



Exploring the «Extended Museum» of Venices' water heritage through digital tours and web platforms Digital Itineraries and Audioguides to foster and promote «responsible» eco-tourism

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Civiltà dell'Acqua & Global Network of Water Museums

Beyond Museums. Tools for promoting the natural and cultural water heritage UNESCO Chair «Water, Heritage, and Sustainable Development» - 1st training course 2021

OVERVIEW OF THE PRESENTATION

1. The geo-historical context of Venices' inland waterways

2. Digital tours as tools to facilitate access to water heritage and promote «responsible tourism»

3. How to create a digital tour

4. Water Museum of Venice: the web

platform of Venices' «extended museum»

1 The geo-historical context of Venices' inland waterways

The Venice everyone knows and...



...the silent and 'forgotten' Venices



Historical map of Venices' inland waterways



Waterways: a multi-functional system

- Navigation: to transport goods, people & troops
- Water management: control of water levels for drainage and irrigation, and floods mitigation
- Proto-industrial activities (water mills, forges...)
- Important aesthetic and scenic values



Waterways' systems are a unique encapsulation of memories and scenarios resulting from the constant interaction between human activity & natural conditions, to the point that they offer one of the most recurrent isonic themes in both landscape painting and interature Simon Schama (Landscape Memory, 1995)

The "making" of Venices' inland waterways

From the Middle Ages (XII cent. AD), the building of artificial canals linking different rivers fostered the development of inland navigation, fluvial trade, and the expansion of urban centres along waterways, like Padua, Vicenza and Treviso.

A fascinating water heritage made of small river ports, navigation locks, hydraulic artefacts, castles, and villas still exists and is a unique heritage for tourism and leisure.

Small river towns along waterways The Battaglia Canal (1189-1201)



'The Stones of Venice' (John Ruskin) From the Euganean Hills to the Venice Lagoon



The Venetian "minor" waterways' system is forgotten and almost abandoned today A Heritage in Danger of Disappearing? Traditional knowledge and techniques for making wooden boats are vanishing...



Past and forgotten waterscapes? The function of memory, emotional values and the sense of place'

Typical 'boat bridge' of inland waterways

Intangible heritage: historical regatta and traditional wooden boats in front of the magnificent Villa Pisani

How to redeem Venices' Inland water heritage?

- PROTECTION
- PUBLIC ACCESS
- PROMOTION

How to make it attractive?

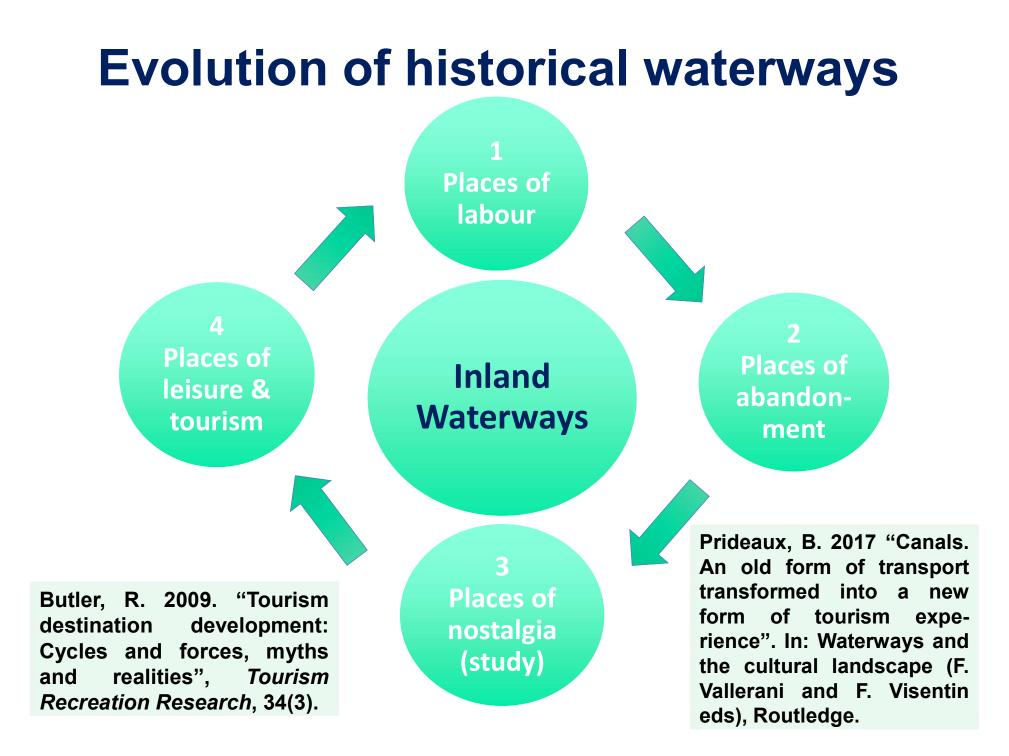
RESPONSIBLE
TOURISMOutdoors activities
on foot, or by byke,
canoe, or boat...

NATURAL & CULTURAL HERITAGE

NEW OPPORTUNITIES TO REGENERATE LECONOMIES



What means 'sustainable'? 'Responsible tourism' versus 'mass tourism' 30 million visitors/year in the city centre of Venice



2

Digital tours as tools to facilitate access to water heritage and promote «responsible tourism»



INTERNATIONAL CENTRE

Non-profit NGO (1996) aimed at building a 'New Culture of Water' Mission

Define a more far-sigthed management of water, of nature, and landscape by promoting new holistic and inter-disciplinary approaches to face the global water crisis Project oriented approach

EXPLORING THE VENICE LAGOON

Palazzo Zorzi, May-October 2015

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2015











Places and values of the World Heritage Site



Regional Bureau for Science and Culture in Europe



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EXPLORING THE VENICE LAGOON

Four thematic explorations to know the «extended museum»: 1) Hydraulic artefacts 2) Waterways and wooden boats 3) Cultural waterscapes

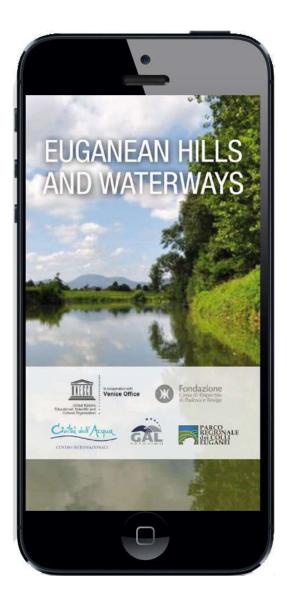
4) Responsible eco-tourism



Interactive Space



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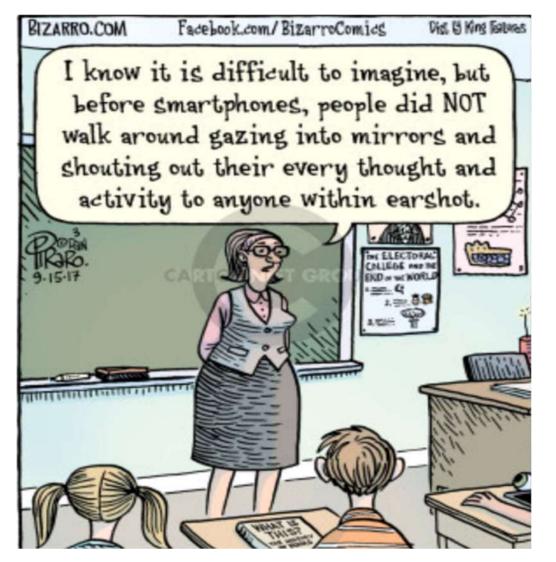




Università Ca'Foscari Venezia

2014-2019 **Audioguides & Digital Tours VENICE'S** WATERWAYS > 100 Digital Tours > 500 Pol

Why Geo-Spatial Technologies ?

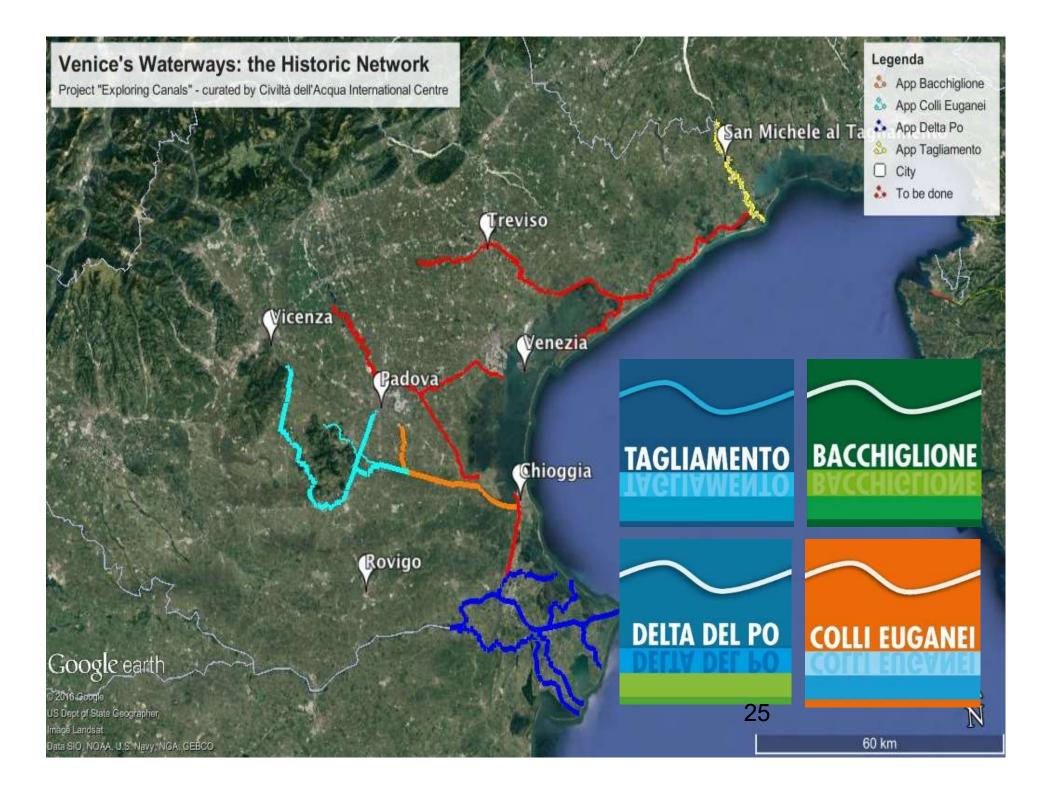


The use of digital devices and interactive maps has transformed our knowledge of space and place

Digitisation multiplies opportunities:

- to access 'hidden' heritage
- to engage audiences

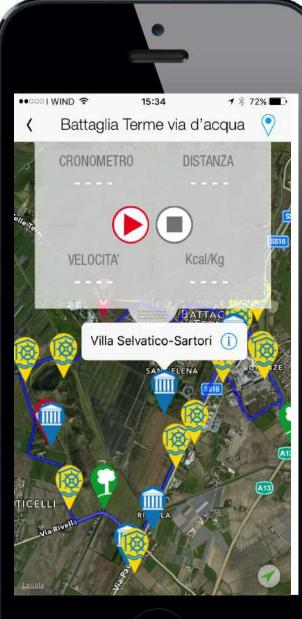
The best language to attract young audiences



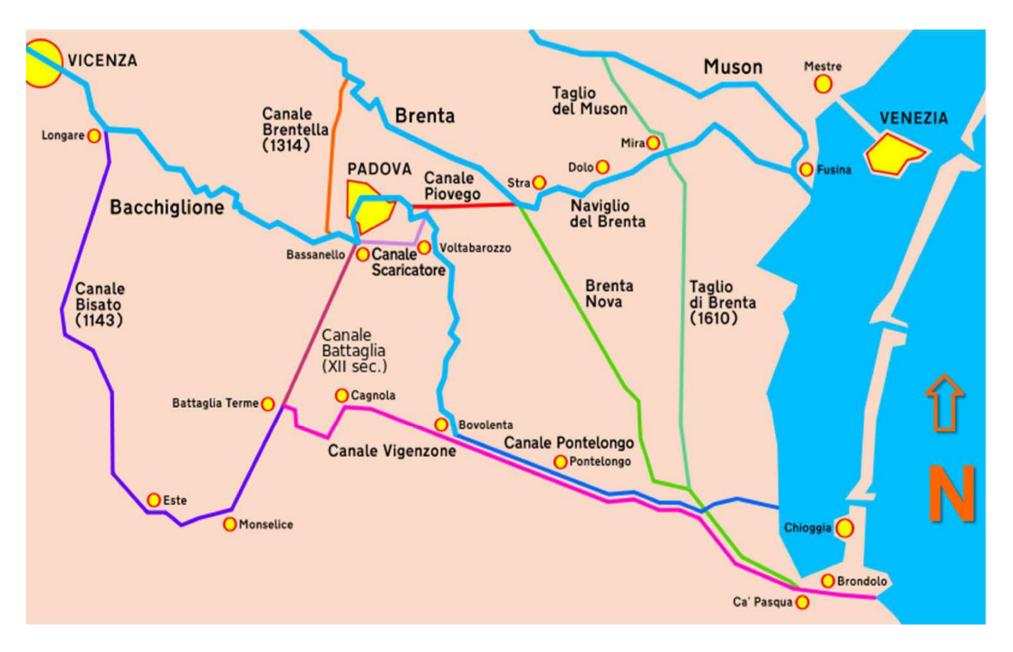


Tours by bike, boat, horse, canoe, walk





Mapping and inventory of water heritages





Artificial canals & canalised 'rivers' crossing small towns





Hydraulic artefacts: mills



Villas and aristocratic residencies built on waterways



Farms and vernacular dwellings



Small churches and abbeys

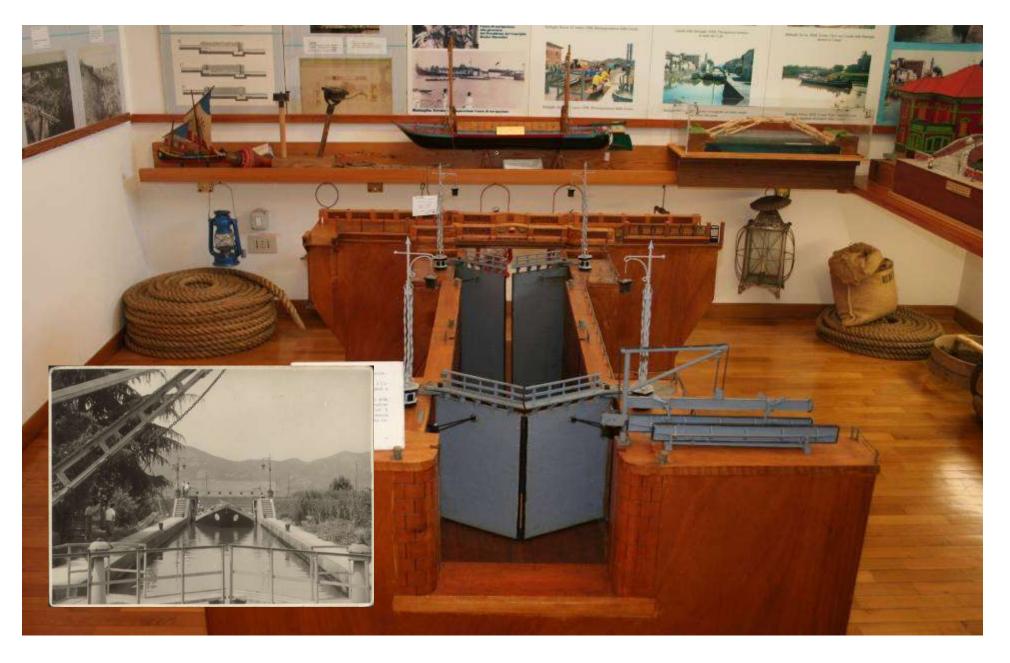


Traditional wooden boats



River navigation museum of Battaglia Terme (Padua)

Lock systems and 'hydraulic lifts'



Small river ports



The reclamation landscape





Natural or artificial (cultural)? The «unknown» waterscape





Tangible and intangible heritage



Collection of water stories can foster new imaginaries and perceptions related to water, and connected to «past water worlds»



Rolando Biasion: the *Canis***, traditional net of canes to trap eels Toni Frescura: the 'last fisherman'**

Oratorio San Mauro 👝 Bosc

Bosco ripario

Inventory of waterway heritage

Bosco ripario

Morfologia fluviale del basso corso Dipinto San Mauretto

Paesaggio agrario

Argini austro-ungarici_tris

Le chiese di San Giorgio al Tagliamento

Dipinto del mulino di San Giorgio

Oratorio di Santa Sabata

Ramo morto del Tagliamento Attraversare il fiume: il passo barca villa Mocenigo-Ivancich

Cimitero austro-ungarico 🅰

Ara Pacis

Villa Bottari-De Buoj

961 bombardamenti:

Both natural and cultural heritage



Cultural heritage: tangible assets

Hydraulic artefacts (locks, water pumps, bridges, docks, historic canals, hydraulic factories like water mills, forges, etc)
Historical architecture with monuments and buildings (farms, vernacular dwellings, villas, castles, rural chapels and small churches, walled riverine towns)

- Waterscapes (natural/built, land reclamation)

Cultural heritage: intangible assets

- Oral history and memories of boatmen, fishermen, etc
- Literary landscape (novels, poetry...)
- Other cultural representations (paintings, photography, postcards, ...)
- Traditional knowledge of craftsmen, ferrymen, 'cariolanti'...





CENTRO INTERNAZIONALE

INNOVATION AWARD Exploring Canals: Venice's Waterways **Inverness (Scotland), 2016** 29th World Canals Conference





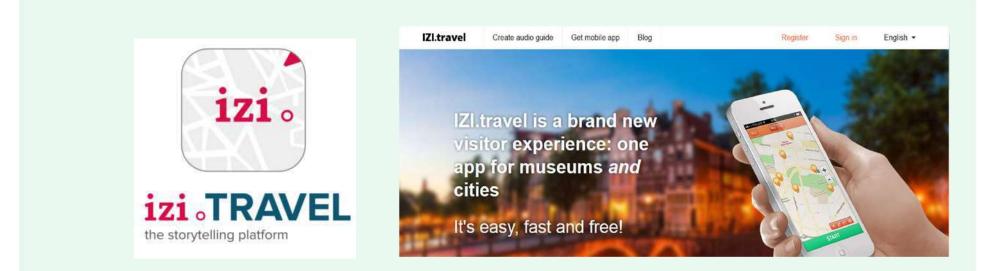
www.waterwaysexplorer.org











izi.TRAVEL: + 1 million downloads
An open-source web platform to build digital audio-guides as an alternative tool to Apps.
A powerful tool to promote project results



www.waterwaysexplorer.org





Goals

 Improve perceptions and awareness on the multifunctionality of waterway heritages
 Foster new eco-tourism and leisure practices



DISPUTED WATERWAYS

EUWATHER European Waterways Heritage











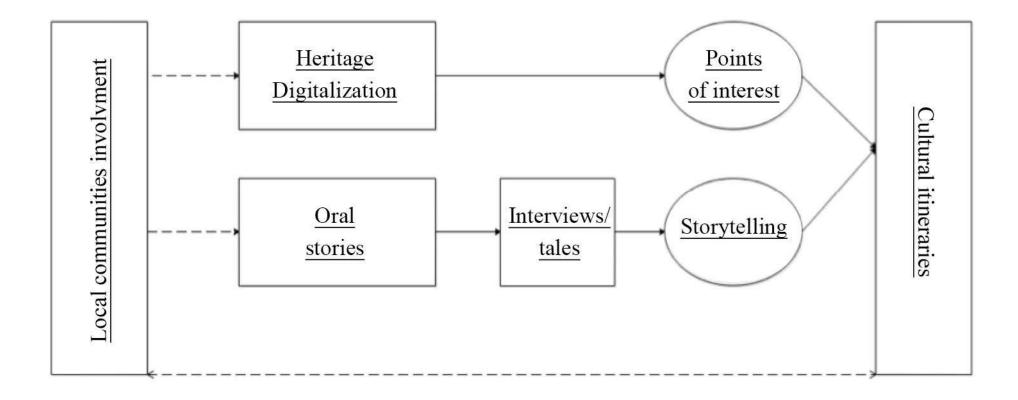
Open source web platform (not App)
 Possibility to include oral history with interviews and other media uploaded in the audioguide
 Methods for public participation and involvement of local communities to co-design digital tours











5 different main steps



 General survey and identification of Pols
 Tour Design
 Production and publication
 Dissemination
 Maintenance

1) General survey and identification of main Pols After a thorough survey of the area, the first step in developing a digital tour is to make a general outline of the trail. This is crucial to identify the main Points of Interest (apprx. 12-20 points for a visit of 2-3 hrs c.)



EJohn Hambrock.

2) Tour Design

2.1 Create a digital map & the storyboard 2.2 Select contents and photos and upload the POIs 2.3 Upload the draft tour (export to StoryMaps)

🗊 Details 🏄 Add 👻 📝 Edit 🛛 🔠 Basemap 🕎 Analysis	🖬 Save + 🗯 Share 😂 Print 🤣 Directions 🗮 Measure 🖽 Bookmarks 🗐	Punten	
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3) Production & publication 3.1 Enrich all POIs and check further your tour 3.2 Publish (off line) your tour for field monitoring



4) **Dissemination**

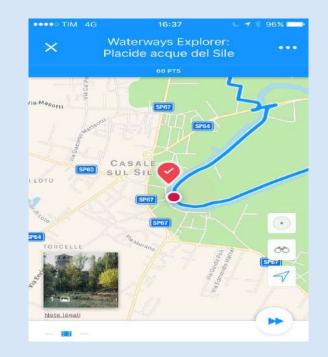
Your target audience will not find your water-heritage tour unless you make a plan for disseminating the itinerary. Marketing and promotion strategies should involve key partners and stakeholders of your region



5) Maintenance

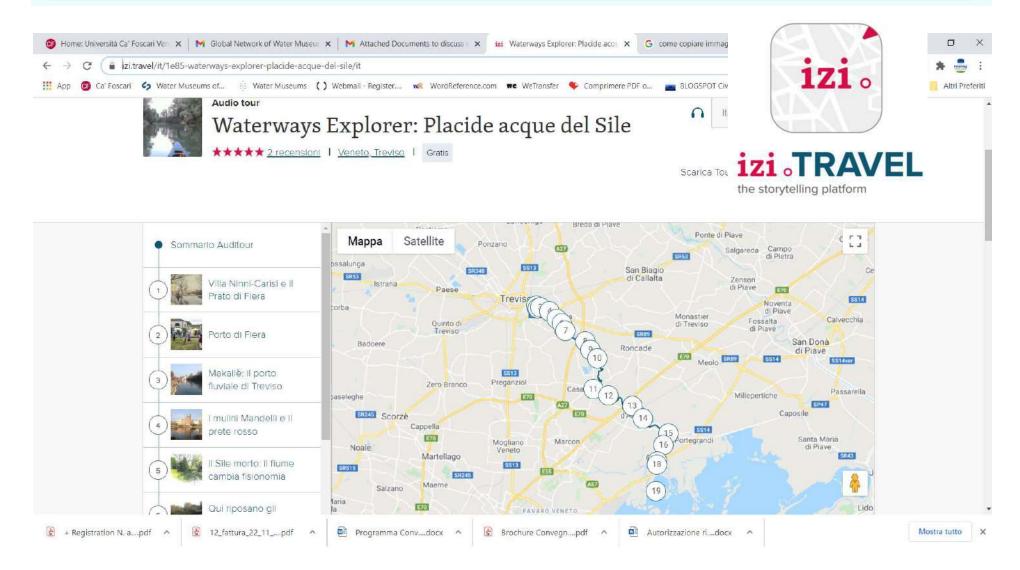
5.1 Repeat the field check on a yearly basis to find gaps5.2 Use izi.TRAVEL statistics to improve your tour5.3 Consider the feedback from users





Silent waters of the Sile River

https://www.izi.travel/it/1e85-waterways-explorer-placide-acque-del-sile/it





«YouInHerit» 2016-19

Youth Involvement in the innovative valorization of boat builders' Craft Tourism

 New routes co-designed with young students
 Dedicated training (4 months) to develop digital itineraries on Venice's sailing tradition







5 NEW DIGITAL ROUTES

Each digital tour is a combination of: Notorious tourist attractions Key sites of traditional wooden boat builders





DIGITAL STORYTELLING



Students were involved to make interviews and find creative ways to build original contents and transmit our "watery past": cultural practices, values, and attitudes





CENTRO INTERNAZIONALE



Explore Forgotten Venice www.watermuseumofvenice.com/storie

4 Water Museum of Venice: the web platform of Venices' «extended museum»



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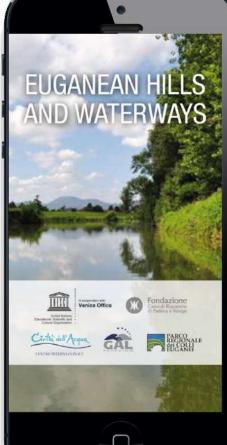


2014-2019 The research conducted to make an inventory of POIs and new digital tours led to the web platform of an «extended museum» on Venice's hydraulic heritage 70 water heritage sites (Padua and Po Delta) out of 300 estimated sites in the Tre Venezie

WWW.WATERMUSEUMOFVENICE.COM

WATER MUSEUM OF VENICE DIGITAL & EXTENDED MUSEUM, ITALY











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GOAL

Represent Venices' rich and diverse water heritages, and build a repository of visual knowledge to: 1) Commemorate the past 2) Explore the legacy of «liquid assets» with digital trails for responsible tourism 3) Inspire the future by learning from previous sustainable uses of water



Global Network of Water Museums





WATER **MUSEUM** of VENICE

Network



Castello del Catajo Palazzo signorile e baluardo militare a presidio dei commerci sul Canale Battaglia





Museo della Navigazione Fluviale L'epopea dei marinai d'acqua dolce e la tradizione delle pratiche nautiche di fiume in mostra



Museo delle Idrovore di Santa Maraherita Un'idrovora funzionante dell'Ottocento racconta la storia della bonifica e del paesaggio

esplora)

Porto fluviale del Portello L'approdo storico del Burchiello nell'icona patavina del Canaletto

esplora :



Colmelloni di Limena Due chiuse monumentali a guardia dei canali navigabili medievali di Padova

esplora >



Fonte della Madonna della Salute di Monteortone Acque termali miracolose nel Santuario mariano ai piedi dei Colli Euganei

esplora >



Museo Archeologico del Fiume Bacchiglione Dal Neolitico al Medioevo: alla scoperta delle civiltà lungo il fiume

esplora >



esplora > Anello idraulico di Padova

La città del Santo vista attraverso l'antica rete dei navigli urbani

esplore >



Paesaggio urbano dell'acqua nell'antica Torionga del Castello Carrarese





esplora >

esplora /

Palude di Onara





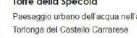
Corte Benedettina di Correzzola Sulle rive del Bacchiglione: il centro economico e produte de lla bonifica medievale

Acque di risorgiva e paesaggio dei prati

stabili nelle terre degli Ezzelini

esplora >

Torre della Specola







Global Network of Water Museums

Global Network of Water Museums



Una mirabile sintesi barocca di architetture, fontane, giochi d'acqua e spazi arborei





.







WATER OF VENICE

"Fiealizzato in età barocca, questo giardino fu concepito da committenti come metatore di un percorso spiritissie di selvezza. È trà i più importanti giardini monumentali realizzati all'opoca della Serenissima. Conserva alberi secolari provenienti da tutto il mondo e l'acqua è annipresente: dal trianfante portale di Diane al Garden susseguirai di peschiere intervallate da fontane, scherzi d'acqua e statue allegoriche, che danno vita al "gran leatro d'acque". *

Il Cambrio monumentale di Valsanzion, realizzato balik 1985 e il 1997 per volontà dei noble venezzano Zuane Francesco Barbarigo e del figli Antonio e Gregorio, è uno sploratido esemplo d gendre taxos parkitamena consecuti Addemanteira vi pokone servere nesta scienciale qualitario e de taxos da carte se consecuto a destre e consecuto a carte e consecuto a carte consecuto a ca Betrain, tratello del condent scuttme Gan Lonenzo. fu espirato dell'alloro cardinale Gregorio Barbango, primogonito di Zulene a futuro Santo. In seguito a un solermo visto fatto a Dio dal padre nel 1631, genodo in cui Venezia ero fagelaria da una tembrio postienza. Gregorio volle che il giardine di Vatarizibio divertacce una metafora dei percorso spinituite o dalla 'Va di perfezione" che porte luomin dall'Errore alla Venta, dall'ignoranza alla Rivelazione Garsto porceso di Salvitezzane ha inzio preso l'imponime Portale di Dana - la monumentale porta diacua che un tempo fungero da oprodu per le gondole e la Nelle vicingimene imbestrazioni dei Eartrango e si cancilade capo un lungo itmesario davanti alle villa e al Piszzale della Fontaria dell'Estasi, dette anche Fontaria delle Rivellazioni. All'interno dell'incattevelè giartino trovaco perlo, su più di deci ettati di supreficie, nana settante strète det scammere gatoris novano poso, su para la noci entra o superno, crea semanti stane in pedra distari, poste del Nelezcijo, o sintegato scattare mino, tele si imogrario de archabilitas, fontane, lagelari, scheat dicepte e penchese Lung navrio percons orializzo di sobrazza, così como concepto dai committerio, o si può softenure in superi unreri e suppetito, une il Laterito di Bousa, la Centa dell'Essenta, Tatuta de Conjel, il Morameredo Cross in precision a withelphe dedicate a flum diverzati. Il maeticale podale diver inzia il percesso su cui seetta le statue d'Elana, dea della carca e delle nutazioni cristillove l'activi parcesso va angua alla tenda de latetango: un tempo la proprette era raggiogobile da Venezia in barca, porcomendo la Rivieria do Brenta e E Canale Baltaglia e, infine, la valle da pesca di Sont Eusebei (da cia il nome ottuale Velsonzibin).



mappo /59

Control distribution di lovo a casa è cherretti dalla stabilita (internova), la Bellagila Torne e a 7 tellovoria da guella di Manodez ancha ante da tend a larga personetta futura duta sura di charenti dalla dapore di Tener Espano-Aluna Managotta. One di sono naneroni dapore di Tener Espano-Aluna Managotta. One di sono naneroni dapore di Tener Espano-Aluna Managotta. One di sono naneroni dapore di Tener Espano-Aluna Managotta. One di sono naneroni dapore di Tenero. taxi. Stielate to possibility in interscriming then which in ade acets larre Eugene adotted AA processe in decore Softagia Terre e proceder quella kago va Petaria e va Vall Veneretta Deportetta di pesteggio grante preso Deporte al

Informationi papelunitur Orari si apertura e visiter Dove manpiare:

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Colmetoni di Limena The choice Honomenial is guardia the canal navigabili metilevali di Padava



Museo Archeologico Ambientale delle Acque di Padova I ford maritian the contention is a choiced attriviated eparti-date operche sobor ques







INTERNATIONAL CENTRE







MUSEUMS CAN STIMULATE SOCIAL INNOVATION **& NEW VALUES** BRIDGING **PAST & PRESENT** WATER **KNOWLEDGE**

A key guide for local development governments, communities, and museums (by ICOM/OECD)

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The key role of water museums and water heritage sites to foster water sustainability education, the ecological transition and development of 'responsible tourism'







AT THE ORIGIN OF ...









unesco

Hydrological Programme

Intergovernmental

THE GLOBAL NETWORK OF WATER MUSEUMS

 + 70 water museums world wide 30 different States
 + 30.000.000 visitors / year





INTERNATIONAL CENTRE



United Nations

Educational, Scientific and

Cultural Organization

Venice Office Regional Bureau for Science and Culture in Europe

GLOBAL NETWORK OF WATER MUSEUMS

1st International Conference: Venice, May 2017



United Nations Educational, Scientific and Cultural Organization International Hydrological

Programme





Università Ca'Foscari Venezia



WHY A GLOBAL NETWORK OF WATER MUSEUMS ?

Water museums, eco-museums, 'extended museums', digital museums, interpretation centres etc ... exhibit an outstanding repository of water heritage (natural & cultural, tangible & intangible) which needs to be re-connected to people to face the global water crisis

TOWARDS A «NEW WATER CULTURE»

We must "reinstate a new relationship between humanity and water: a new 'sense of civilization' which can help to reconnect people and water in all its dimensions - including scientific, technical, social, cultural, artistic and spiritual"

(quoted from the Manifesto / Charter of the Global Network of Water Museums)







UNESCO Intergovernmental Hydrological Programme

UNESCO-IHP Resolution n.5-XXIII June 2018 «The Global Network of Water Museums and UNESCO-IHP in support of water sustainability education and water awareness efforts» > Flagship initiative of UNESCO-IHP **Intergovernmental Council**



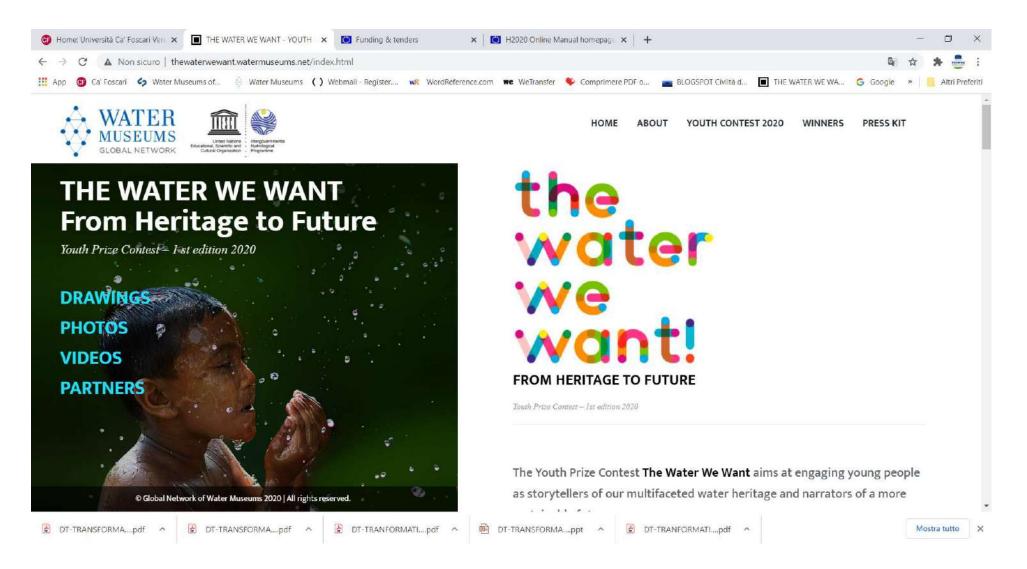




UNESCO Intergovernmental Hydrological Programme

UNESCO-IHP Resolution n.7-XXIV June 2021 «The Global Network of Water **Museums and UNESCO-IHP in support** of water sustainability education and water awareness efforts» > Worldwide inventory of water museums

YOUTH CONTEST & AWARD DIGITAL EXHIBITION



GLOBAL COLLABORATIVE DIGITAL EXHIBITION



I REMEMBER WATER Deadline for submission November 15th

WATER MUSEUMS AS VECTORS OF SUSTAINABLE TOURISM ?



A PLATFORM OF WORLDWIDE WATERY DESTINATIONS FOR RESPONSIBLE TOURISM ?





CENTRO INTERNAZIONALE



THANK YOU FOR YOUR ATTENTION

WWW.WATERMUSEUMS.NET

INFO@WATERMUSEUMS.NET





United Nations Educational, Scientific and Cultural Organization



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UNESCO Chair

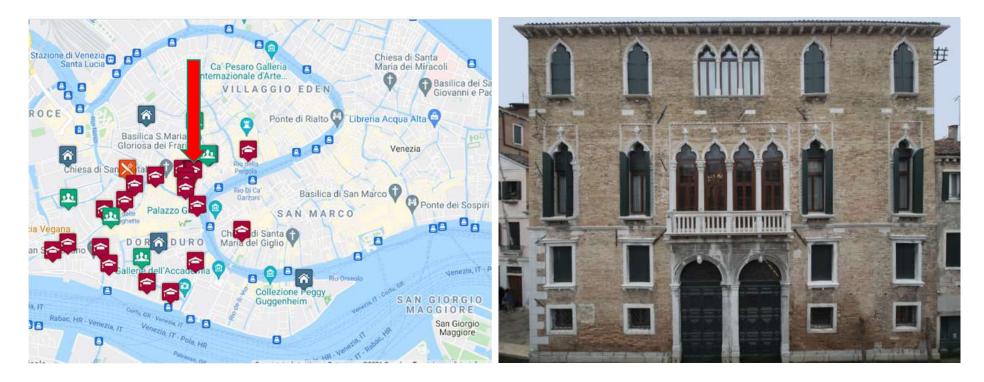
Water, Heritage & Sustainable Development

University of Venice Ca' Foscari





UNESCO Chair located in Ca' Bottacin At the Center for Humanities & Social Change









Promote new interdisciplinary and holistic research approaches to train the staff of water museums, professionals, academics, students and decision makers

Strenghten the institutional and human capacities of water museums







Maximize their impact of water museums to boost local development with new projects aimed at increasing the territorial attractiveness on hydraulic heritages and freshwater ecosystems

Closer cooperation with the UNESCO "water family"