

## DELIVERABLE 4.1.2

Graphic, multimedia, digital materials elaborated by the LP for own virtual museum

LP – Central Adriatic Ports Authority

Work Package	4 “Knowledge and usability of cross-border heritage of Adriatic Italian and Croatian ports”
Activity	4.1.1 “Virtual Museum setting up”
Phase Leader	PP9-UNIVPM
Deliverable	Del 4.1.2 “Graphic, multimedia, digital materials”

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The virtual museum of the port of Ancona realized by the LP – Central Adriatic Ports Authority is composed of 24 Points of Interest (POI) that collect a total of 47 digital contents, 7 authorial stories and 24 descriptive texts;

The cross-cutting topics and variegated typology of materials uploaded in the ADRIJO platform for the virtual museum of the Port of Ancona are the result of multi-source contributions coming from different artists, communication and content production companies, authors, cultural and scientific institutions that were selected and identified by LP-ADSPMAC and coordinated by the curator of the Virtual Museum of the Port of Ancona Cristiana Colli selected by ADSPMAC, under the overall supervision of ADSPMAC.

Moreover, according to the decisions taken during the project meetings by all partners, LP-ADSPMAC was also in charge of the realization of the common parts of the ADRIJO platform aimed at introducing the concept of the network Adrijo and of the common roots of the Adriatic ecosystem, represented by the 8 involved ports.

The present document summarizes the different contributors involved by ADSPMAC in the realization of the virtual Museum of the port of Ancona listed by author and POI.

**CRISTIANA COLLI:** journalist, creator and responsible for the organization of cultural and social projects, events, exhibitions, festivals on the topic of contemporary architecture, art and landscape, design for public and private bodies.

Curator of the Virtual Museum of the port of Ancona, contributor to the creation of the ADRIJO concept, and of the editorial aspects and contents of Adrijo Platform; coordination and supervision of the contents from the different authors and artists, author of all POI and video voiceover texts.

**ALESSIO BALLERINI:** video maker, video director, film maker, sound designer.  
Videos in the virtual museum of the port of Ancona:

- A Job with a View;
- Stefani Trivellini – The Fish Market: a story of fish and wind
- The Jewish Cemetery in Park of Cardeto;
- The Cliff Cafè
- A blend of technology and marvel
- A shifting landscape
- The port front
- Overlooking the sea
- Street Art
- A journey between two seafronts

Audio clip in the virtual museum of the port of Ancona:

- The city's port
- The containers landscape
- Marina Dorica
- A room in the sea surrounded by tetrapods

Photo galleries (in full or in part, according to the credits indicated in the platform) in the virtual museum of the port of Ancona:

- Moretta or Turchetto, in It's not good, it's delicious.
- The Mandracchio Fish Market
- The Arsenal
- The port of Ancona
- The city's port
- The containers landscape
- Marina Dorica
- A room in the sea surrounded by tetrapods
- A shifting landscapes
- Street Art

**PIERPAOLO FAVETTO:** writer, journalist, dramatist

Stories in the virtual museum of the port of Ancona:

- Port View, in The port front
- The Cardeto and The Roman Amphitheatre, in Overlooking the sea
- The Churches of the Port, in The Churches of the Port
- The Mole Vanvitelliana, in the Mole Vanvitelliana
- The Arch of Trajan, in The Arch of Trajan
- The Caves, in A journey between two seafronts

**PAOLO ZITTI:** photographer

Photo galleries in the virtual museum of the port of Ancona:

- The Arsenal
- The city's port
- The Portelle
- Overlooking the Sea
- The Churches of the Port
- The Mole Vanvitelliana

**MARCO MONDAINI:** speaker, voiceover of the videos in the virtual museum of the port of Ancona

**CENTRAL INSTITUTE FOR CATALOGUE AND DOCUMENTATION – ITALIAN MINISTRY OF CULTURE**

Contributions in photo galleries in the virtual museum of the port of Ancona:

- The port of Ancona;
- A shifting landscape

**MUSE FACTORY OF PROJECTS:** company dedicated to realization of editorial and multimedia projects, videos, video installations and websites

Realization of the video trailer in the home page of the Adrijo Platform and of the longer video with Prof. Franco Farinelli interview available in the page 'Ports'

**NUOVO TRADUTTORE LETTERARIO: translation company**

Realization of the translations from Italian to English of all the texts and subtitles of all POI

**THE CORSINI ARCHIVE – free collaboration**

Contributions for photo galleries in the virtual museum of the port of Ancona:

- The Arsenal
- The port of Ancona
- The city's port
- The port front
- The Mole Vanvitelliana
- The Arch of Trajan

**UNIVPM – DICEA department, project partner**

Author of the videos, digital and 3d models and 360 panoramic views of the following POI:

- The Mandracchio Fish Market;
- The City's Port;
- The Portelle
- The Captain's House;
- The Port Front
- The Mole Vanvitelliana
- The Trajan Arch;

## DELIVERABLE 4.1.2

Graphic, multimedia, digital materials: set of videos, animation, visuals, texts, interactive exhibit and any other material representing the contents of the virtual museums, elaborated by each partner on the basis of own selection of themes

PP1 – NASPA

Work Package	4 “Knowledge and usability of cross-border heritage of Adriatic Italian and Croatian ports”
Activity	4.1.1 “Virtual Museum setting up”
Phase Leader	PP9-UNIVPM
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## INTRODUCTION

The North Adriatic Sea Port Authority (PP1 - NASPA) create 34 POIs related to the Ports of Venice and Chioggia.

Here in the documents are listed the main graphic, multimedia, digital materials of the first 10 contents uploaded in the Adrijo common platform and the 24 POIs uploaded – for the local level - in the Virtual Museum of the Ports of Venice and Chioggia.

The initial 34 points of interest are closely linked to the port's past and present history, featuring places such as Venice, Marghera and Chioggia. In the future, it will be possible to implement them and increase their number by adding new POIs as they become available.

PP1 NASPA produced texts, photos, audio, short videos, links to external products (in some cases) and multimedia files such as virtual tours and impressive 360° panoramic top views of port-related places.

All multimedia contents are available in Italian and English. 10 POIS are available on [www.adrijo.eu](http://www.adrijo.eu) also in Croatian.

## GRAPHIC, MULTIMEDIA, DIGITAL MATERIALS

All the materials realized by the PP1 NASPA are focused on the role of the relation with sea, maritime trades and industry in order to rediscover the places of past and current port activities, the fishing tradition, trade routes, shipbuilding, crafts and entrepreneurial endeavours linked to the ports of Venice and Chioggia.

Texts, photos, audio-visuals, virtual visits with 360° panoramic views and interactive tours were produced to implement the Adrijo Platform and the Virtual Museum of the Ports of Venice and Chioggia.

In particular:

- A special photographic campaign was conducted for the creation of navigable 360° panoramas of the points of interest.
- Three virtual itineraries were created, using augmented reality to allow the user to rediscover the port as a resource. With the use of virtual tours people can access documents, images and artefacts that bear witness to this heritage, as well as archaeological finds and spaces that are not always available to the public or that cannot be seen in person at the time. QR codes allow you to complete the 3D visit from a PC, tablet, smartphone or with 3D VR glasses, where the real and the virtual come together. To make the virtual space truly interactive and allow the user to explore what they are looking at, tags have been created for the itineraries. These feature descriptions and texts that go into more detail, as well as images, videos and links to web pages.

### a) UPLOADED IN THE ADRIJO PLATFORM

The following 360° panoramas were therefore realised and uploaded to the REMEMBER project platform:

1. The Arsenal: Sail Tower
2. Punta della Dogana
3. *Fondaco* of the Germans
4. Stucky Mills
5. Cotton Mill Tower (IUAV)
6. Pilots' Tower (Malamocco)
7. Virtual Heritage Tower
8. Clock of the lighthouse - Chioggia

The following Virtual Tours were therefore linked to the REMEMBER project platform:

1. THE LAGOON FISHING
2. MUSEUM OF THE SOUTHERN LAGOON, THE FISHING PORT OF CHIOGGIA
3. ARSENALE, "THE HOME OF INDUSTRY"

	Number
<b>MULTIMEDIA/DIGITAL/GRAPHIC MATERIAL</b>	
<b>VIRTUAL TOURS</b> <i>of two museums in Italian and English</i>	<b>3</b>
<b>PANORAMIC PHOTOS</b>	<b>7</b>
<b>VIDEOS</b>	<b>4</b>
<b>AUDIO</b>	<b>9</b>
<b>PHOTO GALLERY</b>	<b>10</b>
<b>TOTAL</b>	<b>33</b>

<b>Category</b>	Tradition & culture
<b>Sub-category</b>	Knowledge
<b>POI</b>	THE LAGOON FISHING
<b>multimedia/digital/graphic material</b>	<b>n.1 video, n.1 virtual tour</b>
<b>Sub-category</b>	Knowledge
<b>POI</b>	MUSEUM OF THE SOUTHERN LAGOON, THE FISHING PORT OF CHIOGGIA

<b>multimedia/digital/graphic material</b>	<b>n.1 video, n.1 virtual tour</b>
<b>Sub-category</b>	Knowledge
<b>POI</b>	THE TRADES OF THE SERENISSIMA: THE ARSENAL
<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo</b>
<b>Sub-category</b>	Knowledge
<b>POI</b>	NAVIGATION IN THE LAGOON: ADMIRALS, PILOTS AND TUGS
<b>multimedia/digital/graphic material</b>	<b>n.1 video, n.1 panoramic photo</b>

<b>Category</b>	Stories
<b>Sub-category</b>	Route&Maps
<b>POI</b>	SANTA MARTA AND SAN BASILIO. THE 19TH CENTURY PORT
<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo</b>
<b>Sub-category</b>	Route&Maps
<b>POI</b>	DOGANA DA MAR, OR CUSTOMS HOUSE
<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo</b>

<b>Sub-category</b>	Economies
<b>POI</b>	INDUSTRY IN EARLY-20TH CENTURY VENICE: MOLINO STUCKY
<b>multimedia/digital/graphic material</b>	<b>n.1 video, n.1 panoramic photo</b>

<b>Category</b>	Heritage
<b>Sub-category</b>	Sea Cultures
<b>POI</b>	THE FONDACI: THE SERENISSIMA'S TRADE MECHANISMS
<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo</b>
<b>Sub-category</b>	Sea Cultures
<b>POI</b>	ARSENALE, "THE HOME OF INDUSTRY"
<b>multimedia/digital/graphic material</b>	<b>n.1 video, n.1 virtual tour</b>
<b>Sub-category</b>	Harbor Landscape
<b>POI</b>	VENICE HERITAGE TOWER, THE 20TH CENTURY INDUSTRIAL PORT
<b>multimedia/digital/graphic material</b>	<b>n.1 video, n.1 panoramic photo</b>

**b) Mobile application**

PP1 NASPA create and implement a mobile application for the use of content related to the Virtual Museum of the Ports of Venice and Chioggia.

This open source, non-proprietary code and web-based application was developed for mobile use both on-site and off-site and is equipped with a CMS (Content Management System) to ensure content management and updating.

The core of the system is the Django web framework, developed in the Python language. Django is an open-source framework used for the development of web applications, which follows the Model-View-Template pattern (similar to the famous MVC pattern and specialised for web applications).

The framework's external interface is managed by the Nginx web server, which interfaces with Gunicorn, a module that establishes communications and interactions with the application web part.

Django comes with an excellent ORM (Object-Relational Mapper) that provides a high-level abstraction on a relational database. Our solution will use the SQLite3 DBMS.

The flexibility of the web framework makes the software independent of the database used, also guaranteeing compatibility (through migration) with other open-source (such as MySQL) or commercial products (Oracle, DB2, etc.).

The modification and search of fields in the DB tables is of course guaranteed and always managed transparently via ORM.

The goodness, reliability and robustness of Django are proven by its use in widely used platforms such as Instagram, Spotify, NASA, DropBox, Washington Post, Google Person Finder, etc.

With regard to the reporting system, it should be noted that the App acquires some navigation data of users, in particular the contents displayed and the date and time of opening the contents, for the sole purpose of obtaining collective statistical information (therefore ANONYMOUS and impersonal) on the use of the App

No information is collected to enable subsequent identification of the user.

Potentially identifiable data such as IP address and device ID (UUID) are immediately anonymised by means of a HASH function, so that they can always be collected anonymously and collectively.

On the subject of the purposes for which the Data collected are processed, it should be noted that they are acquired to enable the Data Controller to:

- to be able to best provide the service offered by the app and requested by the user;
- develop statistics in order to improve the Port Authority's cultural offer.

The data collected are never used for reasons other than those stated in the specific information sheet.

For the Mobile application twenty-four physical/thematic POIs were identified, collected within three itineraries that can be used both on-site via geolocation and remotely. Each POI has an in-depth textual sheet, an image gallery that visually contextualises the POI with photos of yesterday and today, and an introductory video mini-pillow.

All contents were produced in Italian and English.

Bellow the list of themes that are activated in the presence of the selected POIs (physical points):

1. San Marco quays and Venetian Mude
2. Special transport in the era of the Serenissima
3. Ancient trades of the Venetian lagoon
4. The Arsenal: secret weapon of the Serenissima
5. Warehouse and *fondaci*: urban structures in the service of goods
6. Rialto: the mercantile heart of medieval Europe
7. The industrial port at Santa Marta and San Basilio, 1880s
8. Stucky Mills: genius in industry
9. Punta della Dogana: world's most beautiful customs office
10. Innovation and computerisation: customs today
11. Porto Marghera: leadership in agri-foods
12. For every product a warehouse
13. Venezia Heritage Tower: alliance of port and industry at Marghera
14. Shipbuilding in the Venice lagoon: fishing boats to mega-yachts
15. A hub for manufacturing and agri-foods of the Italian northeast
16. A port system serving European manufacturing
17. Break Bulk: when transport is an art

18. Fishing at Chioggia: a millennial tradition
19. Chioggia: queen of Adriatic fishing
20. The art of the squeraroli in historic Chioggia
21. Intermodal: always the competitive advantage of Venice
22. The venetian lagoon: a perfect yachting home
23. Evolution of land-sea relations at Chioggia
24. The pilots of the lagoon: avant-garde technology, millennial tradition

The Routes section develops 3 thematic areas, within which visit experiences grouping individual POIs are collected:

1. Yesterday's Veneto Port system\_ approximately 7-minute video documentary illustrates activities, trades, routes and economies related to the port in the past. A professional speaker's voice over binds and stitches the narrative.
2. Today's Veneto port system\_ video documentary President of the Port System Authority of the Northern Adriatic Sea - Ports of Venice and Chioggia in the video-documentary The Port Today. A professional speaker's voice over binds and stitches the narrative.
3. View from above\_ presents a storytelling based on the relationship between city and port between past and present, approached from the unusual perspective of the view from above. For this purpose, special drone filming campaigns were carried out on the city and the various points of narration.

A special photographic campaign was conducted for the creation of navigable 360° panoramas of the points of interest shared as fundamental and usable from the special section of the App. The following 360° panoramas were therefore realised:

1. The Arsenal: Sail Tower
2. Punta della Dogana
3. *Fondaco* of the Germans
4. Stucky Mills
5. Cotton Mill Tower (IUAV)
6. Pilots' Tower (Malamocco)
7. Virtual Heritage Tower
8. Clock of the lighthouse – Chioggia



The following Virtual Tours were therefore uploaded in the mobile app (as said also in the REMEMBER project platform):

1. THE LAGOON FISHING
2. MUSEUM OF THE SOUTHERN LAGOON, THE FISHING PORT OF CHIOGGIA
3. ARSENALE, “THE HOME OF INDUSTRY”

MULTIMEDIA/DIGITAL/GRAPHIC MATERIAL	Number
<b>VIRTUAL TOURS</b> <i>of two museums in Italian and English</i>	<b>3</b>
<b>PANORAMIC PHOTOS</b>	<b>8</b>
<b>VIDEOS</b>	<b>24</b>
<b>TEXTS</b>	<b>24</b>
<b>PHOTO GALLERY</b>	<b>24</b>
<b>TOTAL</b>	<b>83</b>

POI	multimedia/digital/graphic material
<b>San Marco quays and Venetian Mude</b>	n.1 photo gallery, n.1 video
<b>Special transport in the era of the Serenissima</b>	n.1 photo gallery, n.1 video
<b>Ancient trades of the Venetian lagoon</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo
<b>The Arsenal: secret weapon of the Serenissima</b>	n.1 photo gallery, n.1 video, n.1 virtual tour
<b>Warehouse and fondaci: urban structures in the service of goods</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo
<b>Rialto: the mercantile heart of medieval Europe</b>	n.1 photo gallery, n.1 video
<b>The industrial port at Santa Marta and San Basilio, 1880s</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo

<b>Stucky Mills: genius in industry</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo
<b>Punta della Dogana: world's most beautiful customs office</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo
<b>Innovation and computerisation: customs today</b>	n.1 photo gallery, n.1 video
<b>Porto Marghera: leadership in agri-foods</b>	n.1 photo gallery, n.1 video
<b>For every product a warehouse</b>	n.1 photo gallery, n.1 video
<b>Venezia Heritage Tower: alliance of port and industry at Marghera</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo
<b>Shipbuilding in the Venice lagoon: fishing boats to mega-yachts</b>	n.1 photo gallery, n.1 video
<b>A hub for manufacturing and agri-foods of the italian northeast</b>	n.1 photo gallery, n.1 video
<b>A port system serving european manufacturing</b>	n.1 photo gallery, n.1 video
<b>Break Bulk: when transport is an art</b>	n.1 photo gallery, n.1 video
<b>Fishing at Chioggia: a millenial tradition</b>	n.1 photo gallery, n.1 video, n. 1 virtual tour
<b>Chioggia: queen of Adriatic fishing</b>	n.1 photo gallery, n.1 video
<b>The art of the squeraroli in historic Chioggia</b>	n.1 photo gallery, n.1 video
<b>Intermodal: always the competitive advantage of Venice</b>	n.1 photo gallery, n.1 video
<b>The venetian lagoon: a perfect yachting home</b>	n.1 photo gallery, n.1 video
<b>Evolution of land-sea relations at Chioggia</b>	n.1 photo gallery, n.1 video
<b>The pilots of the lagoon: avant-garde technology, millenial tradition</b>	n.1 photo gallery, n.1 video, n.1 panoramic photo

## PP2

### DELIVERABLE 4.1.2

Graphic, multimedia, digital materials: set of videos, animation, visuals, texts, interactive exhibit and any other material representing the contents of the virtual museums, elaborated by each partner on the basis of own selection of themes

## INTRODUCTION

The Port of Ravenna Authority (PP2) created 45 POIs about the history and culture related to the Port of Ravenna. Here in the documents are listed the main topics of the first 30 contents.

Main topics are:

- the establishment of the free port
- the history of the growth of the port during the centuries
- the role of the port connected to the growth of the city
- port skills and jobs yesterday and today
- the iconic monuments linked to the sea and the city of Ravenna

The VM is composed of texts in Italian and English, photos, short films and panoramic photos.

## GRAPHIC, MULTIMEDIA, DIGITAL MATERIALS

The Port of Ravenna Authority realized the following materials:

MULTIMEDIA/DIGITAL/GRAPHIC MATERIAL	Number
<b>VIDEO INTERVIEWS</b> <i>with English subtitles</i>	<b>1</b>
<b>DRONE FOOTAGE VIDEO</b>	<b>1</b>
<b>VIRTUAL MAP</b>	<b>1</b>
<b>TOTAL</b>	<b>3</b>

The digital materials listed in the following table are published on the VM of the Port of Ravenna in Italian and English:

<b>Category</b>	Tradition & culture
<b>Sub-category</b>	
<b>MYTHS</b>	Garibaldi's Hut
<b>LIFE STYLE</b>	Ravenna Pinewoods
<b>PEOPLE</b>	The dock workers union of Ravenna
<b>KNOWLEDGE</b>	Red Desert
<b>PEOPLE</b>	Serafino Ferruzzi
<b>PEOPLE</b>	Elisabetta Montanari

<b>Category</b>	<b>Stories</b>
<b>Sub-category</b>	
<b>Economies</b>	The Ex SIR warehouse
<b>Economies</b>	The P.I.R. facility
<b>Economies</b>	The Fabbrica Vecchia and the Marchesato
<b>Relations</b>	The seaside resort of Porto Corsini
<b>Route&amp;Maps</b>	The train station
<b>Relations</b>	The
<b>Economies</b>	The Almagià building
<b>Economies</b>	The C.M.C.
<b>Relations</b>	The Seaside Hostel of Marina di Ravenna
<b>Relations</b>	Restaurants by the sea
<b>Economies</b>	The Hamon Towers

<b>Category</b>	HERITAGE
<b>Sub-category</b>	
<b>City Monuments</b>	<b>The Statue of Costanzo Ciano</b>
<b>City Monuments</b>	<b>The Monumental Cemetery of Ravenna</b>
<b>City Monuments</b>	<b>The church of Saint John the Evangelist</b>
<b>City Monuments</b>	<b>The sailor monument</b>
<b>City Monuments</b>	<b>The statue of Carlo Farini</b>
<b>City Monuments</b>	<b>Il Grande Ferro R</b>
<b>Harbor Landscape</b>	<b>The Paguro platform</b>
<b>Objects/Icons/Design</b>	<b>The Moro of Venezia</b>
<b>Harbor Landscape</b>	<b>The Spinaroni island</b>
<b>Harbor Landscape</b>	<b>The lighthouse of Porto Corsini</b>
<b>Harbor Landscape</b>	<b>The “Benigno Zaccagnini” and “Luciano Cavalcoti” breakwaters</b>
<b>Sea cultures</b>	<b>Ravenna and the sea</b>
<b>Sea cultures</b>	<b>The fish market</b>

# DELIVERABLE 4.1.2 “Graphic, multimedia, digital materials”

PP3 – Port Network of the Eastern Adriatic Sea

Work Package	4 “Knowledge and usability of cross-border heritage of Adriatic Italian and Croatian ports”
Activity	4.1.1 “Virtual Museum setting up”
Phase Leader	PP9-UNIVPM
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## INTRODUCTION

PP3 created 24 POIs about the history and culture related to the Port of Trieste and the Port of Monfalcone.

Main topics are:

- the establishment of the free port
- the history of the communities: Jewish, Eastern Greek and Serbian Orthodox
- the role of coffee, shipbuilding and fishing
- port skills and jobs yesterday and today
- the iconic monuments linked to the sea and the city of Trieste

The VM was enriched not only with texts prepared in Italian, English and Croatian, but also with photos from the historical archives of the two ports, video interviews and multimedia files such as 3D models, panoramic photos and virtual tours.

## GRAPHIC, MULTIMEDIA, DIGITAL MATERIALS

PP3 realised the following materials:

MULTIMEDIA/DIGITAL/GRAPHIC MATERIAL	Number
<b>3D MODELS</b>	<b>4</b>
<b>VIRTUAL TOURS</b> <i>of two museums in Italian and English</i>	<b>2</b>
<b>VIDEO INTERVIEWS</b> <i>with English subtitles</i>	<b>5</b>
<b>DRONE FOOTAGE VIDEO</b>	<b>2</b>

PANORAMIC PHOTOS	3
<b>TOTAL</b>	<b>16</b>

The digital materials listed in the above table are published on the VM of the Port of Trieste in Italian, Croatian and English pages in the following POIs:

<b>Category</b>	Tradition & culture
<b>Sub-category</b>	People
<b>POI</b>	PORT SKILLS AND JOBS
<b>multimedia/digital/graphic material</b>	<b>n.4 video interviews</b> with a former captain on tugs, a key account manager, a terminal deputy manager, an operation manager

<b>Category</b>	Stories
<b>Sub-category</b>	Economies
<b>POI</b>	THE HISTORY OF THE PORT OF TRIESTE
<b>multimedia/digital/graphic material</b>	<b>n.1 drone footage video</b>
<b>Sub-category</b>	Relations
<b>POI</b>	THE MUSEUM OF THE JEWISH COMMUNITY OF TRIESTE “CARLO E VERA WAGNER”
<b>multimedia/digital/graphic material</b>	<b>n.1 virtual tour</b>
<b>POI</b>	THE SYNAGOGUE OF TRIESTE
<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo of the Synagogue</b>
<b>POI</b>	THE SERBIAN COMMUNITY OF TRIESTE
<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo of the church</b>
<b>POI</b>	EASTERN GREEK COMMUNITY

<b>multimedia/digital/graphic material</b>	<b>n.1 panoramic photo of the church</b>
<b>POI</b>	EASTERN GREEK COMMUNITY MUSEUM
<b>multimedia/digital/graphic material</b>	<b>n.1 virtual tour</b>

<b>Category</b>	Heritage
<b>Sub-category</b>	City monuments
<b>POI</b>	THE LIGHTHOUSE OF VICTORY
<b>multimedia/digital/graphic material</b>	<b>n.1 3D model</b>
<b>Sub-category</b>	Harbor landscape
<b>POI</b>	THE LLOYD TOWER
<b>multimedia/digital/graphic material</b>	<b>n.1 3D model</b>
<b>Sub-category</b>	Route&Maps
<b>POI</b>	THE HISTORY OF THE PORT OF MONFALCONE
<b>multimedia/digital/graphic material</b>	<b>n.1 drone footage video</b>
<b>POI</b>	URSUS
<b>multimedia/digital/graphic material</b>	<b>n.1 3D model</b>
<b>Sub-category</b>	Sea cultures
<b>POI</b>	AUDAX "AUDACES FORTUNA IUVAT"
<b>multimedia/digital/graphic material</b>	<b>n.1 3D model</b> <b>n.1 video interview</b>

# DELIVERABLE 4.1.2 “Graphic, multimedia, digital materials”

PP5 – Dubrovnik Port Authority

Work Package	4 “Knowledge and usability of cross-border heritage of Adriatic Italian and Croatian ports”
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## INTRODUCTION

PP5 created 27 POIs about the history and culture related to the Port of Dubrovnik.

Main topics are:

- the establishment of the Old port
- Boatbuilding
- Inland – city port relations
- The cultural heritage of the port city Dubrovnik
- the iconic monuments linked to the sea and the city of Dubrovnik

The VM was enriched not only with texts prepared in Croatian, English and Italian, but also with photos from the historical archives, 3D animation and multimedia files such as 3D models, panoramic photos and virtual tours.

## GRAPHIC, MULTIMEDIA, DIGITAL MATERIALS

PP5 realised the following materials:

MULTIMEDIA/DIGITAL/GRAPHIC MATERIAL	Number
<b>3D MODELS</b>	<b>3</b>
<b>VIRTUAL TOURS</b> <i>of two museums in Italian and English</i>	<b>7</b>
<b>VIDEO</b>	<b>1</b>
<b>DRONE FOOTAGE VIDEO</b>	<b>8</b>
<b>PANORAMIC PHOTOS</b>	<b>1</b>
<b>TOTAL</b>	<b>20</b>

The digital materials listed in the above table are published on the VM of the Port of Dubrovnik in Croatian, English and Italian pages in the following POIs:

<b>Category</b>	Tradition & culture
<b>Sub-category</b>	Knowledge
<b>POI</b>	Boat building
<b>multimedia/digital/graphic material</b>	Panorama and photos

<b>Category</b>	Stories
<b>Sub-category</b>	Route and Maps
<b>POI</b>	Inland – city port relations
<b>multimedia/digital/graphic material</b>	Photo

<b>Category</b>	Heritage
<b>Sub-category</b>	City monuments
<b>POI</b>	Lovrijenac
<b>multimedia/digital/graphic material</b>	3D model, panorama, photos
<b>POI</b>	The fortification of Dubrovnik
<b>multimedia/digital/graphic material</b>	panorama, photos
<b>POI</b>	The Kaše Breakwater
<b>multimedia/digital/graphic material</b>	panorama, photos
<b>POI</b>	St. John’s Tower
<b>multimedia/digital/graphic material</b>	3D model, panorama, photos
<b>POI</b>	Minčeta Tower

<b>multimedia/digital/graphic material</b>	3D model, panorama, photos
<b>Sub-category</b>	Harbour landscape
<b>POI</b>	The cultural heritage of the port city Dubrovnik
<b>multimedia/digital/graphic material</b>	Panorama, photos
<b>Sub-category</b>	Objects
<b>POI</b>	The Dubrovnik Carrack
<b>multimedia/digital/graphic material</b>	3D animation, photos



## DELIVERABLE 4.1.2

Graphic, multimedia, digital materials elaborated for the virtual museum of Zadar

PP6 – Zadar Port Authority

PP8 – National Museum of Zadar

Work Package	4 “Knowledge and usability of cross-border heritage of Adriatic Italian and Croatian ports”
Activity	4.1.1 “Virtual Museum setting up”
Phase Leader	PP9-UNIVPM
Deliverable	Del 4.1.2 “Graphic, multimedia, digital materials”

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## INTRODUCTION

PP6 and PP8 created 12 POIs about the history and culture related to the Port of Zadar.

Main topics are:

- Historical development of the Port of Zadar
- Various descriptions and depictions of the Port
- Connections with other ports
- The cultural heritage of the Port
- Historical boats from Zadar area

The contents of the Virtual Museum were enriched not only with texts prepared in Croatian and English, but also with photos from the museum archive, artistic photos developed during the filming of IAM ERAT video and photomonography, 3D models of the historical ships, and with two educational and artistic videos about the history of the Port of Zadar.

## GRAPHIC, MULTIMEDIA, DIGITAL MATERIALS

PP6 and PP8 realised the following materials:

MULTIMEDIA/DIGITAL/GRAPHIC MATERIAL	Number
3D MODELS	3
OLD PHOTOS	39

<b>VIDEO</b>	<b>2</b>
<b>ARTISTIC PHOTOS</b>	<b>20</b>
<b>PHOTOMONOGRAPHY</b>	<b>1</b>
<b>TOTAL</b>	<b>65</b>

The digital materials listed in the above table are published on the VM of the Port of Zadar in Croatian and English pages in the following POIs:

<b>Category</b>	Tradition & culture
<b>Sub-category</b>	Myths
<b>POI</b>	IAM ERAT – History of Zadar harbour
<b>multimedia/digital/graphic material</b>	Video and photomonography
<b>Sub-category</b>	Knowledge
<b>POI</b>	DESCRIPTIONS AND DEPICTIONS OF THE PORT
<b>multimedia/digital/graphic material</b>	Old photos and texts
<b>Sub-category</b>	Knowledge
<b>POI</b>	BOAT DEPICTED ON THE CHEST OF ST. SIMEON
<b>multimedia/digital/graphic material</b>	3D model, artistic photos, texts
<b>Sub-category</b>	People
<b>POI</b>	THE BARKAJOL
<b>multimedia/digital/graphic material</b>	Old photos, Artistic photos, texts

<b>Category</b>	Stories
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<b>Sub-category</b>	Economies
<b>POI</b>	PORT OF GAŽENICA
<b>multimedia/digital/graphic material</b>	Photo and texts
<b>Sub-category</b>	Economies
<b>POI</b>	EXPORT OF CATTLE FROM VRULJA BAY
<b>multimedia/digital/graphic material</b>	Old photos and texts
<b>Sub-category</b>	Relations
<b>POI</b>	HYDROPLANE
<b>multimedia/digital/graphic material</b>	Old photos and texts
<b>Sub-category</b>	Routes and maps
<b>POI</b>	CONNECTIONS WITH OTHER PORTS
<b>multimedia/digital/graphic material</b>	Old photos and texts

<b>Category</b>	Heritage
<b>Sub-category</b>	Harbour landscape
<b>POI</b>	ZADAR PORT THROUGH THE HISTORY
<b>multimedia/digital/graphic material</b>	Video, old photos, texts
<b>Sub-category</b>	Sea cultures
<b>POI</b>	CONDURA CROATICA
<b>multimedia/digital/graphic material</b>	3D model, artistic photos
<b>Sub-category</b>	Sea cultures
<b>POI</b>	SERILLIA LIBURNICA
<b>multimedia/digital/graphic material</b>	3D model, artistic photo

<b>Sub-category</b>	Harbour landscape
<b>POI</b>	CITY FORTIFICATION WITHIN THE PORT
<b>multimedia/digital/graphic material</b>	Old photos