

### D.2.5.3 - Reports on CBC Programme and other ETC events: Presentation and contribution at external events involving the community of Interreg V CBC projects, H2020 or other ERDF-supported projects.

30.6.202

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### 1. Introduction

This activity reaches out to the local community in defining guidelines for the sustainable long-term economic development of underwater sites as tourist destinations. Specifically, targeted events include the presentation of results identified during the course of pilot actions at the different underwater sites and the open discussion of how local economic development can best be achieved in respect of the identified findings. On a larger scale, the project’s results and final outputs will be shared with other projects from the CBC Programme Axis 3.1 for the exchange and transfer of common best practices. Additional promotional material will be produced specifically for the purpose of sharing and possibly integrating UnderwaterMuse results and best practices with other EU-financed projects centred on economic development through sustainable tourism.

Application form envisaged D.2.5.2: on CBC Programme and other ETC events.

## 2. European archaeology days organized by Maramures County Council 17.6.2022 – ONLINE

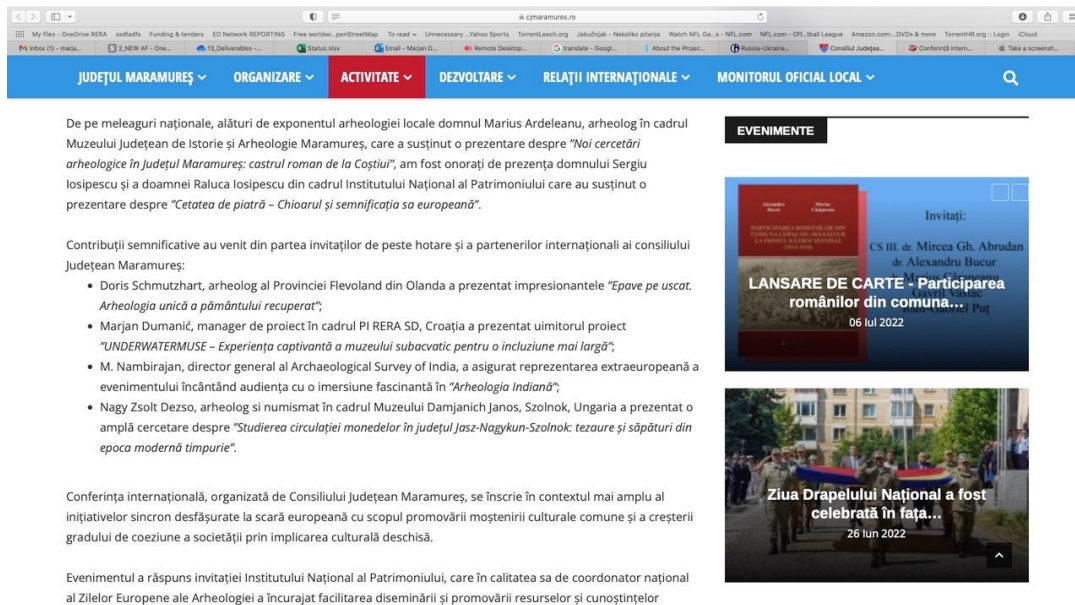
The participation of PI RERA SD at fair was postponed several times because of pandemic that started at the beginning of 2020 but also participation at the event “European archaeology days” organized by Maramures County Council had to be done online due to war situation in Ukraine.

The PI RERA planned to participate at the event in person, but safety precautions caused by Russian aggression in Ukraine dictated organization of the event only on-line. PI RERRA SD participated at the event European archaeology days organised by Maramures County Council 17.6.2022.

The project was presented by PI RERA SD project manager Marjan Dumanić in total duration of approx. 45 min. The focus of presentation was presentation of finished works under the project+ and methodology used for preservation and presentation of underwater archaeological sites of the project Underwatermuseum. Additional emphasis was given to the future collaboration and potential synergies with other projects presented (e.g. Province of Flevoland and their ideas to use VR technologies for future presentation of their sites).



*European archaeology days organised by Maramures County agenda*



Printscreen of the WEB page mentioning participation of the

*UnderwaterMuse project*

### 3. Cross-fertilisation with Interreg IT-SL 2014-2020 Project PRIMIS, 02 December 2021.

On December 2, 2021, a cross-fertilisation action was carried out introducing UnderwaterMuse activities and results within PRIMIS (*Multicultural journey between Italy and Slovenia through the prism of minorities*).

The project, co-financed by the Interreg Italy-Slovenia 2014-2020 program, has as objective the valorisation of the linguistic and cultural material and immaterial heritage of the indigenous communities present in the programme area, increasing the capacity of local public and private actors to attract users of sustainable cultural tourism. Such goal will be accomplished as an added value for the development of economic activities and tourism, with the use of innovative, interactive and multimedia, also by taking advantage of immersive and **virtual reality**. For this purpose, PRIMIS will create four multimedia centres, aimed at spreading the peculiarities of the native linguistic communities, activate three infopoints that will allow the visitors to follow new **set-up itineraries**, and a digital tourist guide. An action to enhance and promote cultural events, information and training activities, aimed primarily at young people, among

whom 10 selected cultural ambassadors, will be also carried out. The meeting, held online, was the opportunity to present the solutions provided by UnderwaterMuse primarily on the promotion and valorisation of the underwater sites, explaining the adopted solutions of creation of parks or underwater archaeological paths for direct use, diving or snorkeling, and the narrative and communicative use of virtual reality and digital methodologies, for remote / online use by those who do not want or cannot dive, including due to disability. In this way, the safeguarding of the heritage itself is guaranteed, protected by citizens who learn to know it and recognize it as their own, and a strong economic impact deriving from the development of the cultural, environmental and experiential tourism sector. In following pages:

- Slides presented
- Picture attesting the online meeting



### UNDERWATERMUSE WORKPLAN

**WP3 Status quo of underwater cultural heritage valorisation and stakeholders' involvement**


- Identification of the problems of the sustainable economic valorisation of underwater archaeological heritage sites as experience-based tourist attractions for diving or snorkeling and their accessibility for those categories of potential visitors, who are unable of enjoying in the above activities.
- Realisation of a **WEB GIS system** cataloguing the characteristics, location, preservation status of the sites (Grado, S. Sabina, Resnik-Siculi); training on methodologies (3D models/ automatic photogrammetry)

**WP4 Testing underwater heritage valorisation methods with stakeholder involvement**

- 3 **action plans** focusing on the valorisation and the accessibility of underwater heritage sites. **Cataloguing of the sites** through exploration, creation of underwater blue paths and museums, feasibility studies, setting in motion policies for their preservation and exploitation, and transmitting skills (e.g., diving guides, use of VR and AR-based facilities) for their development as sustainable tourist attractions.
- Exhibition and education activity programme** developed for an interactive permanent underwater museum
- Training material** for diving guides and local tourist guides

**WP5 Transnational Toolkit for regional action planning in underwater cultural heritage valorisation**

- Drafting of **regional action plans** and preparing a Toolkit for increased accessibility and valorisation of underwater cultural heritage

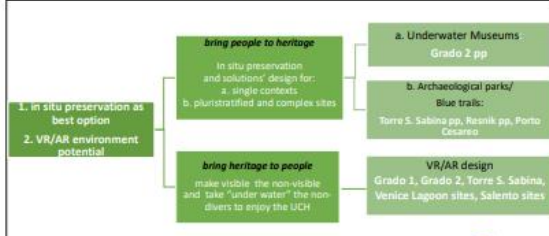


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### UNDERWATERMUSE Valorizzazione e accessibilità

**WP 5: TOOLKIT FOR REGIONAL ACTION PLANNING IN (UCH) UNDERWATER CULTURAL HERITAGE VALORISATION**

action plans on the valorisation of underwater archaeological sites and the increased accessibility



**bring people to heritage**

- In situ preservation and solutions; design for:
  - a. single contexts
  - b. pluristratified and complex sites

**bring heritage to people**

- make visible the non-visible and take "under water" the non-divers to enjoy the UCH

**1. in situ preservation as best option**

**2. VR/AR environment potential**

**a. Underwater Museums**  
Grado 2 pp

**b. Archaeological parks/ Blue trails:**  
Torre S. Sabina pp, Resnik pp, Porto Cesareo

**VR/AR design**  
Grado 1, Grado 2, Torre S. Sabina, Venice Lagoon sites, Salento sites

Rita Auriemma  
SEZIONE AUTONOMA PATRIMONIO CULTURALE  
Patrimonio Culturale REGIONE PUGLIA

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### UNDERWATERMUSE Valorizzazione e accessibilità

Valorizzazione del patrimonio sommerso

- Portare le persone al patrimonio  
Conservazione e musealizzazione in situ
- Portare il patrimonio alle persone  
Produzione di realtà virtuale

I musei ospitati all'interno di edifici devono aggiornare le storie che vogliono raccontare. I musei devono introdurre nuove tecniche per fornire esperienze nuove e diverse. È possibile collegare il museo ai siti che giacciono sui fondali sottomarini.

Display olografici e animazioni 3D possono creare ambienti e atmosfere insieme agli odori, trasportando il visitatore in un vero e proprio viaggio nel tempo.



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### UNDERWATERMUSE Digital multimedia installation & 3D



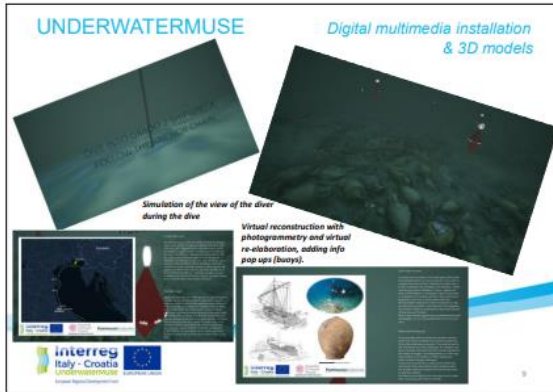
<http://mizar.unive.it/underwatermuseum/>

**Grado 2**

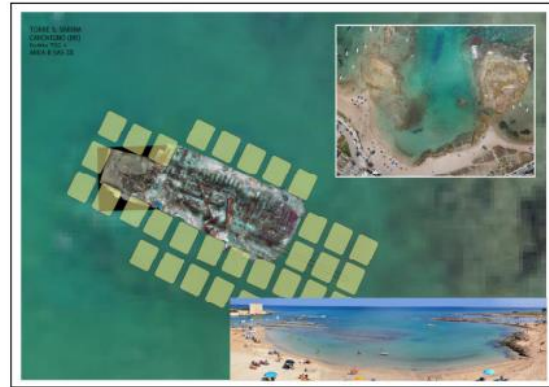
Location:  
Depth:  
Diving:  
Description:



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11



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12



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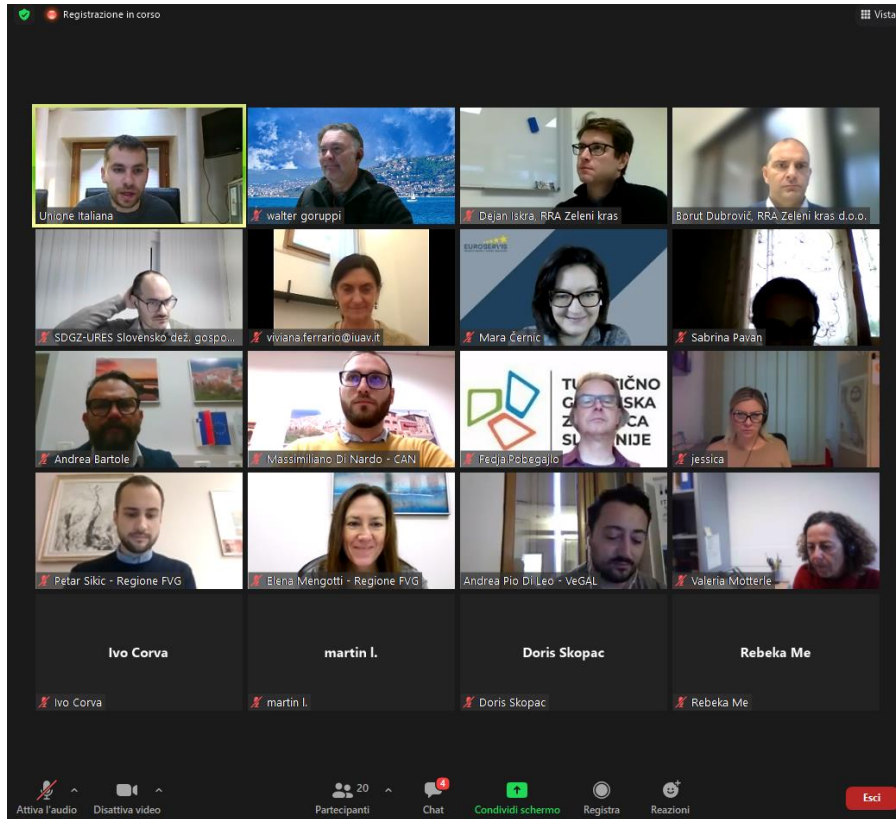


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*Picture attesting the online meeting*

#### 4. EU WEEK OF REGIONS AND CITIES 2020 – SIDE EVENT, online

On behalf of the project partner Kaštela City, representative of the Split Dalmatia County, Mrs. Renata Tešija presented UnderwaterMuse project during the online event on theme “EU synergies for culture and tourism”, 14 October 2020.

In line with the theme of the week "Cohesion and Cooperation" and the general slogan of the annual European initiative "Restart Europe Together", it first of all celebrated the thirtieth anniversary of European Territorial Cooperation (CTE), better known as INTERREG. At the invitation of the host, projects from the county were presented, including the UnderwaterMuse project. It was especially emphasized that the UnderwaterMuse project will enable further research of the underwater archaeological site Sikuli in Kaštela, and visitors will have the opportunity to familiarize themselves with the site through a virtual display.

EUROPEAN TERRITORIAL COOPERATION, MAINSTREAMING AND EU MACRO-REGIONAL STRATEGIES IN TOURISM AND CULTURE SECTORS:  
Sharing good practices for a better governance  
Split-dalmatia county

INNOCULTOUR	REMEMBER	UNDERWATER - MUSE	USEFULL
<b>Fund/program</b> Interreg Italy-Croatia Standard <b>Start of project implementation</b> 1.1.2018. <b>Duration of project</b> 18 months <b>Status</b> Completed <b>Total project value</b> € 916.183,00 <b>EU grant</b> € 778.755,55 <b>Partners</b> Veneto Region (IT), Natural History Museum Rijeka (HR) and JU RERA S.D. (HR) <b>Project coordinator</b> DELTA 2000 Società Consortile a.r.l. (IT)	<b>Fund/program</b> Interreg Italy-Croatia Standard <b>Start of project implementation</b> 1.1.2019. <b>Duration of project</b> 30 months <b>Status</b> Ongoing <b>Total project value</b> € 2.813.460,00 <b>EU grant</b> € 2.391.441,00 <b>Partners</b> Port Authority Ravenna (IT), Port Authority for the East Adriatic Trieste (IT), Rijeka (HR) Intermodal Transport Cluster, Dubrovnik Port Authority (HR), Zadar Port Authority (HR), JU RERA S.D. (HR), Zadar National Museum (HR), Marche Ancona Polytechnic University (IT) <b>Project coordinator</b> Port Authority for the Northern Adriatic- Venice	<b>Fund/program</b> Interreg Italy-Croatia Standard <b>Start of project implementation</b> 1.1.2019. <b>Duration of project</b> 30 months <b>Status</b> Ongoing <b>Total project value</b> € 1.586.930,25 <b>EU grant</b> € 1.348.890,71 <b>Partners</b> CA Foscari University of Venice (IT), JU RERA S.D. (HR), City of Kaštela (HR), Marco Polo System EECIG (European Economic Interest Grouping, IT) and Puglia (IT) region <b>Project coordinator</b> Regional Institute for Cultural Heritage of the region Friuli Venezia Giulia	<b>Fund/program</b> Interreg Italy-Croatia CBC Standard + <b>Start of project implementation</b> 1.1.2018. <b>Duration of project</b> 21 months <b>Status</b> Completed <b>Total project value</b> € 1.140.554,88 <b>Total project value for the City of Split</b> € 270.000,00 <b>EU grant - City of Split</b> € 229.500,00 <b>Project coordinator</b> Municipality of Ravenna

# UnderwaterMuse

## IMMERSIVE UNDERWATER MUSEUM EXPERIENCE FOR A WIDER INCLUSION



The UnderwaterMuse objective is to transform the site into an underwater archaeological park (or eco-museum) through innovative and/or experimental methodologies and techniques in order to try to reduce the loss of important cultural heritages as well as to guarantee an economic spin-off deriving directly from the creation of a sector linked to the tourist-cultural promotion of the context of reference.

The selected location of SD County Underwater archaeological site Resnik – Siculi near Split:

In the western part of Kaštel field, in Kaštel Štarić is the locality Siculi. The ancient settlement of Siculi is located along the stream Resnik near Trogir. PlineyThe elder mentions it as a Roman settlement where Emperor Claudius settled veterans, and is also plotted on the Peutingeriana Table. In the 1980-s divers come across fragments of ceramic vessels, and submarine ones archaeological excavations have revealed the remains of a port from the 2nd and 1st centuries. pr. Kr. and representative embossed cups and craters. In research which has been carried out almost continuously since 1991 by the Museum of the City of Kaštele, the belonging settlement from the 2nd and 1st century was also discovered, pr. Kr., As well as the later phase settlements and ports from the 1st - 5th century

Site needs to be further researched.



Interpretation concept

**WHAT**  
Underwater archeological site Resnik - Siculi as a time capsule needs research, interpretation and presentation.

**HOW**  
The VR display of the Siculi site will ensure a long-term economically, socially and environmentally sustainable tourist offer.





**EU WEEK OF REGIONS AND CITIES 2020 – SIDE EVENT**

**EU SYNERGIES FOR CULTURE AND TOURISM**

14/10/2020 – hr. 10.00/12.30

Digital/on-line event - AGENDA

**INSTITUTIONAL OPENING**

- *Mr Domenico Laforgia*  
Puglia Region, Director of the International Policies Department
- *Mr Jacopo Martino*  
Italian Ministry of Foreign Affairs and International Cooperation – DG Development Cooperation
- *Mr Ivano Magazzù*  
INTERACT Programme

**EUROPEAN TERRITORIAL COOPERATION, MAINSTREAMING AND EU MACRO-REGIONAL STRATEGIES IN TOURISM AND CULTURE SECTORS: SHARING GOOD PRACTICES FOR A BETTER GOVERNANCE**

*Moderator: Mr Adriana Agrimi* – Puglia Region, International Policies Department, Manager

**Italy - Puglia Region**

*Mr Aldo Patrucco*  
Director of the Tourism, economy of culture and territorial exploitation

**Croatia – Split-Dalmatian County**

*Mr Renata Tešija*  
Department of Tourism and Maritime Affairs – Expert advisor

**Greece - Municipality of Patra**

*Mr Vasilios Papaioannou*  
Dept of Planning and Studies – Directorate of Planning, Organization and Informatics

**Spain**

*Mr Roser Cedo*  
"Grand Tour of Catalonia" Brand Manager – Catalan Tourist Board

**The 2021/27 Programming period and the synergies among ETC Programmes and ETC and Mainstreaming Programmes**

*Mr Monica Bellisario*  
Italian Presidency of the Council of Ministers – Cohesion Policy Department

**Building neighborhood communities: the NEXT MED 21/27 Programme**

*Mr Martin Heibel*  
Staff Joint Managing Authority

**Supporting the implementation of EUSAIR Flagship projects among ETC and Cohesion Programmes 2021/27**

*Mr Blanka Belošević*  
EUSAIR TSG IV Coordinator – Croatia Ministry for Tourism and Sport

**WRAP UP AND RECOMMENDATIONS**

*Mr Luca Palazzo*  
Italian Agency for the Territorial Cohesion



## 5. BLUE MED PLUS WORKSHOP, Brindisi , 12 January 2022

The second BlueMed Plus workshop was organised in Brindisi, hosted by the Apulia Region at the Archaeological Museum Francesco Ribezzo in the historic centre of Brindisi. 172 stakeholders have been invited. The event was held in hybrid mode (in presence, but simultaneously streamed) and it was focused on the promotion of the development of the cultural diving tourism in this territory by identifying, opening, and valorising new underwater cultural sites to attract national and foreign tourists. Representative of the Puglia Region, Mrs. Rita Auriemma, scientific coordinator of the UnderwaterMuse project participated at BlueMed Plus stakeholders meeting and presented UnderwaterMuse project and underwater sites of Puglia Region.

Part of the presentation of the UnderwaterMuse project

**I progetti pilota e la filiera del patrimonio**


 Torre S. Sabina (Br)  
 campagne di ricerca 2020-2021 – progettazione sentieri


 Resnik/Siculi  
 campagne di ricerca 2020-2021 – mappa 3D


 Grado 2  
 campagna di ricerca 2021 – musealizzazione in situ

Ricerca catalogazione → Conservazione restauro → Educazione formazione → Disseminazione comunicazione → Valorizzazione fruizione tur. → Gestione partecipata

**Il portale-mappa Web GIS**







Ortofoto da fotogrammetria



Resti del carico nordafricano



Resti del carico

Intervento-pilota TSS 2021



Intervento-pilota TSS 2021



Ortofoto del relitto nella seconda fase di scavo

Intervento-pilota TSS 2020. La nave fantasma: la Galea Magna



La ricostruzione della stratigrafia dei carichi



Intervento-pilota 2020. La verifica dell'estensione del giacimento stratigrafico - area B



## **6. 7th International congress for underwater archaeology, Helsinki, 6-10 June 2022**

University Ca'Foscari, Costa E. and Beltrame C. participated at congress for underwater archaeology and presented UnderwaterMuse project specifically digital and virtual technologies.

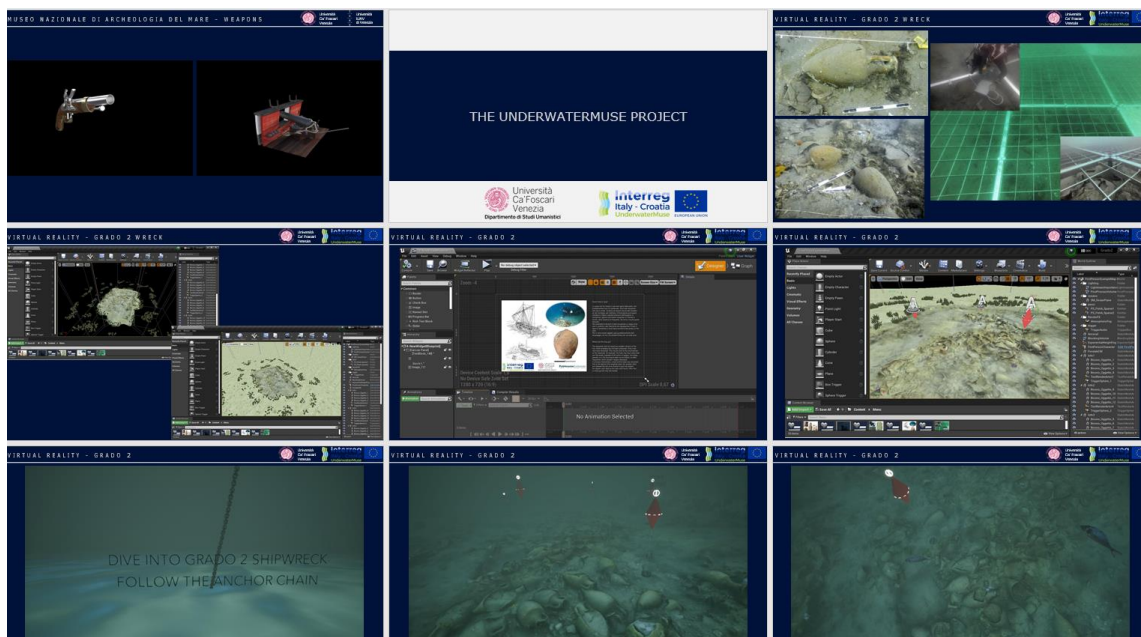
The potential of digital and virtual technologies allows to create projects with edutainment-oriented approaches, in which the users' cultural awareness is increased. New techniques are widely employed to support studies and documentation, in order to make available cultural heritage. The objective of Department of Studi Umanistici of Ca' Foscari University is enhancing knowledge about shipwrecks on different archaeological topics. On the project "The route of the marble", some of the archaeological shipwrecks have been supplied with a VR obtained from the post-processing of the 3D photogrammetric surveys of the cargos. The same technique has been employed of other shipwrecks, both in accessible water (-18-22 m such as Bricks shipwreck in the sea of Venice) and in very deep water accessible only by abyssal ROVs (-280-640m such as Daedalus 27 and Daedalus 37).

Museums equipped with virtual and interactive installation are one of the possibilities of the researchers to enhanced knowledge on cultural heritage to a wide public. The Museo Nazionale dell'Archeologia del mare in Caorle is one great example of this kind of museum, equipped with different interactive work stations about the brig Mercurio of 1812 and about shipwrecks of the Adriatic sea with an interactive map. Concluding, the capability to create public interpretive deliverables to be implemented in museum's environments allows sharing knowledge about archaeological sites; the new project Interreg Italy-Croatia UnderwaterMuse will promote this new kind of accessibility of some shipwrecks in the Adriatic Sea.

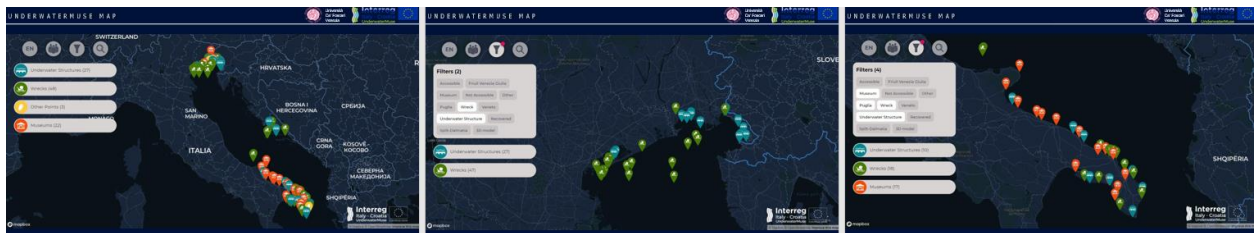
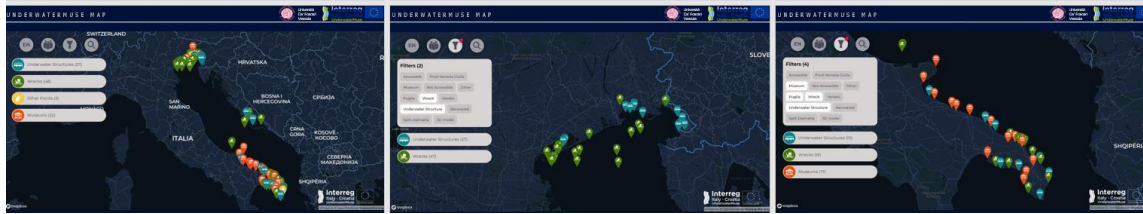
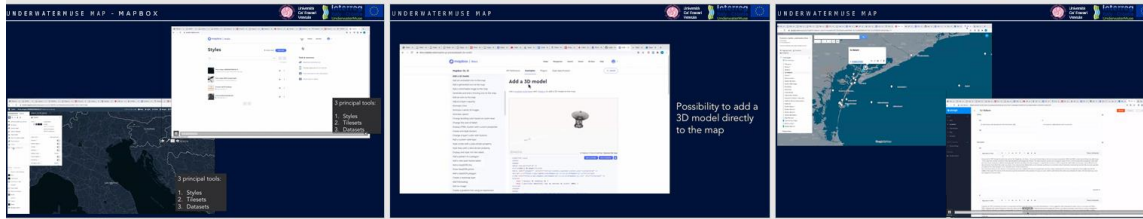
In Helsinki, the congress focuses on delivering information and interpretations of the underwater cultural heritage or remains, which are strongly linked to living and working along lakes, rivers and seas. The aim is to share the experience of this heritage to the general public and to the research community. This mission of delivery becomes of great importance as it forms an integral part of the narrative told

by the studies of our past. The importance of this task is highlighted in a world that faces challenges of the Climate Change, pollution of water, and other types of human related uncertainties of the future. What is the role of maritime archaeology in building a better future for all of us? In sum, these international congresses have been an opportunity to increase the inter-institutional and international rigorous professionalized cooperation. We hope that the next IKUWA will bring new initiatives and cooperation for the future of mankind, and aid in developing maritime archaeological research in Finland, and participating countries. Our dream is to see the ratification of the UNESCO 2001 Convention of the Underwater Cultural heritage in Finland in near future.

*Presentation of the UnderwaterMuse project by E. Costa and C. Beltrame – Ca’Foscary*







<http://mizar.unive.it/underwatermuseum/>

Concluding, digital and virtual technologies allow to:

- create projects with edutainment-oriented approaches
- create a new kind of accessibility for shipwrecks
- increase the cultural awareness and enhance knowledge to wide public


 6th-10th June 2022 - Delivering the Deep, Visions for the Future.

THANK YOU FOR THE ATTENTION  
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 Dipartimento di Studi Universitari