

# DIGITAL HERITAGE

28 Sep - 2 Oct, 2015  
Granada, Spain

## From Digitization to Preservation, Creative Re-Use of Cultural Content, and Citizen Participation

Workshop organized by Promoter  
Chair: Antonella Fresa

# Organising:

**Promoter SRL** is an Ltd company based in Pisa and founded in 1996 joining together competencies and experiences in the areas of information & communication technologies, research, development and validation processes, multimedia innovation, business promotion and project management.

Promoter's general management and the research staff is composed of skilled professional people who have been managing or contributing to EU projects since the early 1990s, in different sectors belonging to several European Programmes.

Promoter is partner of prestigious cultural, academic and research institutes as well as private enterprises in Europe providing expertise, know-how and technology within R&D cooperation projects.

ICT expert, Director and Administrator of Promoter SRL, **Antonella Fresa** has been working on European cooperation projects since 1994.

Since 2002, she is Technical Coordinator and Communication Manager of national and European projects in the domains of digital cultural heritage, smart cities, digital preservation, e-Infrastructures.

She regularly serves as independent expert for the European Commission, where she has been Project from 1999 to 2002.

From 2002 to 2012, she has been advisor of the Italian Ministry of Cultural Heritage and Activities; from its establishment until 2012, she has been Decree Member of the Concertation Table for Research Priorities for Cultural Heritage in Italy between the Ministry of Culture (MiBAC) and the Ministry of Research (MIUR).

# Participating:

RICHES  
EUROPEANA SPACE  
CIVIC EPISTEMOLOGIES

PREFORMA  
PHOTOCONSORTIUM



# Why this panel?

From the growing amount of digitized cultural heritage, open questions are raised by the change and impact they brought in any field of our society.

This panel will foster a debate to understand the path towards a more advanced society, that makes use of the full potential of digital technologies to foster cultural and societal progress.



**RICHES**  
RENEWAL, INNOVATION AND CHANGE:  
HERITAGE AND EUROPEAN SOCIETY



PHOTO  
CONSORTIUM  


# What will we be talking about today?

with RICHES (providing the humanities point of view), we will give an introduction about the **wide context of change** that the cultural sector is facing, with a particular attention to the changes derived from the introduction of the digital technologies

with EUROPEANA SPACE, looking at the encounter of content providers and creative industry, we'll show **experiments and options for a real exploitation of the CH** when it is offered in digital form, in various sectors

with CIVIC EPISTEMOLOGIES, focusing on the societal aspects, we will tackle the question of how **the civic society can participate and engage with the digital transformation of cultural heritage**, not just for fun and entertainment, but also to participate in the research activities

with PREFORMA and PHOTOCONSORTIUM we touch two technical questions, that are at the basis of the whole digital cultural heritage, namely: the **digital preservation** and the **high quality digitisation**.



**RICHERS**

RENEWAL, INNOVATION AND CHANGE:  
HERITAGE AND EUROPEAN SOCIETY

# **RICHERS - Renewal, Innovation and Change: Heritage and European Society**

Neil Forbes - Coventry University

Neil is professor of International History at Coventry University. His research interests focus on the history of international political and economic relations in the nineteenth and twentieth centuries, specialising in the study of the interwar years, and on conflict heritage, contested landscapes and the memorialisation of war.

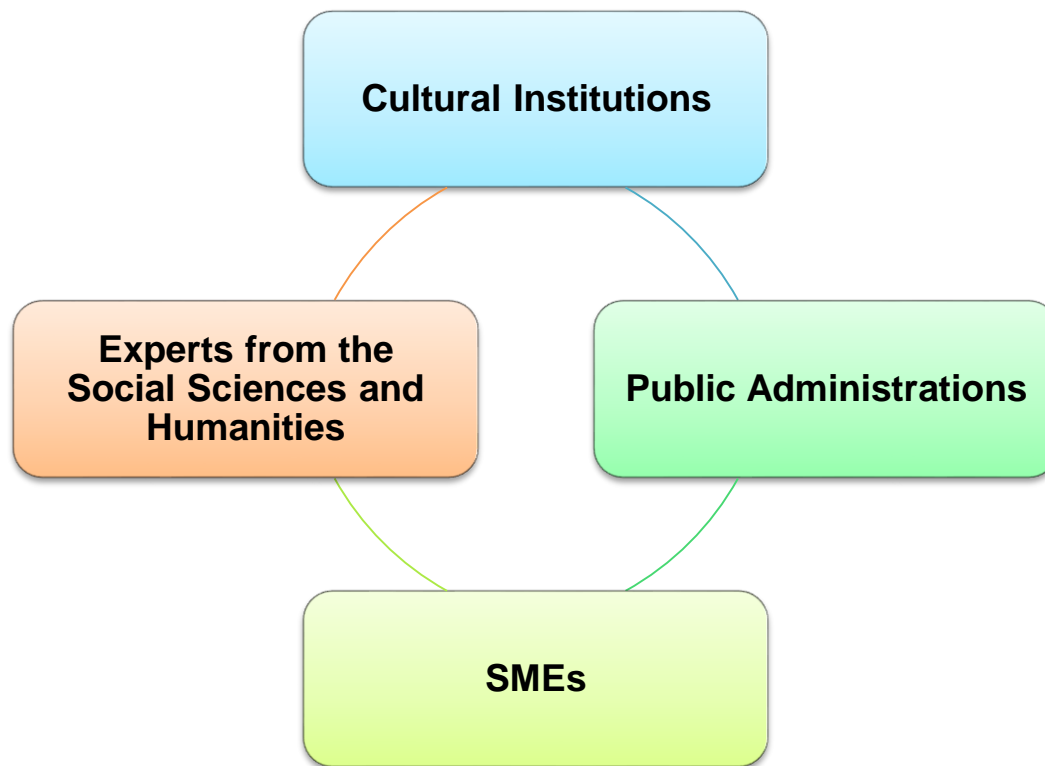


# RICHS

RENEWAL, INNOVATION AND CHANGE:  
HERITAGE AND EUROPEAN SOCIETY

## RICHS CONSORTIUM

RICHS draws together 10 partners from 6 EU countries and Turkey:





**RICHERS**

RENEWAL, INNOVATION AND CHANGE:  
HERITAGE AND EUROPEAN SOCIETY

## QUESTIONS TO BE ANSWERED

1. How can CH institutions renew and remake themselves?
2. How can EU citizens play a co-creative role in their CH?
3. How can new technologies represent and promote CH?
4. How can CH become closer to its audiences?
5. How can CH be a force in the new EU economy?





# RICHERS

RENEWAL, INNOVATION AND CHANGE:  
HERITAGE AND EUROPEAN SOCIETY

## TAXONOMY

a theoretical framework of interrelated terms and definitions, referring to the new emerging meanings of the digital era (such as “preservation”, “digital library”, “virtual performance” and “co-creation”), aimed at outlining the conceptual field of digital technologies applied to cultural heritage.

Through its list of definitions and explanations – and in accordance with the Greek etymology of the word – the RICHERS Taxonomy classifies and orders a wide range of concepts in categories of terms.





# EUROPEAN POLICY BRIEF



**RENEWAL, INNOVATION & CHANGE: HERITAGE AND  
EUROPEAN SOCIETY (RICHS)**

**RICHS Taxonomy of cultural heritage definitions**

**JULY 2015**

## INTRODUCTION

RICHS is a research project funded by the European Commission within the 7th Framework Programme in the domain of Socio-economic Sciences and Humanities. Its main objective is to reduce the distance between people and culture, recalibrating the relationship between heritage professionals and heritage users in order to maximise cultural creativity and ensure that the whole European community can benefit from the social and economic potential of cultural heritage.

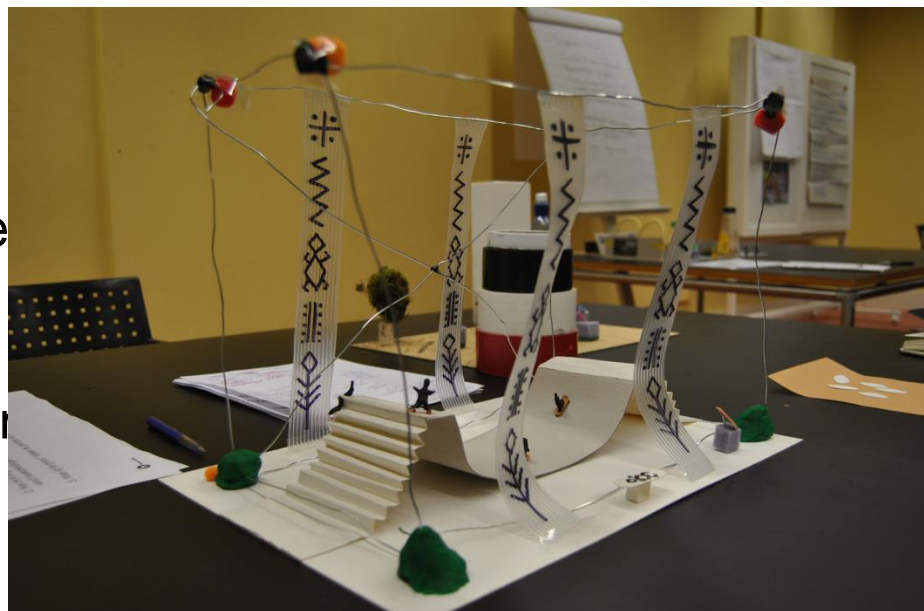


# RICHS

RENEWAL, INNOVATION AND CHANGE:  
HERITAGE AND EUROPEAN SOCIETY

## CO-CREATION

CH institutions redefining themselves in face of complex and inter-related challenges - technological innovation, sustainability, citizenship, lifelong learning and cultural diversity.



new approaches emerge involving end-users and professionals at all levels, to enable a collective imagining, building and experiencing of new futures.

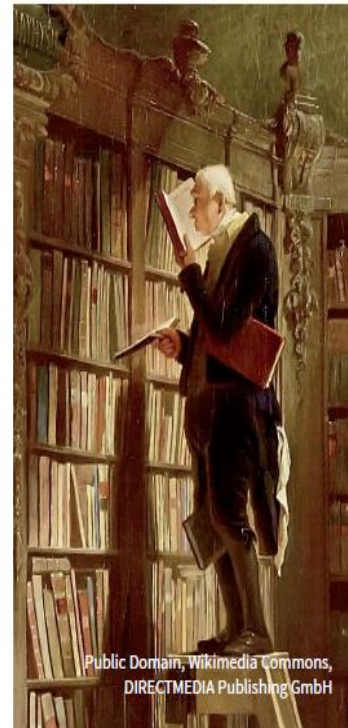
# DIGITAL LIBRARIES, COLLECTIONS, EXHIBITIONS AND USERS. EXPLORING THE STATUS OF DIGITAL HERITAGE MEDIATED BY MEMORY INSTITUTIONS.

Digital technologies are deeply transforming the ways in which heritage institutions mediate their collections and interact with their audiences. Responding to a growing and persistent demand for digital content, institutions make available large amounts of curated digital resources for study and scholarly research, for discovery and creative reuse, for enjoyment, education and learning.

This study explores the status of digital heritage mediated by libraries and museums by means of five case studies, in which the results of the research will be illustrated and validated through evaluation with end-users.

## DIGITAL LIBRARIES, COLLECTIONS, EXHIBITIONS: WHAT DO USERS ENJOY AND WHAT CONSTRAINTS HOLD USERS BACK?

Re-using the content aggregated in digital libraries, memory institutions are experimenting with the creation of digital collections and digital exhibitions, where they show precious objects and complement the digital records with, for example, stories, contextual information and interactive features. Three case studies investigate applications in the domain of digital libraries, digital collections and digital exhibitions developed by cultural heritage institutions in Germany and





# RICHERS

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## ECONOMICS OF CULTURE

- fiscal and economic aspects of cultural consumption
- why and how heritage institutions can improve the fostering of innovation and digitise their collections more efficiently
- how innovative digital technology use can benefit CH institutions through collaboration with external agencies
- how digital technologies are used to valorise territorial cultural identities - re-shaping human interactions with our built heritage environment
- debates over whether digital commodification of place, image and identity leads to a 'Disneyfication' effect.



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# ECONOMICS OF CULTURE





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## THE USE OF CRAFT SKILLS IN NEW CONTEXTS

Impacts and uses of digital technology mapped at several stages in the craft, product-development lifecycle. In design and making, novel *manufacturing/production* opportunities emerging: additive manufacturing, skilled makers blending hand-making/finishing with volume production, enhanced creativity through visualisation of concepts and ideas, sophisticated objects produced not possible with traditional means.



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## THE USE OF CRAFT SKILLS IN NEW CONTEXTS

- online medium (social media) – positioning and communicating the value of craft objects to wider audiences, platforms for learning, skills-building and knowledge exchange
- online sales - strengthening the economic standing of crafts practitioners and makers in the creative economy, giving rise to innovative business models.
- supportive/facilitative networks - crafts collectives and partnerships between makers and entrepreneurs
- a wide array of outcomes, from material innovation to enhanced aesthetics, customisation, and unique designs.





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# EUROPEAN IDENTITY, BELONGING AND THE ROLE OF DIGITAL CH

Identify: the characteristics that can support the strengthening of a European identity - the challenges, limitations and future potential of digital interaction

Diverse European minority communities - how they represent, preserve and transmit their heritage in digital format to keep alive a sense of belonging with their home countries/communities, reflecting upon their own cultural identities and engaging critically with mainstream CH



# RICHES

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# EUROPEAN IDENTITY, BELONGING AND THE ROLE OF DIGITAL CH

6 EXHIBITIONS 48 TOURS 1000+ OBJECTS  ABOUT EDUCATION MYEUROPE

## INVENTING EUROPE

EUROPEAN DIGITAL MUSEUM FOR SCIENCE & TECHNOLOGY

**TAKE A NEW LOOK AT EUROPE'S HISTORY**  
For centuries, science and technology have both crossed and created borders in Europe. Come explore the stories behind objects, photos and videos to discover how technology has shaped Europe - and Europe has shaped technology. Take a tour through one of our six exhibitions, or go on a special guided tour by one of our guest curators.

SPECIAL EXHIBITION

MUSEUM BOERHAAVE

Discover 100 years of inventions. Our latest exhibition excitingly connects with the on-site exhibition of Museum Boerhaave in the Netherlands through our museum app.

### 100 JAAR UITVINDINGEN

Made by Philips Research

Follow the link and find out how you can re-invent Europe with the Inventing Europe museum app.

Download on the App Store

EXHIBITIONS

DAILY LIVES EXHIBITION

INFRASTRUCTURES EXHIBITION

GOVERNANCE EXHIBITION



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# EUROPEAN IDENTITY, BELONGING AND THE ROLE OF DIGITAL CH

- connect communities to build understanding and create cohesion by stressing (cultural) similarities and fostering cultural exchange
- innovative digital tools; supporting awareness of cultural pluralism, providing new ways to engage with and experience CH
- improved contextualisation of CH content to make comparisons between different cultures and communities more evident.
- digital resources that unite the past and the present – living heritage especially for younger generations



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## VIRTUAL PERFORMANCE

- how, using audio-visual and future internet technologies, dance and performance artists can interact with digital technologies to create new artefacts and events, develop new skills which can coexist and complement traditional skills
- how cultural expressions from the past can be reinvigorated and renewed and how both artefacts and skills can be transmitted to society
- the preservation and transmission of performance-based CH through multidisciplinary collaboration between engineers and artists: how to record, store and assure future access



**RICHERS**

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# NEXT APPOINTMENTS

- 19 October 2015 in Brussels

Policy Seminar: **NEW HORIZONS FOR CULTURAL HERITAGE – Recalibrating relationships: bringing cultural heritage and people together in a changing Europe**

Preceded by a Networking Session of EC projects

- 12 November 2015 in Berlin

In the framework of the CIVIC EPISTEMOLOGIES final conference, workshop entitled: **Community-Led Redesign of Cultural Heritage**

- March 2016: **Second Policy Seminar**

PRO  14-15 April 2016 in Amsterdam: **Final Conference**

Information technology, research and innovation

[www.promoter.it](http://www.promoter.it)

DH2015 Granada, 1 October 2015

Media Partner

DIGITAL  CULTURE

[www.digitalmeetsculture.net](http://www.digitalmeetsculture.net)

**Follow us on:**

**[www.riches-project.eu](http://www.riches-project.eu)**

**[www.digitalmeetsculture.net](http://www.digitalmeetsculture.net)**

**Contact us at:**

**[info@riches-project.eu](mailto:info@riches-project.eu)**

**RICHES on Twitter:**

**#richesEU**

**RICHES on Youtube:**

**[www.youtube.com/richesEU](http://www.youtube.com/richesEU)**





# Europeana Space: spaces of possibility for the re-use of digital cultural content

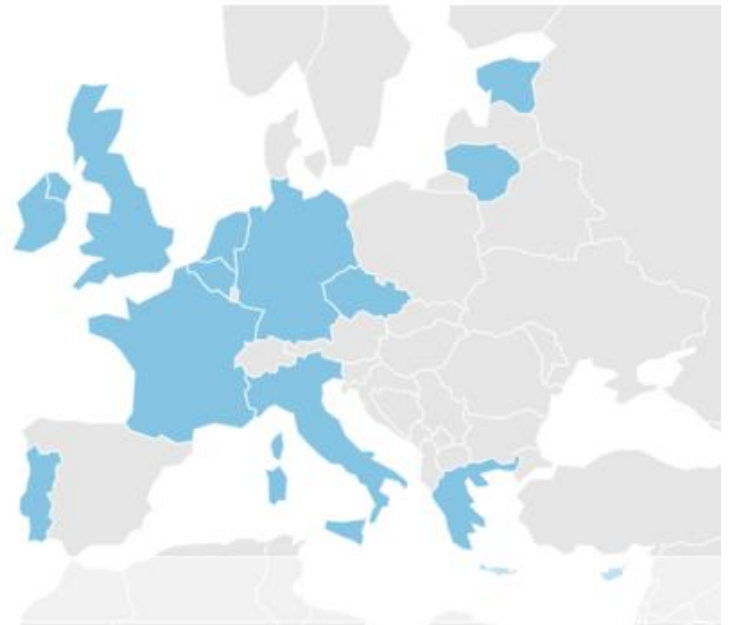
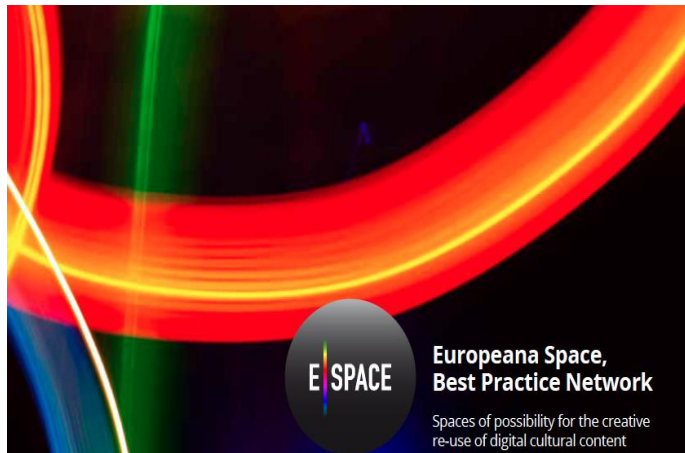
Sarah Whatley - Coventry  
University

Sarah is professor of Dance and Director of Centre for Dance Research (C-DaRE) at Coventry University. As a researcher and dance artist, her research specialises in the interface between dance and new technologies, dance analysis, somatic dance practice and pedagogy, and inclusive dance.



# Europeana Space – unlocking Europe’s rich digital cultural heritage

- The project: 29 partners; 13 countries: SMES, cultural bodies, memory institutions, broadcasters, national cultural agencies, centres of excellence in multidisciplinary research inc







# Scope and project objectives

- To increase and enhance **the use and re-use of digital cultural content by creative industries**, with a special focus on the use of Europeana, by delivering a range of resources and instruments to support their engagement.
- To create **new opportunities for employment and economic growth** in the creative industries; jobs, money, growth.
- The work revolves around **6 pilots** that focus on different areas of the creative and cultural industries: **museums, dance, games, open and hybrid publishing, photography, interactive**

TV.

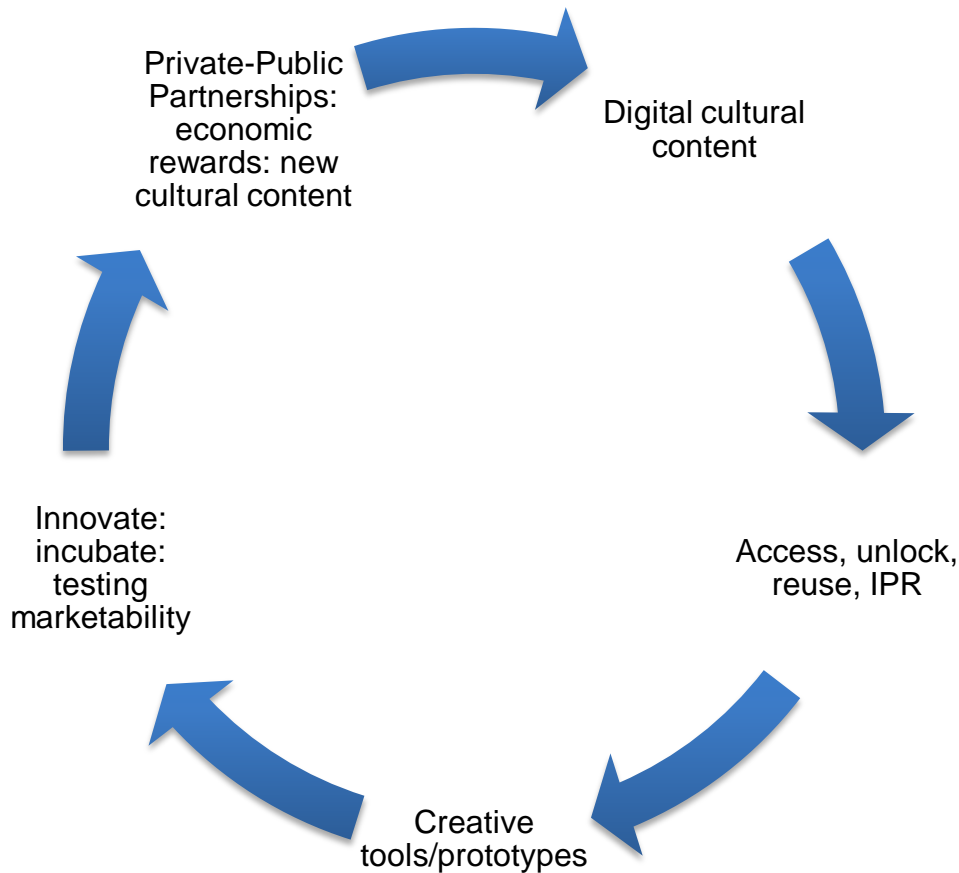


# Project workflow

- New prototype applications arising from the pilots →
- Open access and IPR issues →
- User testing, refining →
- Hackathons – encouraging innovation →
- Business Development workshops →
- Incubation – take to market.



# Europeana Space: a virtuous circle





# Europeana Space next events

Conferences:

10-11 December 2015, Tallinn (Estonia)

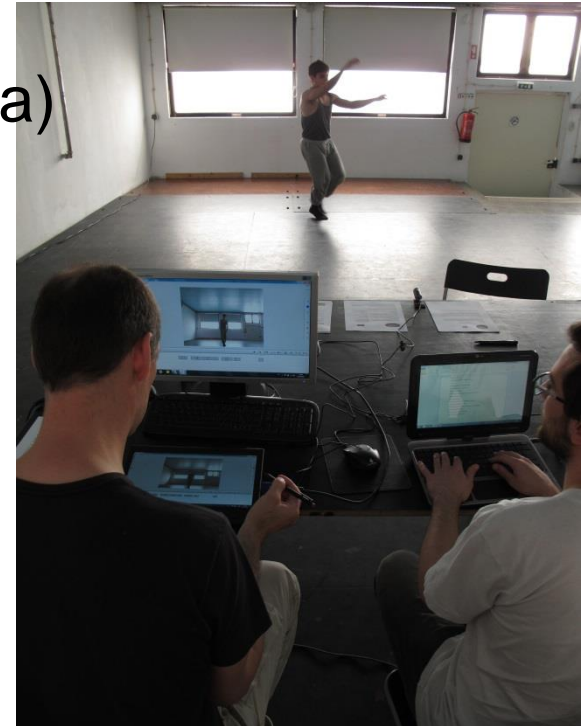
March 2016, Berlin (Germany)

Workshops:

9 October 2015, Pisa (Italy)

22 January 2016, Athens (Greece)

Hackathons and Business modelling workshops: throughout 2015-2016



<http://www.europeana-space.eu>



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

Sy Holsinger, EGI.eu

Sy Holsinger is currently a Senior Policy and Strategy Officer at EGI.eu working on sustainability planning, business model development, market analysis and IT service management implementation. Sy studied Business Communications and Management in the U.S. focusing on project and financial management, business development, marketing and communication messaging. He has been involved in several EU-funded projects covering both management and support roles such as leading the commercial activities in the series of EGEE projects. His previous experiences include the U.S. Air Force and Teaching.

# Table of Contents

- Project's ID card
- Rationale of the project
- Objectives overview
- Consortium overview
- Project workplan
- Where we are
- Outcomes
- Next appointments & Events
- The Roadmap for Citizen Science



# Project ID Card

- CIVIC EPISTEMOLOGIES is a project co-funded by the European Commission under FP7-INFRASTRUCTURE-2013-2
- **Start date:** 1 August 2014
- **Duration:** 16 months (end date: 30 November 2015)
- 12 partners from 11 European countries
- **Website:** [www.civic-epistemologies.eu](http://www.civic-epistemologies.eu)
- **Facebook:** <https://www.facebook.com/civic.epistemologies>
- **Twitter:** @citizen\_CH

# Rationale of the project

## A potential not yet exploited:

- A vast quantity of digital cultural heritage is now ready to be used, but the actual exploitation of these content is lacking dynamism
- Citizen science in digital culture, including crowdsourcing as a specific area of work can unlock this potential
- However, citizens risk to remain disconnected from the digital culture, because of a range of different problems:
  - Connectivity
  - IPR
  - Mentality of the curators



# Objectives overview

## *CIVIC EPISTEMOLOGIES*

### *Development of a Roadmap for Citizen Researchers in the age of Digital Culture*

- CIVIC EPISTEMOLOGIES aims to develop a **Roadmap** which defines the major steps to bring citizens, and their associations, into the research processes of the digital cultural heritage
- The **Pilot and Case Studies** of CIVIC EPISTEMOLOGIES explore new creative approaches for the citizens' engagement with cultural heritage
- **Cooperation and synergies** are established with other initiatives and experiments of co-creation and creative collaboration

# The Roadmap

The Roadmap will include also:

- a study about **business models for the sustainability of e-Infrastructures**, looking at alternative revenue streams that may cover, alone or in a mix model, the costs of a citizen science focused e-Infrastructure.
- a **Strategic Research Agenda** to pinpoint the research activities aimed at the development of citizen science practices in the domain of the digital cultural heritage and humanities, powered by dedicated e-Infrastructure services.

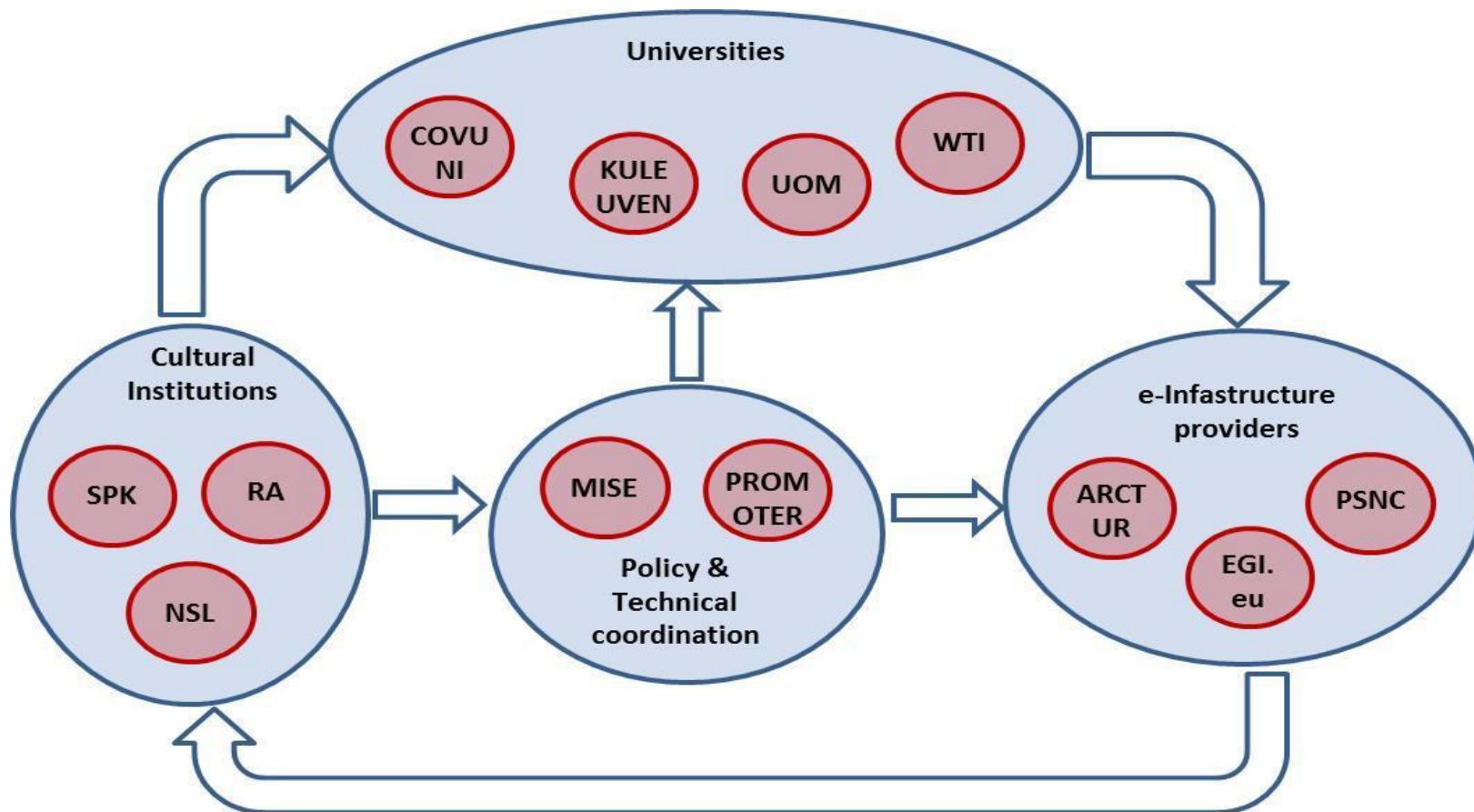


# The Consortium: 12 partners from 11 European countries

Partner	Area of activity	Private/Public	Country
MISE	Ministry of Economic development	Public	Italy
PROMOTER	SME - ICT, web applications, communication	Private	Italy
RA	National Archives	Public	Sweden
SPK	National Foundation - Museums Research	Public	Germany
NSL	National Library	Public	Hungary
KU Leuven	University - Digital Humanities	Public	Belgium
COVUNI	University- Digital Humanities	Public	UK
UOM	University- Digital Humanities	Public	Malta
PSNC	e-Infrastructure provider	Public	Poland
WIT	Research Centre	Public	Ireland
ARCTUR	e-Infrastructure provider	Private	Slovenia
EG.euPartners	Foundation of e-Infrastructure providers	Private	The Netherlands / European

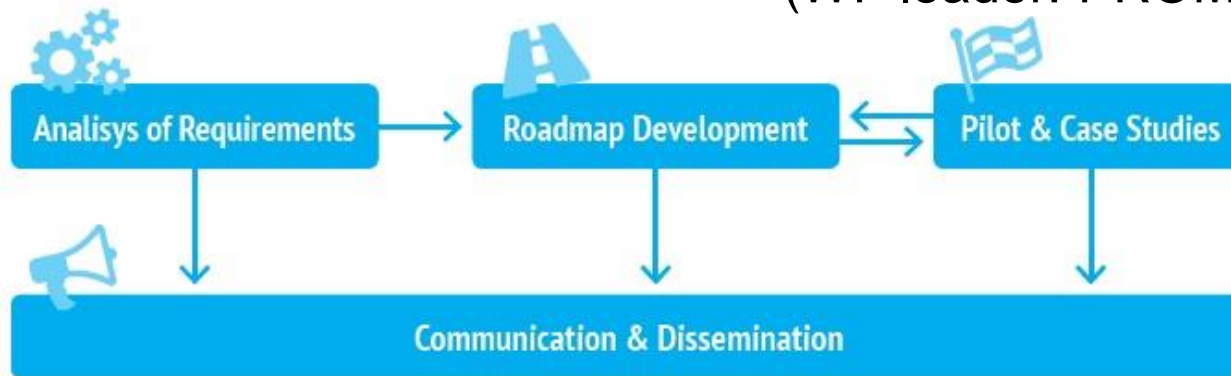
Associate Partners organisation

# Consortium sectors



# Project workplan

- WP1: Project Management (WP leader: MISE)
- WP2: Identification of requirements (WP leader: UoM)
- WP3: Roadmap development (WP leader: RA)
- WP4: Pilot and Case Studies (WP leader: COVUNI)
- WP5: Dissemination, communication and sustainability (WP leader: PROMOTER)



## Where we are

- Kick-off meeting held in Rome on 1-2 September 2014
- 3 focus groups in Stockholm, Malta, Barcelona
- 3 Thematic Workshops in Malta (Requirements), Leuven (Roadmap) and Budapest (CH Institutions)
- Pilot Study on Archaeology in Ireland completed
- 2 Case Studies on 'Hidden' and 'Local' CH in UK completed
- 5,044 accesses to the website until now, constantly growing
- A living network (21 Associate partners, 11 MoU and CA, more under definition)



# Outcomes

- **Roadmap for Citizen Science** downloadable at <http://www.civic-epistemologies.eu/outcomes/roadmap/> (more information on the next slides)
- **Registry of Resources** (tools, workflows, approaches, solutions, demonstrators, and applications useful for supporting the involvement of citizens in the scientific development process) constantly growing available online at <http://www.civic-epistemologies.eu/outcomes/registry-of-resources/>

*your contributions for Roadmap and Registry would very well appreciated*

## ROADMAP FOR CITIZEN SCIENCE

The main objective of CIVIC EPISTEMOLOGIES is to design a sound Roadmap for the implementation of an e-infrastructure:

- to enable creation, access, use and re-use of DCHH content,
- to provide learning resources,
- to provide communication services to multidisciplinary research teams located in different geographic places,
- to enable citizens to participate in a range of research goals established at European level together with cultural institutions and universities.

⇒ Download [here](#) the second version of the Roadmap ⇒

⇒ Download [here](#) the first version of the Roadmap ⇒

Send us your feedback filling in the form below. We will take it into account for the publication of the final version!

Your Name (required)

Your Email (required)

Subject

Your Message

Send

 Citizen Science Registry of Resources 

TOOLS, WORKFLOWS, APPROACHES, SOLUTIONS, DEMONSTRATORS, AND APPLICATIONS USEFUL FOR SUPPORTING THE INVOLVEMENT OF CITIZENS IN THE SCIENTIFIC DEVELOPMENT PROCESS.

[LIST](#) [LOGIN](#)

**FILTER** SELECTED 23 ITEMS OUT OF TOTAL 23.

Add attribute:  
Category

Altes Leipzig  
Web <http://www.altes-leipzig.de/>

Field [humanities](#)

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Citizen Science Center  
Web <http://www.citizen-sciencecenter.com/>

Category [source of information, community portal](#)

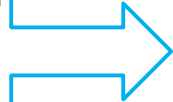
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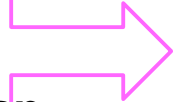
# The Roadmap online

<http://www.civic-epistemologies.eu/outcomes/roadmap/>

Description of the Roadmap



Link to download the Roadmap



Comments and feedback from users



ROADMAP OF EPISTEMOLOGIES

The main objective of CIVIC EPISTEMOLOGIES is to design a sound roadmap for the implementation of an e-Infrastructure:

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Send us your feedback filling in the form below. We will take it into account for the publication of the final version!

Your Name (required)

Your Email (required)

Subject

Your Message

Send

*your contribution would be appreciated...*

*...and will be part of the Final Version of the Roadmap!*



# Contribution to the Registry of Resources

<http://www.civic-epistemologies.eu/outcomes/registry-of-resources/>

1. Via email: info@civic-epistemologies.eu
2. Through the online form:

*Fields required:*

- Name of the item
- Category
- Description
- Field
- Link

**CONTACT US**

Your Name (required)


Your Email (required)

Subject

Your Message

**J E B L**


Enter the code



Citizen Science Registry of Resources

TOOLS, WORKFLOWS, APPROACHES, SOLUTIONS, DEMONSTRATORS, AND APPLICATIONS USEFUL FOR SUPPORTING THE INVOLVEMENT OF CITIZENS IN THE SCIENTIFIC DEVELOPMENT PROCESS.

LIST LOGIN



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**FILTER** SELECTED 15 ITEMS OUT OF TOTAL 15.

Add attribute:

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<input type="button" value="Apply"/>	Category software tool <input style="float: right;" type="button" value="More..."/>

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**Crowdcrafting**

Web <a href="http://crowdcrafting.org">http://crowdcrafting.org</a>	Category service <input style="float: right;" type="button" value="More..."/>
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**DCH-RP Tools Registry**

Web <a href="http://registry.dch-rp.psn.c.pl/">http://registry.dch-rp.psn.c.pl/</a>	Category source of information <input style="float: right;" type="button" value="More..."/>
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**Digital Meets Culture**

Web <a href="http://www.digitalmeetsculture.net">http://www.digitalmeetsculture.net</a>	Category community portal <input style="float: right;" type="button" value="More..."/>
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## Next appointments & events

- **“UNLOCK THE POTENTIAL OF DIGITAL HERITAGE” Final International Conference, Berlin, 12-13 November 2015**
- *Third party events where CIVIC EPISTEMOLOGIES will participate:*
  - **Digital Heritage, Granada 28 September - 2 October 2015**
  - **DCDC - Discovering Collections Discovering Communities Conference, Manchester 12-14 October 2015**
  - **EGI Community Forum 2015, Bari 10-13 November 2015**

Media Partner



Thank you!!!

[www.civic-epistemologies.eu](http://www.civic-epistemologies.eu)

<http://www.digitalmeetsculture.net/heritage-showcases/civic-epistemologies/info@civic-epistemologies.eu>

### Contacts

**Mauro Fazio**, Project Coordinator, [mauro.fazio@mise.gov.it](mailto:mauro.fazio@mise.gov.it)

**Antonella Fresa**, Technical Coordinator, [fresa@promoter.it](mailto:fresa@promoter.it)

**Manuele Buono**, Project Assistant, [buono@promoter.it](mailto:buono@promoter.it)



PREFORMA

# PREFORMA: PREservation FORMAts for culture information/e- archives

Antonella Fresa, Technical Coordinator, Promoter  
Srl

Börje Justrell, Project Coordinator, Riksarkivet  
Since 1989, Borje has been responsible for technical matters at the National Archives. He has been teaching archival science at the University of Stockholm for many years and also been a member of international committees within the archivists' professional association, ICA. He has been representing Sweden in expert groups on digitisation and digital preservation within the European Commission and working in a number of European projects like Minerva, MinervaPlus, Linked Heritage, DC-NET and DCH-RP.



PREFORMA

# Project Identity Card

- PREFORMA is a **Pre-Commercial Procurement** project co-funded by the European Commission under FP7-ICT Programme.
- **Start date:** 1 January 2014
- **Duration:** 48 month (end date: 31 December 2017)
- **Total budget for the procurement:** 2.805.000 EUR
- **Website:** [www.preforma-project.eu](http://www.preforma-project.eu)
- **Partners**
  - National Archives of Sweden, Project Coordinator
  - Promoter Srl, Technical Coordinator
  - Packed Vzw
  - Fraunhofer IDMT
  - University of Skovde
  - University of Padua
  - Netherlands Institute for Sound and Vision
  - Royal Institute for Cultural Heritage
  - Greek Film Centre
  - Local Government Management Agency
  - Prussian Cultural Heritage Foundation
  - Girona City Council
  - Estonian Ministry of Culture
  - National Library of Sweden



PREFORMA

# Pre-Commercial Procurement

- Pre-Commercial Procurement (PCP) is a competition-like procurement method, which enables public sector bodies to engage with innovative businesses and other interested parties in development projects to arrive at innovative solutions that address specific public sector challenges and needs.
- These innovative solutions are created through a phased procurement of development contracts to reduce risk.
- Pre-Commercial Procurement is becoming more and more common within the public sectors of the European Union.



PREFORMA

# Project Concept

- Memory institutions are facing **increasing transfers** of electronic documents and other media content for long term preservation.
- Data content are normally stored in specific **file formats** for documents, images, sound, video etc., and these files are usually produced by software from different vendors.
- Even if the transferred files are in standard formats, the correct **implementation of standards** cannot be guaranteed:
  - The software used for the production of the electronic files is not in control neither by the institutions that produces them nor by the memory institutions.
  - Conformance tests of transfers are done by memory institutions, but are not totally reliable; different software for testing could end up in different results.
- This poses problems in **long-term preservation**. Data objects meant for preservation, passing through an uncontrolled generative process, can jeopardise the whole preservation exercise.



PREFORMA

# Project Aim and Objectives

- Project's objectives
  - To implement **good quality files** in various standard formats for **preserving content** in a long term.
  - To give memory institutions **full control** of the process of conformity tests of files to be ingested into archives.
- Objectives of the Pre-Commercial Procurement
  - To develop an **open source software** for the management of the whole **conformance test** process, supporting a range of standards, addressing the needs of any memory institution or other organization with a preservation task.





PREFORMA

# The PREFORMA Challenge

- Develop an **open source conformance checker** that:
  - checks if a file complies with standard specifications
  - checks if a file complies with the acceptance criteria of the memory institution
  - reports back to human and software agents
  - perform simple fixes
- Establish an ecosystem around an **open source reference implementation** that:
  - generates useful feedback for those who control software
  - advances improvement of the standard specification
  - advances development of new business cases for managing preservation files



PREFORMA

# Standard specifications

Content type	Standard specifications
TEXT	<b>PDF 1.7</b> (ISO 32000-1:2008) <b>PDF/A-1</b> (ISO 19005-1:2005) <b>PDF/A-2</b> (ISO 19005-2:2011) <b>PDF/A-3</b> (ISO 19005-3:2012)
IMAGE	<b>TIFF/EP</b> (ISO 12234-2:2001) <b>TIFF/IT</b> (ISO 12369:2004)
AUDIOVISUAL	<b>MKV</b> ( <a href="http://www.matroska.org/technical/index.html">http://www.matroska.org/technical/index.html</a> ) <b>Ogg</b> ( <a href="https://xiph.org/ogg/doc/">https://xiph.org/ogg/doc/</a> ) <b>Lossless JPEG2000</b> (ISO/IEC 15444-1:2004) <b>Lossless FFV1</b> <a href="http://www.ffmpeg.org/~michael/ffv1.html">http://www.ffmpeg.org/~michael/ffv1.html</a> <b>Lossless Dirac v2.2.3</b> ( <a href="http://diracvideo.org/download/specification/dirac-spec-latest.pdf">http://diracvideo.org/download/specification/dirac-spec-latest.pdf</a> ) <b>Linear PCM</b> (IEC 60958-1 ed3.1 Consol. with am1: 2014)



PREFORMA

# Open Source approach

- PREFORMA is following an **open source approach**, with the aim of establishing a sustainable research and development community comprising a wide range of contributors and users from different stakeholder groups.
- The open source nature ensures long-term availability of the software, beyond the memory institutions and suppliers involved in PREFORMA.
- Licenses
  - All software developed during the PREFORMA project will be provided under two specific open source licenses: “**GPLv3 or later**” and “**MPLv2 or later**”.
  - All digital assets developed during the PREFORMA project will be provided under **Creative Commons CC-BY v4.0**, and in open file formats (SOU 2009:86).



PREFORMA

# Target users and stakeholders

- **Memory institutions** and cultural heritage organisations, which are involved in (or planning) digital culture initiatives.
- **Developers** contributing code for the PREFORMA open source tools.
- **Research organisations** providing technical advice to cultural stakeholders.
- **Standardisation bodies** maintaining the technical specifications of the preservation formats covered in PREFORMA.
- **Funding agencies**, such as Ministries of Culture and national/regional administrations, that own and manage digitisation programmes and may endorse the use of the PREFORMA tools in the digitisation process.
- Other **projects** in the digital cultural heritage domain.



PREFORMA

# PREFORMA Suppliers

1. veraPDF Consortium (led by Open Preservation Foundation and PDF Association) – The PDF/A conformance checker accepted industry-wide (PDF/A)
2. Preservica - Digital Preservation Validation Framework (PDF/A)
3. EasyInnova – Digital Preservation Formats Manager (TIFF)
4. LIBIS - LIBIS/Aware checker for TIFF (TIFF)
5. MediaArea – PREFORMA MediaConch - CONformance CHecking for audiovisual files (MKV|FFV1|LPCM)
6. UCL - OpenMediaCheck (MKV|JPEG2000|LPCM)

- In red those who have been selected for the prototyping phase



PREFORMA

- Since July 2015 the **first releases of the Conformance Checkers** are available for download in the PREFORMA **Open Source Portal**  
<http://www.preforma-project.eu/open-source-portal.html>
- An **Open Source Workshop** is being organised on **7 April 2016 in Stockholm**, in connection with the first Prototype Demonstration.

# First Results

The screenshot shows the PREFORMA Open Source Portal website. At the top left is the PREFORMA logo. To its right are the European Union flag and the Seventh Framework Programme logo. A text box on the right states: "This project has received funding from the European Union's Seventh Framework Programme under grant agreement no 618566". Below the logos is a navigation menu with links: HOME, PROJECT, PARTNERS, TENDER, ACTIVITIES, OPEN SOURCE PORTAL, COMMUNITY, DOWNLOAD, CONTACTS. The main content area is titled "OPEN SOURCE PORTAL" and contains a paragraph: "This section provides an overview and references to each open source project that is currently working in the prototyping phase. It acts as an entry point for all interested suppliers and memory institutions allowing easy navigation to all externally hosted resources." Below this are three project entries: "PROJECT N. 1. VeraPDF: THE PDF/A CONFORMANCE CHECKER ACCEPTED INDUSTRY-WIDE" by Open Preservation Foundation, PDF Association, Digital Preservation Coalition, Dual Lab, KEEP SOLUTIONS; "PROJECT N. 2. DPF MANAGER: DIGITAL PRESERVATION FORMATS MANAGER" by Easy Innova; and "PROJECT N. 3. MEDIACONCH - CONFORMANCE CHECKING FOR AUDIOVISUAL FILES" by MediaArea.net. On the right side, there is a sidebar titled "PREFORMA OPEN SOURCE PROJECTS" listing "PDF/A CONFORMANCE CHECKER", "DPF MANAGER", and "MEDIACONCH", with a link to "View all the successful proposals that participated to the design phase". Below that is a section "OTHER EXISTING TOOLS" listing "ARCHIVEMATICA", "JPYLYZER", and "MEDIA FILE CHECKER".



PREFORMA

# How to contribute

- PREFORMA software development is carried out in a **collaborative environment** with memory institutions and experts.
- We are looking for memory institutions (or other organisations with a preservation task) willing to participate in the testing phase, by:
  - **Providing datasets** to be used to test the prototypes that are being developed by the PREFORMA suppliers (including valid/conform files as well as corrupted files)
  - **Testing the software** and sharing with us the results of such tests
  - Helping us in **defining the policies** to be checked, to refine and improve the conformance checkers



PREFORMA

## PREFORMA Website

[www.preforma-project.eu](http://www.preforma-project.eu)

The screenshot shows the homepage of the PREFORMA website. At the top, there is a navigation menu with links for HOME, PROJECT, PARTNERS, TENDER, EVENTS, OPEN SOURCE PORTAL, COMMUNITY, DOWNLOAD, and CONTACTS. Below the menu, there is a large banner area with a central call to action: "VISIT THE OPEN SOURCE PORTAL" and "Give your contribution to the prototyping phase". To the right, there are sections for "UPCOMING EVENTS" featuring the "ICA 2015 CONFERENCE" and "ARCHIVES: Evidence, Security and Civil Rights". Below this, there is a section for "PREFORMA, FUTURE MEMORY STANDARDS" with a brief description of the project. At the bottom, there are "NEWS FROM THE BLOG" with a featured article titled "PREFORMA PRESENTED AT IBC 2015".

# Follow us!

The screenshot shows the PREFORMA Blog page. The header includes the date "Friday, 18 September 2015" and a navigation menu with links for WEBSITE, PROJECT, PARTNERS, TENDER, ACTIVITIES, OPEN SOURCE PORTAL, COMMUNITY, DOWNLOAD, and CONTACTS. Below the header, there is a login section with fields for Username and Password, and a "LOGIN" button. The main content area features a "PRESENTATION OF THE PROJECT" section with a graphic of a folder and a document, and a section titled "PREFORMA, FUTURE MEMORY STANDARDS" with a detailed description of the project. There is also an "IN FOCUS" section with a photo of a group of people and a caption about "Open Source Meetup at IBC in Amsterdam". The right sidebar contains "CONTACTS" information, a "COORDINATOR" section with the Riksarkivet logo, and a "PARTNERS" section with logos for PACKED and Fraunhofer.

## PREFORMA Blog

[www.digitalmeetsculture.net/preforma](http://www.digitalmeetsculture.net/preforma)

**PROMOTER**  
 Information technology, research and innovation  
[www.promoter.it](http://www.promoter.it)

DH2015 Granada, 1 October 2015

Media Partner

**DIGITAL MEETS CULTURE**.net  
[www.digitalmeetsculture.net](http://www.digitalmeetsculture.net)





**PHOTOCONSORTIUM:  
International Association  
for the promotion of Photographic Heritage**

Fred Truyen, KU Leuven

Fred Truyen is programme director for the MA in Cultural Studies at the Faculty of Arts of Katholieke Universiteit Leuven. He publishes on E-Learning, ICT Education, Digitisation and Epistemology.

He is in charge of CS Digital, the mediaLab of the Institute for Cultural Studies, and is involved the digitisation and re-use of Cultural Heritage.



# Building on EuropeanaPhotography experience

Photoconsortium builds upon the legacy of EuropeanaPhotography (2012-2015) and makes optimal use of the expertise, network, know-how and tools that were produced in the context of this project. Joining Photoconsortium equals joining a network of top class partners from the field of (historical) photography, and gaining access to specialized services.



*Boris III of Bulgaria and Giovanna of Italy – the celebration of the royal wedding in Sofia.*

© NALIS (Bulgaria)



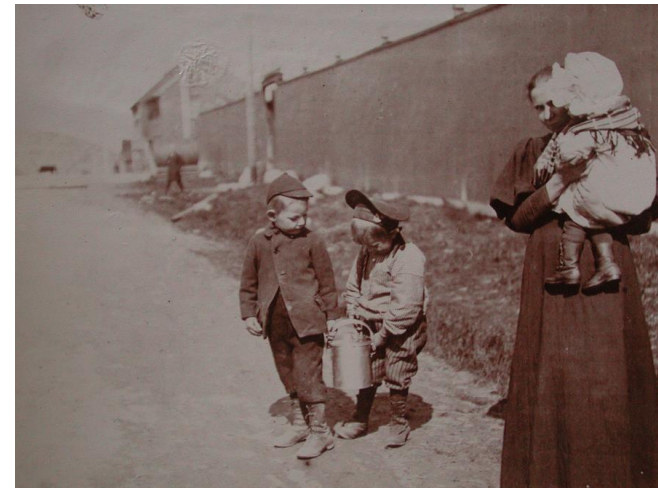
## Mission and Objectives

The purpose of the association is the promotion and furtherance of the culture of photography, as well as the validation of and responsibility towards the preservation of photographic heritage. To achieve these statutory goals, PHOTOCONSORTIUM will:

- promote, organize and manage conferences, exhibitions, awards and training courses
- contribute to/curate/issue publications
- devise, develop or advise on dissemination strategies, community building, audience-specific communication and interactive user experiences

related to photography, digital cultural heritage, digitization practices, digital archives/databases, metadata standards, intellectual property rights.

The association will, furthermore, participate and promote/support the participation of its members, in new projects and initiatives, including but not limited to the programs of the European Commission and either or not involving (non-consortium) third parties.



Elena of Savoy, Queen of Italy | Bodø (Norway), 1898  
Aristotype  
A street in Norwegian Bodø.  
Collection: Historical Fund.  
Journey of Vittorio Emanuele III aboard the yacht Jela 1898



# Mission and Objectives



Tage Christensen | Gammel Strand (Denmark), 1930  
Fish stalls at Gammel Strand.



## Network and Members

- PHOTOCOSORTIUM has been established as a non-profit association with a democratic structure, political independence and unlimited duration. It is governed by a general assembly, steering committee and executive council, and currently headed by president Prof. Fred Truyen (KU Leuven, Belgium - former coordinator of EuropeanaPhotography), and vice-president Dr. Antonella Fresa (Promoter s.r.l., Italy - former technical coordinator of EuropeanaPhotography).
- PHOTOCOSORTIUM aims to enlarge its existing network to a wider community of people and organizations interested in the valorization of European photographic heritage. Both natural and legal persons, public or private bodies, companies and associations from all over Europe are invited to join the association and to share their experiences, to contribute their content, to propose new initiatives, exploit existing expertise and contribute knowledge in the field of photography.



Gaston Paris | location unknown (France), 1935 Young women at a fun fair.

**Media Partner**

DIGITAL MEETS CULTURE .net  
www.digitalmeetsculture.net



## All our Yesterdays

One of EuropeanaPhotography's most striking results, is the exhibition All Our Yesterdays: compiled from over 100 early images from partner collections, and devised as a showcase for their early photographic treasures.

People's everyday life, joys and sorrows, stories and dreams turn out to have been strikingly similar to ours. To re-build these stories through a kaleidoscope of early photographic masterpieces, All Our Yesterdays presents the most exquisite, often unseen, images of a world in change, demonstrating the mastery and art of the very first photographers.



Pawet Mussil, Krakow, Poland  
1932 Silver Gelatin Print  
Zofia Mussil

# EuropeanaPhotography's Legacy

PHOTOCONSORTIUM will henceforth provide and disseminate the following tools that were developed within its root-project:

- Digitization guidelines and factsheets
- Multilingual vocabulary in 16 languages
- EP MINT tool customized for photography, providing mapping and ingestion services
- IPR guidebook and assistance



Moschee in Konstanza. Mosque in the city of Konstanza. Romania, 1910s-1920s, Carl Simon



# EuropeanaPhotography's Legacy

PHOTOCONSORTIUM represents a hub of expertise and knowledge on, among others, the following topics:

- digitization
- aggregation of digital content (to Europeana and other portals)
- metadata standards
- indexing
- cataloguing
- the development/implementation of controlled vocabularies
- best practices for the management of digital archives

This expertise and knowledge will be the core assets of the association, and its chief catalyst for generating activities, providing services, organizing training/educational programs and participating in new research projects.



## Expertise and Advocacy on IPR

Photoconsortium delivers expertise and advocacy on IPR-related issues for Heritage Photography in the Digital realm:

- Rights labelling (advise on Europeana and Creative Commons labels)
- Rights protection
- IP-based business models in the evolving Creative Industries environment
- Technological solutions for IPR in Photographic data
- Advice on Public Domain assessment and Orphan Works



picture by Opensourceway (CC BY-SA 2.0)



## Next appointments

- 13 October 2015: participation to **JPEG Committee workshop on IPR and Security** in Brussels
- 14 October 2015: participation to **DCDC2015 conference** in Manchester
- 3-4 December 2015: **PHOTOCONSORTIUM Annual Conference** in Leuven

**“Photographic Heritage and the Creative Industries”**

Joined to

the **Pre-event of the Europeana Space Photography Hackathon**

and to the **General Assembly** of the members



The screenshot shows the website's header with the logo and navigation menu. The main banner features a historical photograph of two men in a boat with the text 'International Association for the promotion of Photographic Heritage'. Below this, there are two news articles. The first article is titled 'Photoconsortium participates in JPEG workshop on Privacy and Security' and includes a grid of JPEG logos with various parameters. The second article is titled 'Photoconsortium at Digital Heritage 2015 in Granada, 1st October 2015' and includes a photograph of a historic building in Granada.

PHOTOCONSORTIUM Home Association Archives Blog Services "All Our Yesterdays"

International Association  
for the promotion of Photographic Heritage

LATEST NEWS

**Photoconsortium participates in JPEG workshop on Privacy and Security**  
Posted on 18th September 2015



**Photoconsortium at Digital Heritage 2015 in Granada, 1st October 2015**  
Posted on 18th September 2015

On the 13th of October 2015, the Joint Pictures Experts Group (JPEG) will organise a workshop in Brussels on privacy and security support for image data. Privacy and security is becoming steadily more important seen the fact that image collections are increasingly more stored in distributed and

image source: Internet. PHOTOCONSORTIUM will be presented in a panel session entitled "From Digitization to Preservation, Creative Re-use of Cultural Content and Citizen Participation" at the important event DIGITAL HERITAGE 2015 in Granada (28 September – 2 October 2015). The panel,