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Statement of originality

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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1 EXECUTIVE SUMMARY

This deliverable, coordinated by i2cat, describes the full set of AthenaPlus creative tools pilots, created by the communities of users involved on the pilots. The deliverable includes as well the most important requirements identified by the target groups, extracted from the interaction between the users and tools made available through AthenaPlus.

The contents of this document are structured in two main sections. First, section four includes a detailed description of the set of AthenaPlus pilots with MOVIO Digital Exhibitions, CityQuest, SchoolTrip, and the eCultureMap 2.0. The pilot with Dédale's Urban Explore creative tool is not included in this document, as it has already been covered in D6.2. Some basic information is provided for each pilot produced by the community of users, plus a brief abstract and a few screenshots. For the second half of the document, section five provides a depiction of the most relevant requirements uncovered by the piloting activities and implemented in the creative tools. In this sense, this section constitutes an exposition of the value that the interaction with the communities of users has added to the creative tools, by detailing the many specific software functionalities, design elements, usability improvements, and assorted desiderata, that have been added to enrich the creative tools between the first and the final releases. These are not explained from a software development perspective, as the imagined behaviour of an archetypal user, but rather as needs, wishes and desires contributed by the communities of users themselves.

2 INTRODUCTION

The creation of ICT solutions for the reuse of cultural heritage elements made available through the Europeana portal is one of the main expected outputs of the AthenaPlus project. As a result of this commitment, a series of software tools have been developed in the course of AthenaPlus: these are MOVIO Digital Exhibitions, Urban Explore, CityQuest, SchoolTrip, and the eCultureMap 2.0.

Nevertheless, we must acknowledge that the production of a software tool without meaningful interaction with its expected users would be woefully incomplete: hence, WP6 was entrusted with the task of involving the envisioned users of the AthenaPlus tools in creating test pilots, understood as specific user-generated instances of work with the creative tools, and providing their feedback on how these tools could be improved and extended.

The outcome of this exercise, carried out over the course of eighteen months and involving hundreds of users, is contained in four summative reports. D6.2 is a separate stand-alone document which reports all the information regarding the Urban Explore creative tool, comprising the description of the software tool, the complete piloting trajectory, and the evaluation activities carried out. D6.3 includes an analysis of the evaluation data generated at the pilot actions, and an overall user assessment of the creative tools. D6.4 contains an analysis of the best practices for creative applications allowing the reuse of cultural resources, taking as a basis the insights contributed by the communities of users throughout the piloting trajectories, as well as the results of dedicated research efforts. And finally, the present document, D6.5 encompasses the description of the pilots themselves, along with an analysis of the additional requirements for the creative tools that were generated by the communities of users in the process of producing the pilots.

3 THE ATHENAPLUS COMMUNITIES OF USERS

3.1 User profiles and communities

Involving users in testing and giving feedback on the tools has as a result the creation of a community of users. For the purposes of the AthenaPlus project, we define a community of users as a group of people with different socioeconomic profiles, professional backgrounds and requirements who share a common interest in using the AthenaPlus creative tools.

To operationalize this definition in a way in which social research is made possible, these different groups of stakeholders that make up the communities of users have been clustered in three sets:

Pilot-running professionals	External professionals	End users
• This set includes all professionals associated with the AthenaPlus partner organisations. The profile of these individuals is that of highly trained culture heritage professionals, who will dedicate a significant amount of time and effort testing and working with the creative tools as part of their commitment to the project.	• This set includes all professionals not formally involved with organisations that take part in the AthenaPlus project. The profile of these individuals is that of an experienced professional in the fields of cultural heritage, the application of cultural heritage to the purposes of tourism, and education.	• This set includes all individuals that experience the tool from an 'end result' perspective, without any awareness of the backend, and regardless of profile. This is the most diverse group of stakeholders, as it involves all sorts of visitors to museums and other GLAM institutions. It includes families with children, amateur art lovers, young students, etc.

The table at the beginning of the next page lists the number of users from the pilot-running, external professionals and end user profiles that have been involved in the creation of the pilots with each of the creative tools. The group of pilot-running professionals refers to the professionals within the AthenaPlus consortium who have devoted time, effort and resources to develop the showcase projects reported in this deliverable. The external professionals group encompasses all individuals from the fields of cultural heritage, tourism and education not formally affiliated with the AthenaPlus project, which worked on their own creative projects with the software tools and or gave rich feedback on ways to enhance them. For further clarity and convenience, this group is subdivided in the table below between those who created their own projects (usually as a follow-up result of training activities) and those who gave feedback (most often in the framework of piloting activities). The last group is composed of end users, whose feedback was instrumental in improving and enriching the pilots described in this deliverable.

The members of these groups constitute the AthenaPlus communities of users, the subsample of envisioned future users of the finished AthenaPlus creative tools which have been effectively involved in pilot creation activities in the framework of the AthenaPlus project.

	MOVIO Digital Exhibitions	City Quest	School Trip	eCultureMap 2.0	TOTAL
Pilot-running professionals	43	14	0	7	64
External professionals – pilot makers	62	2	2	0	66
External professionals – feedback providers	38	6	18	0	62
End users	146	18	25	0	189
TOTAL	289	40	45	7	381

It should be noted, though, that the total number of users involved in all kinds of testing and piloting activities throughout the AthenaPlus project is a different, much higher number, as this figure would also include the numbers of external professionals and end users which were involved in pilot phase II but chose not to provide formal feedback at the end of these sessions, as well as the untracked users that have accessed the showcase projects with the creative tools[1].

3.2 Managing user involvement: the two kinds of pilot projects

In the course of the piloting activities, two kinds of pilot projects have been produced by the communities of users:

- On the one hand, we have pilots created by GLAM institutions that are partners of the AthenaPlus project. These pilots have been subject of a full piloting trajectory, in which feedback has been generated to be used for the iterative improvement of the creative tools.

- On the other, pilots created by the communities of users, by institutions that have not been co-funded by the AthenaPlus project. These pilots are the result of the efforts undertaken within the AthenaPlus project to disseminate the creative tools and train the stakeholders. The legal basis for and documentary evidence of the involvement of these institutions lays in the cooperation agreements signed by those institutions with the AthenaPlus project.

[1] Additional information on these user involvement activities can be found in D6.3, the Report with the assessment of the pilot actions.

4 THE ATHENAPLUS PILOTS

The following section contains the full list of finished pilots, created by the communities of users, with the MOVIO Digital Exhibitions, CityQuest, SchoolTrip, and the eCultureMap 2.0 creative tools.

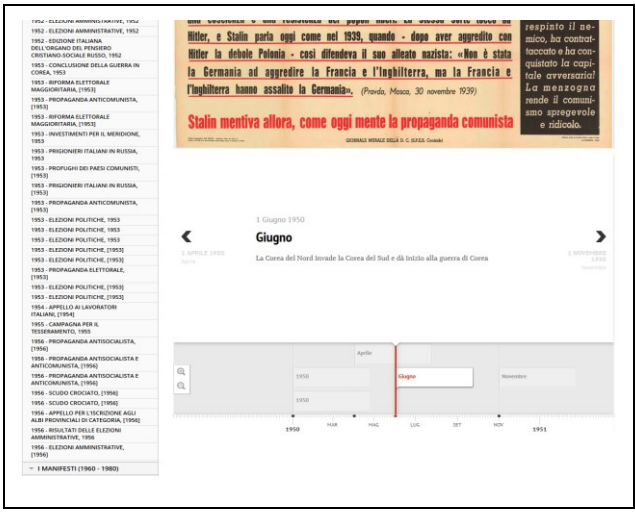
4.1 MOVIO Digital Exhibitions

MOVIO is a multifunction platform for the creation of multimedia exhibitions and storytelling as well as exhibition guides and mobile applications. It is based on open source technology, can be easily integrated with existing platforms and complies with access standards. MOVIO-HUB is the catalogue, which harvests all MOVIO exhibitions (real or virtual) and it is not limited only to MOVIO installations.

This tool empowers museum curators to create virtual exhibitions and digital extensions of real exhibitions. It guides the visitor by means of theme pages, and enables the publication of multimedia galleries, timelines, thesauri, ontologies creation, slide-shows and interactive geographical maps, personalized content fruition; it is Europeana-plugged, it enables the building of customized modules (importing local DBs).

MOVIO enables the use and reuse of cultural resources, using the storytelling paradigm natively designed for mobile communications. MOVIO's vision is to allow all Europeana content providers, to publish exhibitions using their ready published resources through Europeana in a narrative paradigm.

4.1.1 *Political images: The Cold War through Christian Democrat posters in Italy*

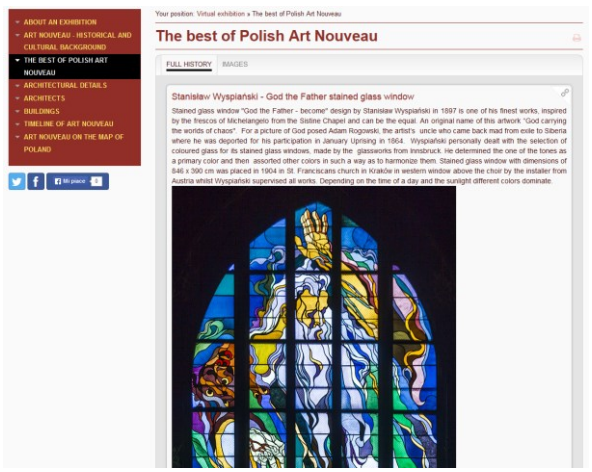


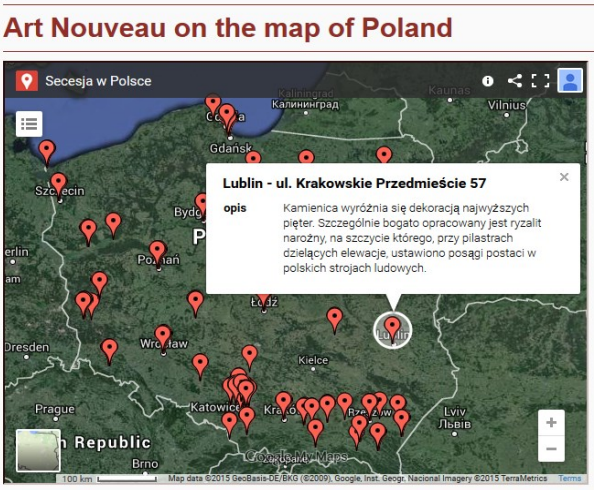
Pilot title	Political images: The Cold War through Christian Democrat posters in Italy
Short description	This digital exhibition is dedicated to the Cold War era images, a period that changed the Europe and its culture forever. The posters preserved by the Istituto Sturzo have been produced by the Christian Democrat party, the political movement that had the majority and governed between 1945 and 1992; therefore they represent the perspective of a country included in the western area and the contrast that characterized its internal and international politics for more than 40 years. Political posters allow analysing political strategies, propaganda campaigns, and persuasion policies exactly on account of their being non-conventional, rarely used documentary sources as well as of their dual nature, i.e. their being comprised of both language and graphics components. Moreover, they can provide an opportunity for identifying the relationships between "propaganda" experiences as developed in the individual national contexts and allow bringing forward the identification of European cultural heritage.
Pilot institution	ILS, Luigi Sturzo Institute, Rome (Italy)
Curator team	Jacopo Algozzino, Patrizia Severi
Demonstrated modules/functionalities	Timeline, Galleries, Storyteller
Language	Italian, English
URL	http://54.247.69.120/build/movio/sturzo/

4.1.2 *(Tour)ism in Sabina: Cottanello, Fara in Sabina, Toffia*

Pilot title	(TOUR)ismo in Sabina: Cottanello, Fara in Sabina, Toffia
Short description	This exhibition demonstrates the tourism use case by using Europeana-compliant cultural heritage items to create a site with tourist information (sites, locations, itineraries) for three villages in the Italian region of Sabina: Cottanello, Fara in Sabina, and Toffia.
Pilot institution	ICCU, Istituto Centrale per il Catalogo Unico, Rome (Italy)
Curator team	Maria Teresa Natale, Roberta Stracqualursi
Demonstrated modules/functionalities	Ontology builder, Storyteller, Google Maps, Hotspot, Thesauri, Tourist operators
Language	Italian
URL	http://54.247.69.120/build/movio/iccu/

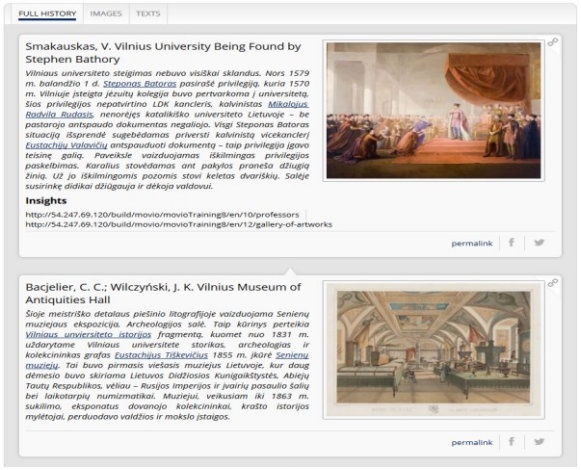
4.1.3 *Art Nouveau Architecture in Poland*





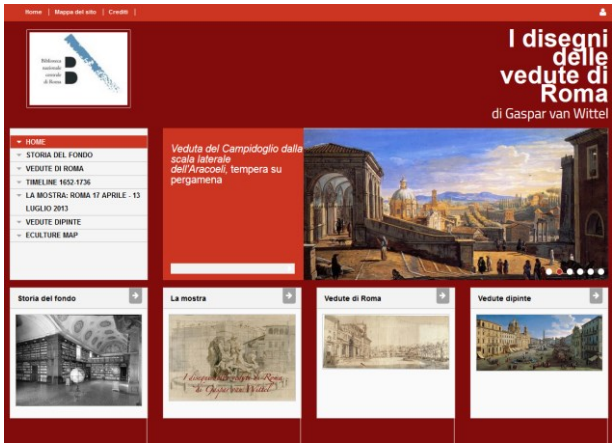
Pilot title	Art Nouveau Architecture in Poland
Short description	This exhibition presents Art Nouveau architecture in Poland, its diversity, motifs, details and different techniques used to ornate buildings.
Pilot institution	ICIMSS, International Centre for Information Management Systems and Services, Tórun (Poland)
Curator team	Marek Wieczorek, Piotr Kożurno, Maria Śliwińska, Aleksandra Dudek
Demonstrated modules/functionalities	CMS, Storytelling, Timeline, Imageslider, Map
Language	English, Polish
URL	http://54.247.69.120/build/movio/movioTraining6/

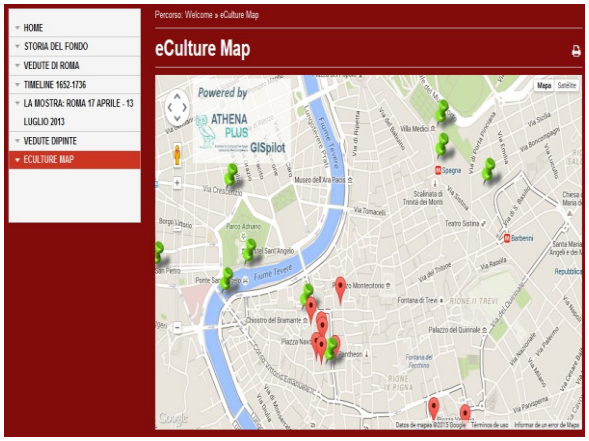
4.1.4 *Architecture and the Visual Arts at the Old University of Vilnius*



Pilot title	Architecture and Visual Arts at the Old University of Vilnius
Short description	This exhibition seeks to highlight the influence Vilnius University had on the development of professional Lithuanian architecture and visual arts until the WW2 by presenting artists who work and studied at the Old University of Vilnius and their works.
Pilot institution	LAM, Lithuanian Art Museum, Vilnius (Lithuania)
Curator team	Donatas Snarskis, Ernestas Adomaitis, Danutė Mukienė, Loreta Uzdraitė, Povilas Korla, Laimutė Strolytė, Skirmantė Kvietkauskienė
Demonstrated modules/functionalities	Ontology builder, Timeline, Galleries, Image HotSpot, Storyteller, Maps
Language	English, Lithuanian
URL	http://54.247.69.120/build/movio/movioTraining8

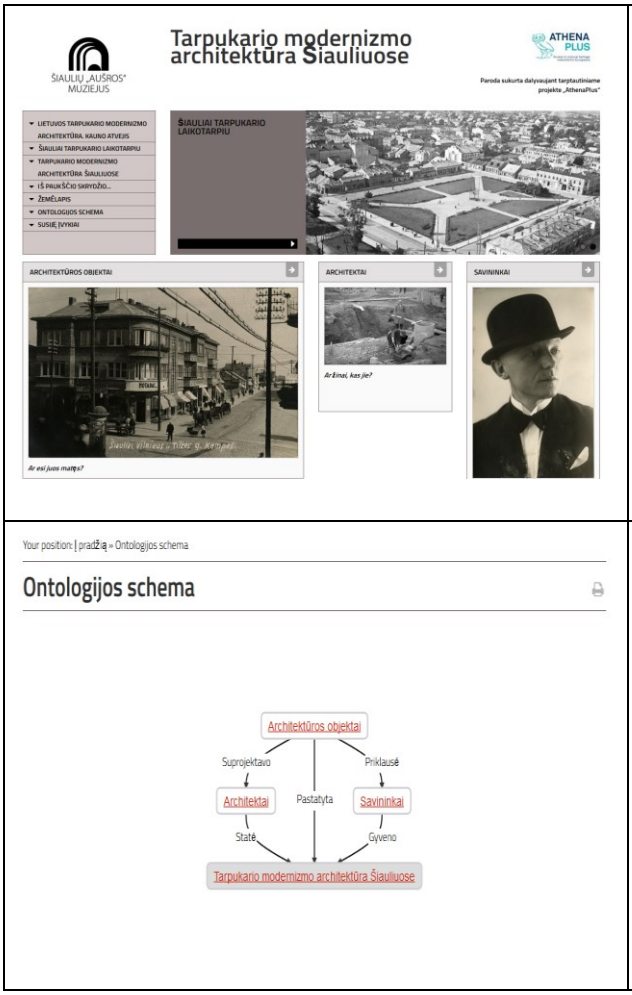
4.1.5 *The Views of Roma of Gaspar Van Wittel*





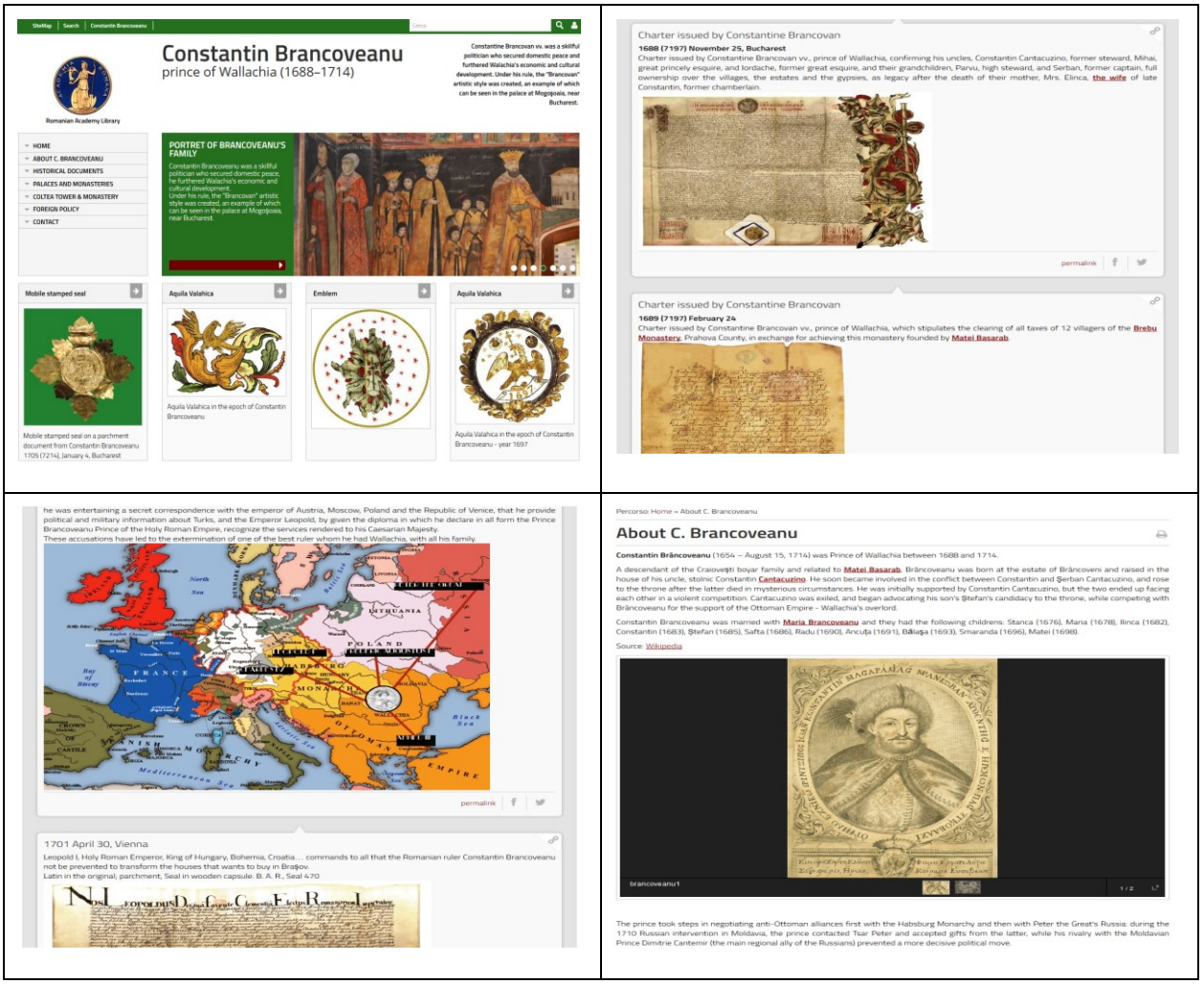
Pilot title	The Views of Roma of Gaspar Van Wittel: the Vedutes
Short description	This exhibition contains nineteen preparatory drawings by the Dutch artist Gaspar van Wittel, collectively known as the 'Vedutes', representing exclusively views of Rome. These drawings date back to the eighties of the seventeenth century, and give us a glimpse of the eternal city of that period. One of the Vedutes, The View of the Colosseum, was reported missing since 1972, but was later found in the exhibition of 2013.
Pilot institution	BNCR, The National Central Library of Rome, Rome (Italy)
Curator team	Marina Battaglini, Paola Puglisi
Demonstrated modules/functionalities	Timeline, Galleries, Image HotSpot, Storyteller, Maps, eCultureMap 2.0
Language	Italian
URL	http://54.247.69.120/build/movio/bncr/

4.1.6 *The Modernism Architecture of Šiauliai in 1930‘s*



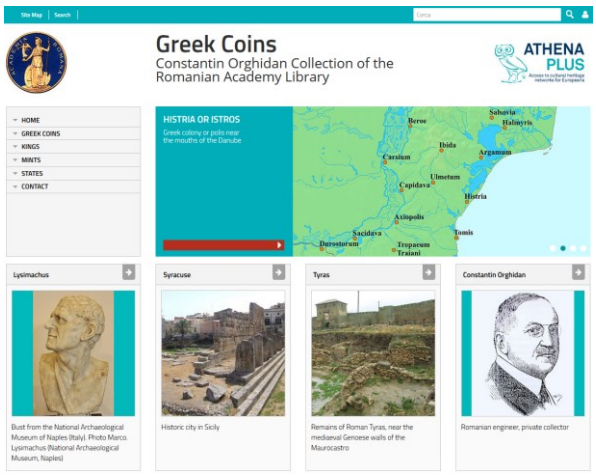
Pilot title	Tarpukario modernizmo architektūra Šiauliuose
Short description	The digital exhibition introduces the 1930‘s architectural heritage of Šiauliai, reveals its meaning and contributes to the strengthening of the city‘s historical and cultural identity. Historical images, personalities, who owned the buildings and the architects, who created the face of the city are the key to learn about unknown Šiauliai Old Town.
Pilot institution	ŠAM, Šiauliai „Aušros“ Museum, Siauliai (Lithuania)
Curator team	Jovita Vilimaitienė, Teklė Tomkutė-Vaičiulienė, Vilija Ulinskytė-Balzienė
Demonstrated modules/functionalities	Photo Gallery, Homepage, Search, Sitemap, Page, Entity, Timeline, Image Hotspot, Google Map, Storytelling, Timeline, Ontology Builder, Slideshow, Image Slider, Page Flip, Photo Gallery, Image List
Language	Lithuanian
URL	http://54.247.69.120/build/movio/movioTraining9/

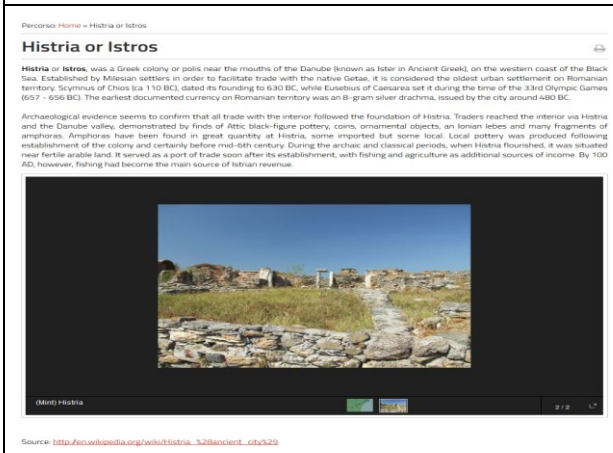
4.1.7 *Constantin Brancoveanu, prince of Wallachia (1688–1714)*

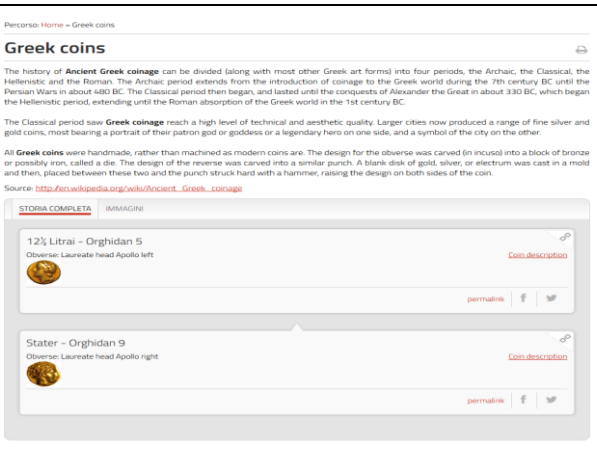


Pilot title	Constantin Brancoveanu, prince of Wallachia (1688–1714)
Short description	Constantine Brancovan (1688-1714). was a skillful politician who secured domestic peace and furthered Walachia's economic and cultural development. Under his rule, the "Brancovan" artistic style was created, an example of which can be seen in the palace at Mogoşoaia, near Bucharest.
Pilot institution	BAR, Romanian Academy Library, Bucharest (Romania)
Curator team	Dan Matei, Ioana Movila, Petre nastase
Demonstrated modules/functionalities	Galleries, Image HotSpot, Storyteller, Maps
Language	English
URL	http://54.247.69.120/build/movio/movioTraining10/

4.1.8 *Greek Coins - Constantin Orghidan Collection of the Romanian Academy Library*



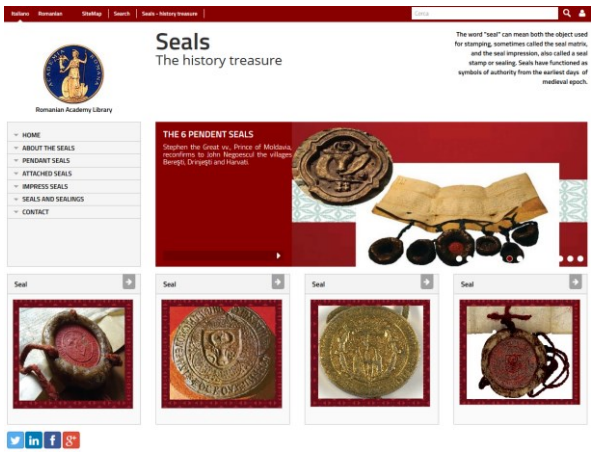


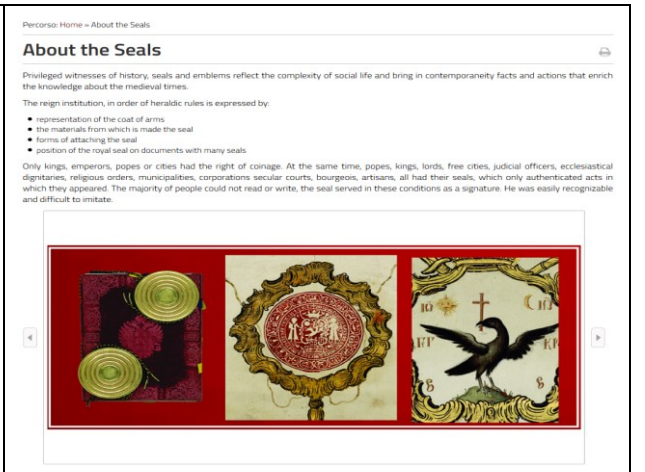


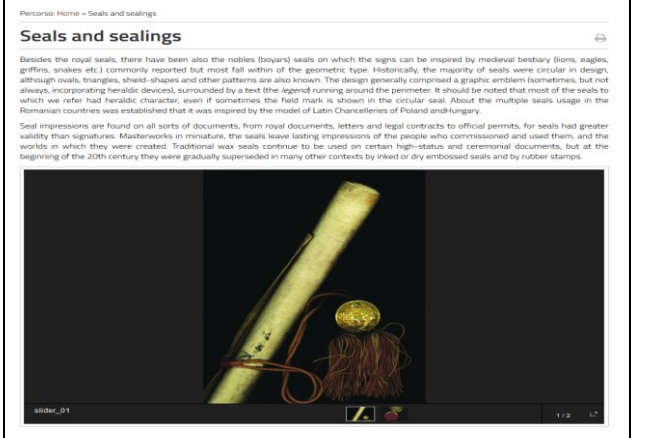
Pilot title	Greek Coins - Constantin Orghidan Collection of the Romanian Academy Library
Short description	The collection of the engineer Constantin Orghidan is the most representative numismatic ensemble ever achieved by Romanian collector. A passionate collector of an outstanding selection of 10,167 items, among which 8,025 Greek, Roman, Byzantine, medieval, modern and contemporary coinage, medals, seals, weights, engraved stones, archaeological objects and cameos, one of them of an impressive size ("The Orghidan Cameo"), donated to the Romanian Academy Library. The over ten thousand artifacts - coins (Greek, Roman, Byzantine, medieval), seals, medals, engraved gems, antique and Byzantine jewels, royal Assyrian and Babylonian seals, Egyptian scarabs - form the most diverse, representative and important assembly in the history of the Romanian numismatics.
Pilot institution	BAR, Romanian Academy Library, Bucharest (Romania)
Curator team	Dan Matei, Ioana Movila, Petre Nastase

Demonstrated modules/functionalities	Galleries, Image HotSpot, Storyteller, Maps
Language	English
URL	http://54.247.69.120/build/movio/movioTraining14/

4.1.9 *Seals. The history treasure*



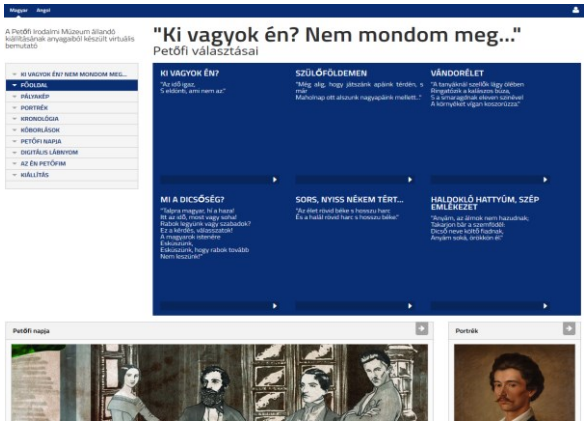


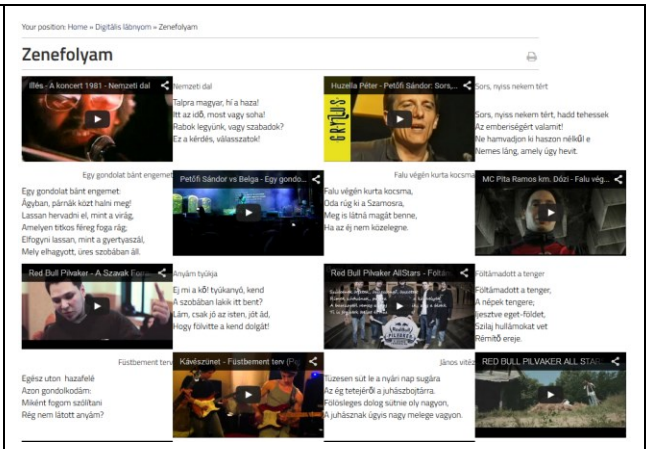


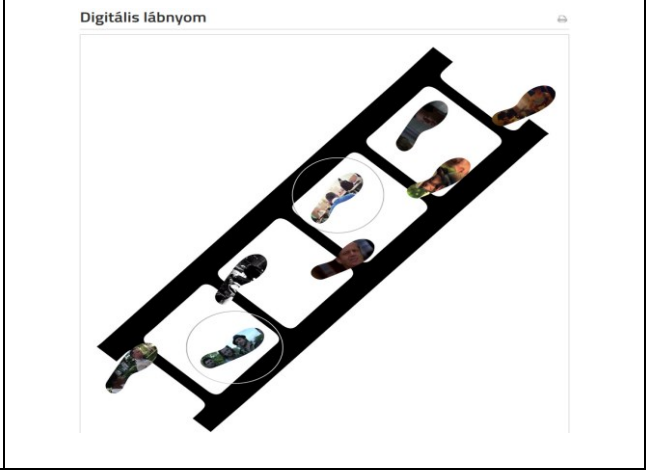
Pilot title	Seals. The history treasure
Short description	The word "seal" can mean both the object used for stamping, sometimes called the seal matrix, and the seal impression, also called a seal stamp or sealing. Seals have functioned as symbols of authority from the earliest days of medieval epoch.
Pilot institution	BAR, Romanian Academy Library, Bucharest (Romania)
Curator team	Dan Matei, Ioana Movila, Petre Nastase
Demonstrated	Galleries, Image HotSpot, Storyteller, Maps, Social Media

modules/functionalities	
	English
URL	http://54.247.69.120/build/movio/movioTraining16/

4.1.10 *"Who am I? I will not say...". The Poetry of Sándor Petöfi*



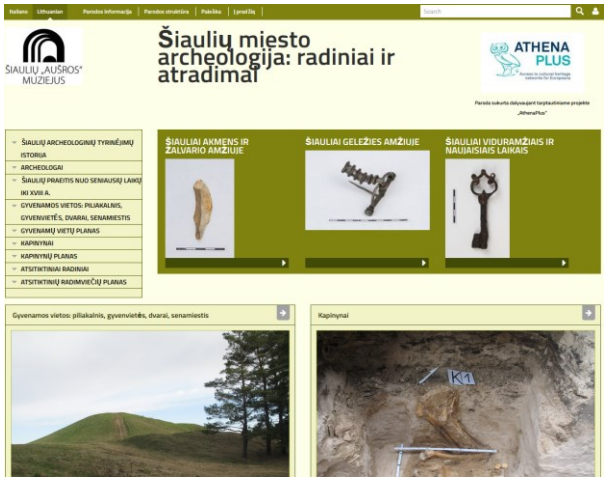


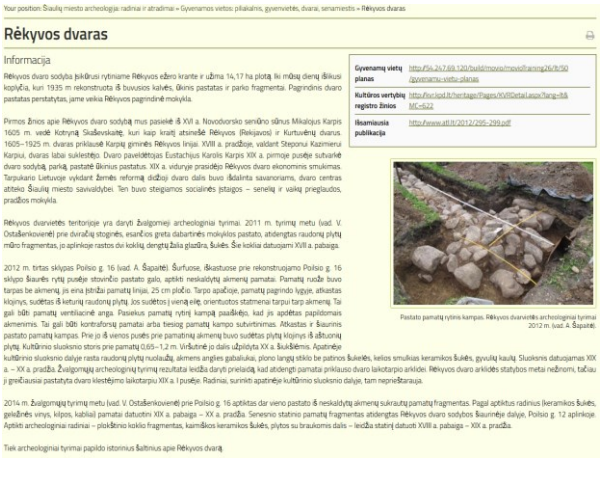


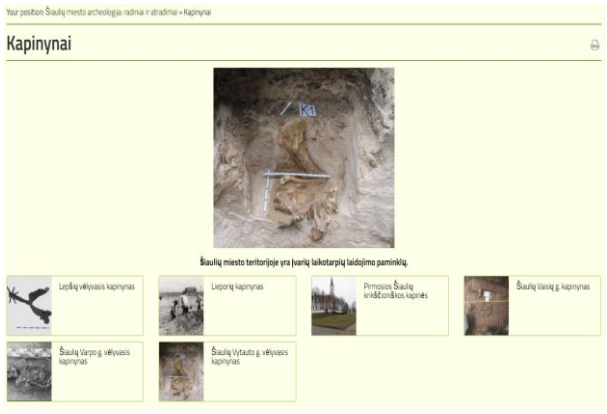
Pilot title	"Ki vagyok én? Nem mondom meg..."
Short description	For Hungarians, Sándor Petőfi means much more than just a poet who lived many years ago: he embodies poetry itself. This exhibition was created from the materials of the permanent exhibition of PIM, which deals with Petőfi's short but intense career, and the dilemmas it involved. The virtual exhibition sketches the main periods of Petőfi's carrier and the map of his connections, but there are some new topics such as a digital footprint, a role-play, and the comments of the ‚Z' generation.
Pilot institution	PIM, Petőfi Literary Museum, Budapest (Hungary)
Curator team	Gábor Palkó, Viktor Rozbroy, Éva Kómár, Aranka Kemény

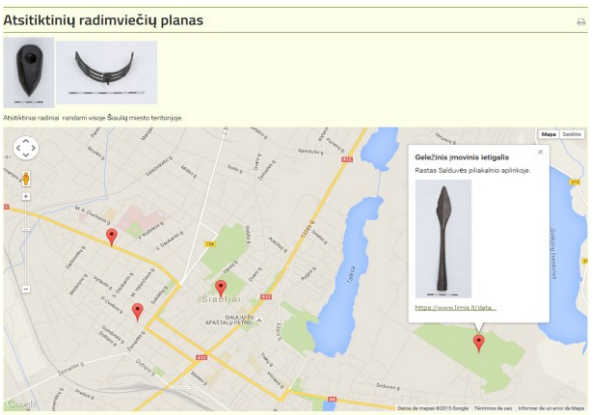
Demonstrated modules/functionalities	Storyteller, Timeline, GoogleMap, Photogallery, ImageHotSpot, Slideshow, Multimedia, Social Media, Interactive game integration
Language	Hungarian
URL	http://54.247.69.120/build/movio/movioTraining17/

4.1.11 *Siauliai City's Archaeological Finds and Discoveries*





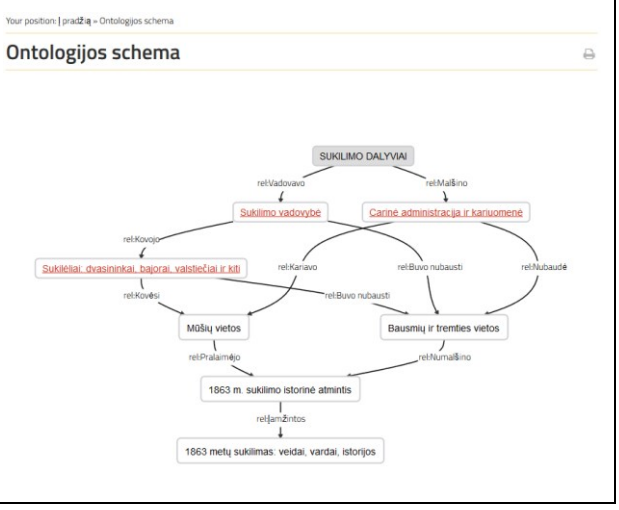




Pilot title	Šiaulių miesto archeologija: radiniai ir atradimai
Short description	This exhibition presents the archaeological heritage of the city of Siauliai, in northern Lithuania. The most relevant findings are presented within their context, from ancient times until the eighteenth century.
Pilot institution	ŠAM, Šiauliai „Aušros" Museum, Siauliai (Lithuania)
Curator team	Jovita Vilimaitienė, Teklė Tomkutė-Vaičiulienė, Vilija Ulinskytė-Balzienė
Demonstrated	Photo Gallery, Homepage, Search, Sitemap, Page, Image Hotspot, Google Map, Storytelling, Slideshow, Image Slider, Page Flip, Photo Gallery, Image

modules/functionalities	List
Language	Lithuanian
URL	http://54.247.69.120/build/movio/movioTraining26/

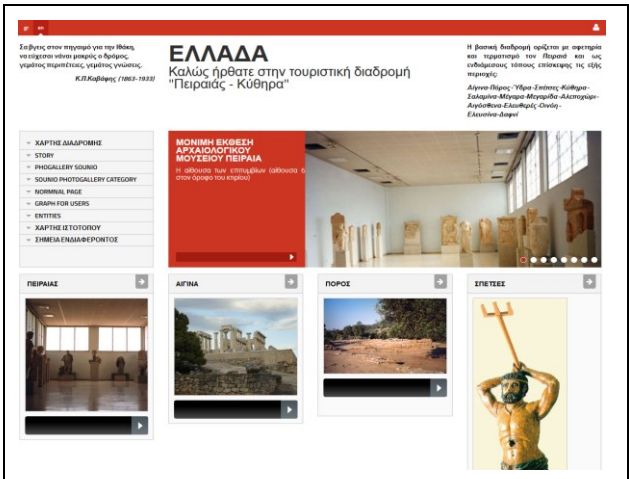
4.1.12 *The 1863 Uprising: Faces, Names, Stories*

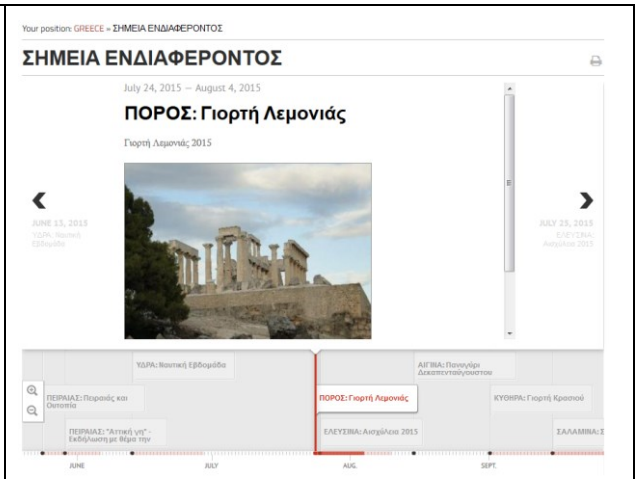


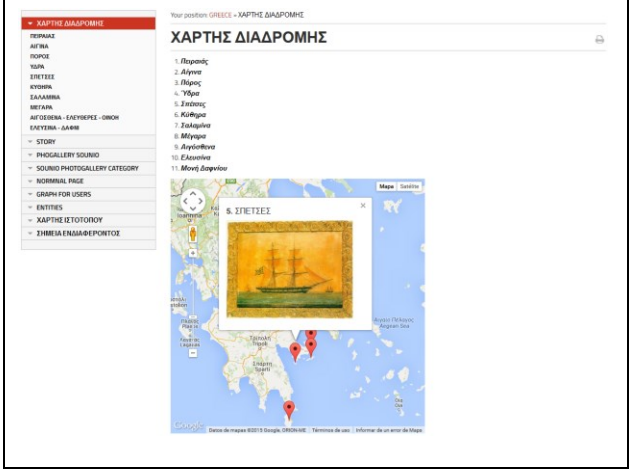
Pilot title	1863 metų sukilimas: veidai, vardai, istorijos
Short description	This exhibition is devoted to the Jaurary 1863 Uprising, a revolt in the former Polish-Lithuanian Commonwealth (present-day Poland, Lithuania, Belarus, Latvia, parts of Ukraine, and western Russia) against the Russian Empire. It began on 22 January 1863 and lasted until the last insurgents were captured in 1864.
Pilot institution	ŠAM, Šiauliai „Aušros“ Museum, Siauliai (Lithuania)
Curator team	Jovita Vilimaitienė, Teklė Tomkutė-Vaičiulienė, Vilija Ulinskytė-Balzienė

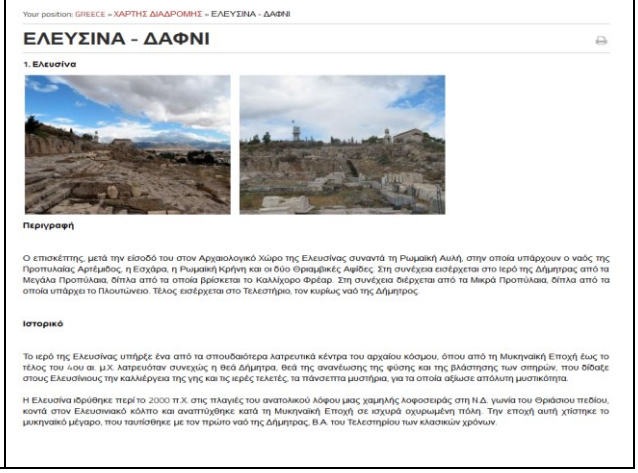
Demonstrated modules/functionalities	Photo Gallery, Homepage, Search, Sitemap, Page, Image Hotspot, Google Map, Storytelling, Slideshow, Image Slider, Page Flip, Photo Gallery, Timeline, Image List, Ontology Builder
Language	Lithuanian
URL	http://54.247.69.120/build/movio/movioTraining24/

4.1.13 *Welcome to Greece - the route from Piraeus to Kythira*





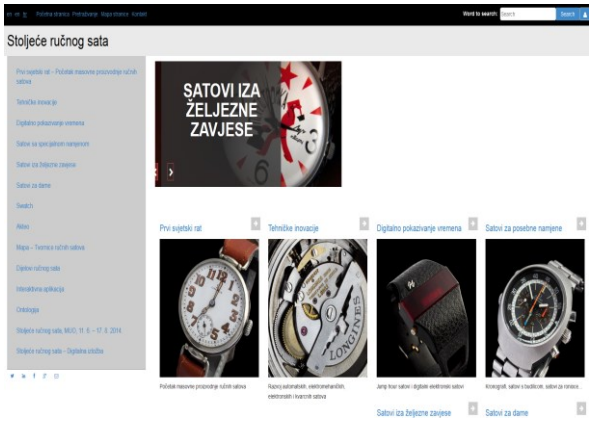


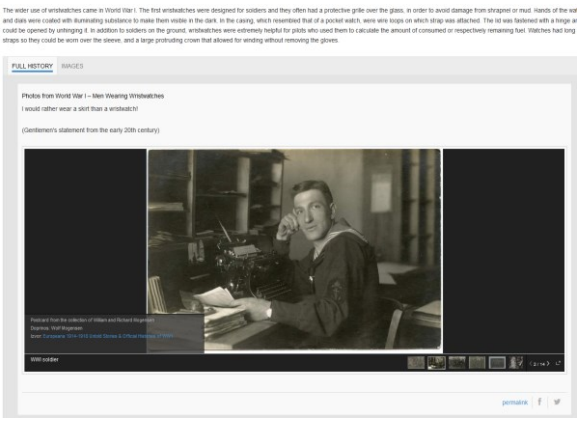


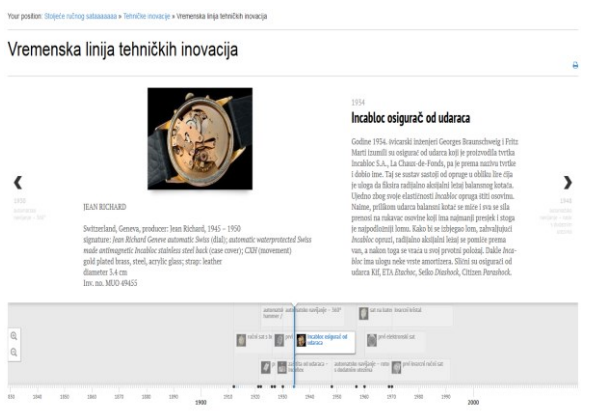
Pilot title	ΕΛΛΑΔΑ, Καλώς ήρθατε στην τουριστική διαδρομή "Πειραιάς - Κύθηρα"
Short description	This digital exhibition proposes an online tour from the Greek port of Piraeus, near Athens, to the Ionian island of Kythera. Along the trip, information is provided on the most relevant points of interest, with the intent of enticing virtual travelers to become physical visitors and experience the trip in the real world, thus promoting tourism in the area.
Pilot institution	HMTC, Hellenic Ministry of Tourism and Culture, Athens (Greece)
Curator team	Maria Kotlida, Evangelia Zagaliki, Vagelis Tzortzis

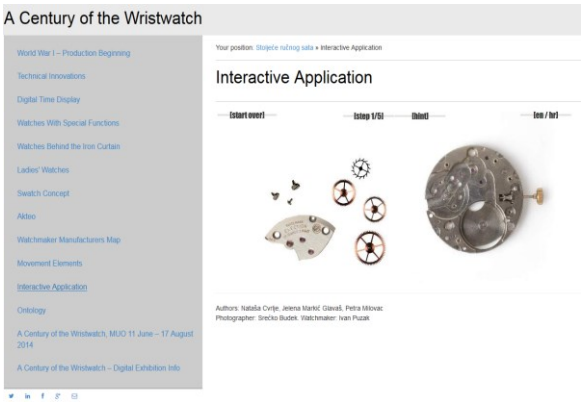
Demonstrated modules/functionalities	Storyteller, Timeline, Google Maps, Hotspot, Thesauri, Tourist operators
Language	Greek
URL	http://54.247.69.120/build/movio/movioTraining28/

4.1.14 *A Century of the Wristwatch*





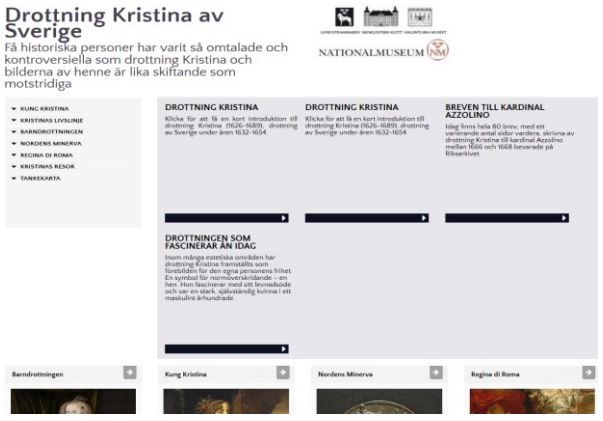


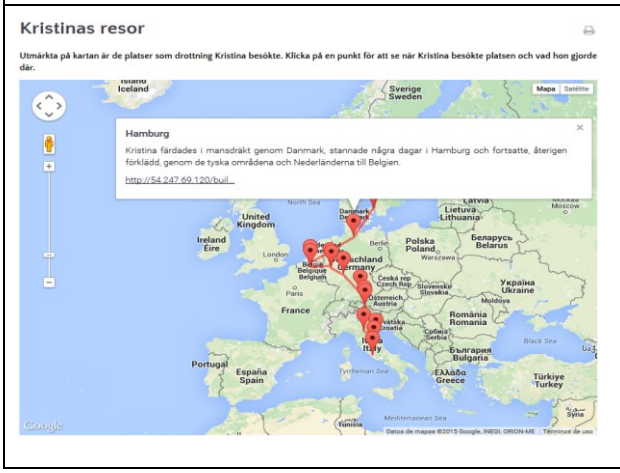


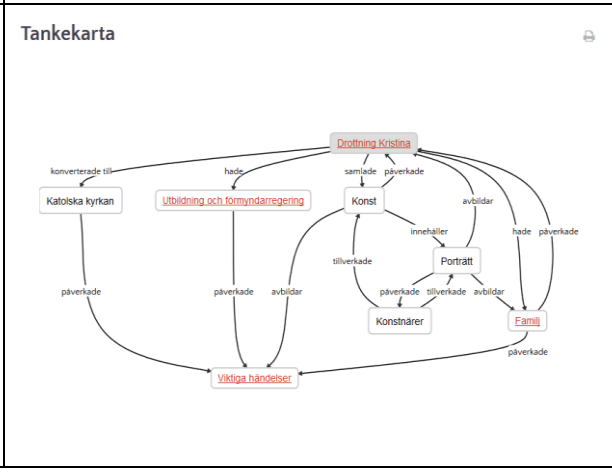
Pilot title	From Data to Creative Content: A Century of the Wristwatch
Short description	The exhibition shapes the story of the invention and the development of the wristwatch with items from the Museum of Arts and Crafts collection. The exhibition commemorates the centenary outbreak of the WW1 which started the production. The material is based on a corresponding temporary exhibition held this year at MUO. It contains an interactive application which tends to preserve and develop an interest in our non-material heritage.
Pilot institution	MUO, Museum of Arts and Crafts, Zagreb (Croatia)
Curator team	Vesna Lovrić Plantić, Iva Meštrović, Petra Milovac

Demonstrated modules/functionalities	Storyteller, Timeline, GoogleMap, Photogallery, ImageHotSpot, Slideshow, Multimedia, Interactive game integration, Advanced templates
Language	English, Croatian
URL	http://54.247.69.120/build/movio/movioTraining12/

4.1.15 *Queen Kristina of Sweden*



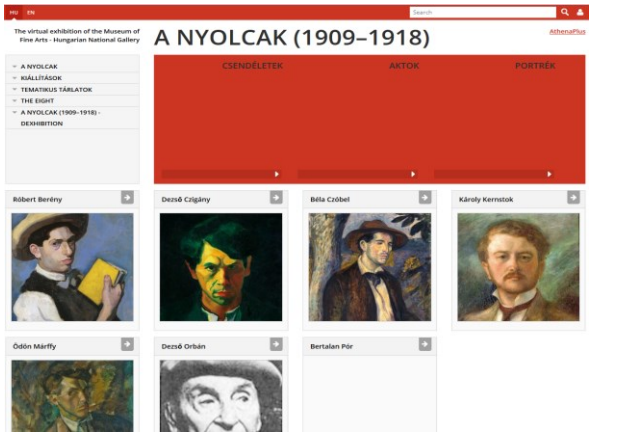


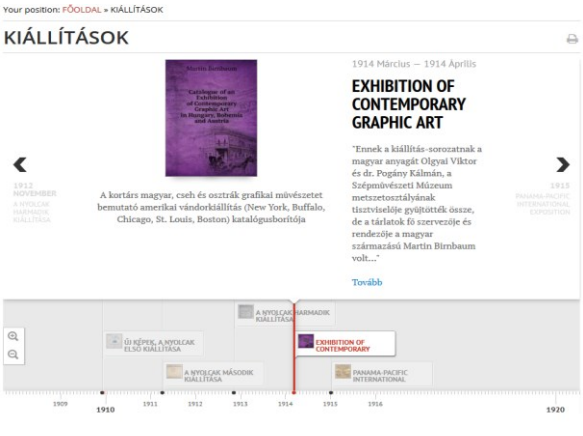


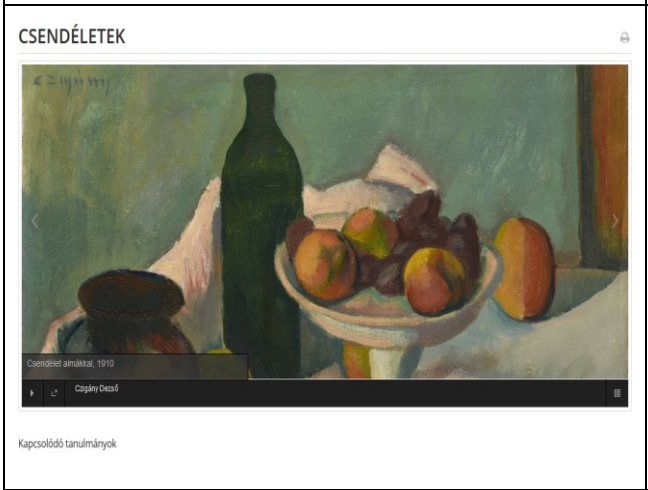
Pilot title	Drottning Kristina av Sverige
Short description	Queen Christina of Sweden (1626-1689) was one of the most famous women of her time. Few historical figures have been discussed so much and so controversial, and the impressions of Christina are as diverse as they are contradictory. This virtual exhibition reviews her life, her thoughs and her deeds, by examining a wealth of cultural heritage documents related to this key figure in Swedish history.
Pilot institution	RA, The Royal Armoury and Skokloster Castle with the Hallwyl Museum Foundation and the Nationalmuseum, Stockholm (Sweden)
Curator team	Fredrik Andersson, Linnéa Karlberg-Lundin, Linda Hinners, Karin Glasemann

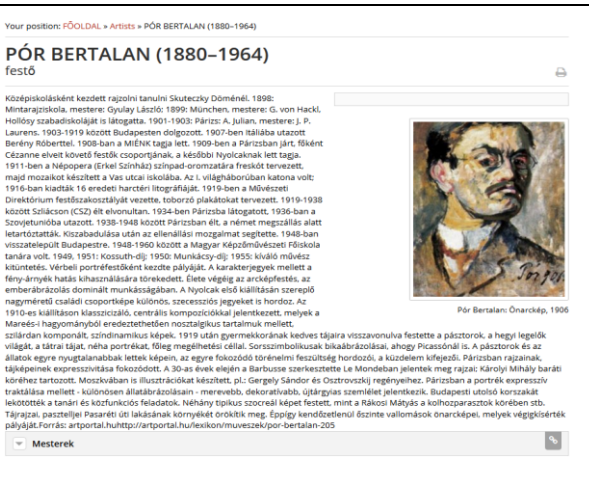
Demonstrated modules/functionalities	Storyteller, Timeline, GoogleMap, Photogallery, ImageHotSpot, Slideshow, Multimedia, Interactive game integration
Language	Swedish
URL	http://54.247.69.120/build/movio/movioTraining2

4.1.16 *The Eight (1909-1918)*





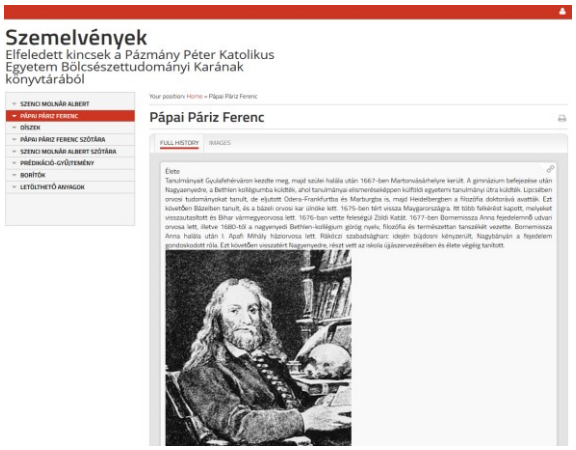


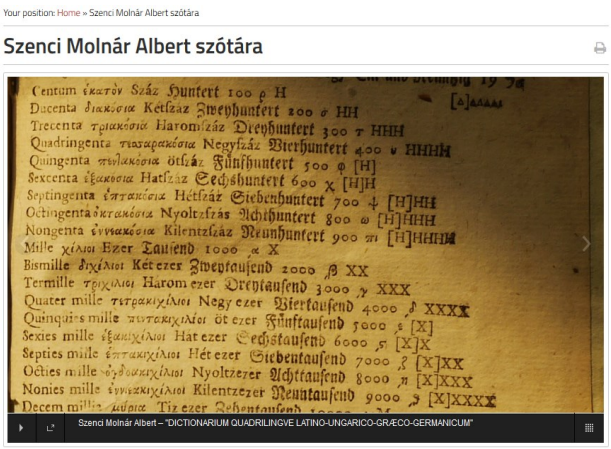


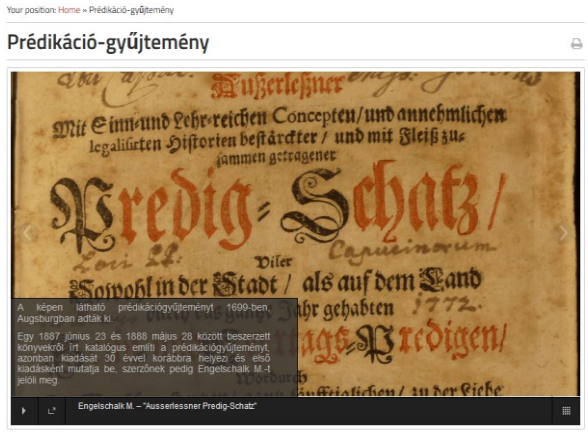
Pilot title	A Nyolcak (1909-1918)
Short description	Three elements of MOVIO will be emphasized: use of the Ontology builder (in context of a traditional collection browser), the Timeline function and the CMS. Testing the Storyteller function is planned at a later stage of the pilot project. We have tested the MOVIO through creating a virtual exhibition for a Hungarian group of artists called The Eight, based on different publications of previous real exhibitions.
Pilot institution	MNG, Museum of Fine Arts – Hungarian National Gallery, Budapest
Curator team	Gergely Barki, Júlia Katona, Enikő Róka, György Szücs, Petra Varga, Orsolya

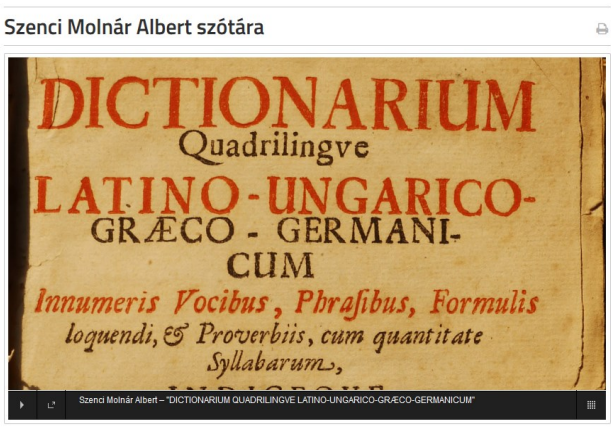
	Veress
Demonstrated modules/functionalities	Ontology Builder, Timeline, CMS, Slideshow
Language	Hungarian, English
URL	http://54.247.69.120/build/movio/movioTraining4/

4.1.17 *Excerpts. Forgotten Treasures of the Library of the Catholic University's Faculty of Arts*





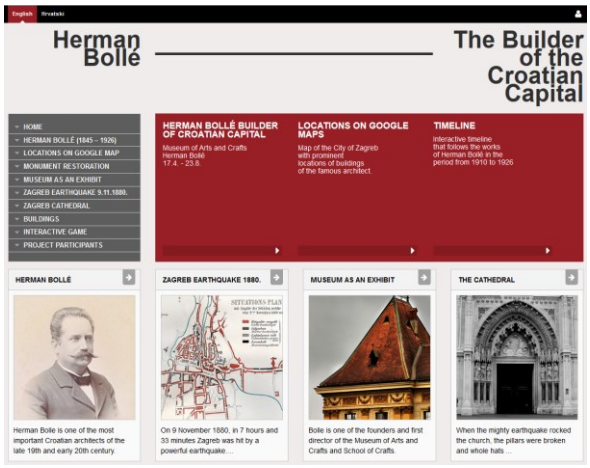


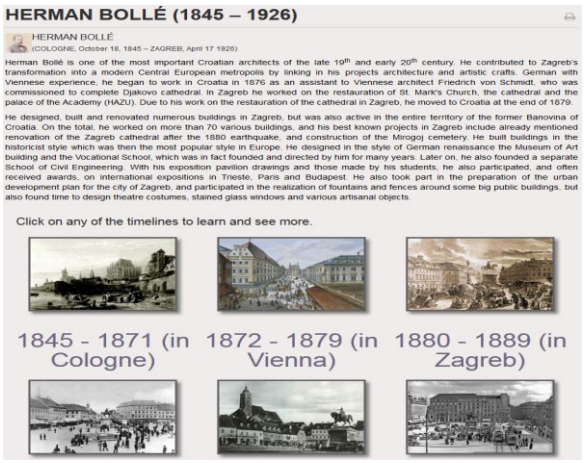


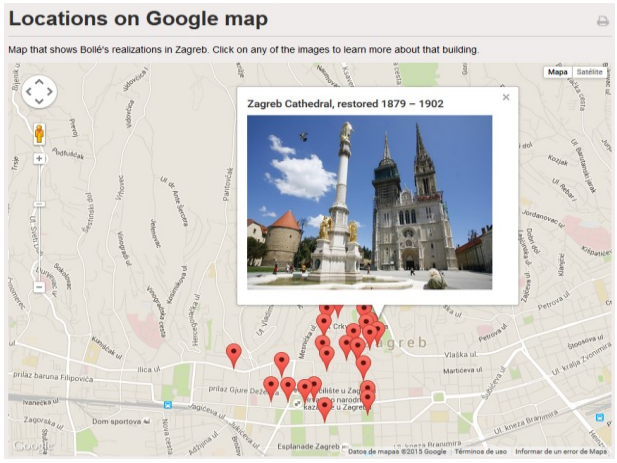
Pilot title	Szemelvények. Elfeledett kincsek a Pázmány Péter Katolikus Egyetem Bölcsészettudományi Karának könyvtárából.
Short description	This exhibition presents to the public a set of little-known cultural heritage elements relating to two seventeenth-century Hungarian intellectuals, closely involved with the Church.
Pilot institution	MNG, Museum of Fine Arts – Hungarian National Gallery, Budapest (Hungary)

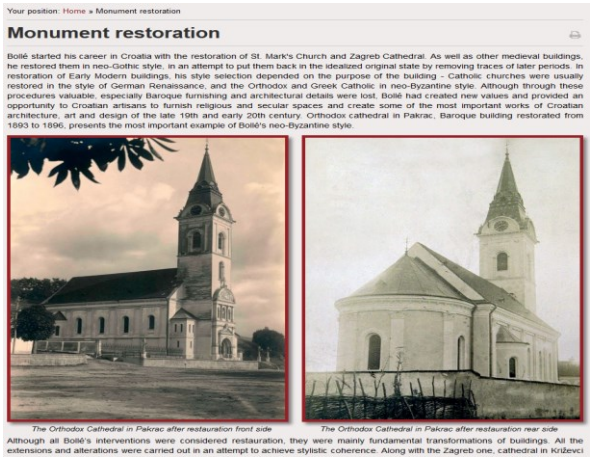
Curator team	Gergely Barki, Júlia Katona, Enikő Róka, György Szücs, Petra Varga, Orsolya Veress
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow
Language	Hungarian
URL	http://54.247.69.120/build/movio/movioTraining5/

4.1.18 *Herman Bollé, Builder of the Croatian Capital*









Pilot title	Herman Bollé, Builder of the Croatian Capital
Short description	Herman Bollé is one of the most important Croatian architects of the late 19th and early 20th century. He contributed to Zagreb's transformation into a modern Central European metropolis by linking in his projects architecture and artistic crafts. He designed, built and renovated numerous buildings in Zagreb, but was also active in the entire territory of the former Banovina of Croatia. On the total, he worked on more than 70 various buildings, and his best known projects in Zagreb include already mentioned renovation of the Zagreb

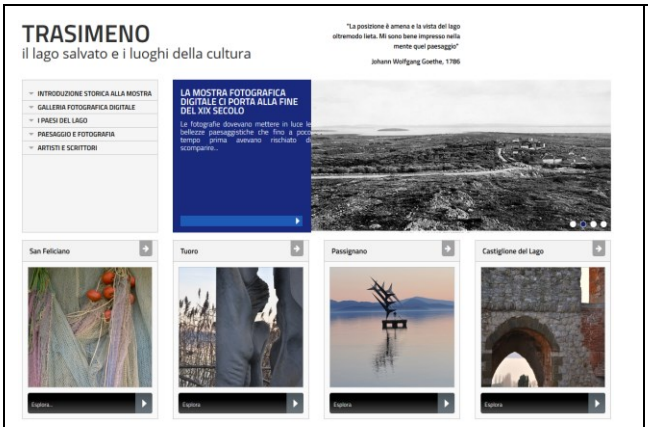
	cathedral after the 1880 earthquake, and construction of the Mirogoj cemetery.
Pilot institution	University of Zagreb, Faculty of Humanities and Social Sciences, Zagreb (Croatia)
Curator team	Goran Zlodi, Mirjam Anđić, Zorica Banović, Sunčica Belinić, Matija Benci, Mario Bursik, Luka Canjek, Amalija Ciprić
Demonstrated modules/functionalities	Storyteller, Timeline, GoogleMap, Photogallery, Slideshow, Multimedia, Interactive game integration
Language	Croatian, English
URL	http://54.247.69.120/build/movio/movioTraining40/

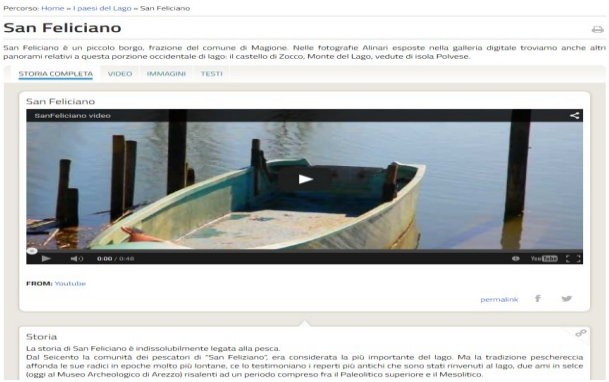
4.1.19 *In Sickness and in Health – Wedding Clothes from 1865 to Nowadays*

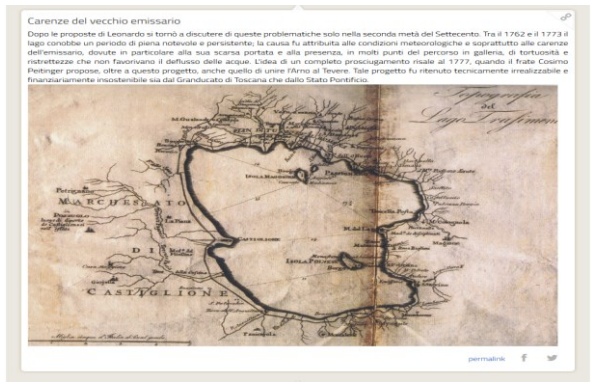
Pilot title	U Dobru i Zlu, Vjenčana Odjeća od 1865. do Danas
Short description	The aim of the exhibition is to display and document the evolution of wedding clothing in Croatia from 1865 to the present day. The exhibition shows how

	brides looked like in Croatia from the 19th century to the present day, how the local fashion interrelated with contemporary European fashion trends, and how these wedding clothes were different than daily clothing. The exhibition features 58 female and 6 male wedding garments, fashion accessories - veils, hats, toques, gloves, purses and shoes and wedding photos that provide evidence of how the brides looked on their wedding day.
Pilot institution	University of Zagreb, Faculty of Humanities and Social Sciences, Zagreb (Croatia)
Curator team	Ph. D. Goran Zlodi, Mirjam Anđić, Zorica Banović, Sunčica Belinić, Matija Benci, Mario Bursik, Luka Canjek, Amalija Ciprić
Demonstrated modules/functionalities	Storyteller, Timeline, Photogallery, Slideshow
Language	Croatian
URL	http://54.247.69.120/build/movio/movioTraining39/

4.1.20 *Trasimeno, the saved Lake and the places of Culture*



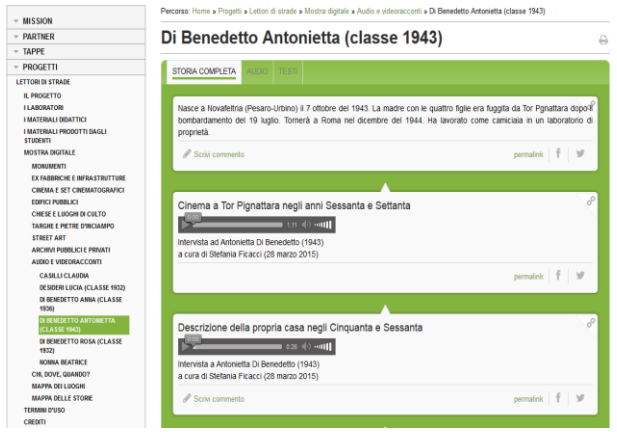


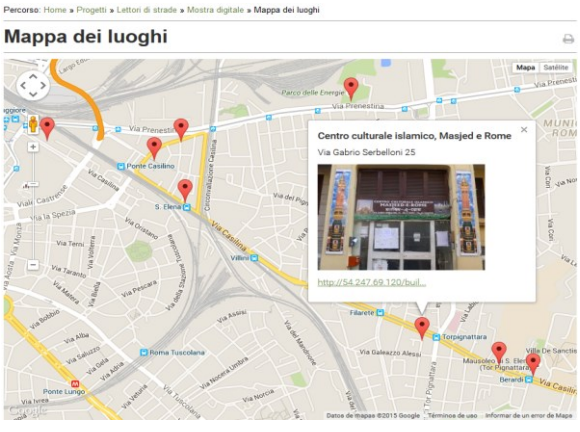


Pilot title	TRASIMENO il lago salvato e i luoghi della cultura

Short description	This exhibition introduces the visitor to the lake of Trasimeno, in the Italian region of Umbria. Its geography, history and cultural heritage sites are presented with a wealth of images, historical documents, text descriptions and multimedia elements, to promote knowledge of this area and improve its touristic prospects.
Pilot institution	University of Ravenna, Ravenna (Italy)
Curator team	NA[2]
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Multimedia, Tourism module
Language	Italian
URL	http://54.247.69.120/build/movio/sanna/

4.1.21 *CityTelling – Stories of the City*

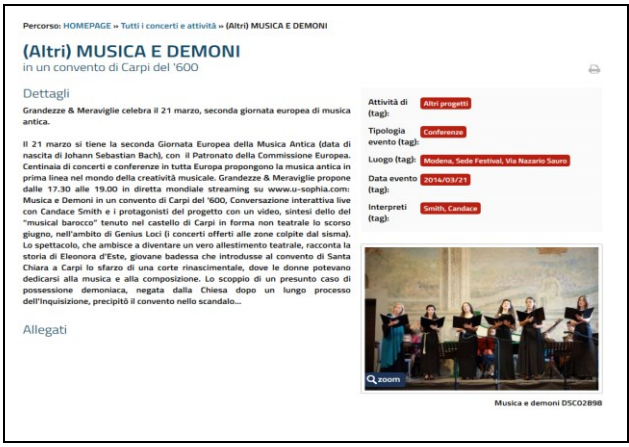


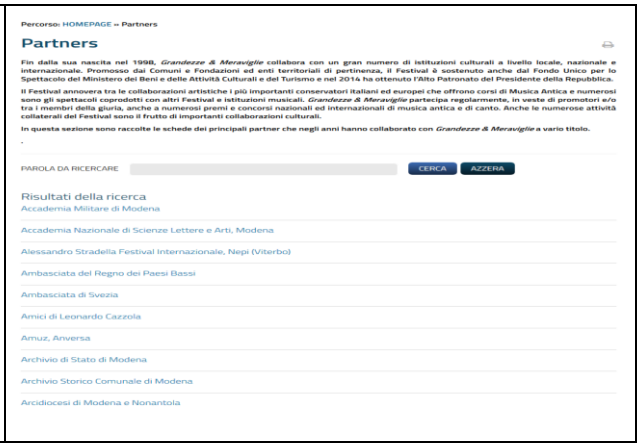


[2] Some pilot-making cooperating institutions have chosen not to declare an individual or group of individuals as authors of the exhibition, instead preferring that the institution be declared as holding collective authorship. The specific names of the curator teams for these pilots is therefore listed as NA, not available.

Pilot title	CityTelling - Racconti dalla città
Short description	This exhibition is the official website of the City Telling project. The project, a collaboration between the cultural associations GoTellGo and Thamus: Search, in collaboration with other institutional promoters, was created with the main objective to collect and make available to local communities the private memories of citizens and residents organizations in the territory (schools, associations, private archives etc.). The collection of materials such as photographs, videos, postcards, letters, diaries, interviews will then build a database - the digital archive of the memories (ADIME) - through which you can find several digital resources to allow ourselves and users several different paths to promote knowledge of the territories in the time period from 1900 until the most recent years. CityTelling will be gradually enriched with digital displays that, enhancing the archive materials through thematic routes treated, will constitute a new source of knowledge for citizens interested in the memory of everyday places, and contribute instructional materials for use in schools and for students.
Pilot institution	Cultural Association GoTellGo, Rome (Italy)
Curator team	Stefania Ficacci, Maria Teresa Natale, Michele Tommasi, Priscilla Polidori, Maria Teresa Milani, Sara Moretto
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Map, Multimedia
Language	Italian
URL	http://54.247.69.120/build/movio/movioTraining13/it/9/lettori-di-strade

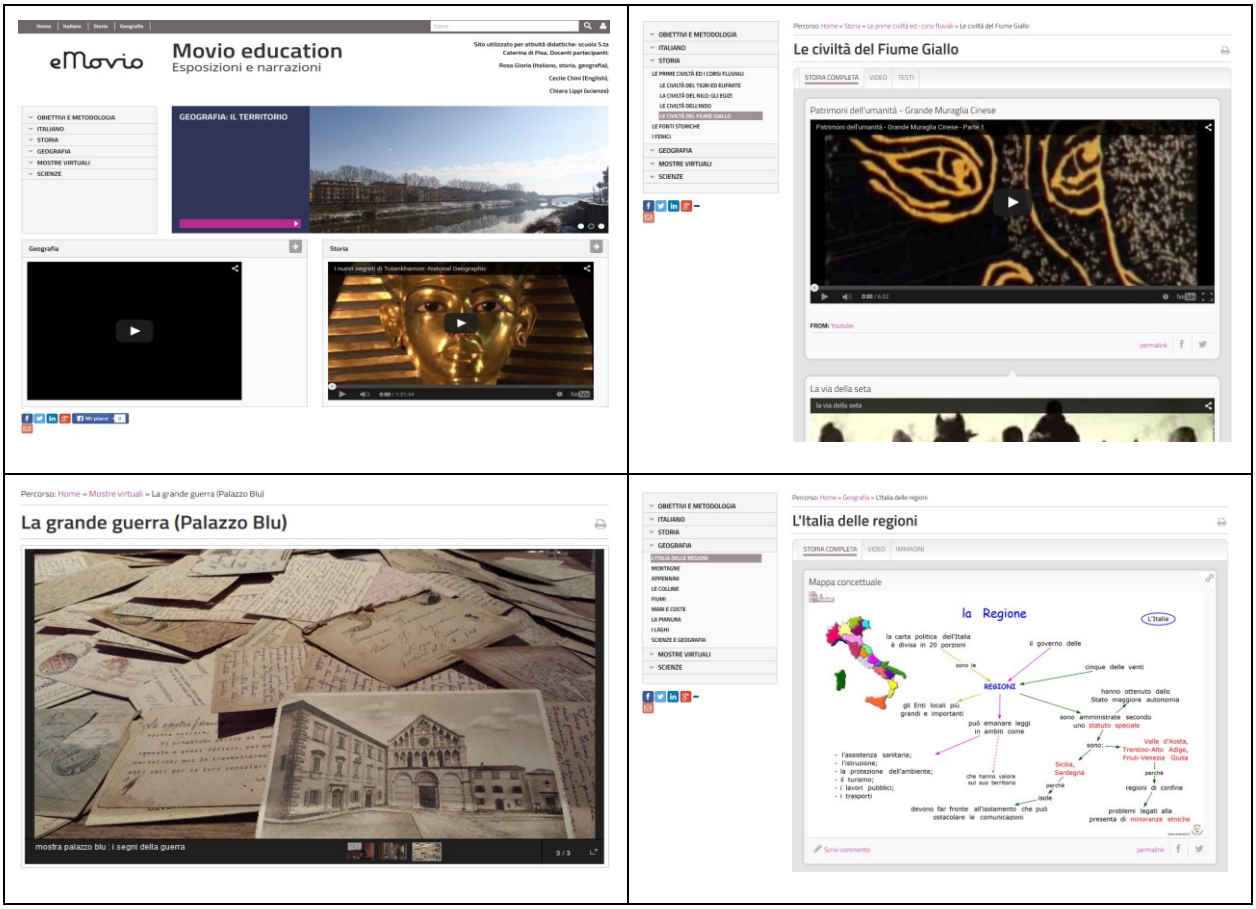
4.1.22 *AMUSES – The Estensian Multimedia Musical Archive*





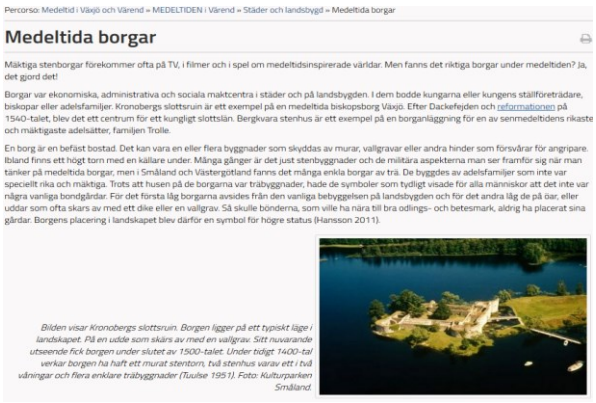
Pilot title	AMUSES - Archivio Musicale Multimediale Estense
Short description	AMUSES makes accessible and enhances the historical and future of Grandezze & Meraviglie, Festival Musicale Estense. It provides a rich documentation of the Festival, including audio recordings, live video, photos, theater programs, catalogs and critical texts, cards on the artistic history of the concert venues, cards on involved cultural institutions, links with other platforms and multimedia archives, and promotional material. It is enriched year after year with new editions of the Festival and New Content, and includes exhibitions and virtual tours, as well as hosting embedded streaming broadcasts of events.
Pilot institution	AMUSES, Modena (Italy)
Curator team	NA
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Map, Multimedia
Language	Italian, English, French
URL	http://54.247.69.120/build/movio/movioTraining19/

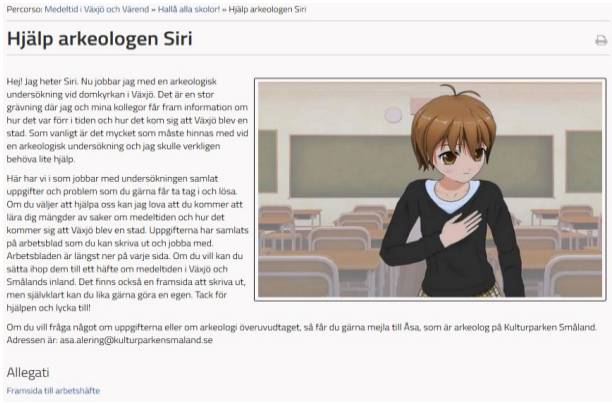
4.1.23 *MOVIO Education – Exhibition and Narrative*



Pilot title	MOVIO Education - Esposizioni e narrazioni
Short description	The goal of this digital exhibition is to explore MOVIO's usage in an educational context. The present exhibition was created by a group of primary school teachers of language, history and geography, to go over the lessons given in class (class IV primary school Sta Caterina di Pisa), expanding on the traditional homework content in a simple, visual and interactive way. The sources used were content from the collections of BNCR, BNCF, Europeana, and Alinari.
Pilot institution	Santa Caterina di Pisa School, Pisa (Italy)
Curator team	Rosa Gloria, Cecile Chini, Chiara Lippi
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Map, Multimedia, Europeana API, Education use case
Language	Italian
URL	http://54.247.69.120/build/movio/movioTraining25

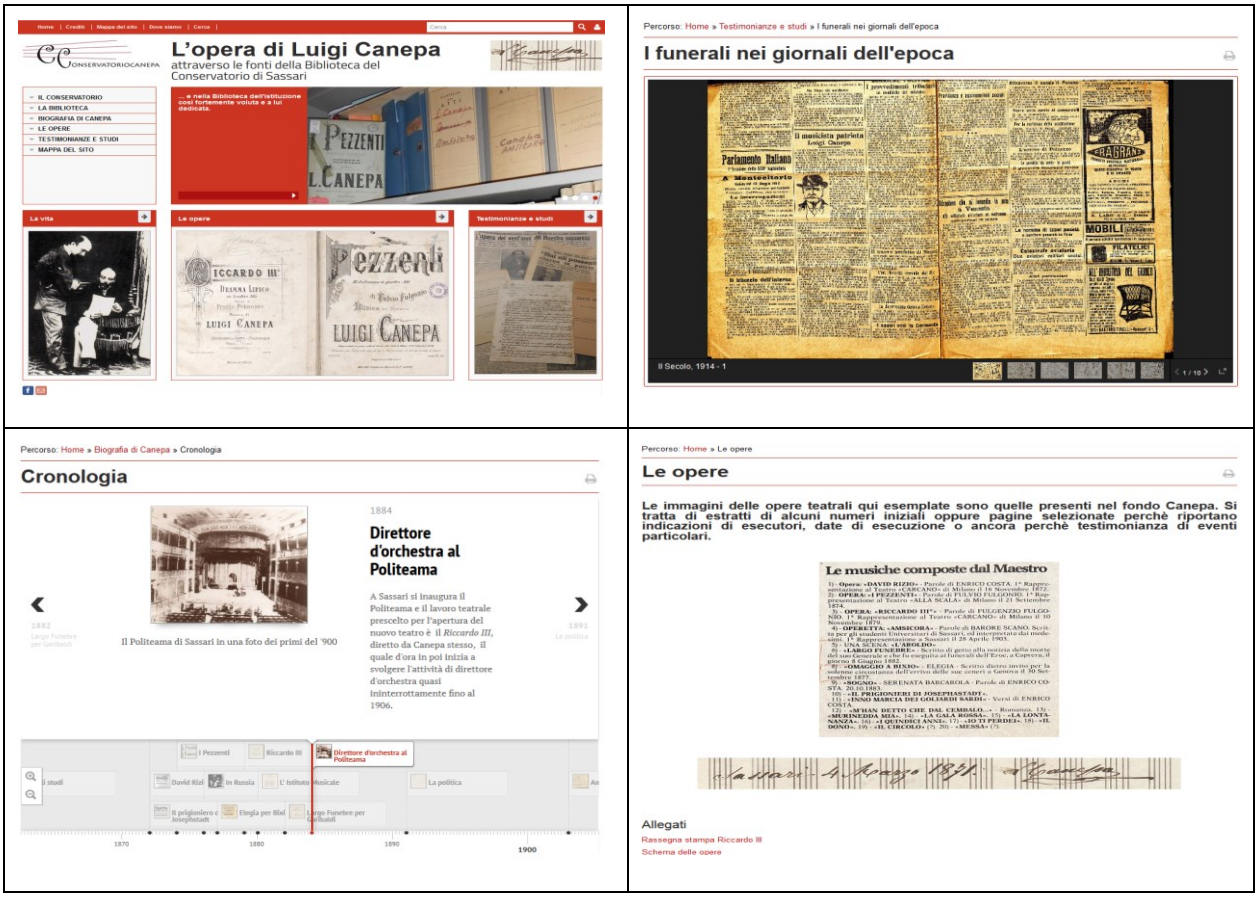
4.1.24 *The Middle Ages in Växjö and Värend*





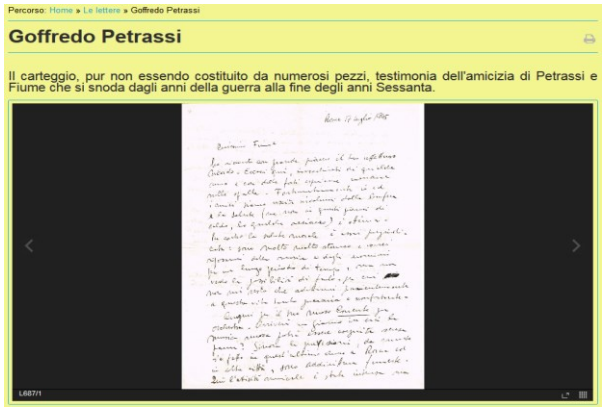
Pilot title	Medeltiden i Växjö och Värend
Short description	In the middle of the Småland lays Växjö. It is a city with roots in the Middle Ages and history, coupled with a remarkable cathedral. Knowledge of why Vaxjo became a city and how it was to live there during the Middle Ages is quite limited, but through historical research and recent archaeological investigations, the picture has become clearer. You can read more about medieval times in and around Växjö, as well as some of the finds and places that make that we know a little more. Welcome to explore!
Pilot institution	KulturParken Smaland, Växjö (Sweden)
Curator team	NA
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Map, Multimedia, Europeana API, Education use case
URL	http://54.247.69.120/build/movio/movioTraining34/

4.1.25 *The work of Luigi Canepa - Through the sources of the Library of the Conservatory of Sassari*



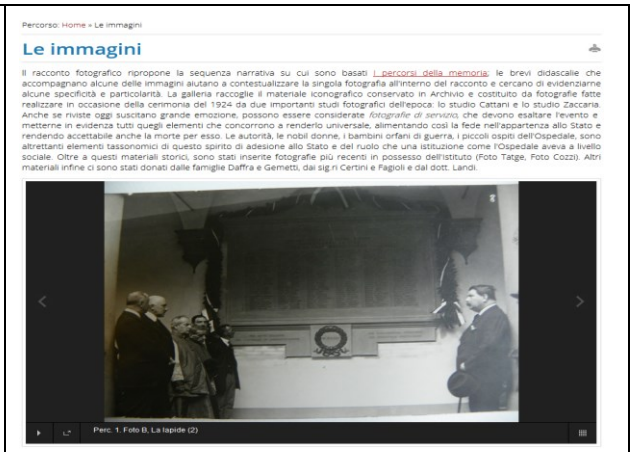
Pilot title	L'opera di Luigi Canepa - attraverso le fonti della Biblioteca del Conservatorio di Sassari
Short description	This exhibition presents the life and work of Luigi Canepa, a nineteenth-century Italian composer who was politically involved in the Risorgimento movement.
Pilot institution	Luigi Canepa Music Conservatory, Sassari (Italy)
Curator team	NA
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Map, Multimedia, Timeline
Language	Italian
URL	http://54.247.69.120/build/movio/movioTraining57/

4.1.26 *Orazio Fiume – Story of a Composer from his Archive*



Pilot title	Orazio Fiume - Storia di un compositore dalle carte d'archivio
Short description	The biography of Orazio Fiume has been reconstructed from the documents in the archive, donated by the family of the composer at the Conservatory of Monopoli between 2001 and the end of 2002. It was a habit of Oratio Fiume to keep important documents and, as told by the daughter Simonetta, a series of wooden boxes containing all its documentation followed the composer in his various postings: Naples, Palermo, Rome, Parma, Milan, Pesaro, Trieste. At his death on December 21, 1976, the family decided to donate part of this documentation to the Library "Prospero Rendella" Monopoli and then the rest, mainly letters and personal documentation, at the Conservatory of Monopoli.
Pilot institution	Nino Rota Music Conservatory, Monopoli (Italy)
Curator team	Manuela Di Donato, Francesca Topputi, Fabio Anti, Valerio Latartara, Leonardo Marchese, Simonetta Fiume
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Multimedia
Language	Italian
URL	http://54.247.69.120/build/movio/movioTraining54/

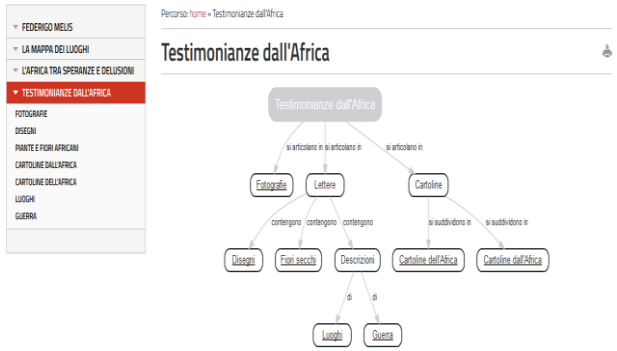
4.1.27 *"Without mothers, but with a great motherland" - The Hospital of the Innocents reminds his sons fallen in the Great War*

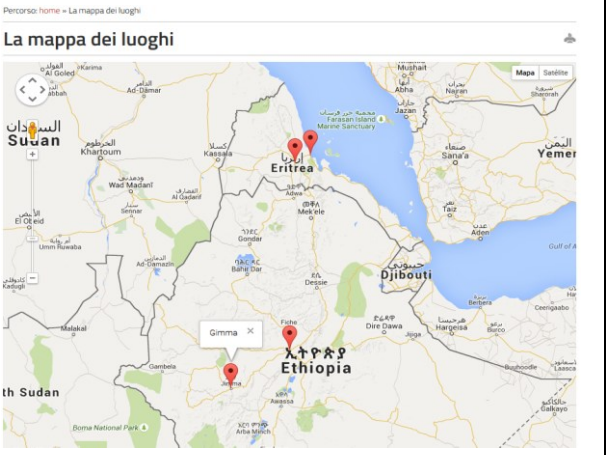


Pilot title	"Senza madri, ma con una grande madre patria". L'Ospedale degli Innocenti ricorda i suoi figli caduti nella Grande Guerra"
Short description	The exhibition is a result of the decision of the Institute of the Innocents to restore the plaque commemorating soldiers *nocentini* fallen in the Great War; plaque was inaugurated on June 8, 1924. The Institute has taken so remember a piece of their own history and their own *family.* The memory of these soldiers and the reconstruction of their stories have permission to put a face and a dignity to those who had the misfortune of not knowing one's family of origin and to live a life too short to create lasting affections. The work has also provided an opportunity to learn about the health care activity of the Innocents in those years that were full of changes in the direction of new forms of assistance to children legitimate and illegitimate ones.
Pilot institution	Hospital of the Innocents, Florence (Italy)
Curator team	Antonella Schena, Lucia Ricciardi, Rita Massacesi, Anna Maria Maccelli, Aurora Siliberto, Vincenzo Rea, Cinzia Merlino
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Map, Multimedia, Timeline, User-contributed Content

Language	Italian
URL	http://www.idigrandeguerra.istitutodeglinnocenti.it/

4.1.28 *Federigo Melis in East Africa 1940-1944 - The war through documents and testimony from his archive*

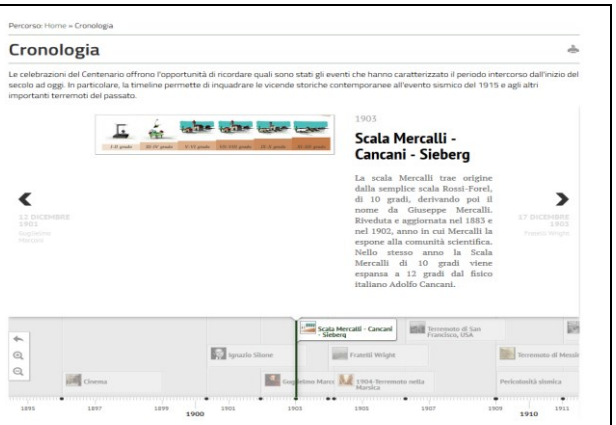


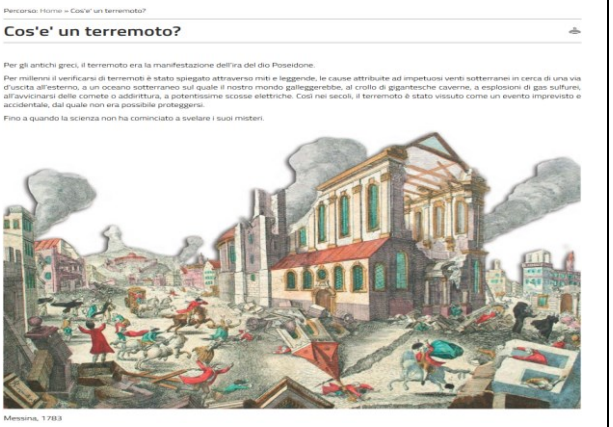


Pilot title	Federigo Melis in Africa Orientale 1940-1944. La guerra attraverso documenti e testimonianze dal suo archivio.
Short description	The exhibition presents digital documents related to the experience of military life and the prison camps of British Federigo Melis in East Africa during the Second World War. The work has two objectives: to introduce a period that deeply marked the life of the town, very influencing the choices for the future, and enrich the already vast reservoir of original testimonies related to the period of World War II, giving voice to the story of a man he faced the terrible events of that time.
Pilot institution	Foundation International Institute of Economic History Francesco Datini, Prato (Italy)
Curator team	Simonetta Cavaciocchi, Federica Nigro, Letizia Finocchiaro, Giampiero Nigro

Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Timeline, Map, Multimedia
Language	Italian
URL	http://movio.comune.prato.it/it/istitutodatini.it/federigo_melis_in_africa

4.1.29 *One hundred years after the earthquake of Marsica. 1915 - 2015*

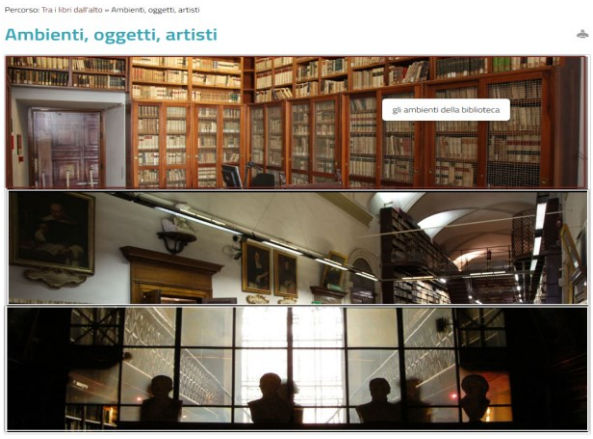


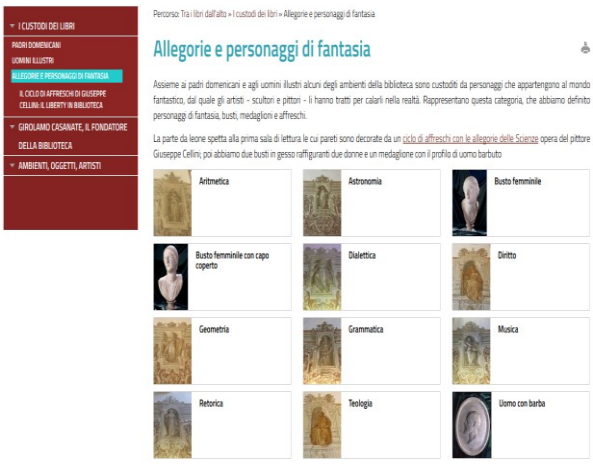


Pilot title	Cento anni dal terremoto della Marsica (1915 – 2015)
Short description	The virtual exhibition was carried out as part of the celebrations for the centenary of the earthquake of 1915 and the exhibition INGV: "1915- 2015: One hundred years after the earthquake of Marsica.". This project was staged with textual documents, iconographic and videos that are part of the scientific and documentary INGV, the Central State, the Historical Archive of Avezzano, the Historical Archive of Aquila and the Abruzzo Region, Wikipedia.
Pilot institution	National Institute of Geophysics and Volcanology – INGV, Rome (Italy)
Curator team	Clare Abbey, Anna De Santis, Stefania Conte

Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Timeline, Multimedia
Language	Italian
URL	http://marsica1915.rm.ingv.it/

4.1.30 *The keepers of the books. Portraits and history in a Roman library*

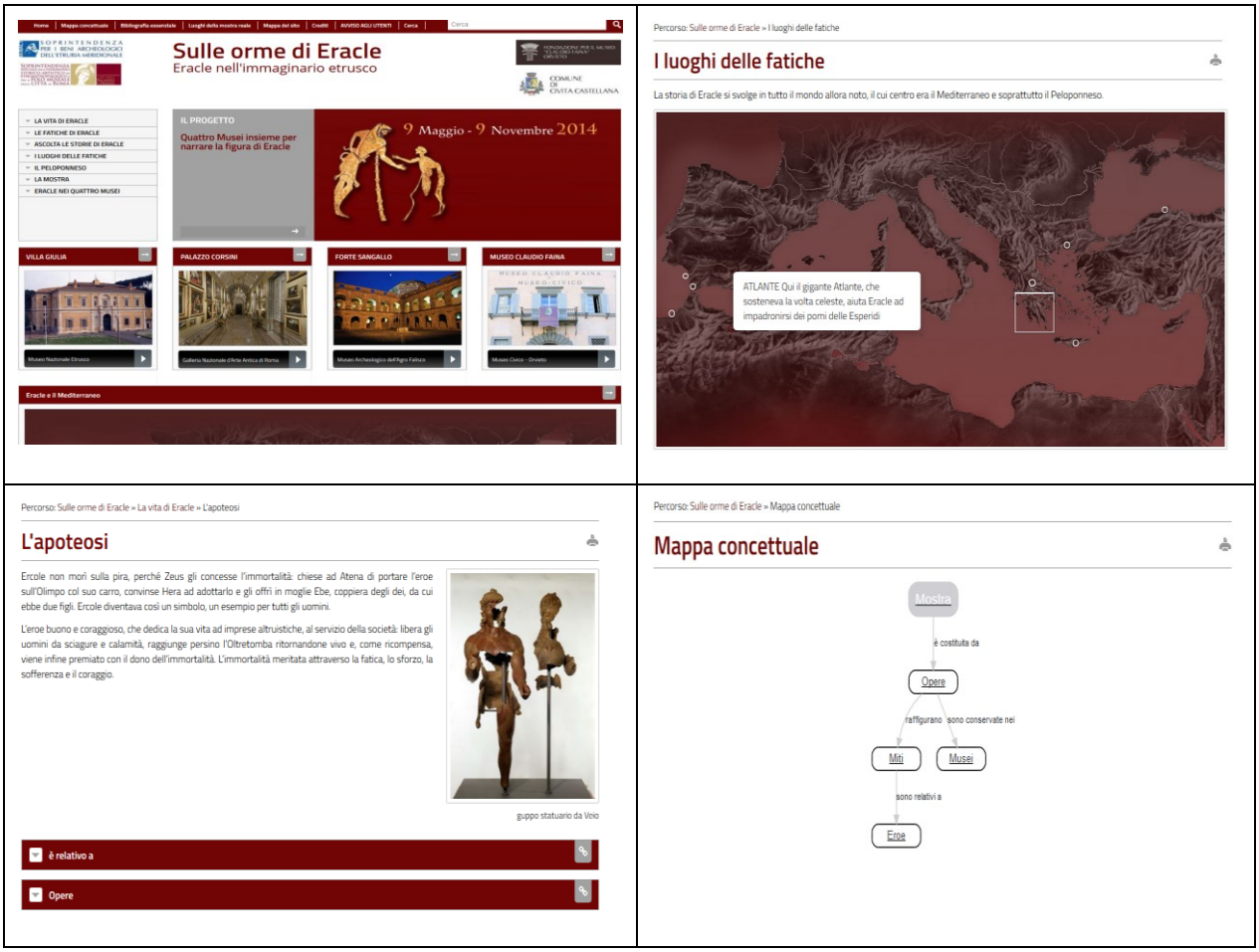




Pilot title	I custodi dei libri - Ritratti e storia in una biblioteca romana
Short description	The library Casanatense is populated by a series of portraits painted and sculpted by some of the men who over the centuries have "lived" and others, of which life and thought were an inspiration and example for those who frequent the great institution librarian Roman. All these characters (such, these men were released from their public representation) appear as impassive and vigilant guardians of the books, for which one worked much of his life and with whom others have passed down to posterity their thoughts or saw celebrated their deeds. From this reflection that the title of this first virtual exhibition (made Movio, (the SCMS developed ICCU, released in April 2014), with which we have set the goal of making visible an iconographic heritage, if we Minor, but

	of historical and documentary and not only for the institute that preserves it.
Pilot institution	Casanatense Library, Rome (Italy)
Curator team	Barbara Mussetto, Sabina Fiorenzi, Angela Vicini Mastrangeli, Sabina Fiorenzi, Mario Setter
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow
Language	Italian
URL	http://www.movio.beniculturali.it/bibcasanatense/custodideilibri/

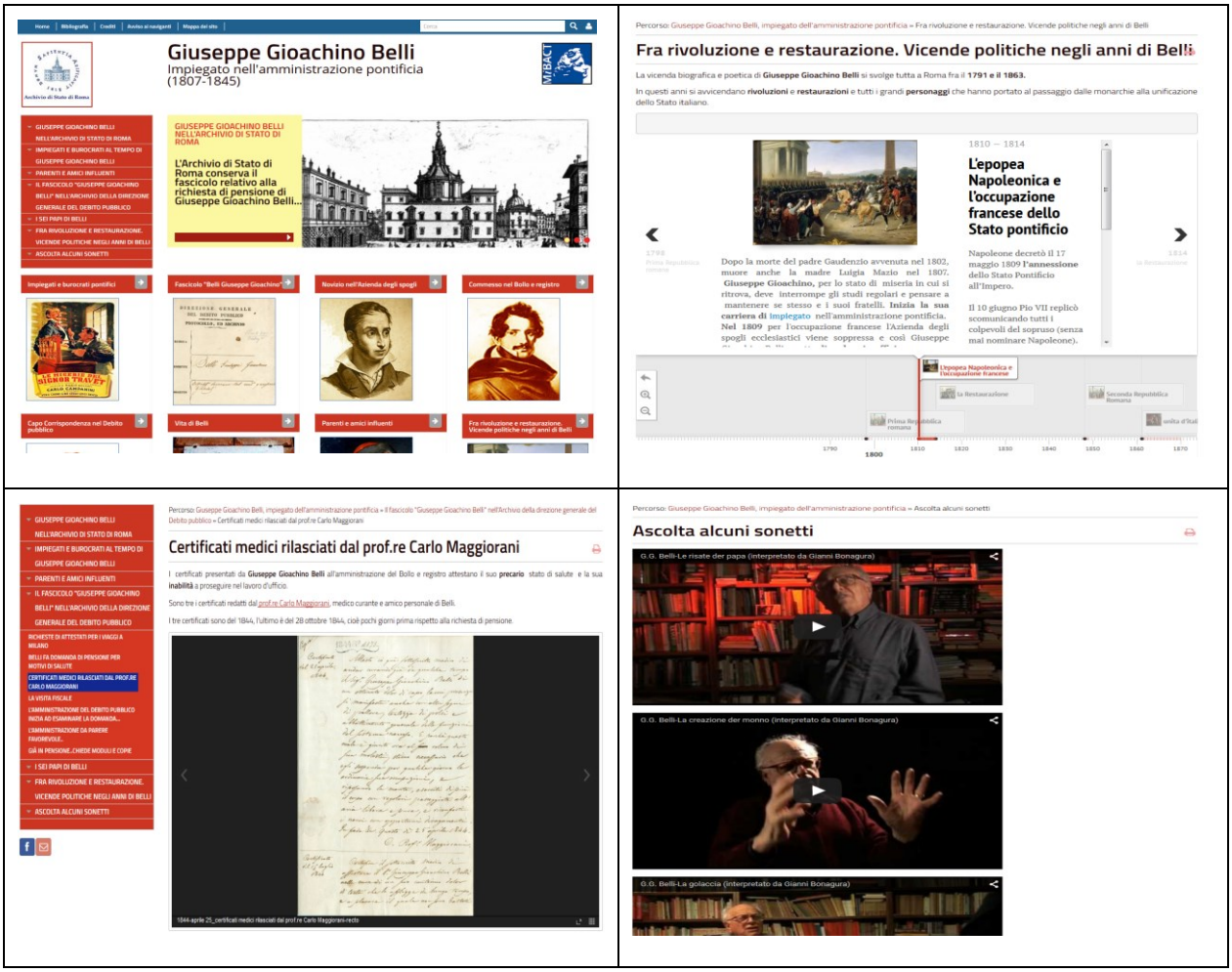
4.1.31 *In the Footsteps of Herakles. Heracles in the Etruscan Imaginary*



Pilot title	Sulle orme di Eracle - Eracle nell'immaginario etrusco
Short description	The idea of promoting a project dedicated to Heracles / Hercules comes from the awareness of the vitality that the saga of the hero has had - and continues to have - in time and space, a symbol of humanity, in effort and in comparison with the opposing forces, he can redeem up to award immortality. The 'greek

	Herakles, the' *Hercle* Etruscan, and Roman Italic Hercules offered the world a precious evidence of mythological and artistic heritage that has continued to stimulate the creativity of sculptors and painters closer to our time.
Pilot institution	Superintendence for Cultural Heritage of Southern Etruria, Rome (Italy)
Curator team	Flavia Trucco, Maria Teresa Natale, Julius Archina, Fabio Baliani, Mauro Benedetti, Andrea Vagni
Demonstrated modules/functionalities	Storyteller, Photogallery, Slideshow, Hotspot, Map, Ontology Builder
Language	Italian
URL	http://www.movio.beniculturali.it/sbaem/sulleormedieracle/

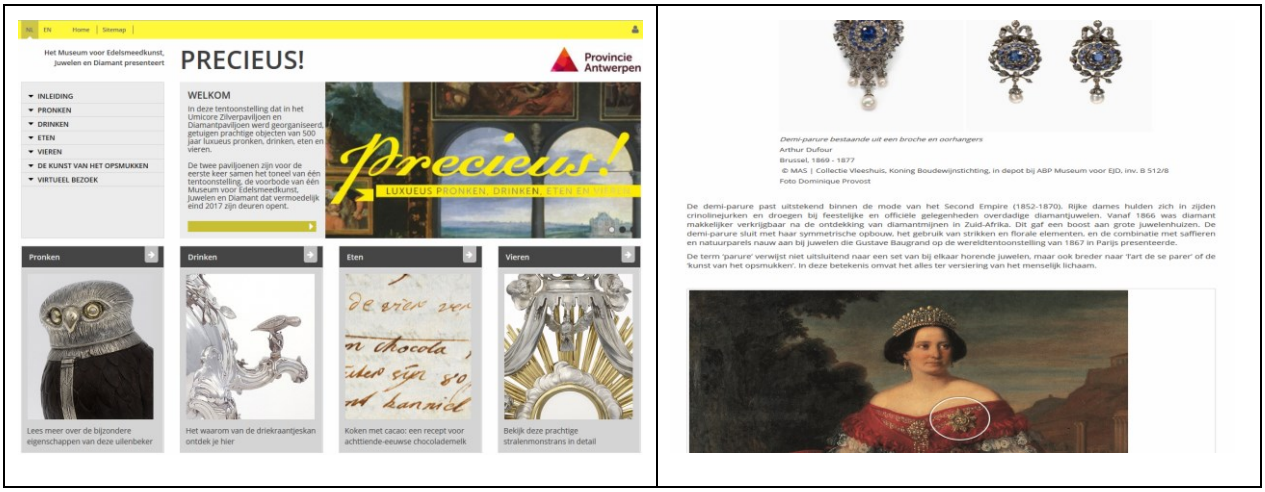
4.1.32 *Giuseppe Gioachino Belli, Employee of the Papal Administration, 1807-1845*



Pilot title	Giuseppe Gioachino Belli - Impiegato nell'amministrazione pontificia

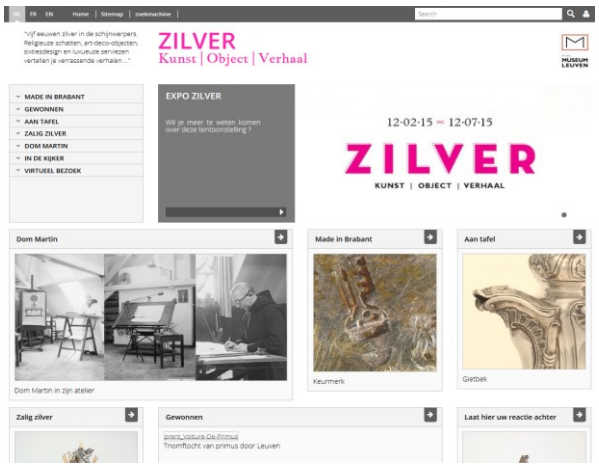
Short description	The great Roman poet Giuseppe Gioachino Belli was employed for various periods at the papal administration, and as such has played various roles in a career that definitely can be called anything but regular. Among the documents that the has the task of preserving, precisely in the archive of the Directorate General of Bollo, is the personal file of Giuseppe Gioachino Belli. This assortment collects the documents relating to his registers, mortgages, taxes, and his pension claim, filed Nov. 6, 1844. With these cards, you can reconstruct the career of 'employed' Belli, from the year 1807 year 1845, and so reconstruct the puzzle of his curriculum. We can thus follow the life of the great Roman poet that, because of the state of poverty in which he found himself after the death of his parents and in other difficult periods of his life, he ironically always had the illusion of a permanent job.
Pilot institution	State Archive of Rome, Rome (Italy)
Curator team	Marina Morena, Maria Teresa Natale, Paola Ferraris, Roberto Leggio
Demonstrated modules/functionalites	Storyteller, Photogallery, Slideshow, Timeline, Multimedia
Language	Italian
URL	http://www.movio.beniculturali.it/archivioroma/giuseppegioacchinobelliimpiegatonellamministrazionepontificia/

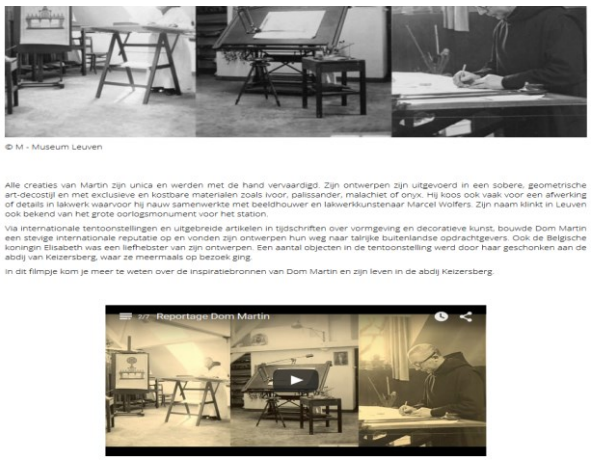
4.1.33 *Precious! Paintings as Witnesses of Ostentation*

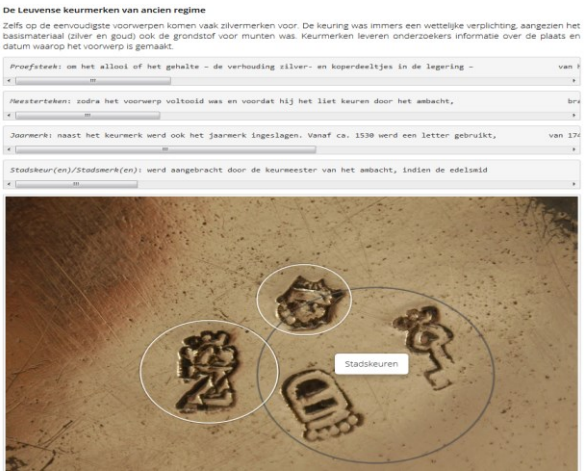


Pilot title	Precieus! Schilderijen als getuigen van praalzucht
Short description	This exhibition proposes a virtual voyage through the iconography of wealth and ostentatious display in the paintings of the Antwerp's Golden Age. The visitor can follow the variety and evolution of jewelry in the 17th and 18th centuries, and understand its symbolism and social meaning. This virtual exhibition was produced as an online companion to a physical exhibition.
Pilot institution	The Museum of Goldsmith, Jewellery and Diamonds, Antwerp (Belgium)
Curator team	Melissa Hodza, Romy Cockx
Demonstrated modules/functionalites	Storyteller, Photogallery, Hotspot
Language	Flemish
URL	http://54.247.69.120/build/movio/movioTraining31/

4.1.34 *Silver. Art, Object, Story*







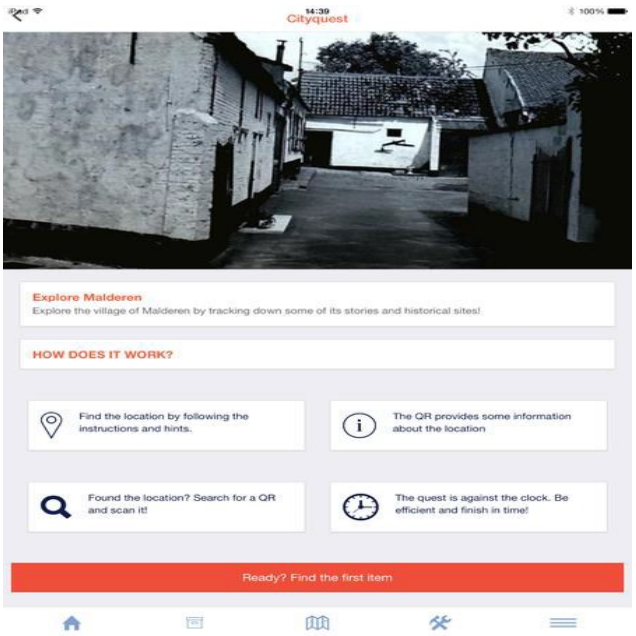
Pilot title	ZILVER Kunst | Object | Verhaal
Short description	This exhibition places five centuries of silver craftsmanship in the spotlight. Religious treasures, art deco objects, sixties design and luxurious dinnerware are presented and contextualized, telling the visitor amazing stories. The exhibition showcases more than 250 everyday objects and works of art produced on behalf of the city, the university, associations, churches, abbeys and monasteries This virtual exhibition was produced as an online companion to a physical exhibition.
Pilot institution	M – Museum Leuven, Leuven (Belgium)
Curator team	Alexandra Pauwels, Ko Goubert, Marthy Locht
Demonstrated modules/functionalites	Storyteller, Photogallery, Slideshow, Timeline, Multimedia, Social Media, User Interaction
Language	Flemish
URL	http://54.247.69.120/build/movio/movioTraining60/

4.2 City Quest

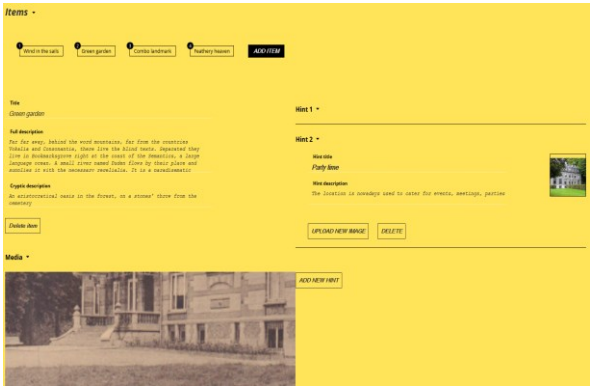
CityQuest allows cultural organisations to easily create a quest online, and publish it to a mobile app. Send your visitors around the city to discover items from your collection and the locations they are connected to.

Based on hints and media you track down an item, scan the QR code on its location and learn the (hi)story behind it.

The mobile app is free to download. The online interface is free to use upon registering. CityQuest is an open source application.



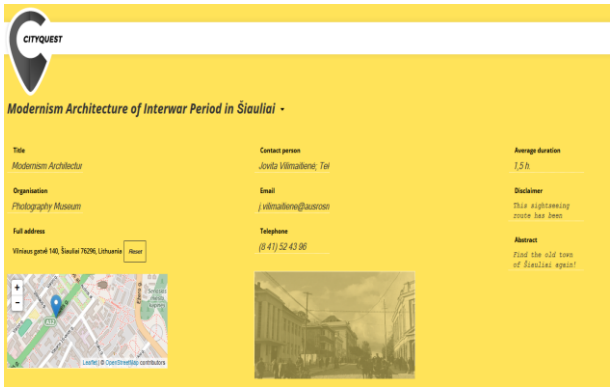
4.2.1 *Explore Malderen*

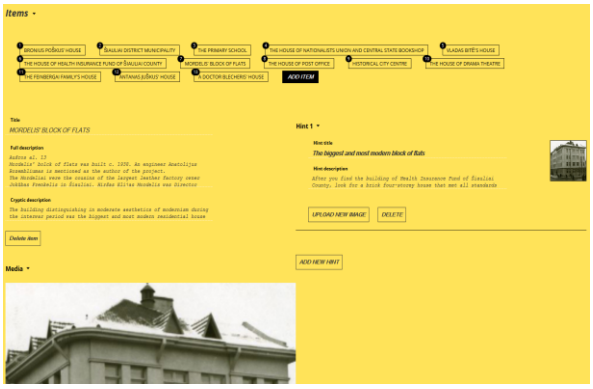


Pilot title	Explore Malderen
Short description	This test and training quest is meant to introduce potential users to the features and functionalities of CityQuest, and to be used as a showcase instance during training sessions. The topic chosen is the Flemish town of Malderen. The quest guides the trainee through four landmarks, in the process giving a sense of the creative tool's capabilities.
Pilot institution	PACKED, Centre of Expertise in Digital Heritage, Brussels (Belgium)
Curator team	Barbara Dierickx, Joris Janssens

Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	English
Mobile app access key	**zogehukiju**

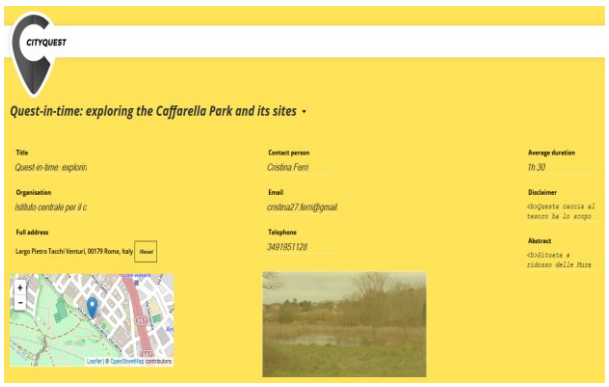
4.2.2 *Modernism Architecture of Interwar Period in Šiauliai*

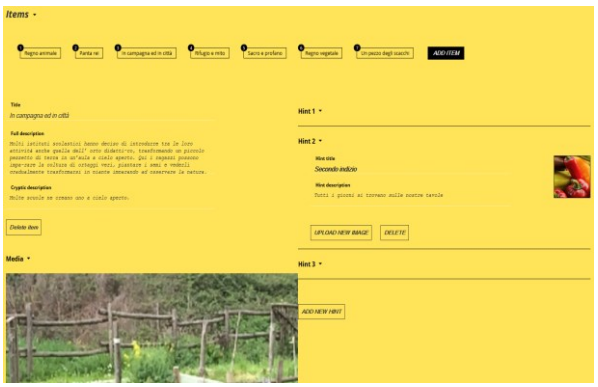




Pilot title	Šiaulių tarpukario modernizmo architektūra
Short description	Find the old town of Šiauliai again! This quest drives you through the cultural-heritage packed centre of Siauliai, in northern Lithuania, to discover its Modernist architectural treasures. A hidden route linking up thirteen points of interest is suggested to the visitors.
Pilot institution	Siauliai Art Museum, Siauliai (Lithuania)
Curator team	Jovita Vilimaitienė, Teklė Tomkutė-Vaičiulienė
Demonstrated modules/functionalities	Media Display, Cutlural Heritage Items, Hints, Map, QR Code
Language	Lithuanian, English
Mobile app access key	**kegoyefute** (Lithuanian), **kurikomazi** (English)

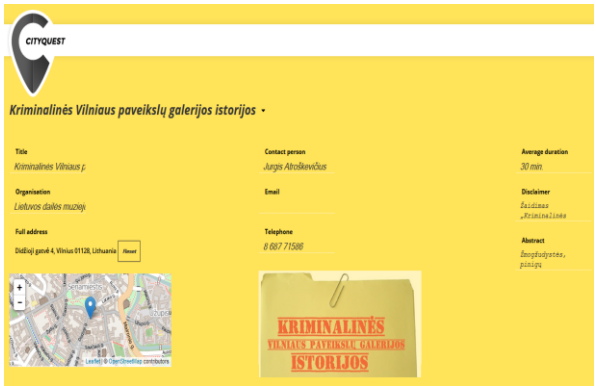
4.2.3 *Quest-in-time: Exploring the Caffarella Park and its Sites*

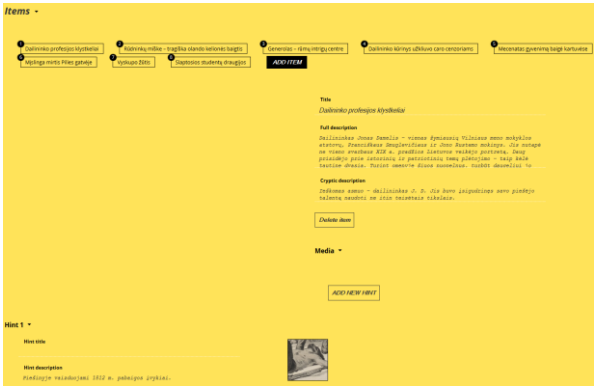




Pilot title	Quest-in-time: exploring the Caffarella Park and its sites
Short description	Located close to the Aurelian walls, between the Via Appia and the Via Latina , this valley park gets its name from the family who came to own it, the Caffarelli, creating a vast agricultural estate after they reunified and reclaiming various plots. From the Republican and throughout the Imperial age, the valley was densely occupied by large villas, temples, tombs and columbaria of which there are still valuable archaeological evidence. This quest allows the visitor to find out about these remains of past ages in a fun and active way.
Pilot institution	ICCU, Istituto Centrale per il Catalogo Unico, Rome (Italy)
Curator team	Maria Cristina Ferri, Maria Teresa Natale
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	Italian
Mobile app access key	**zihufekugo**

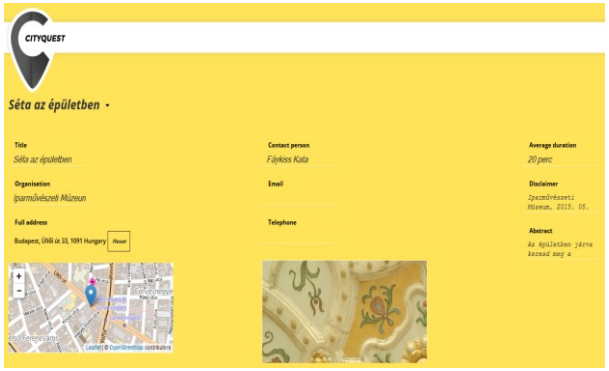
4.2.4 *The Criminal History of the Lithuanian Art Museum*

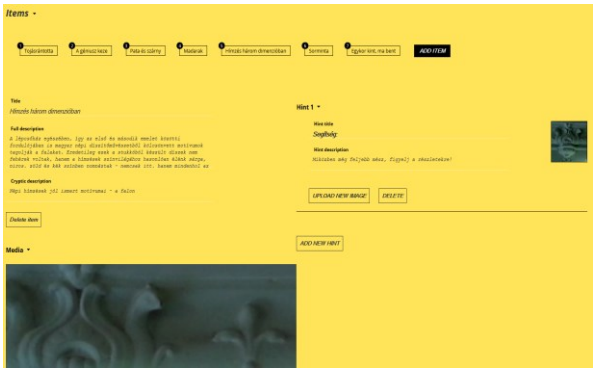




Pilot title	Kriminalinės Vilniaus paveikslų galerijos istorijos
Short description	Murder, money counterfeiting, conflict, intrigue, censorship, crimes and severe punishment... Start the game and discover the criminal side of the Lithuanian Art Museum! This quest will entice you to discover the dark story behind many of the items of the museum: robbed travelling artists, censored painters, counterfeiters who met a tragic end, and much more!
Pilot institution	Lithuanian Art Museum, Vilnius (Lithuania)
Curator team	Jurgis Atroškevičius, Donatas Snarskis
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	Lithuanian
Mobile app access key	**veboyedelu**

4.2.5 *A Walk Through the Iparművészeti Múzeum Building*





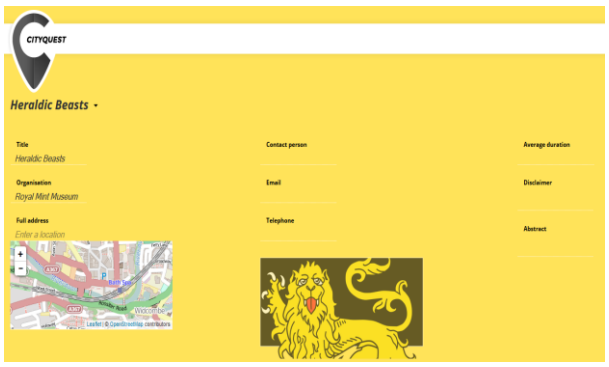
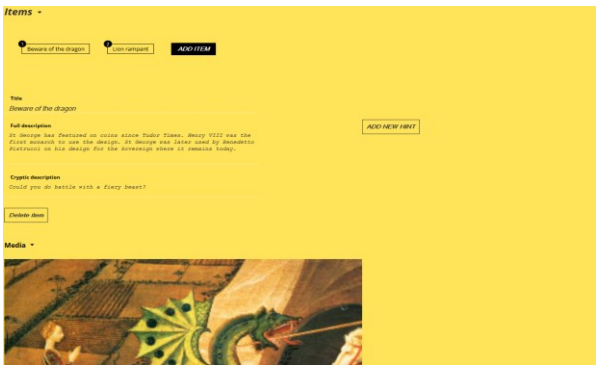
Pilot title	Séta az épületben
Short description	Learn more about the building in which the Museum of Applied Arts of Budapest is located! This remarkable construction, designed by Ödön Lechner in elaborate Art Nouveau style and completed between 1893 and 1896, has richly ornate interiors with Hindu, Islamic and Mogul decoration. Find out its hidden corners with this quest, which will bring you to seven stunning locations you don't want to miss out on.
Pilot institution	Museum of Applied Arts, Budapest (Hungary)
Curator team	Fáykiss Kata, Júlia Katona
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code

Language	Hungarian
Mobile app access key	**nakaceduza**

4.2.6 *Exploring Fashionable Bath*

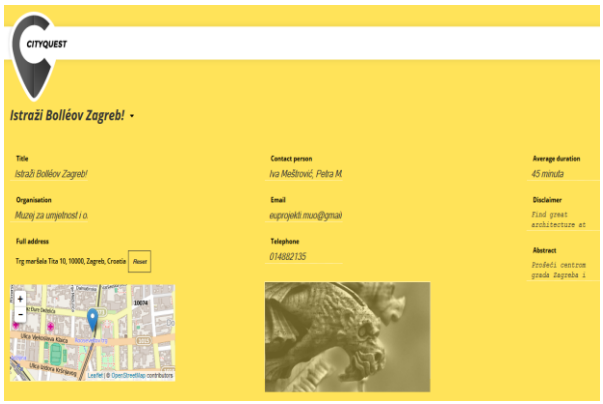
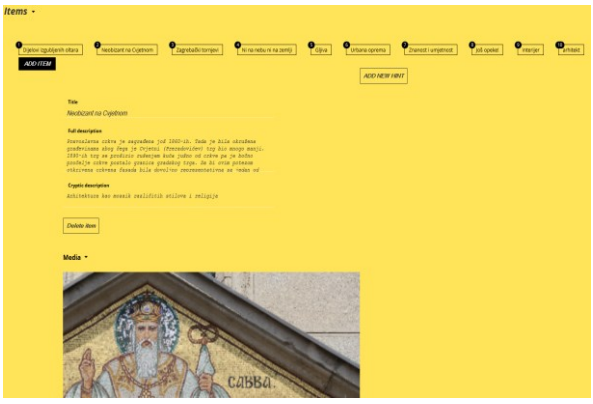
Pilot title	Exploring Fashionable Bath
Short description	This quest presents to the visitor a set of cultural heritage elements related to the mores and tastes of fashionable 18th century Georgian society in the English town of Bath.
Pilot institution	Bath Fashion Museum, Bath (United Kingdom)
Curator team	Maggie Bone
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	English
Mobile app access key	**vekocixihu**

4.2.7 *Heraldic Beasts*

Pilot title	Heraldic Beasts
Short description	This quest proposes to the visitor a trip to the heradic imagery present in many items of coinage, from the Middle Ages to the current day. Visitors have the chance to explore the meanings and contexts of heraldic imagery in several of the coins of the collection, and in the process discover the museum in a fun way.
Pilot institution	Royal Mint Museum, Llantrisant (United Kingdom)
Curator team	Kevin Clancy
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	English
Mobile app access key	**nudecehide**

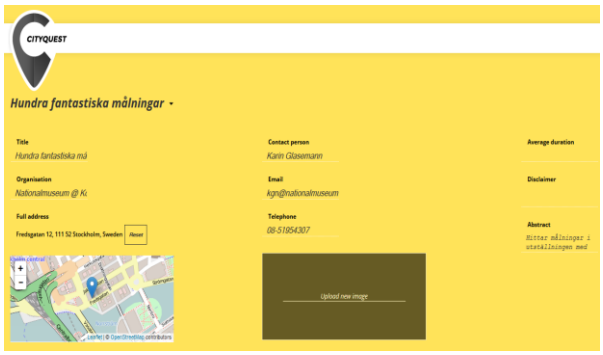
4.2.8 *Explore Bolle's Zagreb!*

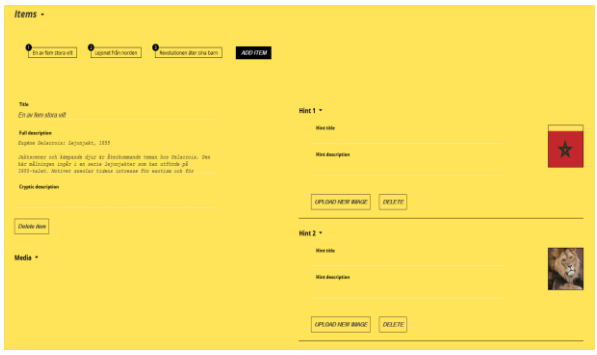
	

Pilot title	Istraži Bolléov Zagreb!

Short description	Grab this quest and walk downtown Zagreb, exploring some of the most important works of Herman Bollé, one of the most important architects in the late 19th century Zagreb. The quest will bring you to ten historical landmarks in the old centre of the Croatian capital.
Pilot institution	MUO, Museum of Arts and Crafts, Zagreb (Croatia)
Curator team	Vesna Lovrić Plantić, Iva Meštrović, Petra Milovac
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	Croatian
Mobile app access key	**woletoruwi**

4.2.9 *One Hundred Stunning Paintings*



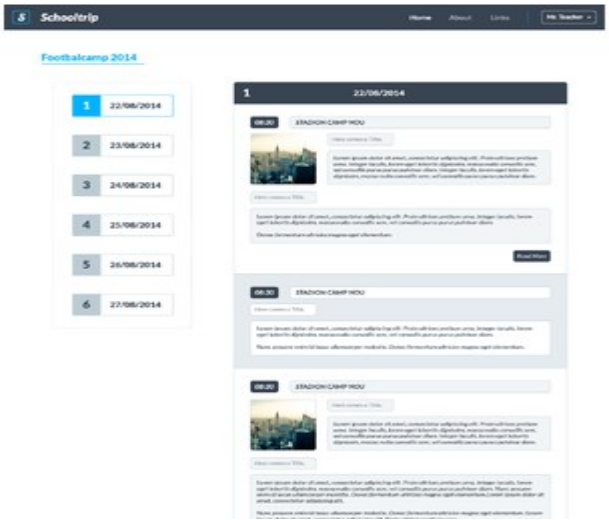


Pilot title	Hundra fantastiska målningar
Short description	Discover the collection of the Swedish National Museum at the Royal Academy of Fine Arts. Find paintings in the 'One Hundred Studding Paintings' exhibition of the museum, with the help of clues the app gives you. This quest gives you a foretaste of the full exhibition, by guiding you in a riddle-packed quest to discover three of the most relevant pieces in the exhibition.
Pilot institution	RA, Swedish National Museum at the Royal Academy of Fine Arts, Stockholm (Sweden)
Curator team	Karin Glasemann
Demonstrated modules/functionalities	Media Display, Cultural Heritage Items, Hints, Map, QR Code
Language	Swedish

Mobile app access key	**poleteruwi**

4.3 School Trip

Schooltrip is a tool that allows students to create their own school journey. Through an online interface the teacher can set a couple of parameters defining the skeleton of the trip.



Students fill the template with information on practicalities, cultural heritage sites to visit, historical information, and so on. They learn to plan a travel from a to z, while incorporating our cultural heritage. At the end, a journal-like document is generated which can be used as itinerary guidebook.

The SchoolTrip programme is free to download and install. SchoolTrip is an open source application.

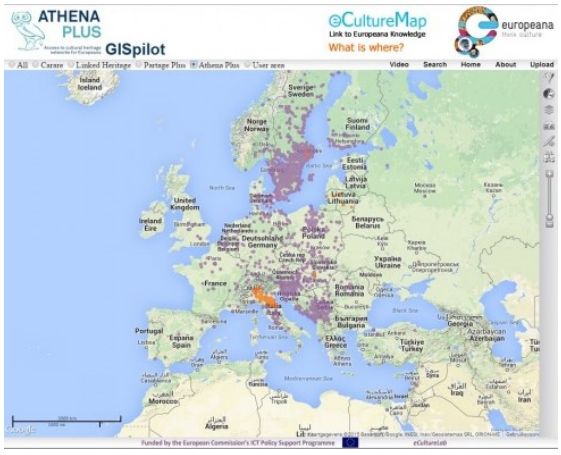
4.3.1 *A word on the idiosyncrasy of School Trip pilots*

Because of its particularities, the testing and training activities with School Trip have not yielded a set of pilots in a way which is comparable to those with MOVIO, City Quest or the eCultureMap 2.0. With these three creative tools the activities of the test users have led to the creation of pieces of work that can be meaningfully displayed, be it virtual exhibitions, cultural quests, or geolocalised cultural heritage contents. Conversely, with School Trip, the value of piloting has laid not in the particular outputs of the users' work, but rather in the students' learning experience itself, and the invaluable comments and suggestions contributed by the communities of users to help refine their requirements.

For further reference and clarification, examples of work with School Trip can be found in the training pages in the wiki (see http://wiki.athenaplus.eu/index.php/SchoolTrip)

4.4 eCulture Map 2.0

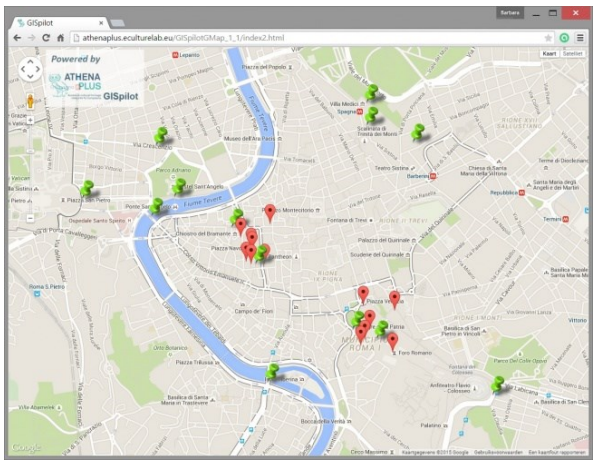
The eCultureMap has been developed to demonstrate the use and re-use of Europeana, AthenaPlus and other digital cultural heritage content, when browsing the content geographically.

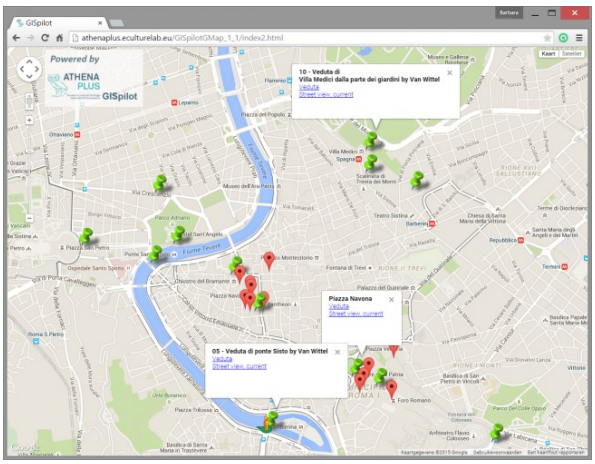


The eCultureMap has been the subject of a pilot action in the framework of the AthenaPlus project, for which several powerful features have been developed and packed into a 2.0 version.

Currently the map has three main uses: a user may find out what cultural content is present on a certain location, plan a cultural route or upload own content.

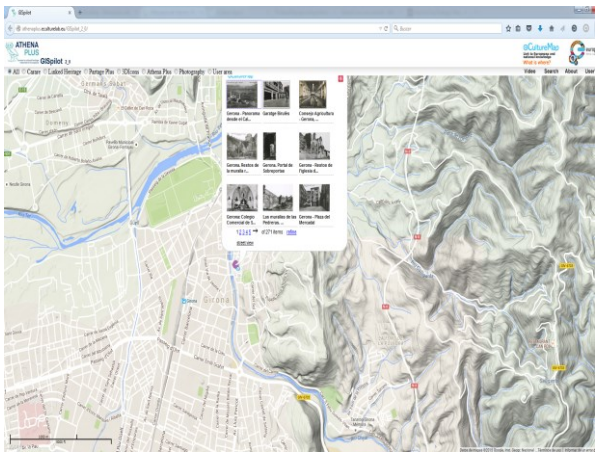
4.4.1 *Van Wittel's Vedutes*

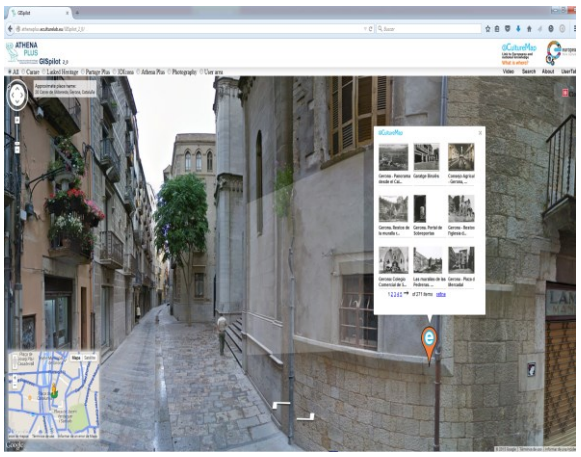




Pilot title	Van Wittel's Vedutes
Short description	The objective of this use case is to demonstrate the power of eCultureMap when reusing it in virtual exibitions. We have geocoded vedutes on a location from which the painter Van Wittel (17th century) had drawn them. The user can browse the vedutes in the central Rome through map interface and retrieve an image of a veduta and open Google Street View on a position in the city of Rome, at an exact location from which the painting was drawn.
Pilot institution	BNCR, The National Central Library of Rome, Rome (Italy)
Curator team	Marina Battaglini, Paola Puglisi, Franc Zakrajsek
Demonstrated modules/functionalities	Locate content, Plan a cultural route, Upload content, Map functionalities
Language	English
URL	http://athenaplus.eculturelab.eu/GISpilotGMap_1_1/index2.html http://54.247.69.120/build/movio/bncr/it/55/eculture-map

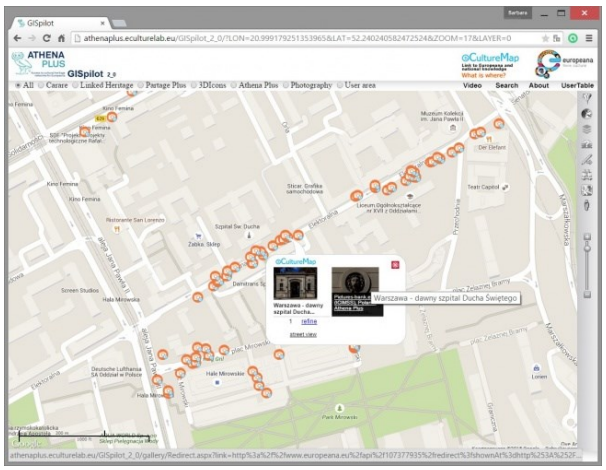
4.4.2 *Geocoding historical photographs (Girona City Council, Spain)*

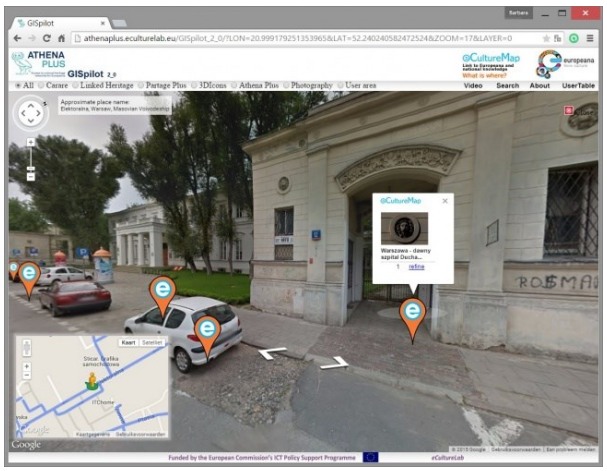




Pilot title	Geocoding historical photographs
Short description	The objective of the use case is to demonstrate the use of AthenaPlus GISPilot eCultureMap when geoparsing place names and finding the "exact coordinates" of historical photos. Geocoding procedures in the AthenaPlus GIS pilot are updated to facilitate the process and enabling exact determination of the geocodes with the image of the object in geocoding process displayed on a map.
Pilot institution	Girona City Council, Girona (Spain)
Curator team	David Iglésias, Franc Zakrajsek
Demonstrated modules/functionalities	Locate content, Upload content, Map functionalities
Language	English
URL	http://wiki.athenaplus.eu/index.php/ECultureMap_Geocoding_Historical_Photographs

4.4.3 *Architectural heritage*





Pilot title	Architectural heritage
Short description	This use case has been prepared with the cooperation of the Polish AthenaPlus partner International Center for Information Management Systems and Services (ICIMSS). Over 25.000 photographs were included to the eCultureMap. The exact location of the location of a camera when taking the picture of an architectural heritage item, was geocoded and is now visible on the map with a camera icon.
Pilot institution	ICIMSS, International Centre for Information Management Systems and Services, Tórun (Poland)
Curator team	Sebastian Michalek, Piotr, Kozurno, Maria Sliwinska, Franc Zakrajsek
Demonstrated modules/functionalites	Locate content, Plan a cultural route, Upload content, Map functionalities
Language	English
URL	http://athenaplus.eculturelab.eu/GISpilot_2_0/?LON=20.9991792513539 65&LAT=52.240240582472524&ZOOM=17&LAYER=0

5 USER REQUIREMENTS

This section presents the requirements of the communities of users, which have been researched over the course of the testing and training activities within the AthenaPlus project. The section is to be understood as a compendium of the value added to the creative tools by the research on the activities of the communities of users, carried out in the framework of work package 6.

5.1 Methodology of user requirement analysis

After the users came into contact with the creative tools, be it at training sessions or during the course of testing activities, their eventual requests were recorded on location, shared online with the relevant consortium members, and processed through issue tracking dedicated platforms. The users' requests included questions about how to perform advanced functionalities; report bugs, and finally asked for improvements in functionalities. These advanced functionalities and additional feature requests enriched our understanding of these users' needs and, through further analysis and elaboration, led to a list of the requirements of these communities of users of the AthenaPlus creative tools for the purposes of cultural heritage, education and tourism. During the second half of the project, resources were devoted to the implementation of the most pressing and value-adding requirements; the rest of researched requirements remain listed as useful guidance for future development and increased sustainability of the creative tools.

The tables below list the requirements of the communities of users, identified from the interactions of the users with the AthenaPlus software. A total of four tables are included, one per each creative tool presented in the scope of this deliverable.

5.2 MOVIO Digital Exhibitions

User requirement	Component	Rationale	Status
Flexibility in POI connection in Google Map	Frontend, Maps	The possibility to connect only chosen points, for example only existing factories, was requested by several users. Initially it would connect random points with no further information given. Also, with the improvements now clicking on the route might give information (similar to Google maps, how to get from one point to another, time…).	Implemented in final release (IM)
Connect the ontology builder with Wikipedia and Europeana	Ontology Builder	The ability to populate the ontology with external categories and concepts was suggested. This was conceived as helping curators create the first items of the ontology, and to so do in a consistent way	IM

		with other related ontologies. To this end, and API was integrated to the ontology builder.	
Add a link to thesauri and entities in the Module Builder	Backend, Modules Builder, thesaurus	With the same intent as the previous entry, a thesauri link was added to the Module Builder	IM
Personalize the content to be viewed by users who subscribe to a specific profile created by the curator (such as: student, researcher, etc.)	Back-end and Front-end	Several professional users raised the point that different categories of visitors may have different information needs. Instead of one-size-fits-all content, curators now have the possibility to customize the experience for each visitor, for example setting two levels of discourse in their exhibitions, one with basic language for schoolchildren and one with more detailed explanations for amateurs.	IM
Possibility to set the page date changes	Back-end and Front-end	The option for the exhibition curator to set the last page update adds flexibility and control to the system. Previously it was set by the system, and could not be changed by the curator.	IM
Possibility to remove and hide user's comments when spam	User comments, back-end	Several cultural heritage professionals expressed their worries that allowing users to comment might lead to inadequate statements appearing in their virtual exhibitions, which would be part of their institutional websites. These concerns were addressed by adding a moderation capability for the exhibition's administrator.	IM
Automatic system to prevent non-human comments	User comments, back-end	Also linked to this moderation issue, there was the requirement to prevent malicious software from cluttering the user comment pages.	IM
Create a catalogue with all MOVIO virtual	MOVIO-HUB	To enhance the collective	IM

exhibitions (MOVIO-HUB), with search tool and calendar.		visibility of the virtual exhibitions made by the individual piloting institutions, a platform was suggested. Hence, the concept of MOVIO HUB was born.	
Harvest from existing and connected MOVIO instances the exhibition pages	MOVIO-HUB	To make it practical for virtual exhibition owners to showcase their MOVIO instances in the hub, an intermediate step was required: to create a special kind of page that would serve as a bridge between the two.	IM
Connect MINT to MOVIO	MOVIO and MINT	Some curators made the request of verifying the possibility to connect MINT to MOVIO, in order to enable the creation of improved exhibitions with more quality resources than the one presented in Europeana.	IM
Improved path building and path fruition to connect points of interest in the maps	Google Map	Improved path visualization in the map pages has a more appealing graphical display and aesthetic value.	IM
Create additional templates.	Graphical templates	The creation of additional templates to build more virtual exhibition types with MOVIO was the single most requested improvement at training events and pilot evaluation events.	IM
Create bootstrap-based templates (conceptually similar to Wordpress)	Graphical templates	This feature was requested by some of the larger institutions to allow their IT-proficient employees to customize the templates more easily.	IM
Tools to connect local DBs or import DBs to be presented and searched from the front-end	Modules builder	An advanced functionality that was suggested was to give the cultural heritage professionals who visit the exhibition the possibility to search the imported local database of the local institution. In such a way,	IM

		MOVIO can be used as a professional-oriented open data portal for the host institution.	
Sharing buttons to be managed from the back-end and published on the FE (Social connectors)	Share and social tools	Customising MOVIO's sharing buttons linked to social networks was important for some curators, who wanted to have control over which pages could be shared. The idea was to only allow sharing of the best-looking pages, thus positioning these as alternative 'entry points' of the virtual exhibition.	IM
Sharing the link on storytelling	Share and social tools	In line with the previous requirement, one of the most wanted candidates for 'entry point' was the storytelling page, as it allows for publishing of self-contained sub-stories within the virtual exhibition. Direct social media linkage of this page type was requested.	IM
One-click multiple item management	Media archive	During the course of the testing activities, many curators detected tasks which could be optimized. Most of these related to having to perform the same action again and again for a group of items, one item at a time (i.e. deleting multiple items). A 'batch mode' was suggested to deal with this pain point.	IM
Add languages: IT, CA, DE, ES, FR, LT, NL	Interface terms translation	To increase the appeal and of the creative tool and promote its usage with non-English-speaking users, local versions of the software are indispensable.	IM
Add a 'hide' button to multilingual pages	Backend, Frontend, Multilingualism	This would allow the hiding of extra languages in order to create the pages and publish them all together (at language level, not at page level).	Available for future sustainability (FU)

Automatic image optimal size advisor	Backend, Frontend	Several users reported that the process of manually adding images to the MOVIO pages and selecting their display size could be very time-consuming, especially in the event of having several images of different sizes. An algorithm that would resize the images for optimal visualization would improve the backend user's experience significantly.	FU
Ability to move the image in the position we like in the presentation galleries and presentation pages.	Backend, Frontend	Implementing this requirement would allow positioning the images so that the portion of highest interest is highlighted.	FU
Automatic filter from advertisement and automatic autoplay for some third party multimedia contents, such as Teche RAI.	Backend, video embedding	MOVIO enables the embedding of external video from YouTube and Vimeo, but some other sources would require a filter to be able to be used adequately.	FU
Possibility to select the order of the images in the Gallery.	Backend, Frontend, Gallery	To alter the automatic ordering of the images in the gallery pages, some curators had to resort to the trick of adding a number in the caption. This could be addressed if the presentation order for the images could be decided manually by the curator in the backend, instead of having them ordered by name automatically, as it is currently done.	FU
Option to put hyperlinks on images in timeline	Backend, Timeline	Just as it was requested in the map page, the individual items of the timeline could support multimedia elements, such as external links, embedded elements, audiovisual files, etc. This would greatly increase the cultural item reuse possibilities of this page type.	FU

Option for making page duplicates	Backend, zoom	There are certain pages that are similar in content or structure so allowing the user to make duplicates of a page would save him precious time.	FU
Option to move the positioning of the Insert/Edit image window	Backend, Frontend	It is not possible to move or resize Insert/Edit image window outside Edit page section. Being able to move the window anywhere on the back-end part of the page should allow the user to have a better overview. (http://54.247.69.120/build/movio/movioTraining39/)	FU
Option for resizing photo-galleries	Backend, Frontend	There should at least be an option for choosing gallery size. Because default size is too big in some cases (in storyteller type pages where there are a lot of records and texts).	FU
POI improvement: possibility to connect a chosen subset of POIs: a map with many POIs and few connected or groups of connections (path 1, path 2, etc.)	Maps	In some exhibitions, more than a single path is needed to explain the story adequately (i.e. in case of multiple voyages separated by stretches of time, such as Columbus travels). Currently, this can only be accomplished with multiple map pages, but ideally it should be done with a single map which would display several trajectories.	FU
Possibility to create Galleries in Google-maps	Maps	An alternate design solution for the above mentioned problem is the creation of map galleries, displaying a series of connected maps in the storyteller's fashion.	FU
Possibility to add more than one "Author" field.	Annotation	For some cultural heritage elements, it may be necessary to report more than a single author (i.e. with heavily damaged pieces, original author and author responsible of the restoration of the piece).	FU

Option for moving and resizing certain windows	Frontend	When working on an article or entering data for a certain entity a new grey window appears. This window can't be moved or resized. This creates a minor problem when working with large image files in WYSIWYG because it forces the user to use the mouse for resizing multiple times.	FU
Importing terminologies from TMP	Backend, thesaurus	The possibility to import terminologies from the TMP into the MOVIO backend working environment was suggested as a way to populate with concepts certain pages (i.e. ontology builder), thus providing the curator with a time-saving mechanism.	FU

5.3 City Quest

User requirement	Component	Rationale	Status
Multilingual version of the app was created and a language updated was also done (adding more languages between first and second release). Current languages: EN, SP, CAT, NL, LT, HR, IT, DE.	Multilingualism	To increase the appeal and of the creative tool and promote its usage with non-English-speaking users, local versions of the software are indispensable.	Implemented in final release (IM)
There is the possibility to change your user password via the online interface.	Backend	The original process for changing passwords involved web-based mail servers. This complicated unnecessarily the process of first confirming the initial password, and later changing a new password in case of need.	IM
Changed the map (appearing at the end of Quest in app) from static to containing more navigation options and better zoom functionality.	Map	Field testing revealed that users expected more functionalities from the map view.	IM
Full online capability was pulled back in	App engine	Not having to rely on	IM

favour for the offline availability		potentially unstable internet connections was found out to be an advantage, especially in case of rural cultural heritage sites or with indoors use (i.e. basements).	
User-friendly visualization of map.	Map	OpenStreetMap was discarded for use of GoogleMap in the app, as OSM greyed out in the online interface (map did not render fully).	IM
App does not respond to change of device orientation (vertical or horizontal)	Frontend	Increased app responsiveness and flexibility of use will improve the user experience.	Available for future sustainability (FU)
Suggesting image recognition instead of QR-code scanning	Quest items	QR-code scanning is a proven and reliable technology, but has the drawback that it depends on the presence of an adequate QR-code display. This can be a problem with certain protected buildings, to which no alien elements can be affixed or placed in view. Also, vandalism and the inevitable wear and tear can add maintenance costs in outdoors use. For these reasons, the addition of image recognition or GPS tracking technologies can add robustness and versatility to the application.	FU
Display of multiple images in detail page of found item	Frontend	The display of multiple images, more texts and multimedia contents would enrich the quality and quantity of information given to the user, and make the whole quest more attractive and informative.	FU
Text separation in paragraphs, inserting more page breaks	Frontend	To improve the visualization of content and make it easier for children to assimilate the information, a more broken-down text display strategy was suggested.	FU

Possibility for uploading floorplan of a museum in case of indoor use (replacing the final map)	Frontend	Although originally conceived for outdoors use, early in the testing trajectories it was discovered that many museum curators and archivists also foresaw City Quest as a tool for indoors exploration of a museum.	FU
Centring of image box instead of left-top alignment	Frontend	Given the structure of the page layout, center-top alignment seems to make more sense to the users.	FU
'Double' confirmation of image selection is confusing (upload picture, then select 'set image for hint/item').	Backend	Double confirmation was deemed redundant and unnecessary, as there is no safety reason that would require it (no possible accidental loss of information).	FU
Online creation interface is not fully responsive for use on an iPad.	Frontend	Increased app responsiveness and flexibility of use will improve the user experience.	FU
Gamification of the quests.	Quest items	Creating a structure of rewards for the users to complete the tasks better and faster can contribute to make City Quest more 'playable' and exciting and thus, more enticing for children and young adults.	FU

5.4 School Trip

User requirement	Component	Rationale	Status
Europeana API content is selected based on a 'Can I use it?' rights statement	Europeana API	Test users expressed concern about the potential reuse of copyrighted content via the API. To build enough confidence in the system, it was essential to reassure users that the content they could access in Europeana was sufficiently cleared for reuse. This was achieved	Implemented in final release (IM)

		via an automatic filter, which shows to the user only the contents that she can legally reuse.	
More search functionalities via Europeana API	Europeana API	Education professionals expressed the need that it was essential that young users could adequately find the content they were searching for without undue frustration and in reasonable time. To this end, more search functionalities were added to the Europeana API, to make searches for content easier and more efficient.	Available for future sustainability (FU)
Enhancing visual elements in user interface (more attractive for younger users)	Graphical templates	The sleek and elegant visual design of the user interface is adequate for young adults and older children. However, to attract younger children, a more colourful and visually appealing interface would be useful.	FU
Multilingual versions of the programme	Multilingualism	To increase the appeal and of the creative tool and promote its usage with non-English-speaking users, local versions of the software will be indispensable.	FU

5.5 eCulture Map 2.0

User requirement	Component	Rationale	Status
Obtain what cultural content is linked to a certain location	Frontend	This is a refinement of the basic functionality of the eCultureMap: to allow a user to consult the geolocalised cultural heritage contents related to a particular location.	Implemented in final release (IM)
Plan your own cultural route	Frontend	Planning a personalized route linking geolocalised cultural heritage allows the	IM

		end user to interact more fully with the contents presented in the map, as it provides users from the areas of education and tourism with the possibility of planning their own trips, visualizing the spatial connections of related cultural items, or exploring the geographies of cultural heritage in a given territory.	
Upload your own content to be represented on the eCultureMap	Backend	This requirement empowers third party cultural heritage institutions to previously unavailable content to the creative tool, thus providing an avenue for future usage and extended sustainability prospects of the eCultureMap.	IM
Advanced map functionalities	Frontend	Beyond basic interactive map functions (zoom to all, zoom-in, zoom-out, pan), in the training sessions carried out for consortium members it became clear that more features were required. Thus, a series of map features were implemented. 1. Switching the basemap layer (available: Google Physical, Open Street Map, Google Satellite, Google Streets, Google Hybrid) 2. The user can use a filter tool to reduce the number of digital objects displayed on the map. Because of the different languages of meta data, the automatic translation from English to native languages is provided in the background by using Microsoft Translator V2 API (e.g. filter by “castle” displays heritage containing word “château”, “Schloss,” “slot”, “castello” in the title) 3. The search tool also performs searching by free text among map content and presents the location of the selected object on the	IM

		map - “Where is what?”. The search tool is performed by Europeana search API 2.0	

6 CONCLUSIONS

This deliverable has presented and described the complete set of AthenaPlus pilots, which constitutes one of the most important outcomes of the activities carried out within work package 6 of the AthenaPlus project. These pilots showcase the qualities of the AthenaPlus creative tools for the reuse of cultural contents, and aptly demonstrate their most attractive features. In addition to its dissemination and promotional value, these pilots also support the training activities, as they constitute a rich repository of ideas and best practices, from which future communities of users can derive inspiration for their own projects in the areas of cultural heritage, tourism and education.

The activities conducted in the piloting and training frameworks of the AthenaPlus project have also led to the identification of a new set of user requirements, which have been listed, classified and described in chapter 5 of this document. As detailed in deliverable D5.5, the most important requirements have been implemented in the final release of the creative tools, which constitutes a great leap forward in terms of bringing these software tools closer to the real researched needs of the communities of users. The additional requirements, which were not possibly implemented with the existing available resources, can provide guidance for the development of further versions of the creative tools, thus ensuring that the creative tools remain relevant for future generations of users.