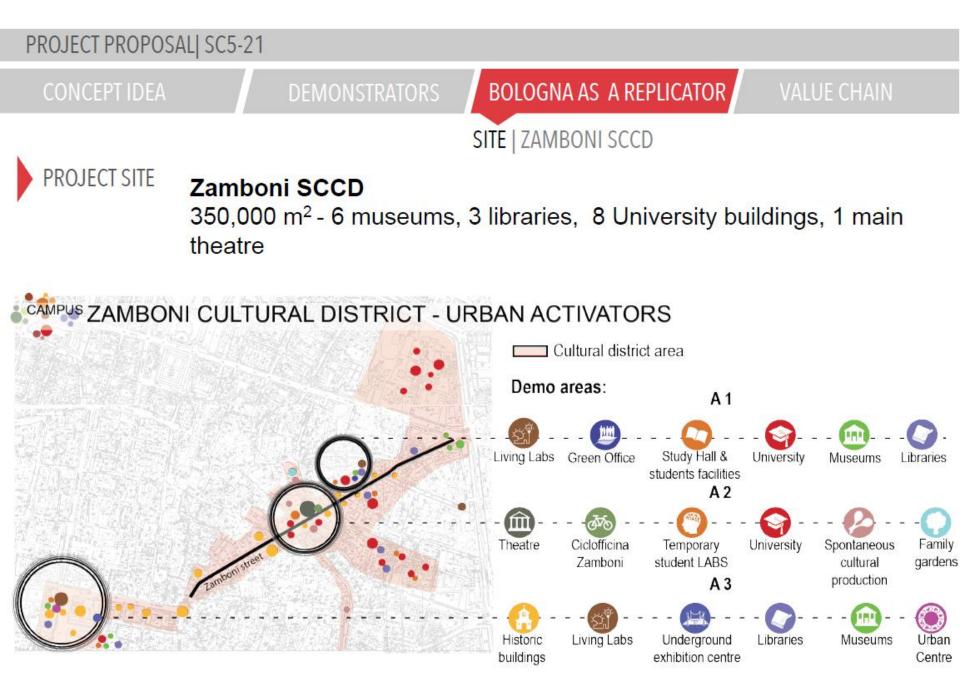
CONCEPT IDEA

DEMONSTRATORS

BOLOGNA AS A REPLICATOR V

The 3 Replicator Cities have selected large demonstration historic city areas that share common problems: environmental and social decay, rapid demographic change, no-integrated immigration, depopulation of the historic centre, micro-crimes

	530 [°] 847 inhabitants. Santa Maria Mayor: 479,000 m², 12 museums, 5 theaters, 1 libraries, 2 university buildings, 6 archeological sites
TAOUB LISBOA CULTURAL DISTRICT - URBAN ACTIVATORS Cultural district area Demo areas: A1 A1 A1 A1 A1 A1 A1 A1 A1 A1	ROCK Vision: using Lisbon distinctive multicultural features to foster collaborative, participatory and innovative cultural initiatives by mapping and promoting innovative re- use of historic buildings, cultural equipment, and unused spaces with high cultural potential. The aims are to attract new talents of the creative industries, develop ICT infrastructure to promote synergies, create programmes to bridge generational gaps involving local communities. S3: 1) Creativity and the cultural industries, supported by ICT innovation and linked to tourism; 2) Connecting cultural and creative industries with traditional ones; 3) promoting eco-tourism and hospitality based on natural and historic heritage.
offor of	536 ⁻ 271 inhabitants. Old Bazar: 570,000 m², old bazaar, 6 museums, 4 theaters, 4 galleries, 4 universities
SKOP JE CULTURAL ARCHIPELAGO - URBAN ACTIVATORS	ROCK Vision: transforming the historic area with the medieval fortress into a knowledge, culture and technology-driven hub. The aims are to promote creative and ICT-supported spatial practices in public spaces by bringing different stakeholders together in creative collaborative living labs, and develop innovative working and business models based on collaborative and sustainable economy.
A3 National Participation Control National Participation Con	UNDP Sustainable development goals: 1) Skopje green routes; 2) Local Small scale development initiatives; 3) Community works for vulnerable groups



CONTACTS

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SCAN4RECO

Anastasios Drosou Dimitrios Tzovaras



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

Scan4Reco, Horizon 2020 Project

Project Overview

Presenter:

Dr. Anastasios Drosou

Post-doc Fellow



Project Coordinator: Dr. Dimitrios Tzovaras

Director of CERTH-ITI Researcher Grade A'



European Commission Horizon 2020 European Union funding for Research & Innovation

Project funded by the Horizon'2020 in topic "Reflective-7" Grant Agreement #665091



Summary

- Grant Agreement No.: 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
- o Start date: 01/10/2015
- Duration: 36 Months Currently @ M13
- **Project website:**

www.scan4Reco.eu



This project has received funding from the European Union's Horizon 2020 Research and innovation programme under Grant Agreement n°665091



Consortium





Centre for Research & Technology - Hellas / Information Technologies Institute (Coordinator, Greece)

"ORM YLIA" FOUNDATION, ART DIAGNOSTIC CENTRE (Quality Manager, Greece)



Fraunhofer Institute for Computer Graphics Research IGD (Germany)



University of Verona (Italy)

BW TEK Inc. (Germany)

Avasha AG. (Switzerland)



Opificio delle Pietre Dure (Italy)



Center for Research, Development, and Advanced Studies in Sardinia (Italy)



avasha advanced optical and photonic engineering



Research for Science, Art and Technology (RFSAT) Ltd (United Kingdom)



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

Scan4Reco will offer a **multi-angle** (in spatio-temporally terms) **view** of the objects

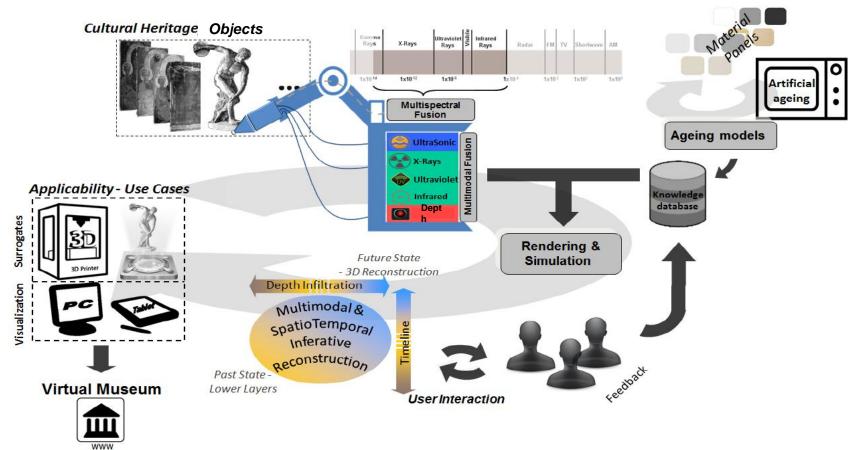
Scan4Reco will facilitate the **preservation**, **conservation**, **curation**, **restoration** & the **documentation** via **automatic digitization** of a wide variety of **cultural heritage assets** even **in situ**, using:

- accurate 3D reconstruction models,
- multispectral & thus, multi-layer scanning & digitization,
- material exploration,
- identification and modelling,
- spatiotemporal simulation to render degradation effects, predict and recreate CHOs' future appearance
- conservation specific decision making support
- tactile multilayered surrogates for both scientific and commercial usage
- demonstration in virtual museum









 Two classes of cultural heritage objects, i.e. paintings & metallic objects will be used as validation pilots.



- 2 classes of cultural heritage objects, i.e. paintings & metallic objects
 will be used as validation pilots.
- Use cases:

✓ Environmental conditions & metadata definition

• Environmental conditions of artwork degradation and the corresponding type of restoration intervention will be defined and studied.

✓ Cultural Object Scanning

 A selected artwork will be digitally acquired to generate (a) a global coarse-resolution 3D representation of the color and geometry of the artwork and (b) local physical and chemical measurements of small, flat areas on the artwork surface/subsurface.

✓ Spatiotemporal Simulation

• Virtually simulating the evolution of artwork condition over time, in order to make reliable prediction on the object behaviour and the effect of the restoration treatments.

✓ Analysis & Guidelines generation

• It will provide curators and restorers with a rendering-based help to take the right operational strategy.

✓ 3D Visualization, Interaction & 3D Printing

• Using visualization tools, both virtual and physical, will allow for a real-time, easy interaction between the end-users, scholars, curators and general public, and the cultural heritage assets.



Overview of reference samples

Pigments/samples with varnish Metallic reference samples



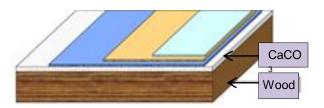
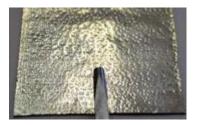


Fig. (up) Pigment panel, (down) Design of the 3d structure of the panel with combination of successive layers of pure pigments or of mixtures of them in each sub layer <u>COATED SILVER SAMPLES</u>

Silver SET1: 16 samples Silver SET2: 16 samples Two not treated samples (one smooth and one chased)



<u>COATED BRONZE SAMPLES</u>

Bronze SET1: 9 samples Bronze SET2: 9 samples

One not treated sample

BRONZE SAMPLES WITH
 PATINA

Patina SET1: 16 samples

Not treated strips in between areas

with patina







Data acquisition process 3 layers

3D (Global) Scanning & Registration

- A global 3D coarse-resolution geometric and chromatic representation through:
 - Depth camera setup for capturing color and depth information (quick)
 - High Resolution colour sensor (high resolution)
- Registration of the local, punctual measurements performed by other sub-systems onto the global 3D resolution geometrical proxy
- Surface Acquisition & Characterization of materials through:
 - Optical micro-profilometer
 - Multispectral Reflectance Transformation Imager (MS-RTI)
- Perform sub-surface acquisition &

characterization (i.e. physical & chemical) through:

- Acoustic microscope
- Infrared camera
- Fourier Transform Infrared spectrometer
- Raman spectrometer
- UltraViolet/Visible spectrophotometer
- X-ray Fluorescence spectrometer

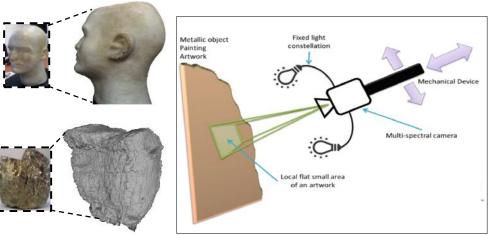


Fig. 3D coarseresolution models

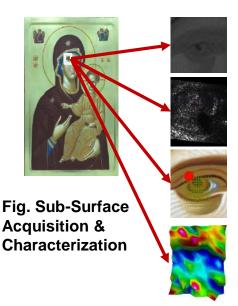


Fig. MS-RTI

IR imaging 1-5µm Ultrasound & IR imaging Ultrasonic µTomography

UV-VIS Spectroscopy





Assisted Positioning

Mechanical Arm – Column on Rail

- o Assist the artwork's acquisition
- o Is a multi-axis positioning system
- o Allow to mount sensor probes and to move them to positions relative

to the cultural heritage object under obser



horizontal base axisXvertical axisYaxis parallel to sensor axisZpan axisΘtilt axisΦ

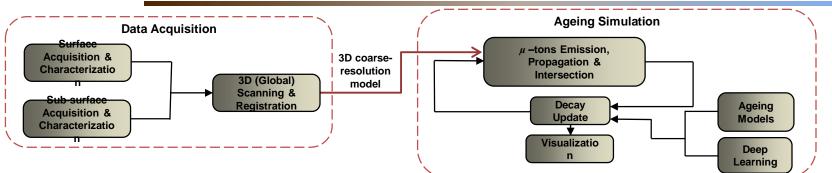




Ageing Simulation



... from measurements to visualization



- Particle-based method for ageing simulation based on the J.T. Kider et al. (2012) approach
- **Ageing models**: Parametric functions capturing variations in **space & time** of weatheringrelated attributes (e.g. stratigraphies, visible spectra)
- Ageing models computation: artificial ageing of reference materials using accelerated ageing chambers in rounds of ageing. Measurements are conducted on materials after each round
- **Deep Learning** is developed for the **visual interpretation** of the multi-spectral data & the ageing models to the material-ageing-related parameters for simulation









- Creation of a multi-material replica of the 3D model (OFFSITE) with the attached multi-modal signals
- Illustrative 3D printing procedures might be employed to tangibly represent the volumetric structure of the materials





Stratasys Objet 500 Connex3 printer employs 3 build materials

Stratasys J750 printer employs 6 build materials



Find about us...



www.scan4reco.com

Horizon'2020-Scan4reco Project

- <u>http://twitter.com/scan4reco</u>
- <u>http://www.facebook.com/groups/982430741820987</u> /
- <u>http://www.linkedin.com/groups/8428972</u>





Questions & Answers





Contact Details: Dr. Anastasios Drosou drosou@iti.gr

Centre of Research & Technology - Hellas Information Technologies Institute

STORM

Mercè López Fort Francesca Boldrighini







Safeguarding Cultural Heritage through Technical and Organisational Resources Management

Historical Centre of Rethymno (Rethymno, Greece)









European Union heritage assets are extremely exposed to **climate change and natural hazards**, which threaten their integrity and may compromise their value.

STORM aims at undertaking the challenge of researching **new ways to mitigate the impacts of harsh climate events upon Cultural Heritage.**



European Commission Horizon 2 European for Resea

Horizon 2020 European Union funding for Research & Innovation



OBJECTIVES

STORM provides critical decision making tools to all European Cultural Heritage stakeholders charged to face climate change and natural hazards.

The project **improves existing processes** related to three identified areas:





European

Commission



- STORM creates a new innovative set of processes and tools, useful for heritage sites, organisations, governments and citizens across Europe.
- STORM emphasises the use of eco-innovative, costeffective, collaborative methodologies, novel predictive models and improved non-invasive, non-destructive diagnosis methods.

 Funding:
 € 7.297.875,00 (RIA 100%)

 Duration:
 36 months (June 2016 – May 2019)

 Consortium:
 20 organisations from 7 countries (IT, UK, GR, PT, TR, AT, DE)



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ommission

Horizon 2020 European Union funding for Research & Innovation



ARCHITECTURE & ACHIEVEMENTS

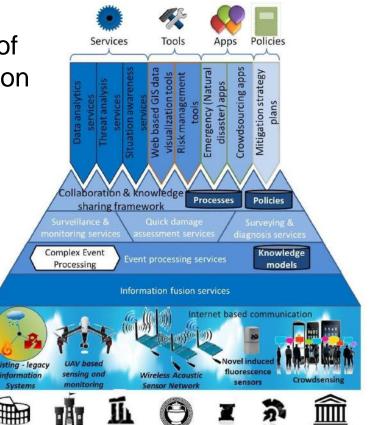
STORM integrated platform delivers a set of applications and services for the protection by climate changes and extreme weather events:

> Data Analytics Service **Crowdsourcing Services Natural Disaster Applications** Web-based GIS Visualization **Threat Analysis Services Risk Assessment Tools** Mitigation Strategy Plan



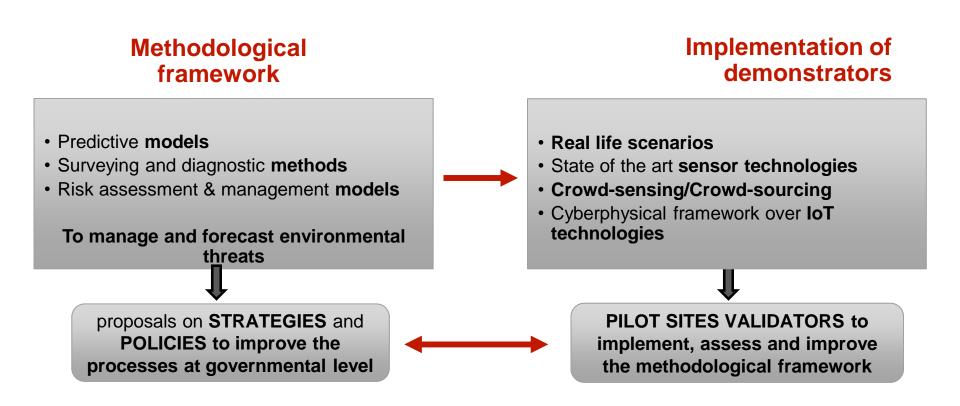
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EXPECTED RESULTS: A DUAL APPROACH





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PILOT SITES

Pilot	Historical, period (*)					Material	
site	Pre-history (– 3600 BC)	Ancient history (3600 BC – 500 AD)	Postclassical era (500 AD – 1500 AD)	Early modern period (1500 AD – 1750 AD)		Contemporary period (1914 AD – present)	
MELLOR	Cairn (3500 BC)	Hillfort (800 BC)	Medieval Church (1200 AD)		Mill (1790)		• Wood • Bricks • Stone
BATHS OF DIOCLETEAN		Roman Baths (298-306 AD)		Cloisters (1565- 1650 AD)		Museum building (~ 1920)	 Wood Bricks Stone Marble Mortars Concrete
HISTORICAL CENTRE OF RETHYMNO		Hellenistic shipyards - Neoria (3rd-2nd BC)		Fortezza fortress (late 16 th century)	Buildings in the old city (~1850)	Minister (1955)	 Bricks Stone Mortars Iron Renders Wood
TROIA		Roman settlement (1 st -5 th c. AD)	Early Christian Basilica (5 th c. AD)				 Stone Bricks Marble Stucco Mortars
EPHESUS		Ephesus Great Theater (3rd BC)					Stone Bricks Marble Iron Mortars

* Stearns P.N., Adas M., Schwartz S.B., (1996), World Civilizations: The Global Experience (Vol.2), HarperCollins College Publishers



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Baths of Diocletian, Rome, Italy

Main hazards:

- Biological colonization and pests
- Vibrations
- Strong winds and rains
- Temperature change (freezing- heat)

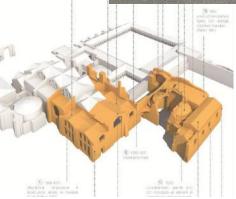


Selected areas:

- Michelangelo's Cloister •
- Halls I-II-IV of the Roman • Baths

European







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Historical centre of Rethymno, **Crete, Greece**

Main hazards

Flooding Winds

- Earthquakes
- Air humidity
- Vegetation
- Solar radiation

Selected areas

- Fortezza-fortress
- Soap factory-Ottoman building ٠







European Union funding for Research & Innovation



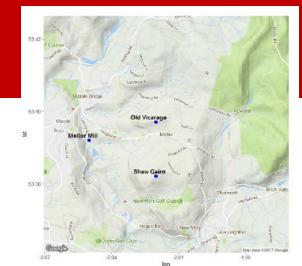
Mellor Heritage Project, UK

Main hazards

- Strong winds
- Vegetation
- Flooding
- Temperature change freezing
- Landslide

Selected areas

- Shaw Cairn
- Mellor Mill
- Reconstructed Roundhouse
- Iron age ditch













Roman Ruins of Tróia, Portugal

Main hazards:

- Tidal and river currents- sea level rise- coastal erosion
- Saline Spray
- Air humidity and rising damp
- Solar radiation
- Biological colonization -pests

Selected areas:

- Workshop 23: Well
- Basilica: northeast painted wall

European

Commission

• Workshop 21: walls of the south corner









Epheus, Turkey



Main hazards:

- Earthquakes and tsunamis ٠
- Temperature changes (heat-ice) ٠
- Fire •
- Solar radiation ٠
- **Biological colonization -pests** ٠

European

Selected areas:

Great theatre







Thank you! www.storm-project.eu

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Francesca Boldrighini francesca.boldrighini@beniculturali.it



Horizon 2020 European Union funding for Research & Innovation





Safeguarding Cultural Heritage through Technical and Organisational Resources Management



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Horizon 2020 European Union funding Commission for Research & Innovation

700191-STORM-H2020-DRS-2015 Project funded by: EUROPEAN COMMISSION - Executive Agency for Small and Medium-sized Enterprises (EASME)

Discussion

- Social platform (application submitted)
 - Many letters of support from projects kindly returned and included
- COST Action (possible application)
 - Do we, in essence, meet the criteria? If we do, how do we go about making a submission?
- Stage a CH conference/celebration in the programme of the EU Presidency/Year of CH (proposed idea)









Social Platform

- Three-year REACH project (Re-designing Access to CH for a wider participation in preservation, (re)use and management of European culture)
- Would establish a Social Platform as a sustainable space for meeting, discussion and collaboration by a wide-ranging network of development bodies, tourism, education, creative industries, policy-makers, cultural heritage professionals, academic experts, arts practitioners, professionals in archives and galleries, and associations, local societies and interest groups representative of non-professionals- all those with a stake in research and practice in the field of culture and cultural heritage (CH).









REACH CSA

- Support: to map and provide analysis of research results achieved in previous programmes, to identify current and emerging research trends, and to offer authoritative new knowledge of the CH field to the European Commission and policy-makers.
- Coordination: to offer benefits to its participants, expanding knowledge of complementary research and practice domains, and of new methodologies, generating opportunities for cooperation, offering pathways to wider user-engagement with research and practitioner outputs.









REACH CSA

- In the context of radical social changes REACH is based on the proposition that CH plays an important role in contributing to social integration in Europe, and that a fuller and more detailed picture of the range, type and impact of research and participatory research methodologies, current and future, will further enhance the potential for social good.
- The act of reflection CH is a vital element in the reflective process: it is an instrument both for exploring questions of identity and for overcoming barriers to mutual understanding and tolerance.
- REACH will create tools and instruments to trigger the debate on how participatory approaches can contribute to develop a common horizon of understanding and trigger social innovation processes, with a particular focus on CH preservation, use and reuse, and management.









COST Action

- COST Mission is to enable breakthrough scientific developments leading to new concepts and products and thereby contributing to strengthening European research and innovation capacities.
- In order to achieve its mission, COST endeavours to:
 - build capacity by connecting high-quality scientific communities throughout Europe and worldwide;
 - provide networking opportunities for Early Career Investigators (ECI);
 - increase the impact of research on policy makers, regulatory bodies and national decision makers as well as on the private sector.









COST Action

- COST has put in place a set of policies aiming at fulfilling its Mission and specific objectives:
 - COST Excellence and Inclusiveness;
 - COST International Cooperation;
 - Industrial dimension.









COST Action

COST Actions are:

- Pan-European: the COST inter-governmental framework spans over 36 Member Countries and one Cooperating State;
- Bottom-up: in terms of S&T fields and topics, COST welcomes any novel, original and innovative idea;
- Open: in terms of participation, COST Actions can grow in size within the first three years;
- Unique: as a platform to coordinate national research funding and resources within a lightweight framework;
- Multi-, Inter- and Transdisciplinary: bridging different research communities, disciplines, fields and methodologies;
- Output and Impact-Oriented: COST Actions are monitored against their expected output and impact.









Towards 2018 - European Year of CH

- Our objective would be to organise a bigger CH Conference in 2018 and to include our bi-annual events in the programme of the EU Presidencies
 - Any idea/proposal?
- First semester 2018 Bulgarian EU Presidency: possibility to organise a Conference in Sofia, in cooperation with the National Library and Information System Authority (NALIS)
 - As a standalone Conference it could be held at the Grand Hall of the Bulgarian Academy of Sciences near the Radisson Hotel
 - Alternatively it can be hosted jointly with the annual conference organized by the Bulgarian Library and Information Association (<u>http://www.lib.bg/en/</u>)









Next appointment

- Date: 11 October 2017, 9:00-13:00
- Venue: National Library of Estonia, Tallinn
- In the framework of:
 - PREFORMA Final Conference
 - Estonian EU Presidency
- Supported by:
 - PREFORMA Project
 - Estonian Ministry of Culture
 - National Library of Estonia









Thank you and... see you tomorrow!



SHAPING OUR FUTURE MEMORY STANDARDS

7 MARCH 2017

Botanical Garden via Orto Botanico 15, Padua, Italy www.preforma-project.eu/workshop-in-padua.html







