



D.T2.2.4

Local Training on APP tool use (and technological transfer of VR for thermal resource)- for its further dissemination

06 2022

Final version





Project Partners



Report provided by:
PP11 Upper Adriatic Technology Park
in collaboration with HealingPlaces project partners

Report elaborated as D.T2.2.4

within the project CE1308 Healing Places - *Enhancing environmental management capacities for sustainable use of the natural heritage of Central European spa towns and regions as the driver for local and regional development.*

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Introduction

In the framework of HealingPlaces project, the consortium was involved in the definition and development of technology tools for the sustainable management of thermal water resources and, especially in the thermal area of the Euganean Hills an App for the management for thermal water resource and environmental sustainability preparation (D.T1.4.6) and the immersive room (D.T2.2.6) have been developed and implemented, the latter, due to organisational issues and the pandemic situation of Covid-19, has been modified into Virtual Reality contents to be viewed through visors/VR helmets and cardboards. In this respect, a local training with local stakeholders: local authorities, SMEs, Associated Partners, experts, researchers, SPA managers, has been organized in the Abano terme, thermal pilot area. This tool provides to the participants interactive information, awareness guide for thermal technicians & users of thermal sites in order to better understand the environment around them and the impacts of thermal activity.

Agenda & Minutes

PP11, in strength collaboration with local stakeholders and associated partners organised a training (testing - adapting - validating) meeting with local stakeholders of the Euganean thermal area to present and test the App to monitor and guide the sustainable use of resources (D.T1.4.6) and the VR (Virtual Reality) experience (D.T2.2.6) developed within the Healing Places project. The training meeting was held on the 27 June 2022 in the premises of Hotel San Marco in Abano Terme (Padova, Italy).

Please see Annex I with the Invitation and Agenda.

The project results were presented by Mr. Diego Santaliana from PP11 and the President of GUBIOCE, Mr. Aldo Buja. Then the local municipalities, involved in the project, took the floor, starting from the two Associated Partners (Abano and Montegrotto), to express their appreciation to the project and its results on the local territories in terms of involvement of stakeholders and diffusion of awareness about thermal resources and their sustainable use.

The local agreement between PP11 and GUBIOCE for the supply of VR visors and the use of the App was presented and it was explained that those appliances will be available also to other local actors (municipalities, schools, hotels) in order to expand the contents among their own contacts. At the same time more contents can be prepared in the future for the 3D virtual presentation and the involvement of stakeholders, citizens and tourists, at this time and relating to the project purpose these further contents will not be included, otherwise there





will be set up further discussion for project after-life, in particular through the signed local agreements that define responsibilities and operability of VR and APP tools.

Photos



Image 1 and 2 - Participants: researchers, thermal expert, managers, local authorities





Image 3 - President of G.U.B.I.O.C.E explaining HealingPlaces project participation by local stakeholders and main objectives - PRESENTATION OF THE APP TO LOCAL STAKEHOLDERS



Image 4 - President of O.G.D. (Entity for promotion of Euganean Thermal Basin) expressed local intentions and interests in taking part into a strategic approach towards sustainability





Image 4 - Spokesperson of the Municipality of Monfalcone (Friuli Venezia Giulia thermal area)



Image 5 - General Director of Upper Adriatic Technology Park with VR testing and adaptation phases





Images 6 and 7 - Participants test VR and experience it themselves





Images 8-10 - Participants test VR and experience it themselves





The Application - D.T1.4.6

The stakeholders and PP11 commonly decided that the APP has these three scopes in its core for satisfying the local needs:

1. **INSERTING CONSUMPTION DATA:** the users and administrators will have the possibility to insert punctual and verifiable data, as key point to automatizing the process;
2. **VIEWING INFORMATION ON BIODIVERSITY, GEOLOGY AND LANDSCAPES:** the users and administrators will have the possibility to view info well levels, occupied beds and the relationship between touristic offer and consumption.
3. **AUTHOMATIC MONITORING OF VARIOUS WELL LEVELS:** automatic acquisition of maximum and minimum data of well levels based on existing data furnished by ARPAV. This functionality has been suggested by ARPAV (special agency of the Veneto Region in charge of monitoring health status of water). ARPAV does not use EU funds asked to allow a follow-up process upon the existing Healing Places' APP. This follow-up capitalisation process will consist on the activation of this 3rd functionality on expenses of Region Veneto itself in the after-life period of Healing Places, so to guarantee sustainability of the project and to allow the digitalisation process of the environmental monitoring Institutions (already planned by the Veneto regional administration).

The application gathers, aggregates and shows data furnished by different entities in the form of graphs/charts/histograms in order to make clear and immediate their reading. The aim is to create a tool that can help technicians/ decision makers in the management of the thermal resources through different perspectives. On the other hand, the APP will be the tool (used mainly by tourists and inhabitants of these areas as final beneficiaries) that will emphasize the thermal water value as natural resource to be preserved and used in a proper way given the fact that is reducing in its reserves. The tool will be usable by smartphone and PC and will be functionable on the management of the thermal water resources; the APP will be tested and implemented in the territories of project partners and associates (through an initially testing phase in the territory of reference), in particular those dealing with issues related to the management of thermal water and the development of SPAs. The final version of the APP will be used to inform and guide visitors about the characteristics of the thermal waters and the environmental values of the SPA's sites. Furthermore, it will be integrated by a user manual and training plan that will be provided in favor of APP users: stakeholders, SMEs, associated partners and other target groups (thermal public authorities, decision makers, technical public officers, SPA companies and the general public). After the APP realization, a technical APP validation report will be elaborated by taking suggestions and advices on local and new environmental conditions.

Participants

At least 40 people participated in the meeting (of which just 25 signatures were collected), including the Project Partner Polo Tecnologico Alto Adriatico, the Associated Partners GUBIOCE, Municipality of Abano Terme and Municipality of Montegrotto Terme, plus local stakeholders: other municipalities of the Euganean thermal area (Cervarese Santa Croce,





Monselice, Arquà Petrarca, Rovolon, Teolo, Galzignano Terme) and from Friuli area (Monfalcone), the OGD Terme e Colli Euganei (local destination management organisation), business support organisations and associations and consortia of local actors as Federalberghi Terme Abano Montegrotto (hotels), Consorzio Veneto Terme Colli Marketing, Confartigianato Abano Terme (craftsmen), CIA Padova and Coldiretti Padova (farmers), Confesercenti (commercial activities), Chamber of Commerce of Padova, Venetian Cluster. There was also the participation by the University of Padova. Please see Annex II for the signature list of participants. For each municipality involved (especially the officers in charge of who participated in the local training) did represent also the education municipality system.

Testing, training, adapting and validating phases

After the presentations, all participants tried the VR visors to experience the contents prepared about thermal areas of Veneto and Friuli, their stories, characteristics and environmental aspects.

The WebApp for the collection of data concerning the use of thermal water was also presented, while hotel owners and managers were contacted after the meeting for the collection of data in order to test and validate the platform.

The event was a good opportunity for a demonstration of potential uses of technology for the education as well as promotion about thermal areas, and a good moment for exchanges between different stakeholders of the territory on future steps for a better organisation among different subjects with the objective of more coordinated actions towards sustainable use of resources and consequent communication and promotion of those issues towards citizen and tourists/customers.

All participants have received an APP tutorial to be used and followed in order to under all functionalities and main sections. This tutorial is available in the D1.4.8.

To all technical schools, GUBIOCE has distributed cardboards free of charge.

Feedback from users

All users that tested the 3D VR contents through the available visors at the presentation event were satisfied and expressed good comments about the experience.

The WebApp was tested and validated with the contents provided by several hotel owners and managers, data about occupancy and use of thermal water were uploaded and are stored to be compared with future data in order to map the evolution of the use of resources. The WebApp demonstrated to be easy to use and the insertion of data is very quick and intuitive.





Conclusions and recommendations

The VR experience showed an excellent mean to transfer knowledge and awareness about the thermal environment and the use of resources, as well as for the promotion of the area and its excellencies to people from abroad. The potential of this tool is very high and can be exploited by preparing more contents, for example addressed to students and professionals about the correct and sustainable management of thermal water resources.

The WebApp is also appreciated as a monitoring and forecasting tool in order to have a good knowledge of the use of thermal water compared to the occupancy of hotels, it will be up to the local stakeholders (that have been involved in project actions) to populate it with more data and use it for the definition of strategies and policies at local level.

Annex I - Invitation to the event and meeting agenda





Progetto Europeo “HealingPlaces” finanziato dal
Programma Interreg Central Europe

“Le Risorse Naturali delle Aree Termali Europee verso
uno Sviluppo Sostenibile in ambito Regionale e Locale: le
azioni pilota nel Contesto termale dei Colli euganei nella
Regione Veneto e di quello nella Regione Autonoma del
Friuli Venezia Giulia”

Vi invitiamo all’Evento in presenza dedicato alla
Validazione e Adattabilità di un’APP e una realtà VR per il
termale: la cittadinanza a confronto presso Hotel San Marco,
Monteortone di Abano terme (PD) via Santuario, 130

Lunedì 27.06.2022

17:00 - 19:00

Per il collegamento online a questo link di registrazione:

https://us02web.zoom.us/meeting/register/tZErd--vqDlVGN3Wxs0K1Nc_AmqUNN7tw---



POLO
TECNOLOGICO
ALTO ADRIATICO
Andrea Galvani



GESTIONE
UNICA

DEL BACINO IDROMINERARIO
OMOGENEO DEI COLLI EUGANEI





Introduzione

Il progetto Healing Places mira a uno sviluppo più sostenibile delle terme proteggendo le risorse naturali uniche che ne costituiscono la base. I partner progettuali, da Italia, Austria, Croazia, Polonia, Ungheria, Slovenia e Repubblica Ceca, hanno contribuito ad estendere la conoscenza e la consapevolezza sull'influenza di vari fattori endogeni ed esogeni sui depositi idrici sotterranei costruendo modelli di governance multilivello e multiterritoriale della gestione delle risorse termali naturali. Un elemento cruciale del progetto è stata la costituzione di uno strumento comune, innovativo e web-based per la valutazione delle minacce e delle pressioni sui giacimenti minerali e di acqua calda.

L'obiettivo principale del progetto HealingPlaces è di valorizzare e migliorare le pratiche di gestione attuali della risorsa naturale nelle aree termali del Centro Europa. Le attività del progetto HealingPlaces si sono raggruppate attorno a 3 temi principali: uno sull'analisi, mappatura e valutazione ambientale e dei maggiori impatti delle aree termali, il secondo su specifiche azioni pilota che hanno testato soluzioni innovative e tecnologiche per il termale e l'ultimo, ma non per importanza, sullo sviluppo di una strategia comune per le aree termali europee sostenibili.

Nell'ambito dell'azione pilota di progetto svolta principalmente nel contesto termale dei Colli euganei e in quello regionale del Friuli Venezia Giulia, grazie alla stretta collaborazione del Polo Tecnologico Alto Adriatico Andrea Galvani (partner progettuale), l'ente di emanazione regionale Gestione Unica del Bacino Idrominerario Omogeneo dei Colli euganei (partner associato di progetto), il Comune di Montegrotto terme (partner associato di progetto), il Comune di Abano terme (partner associato di progetto) e il Consorzio Terme Colli Marketing in data 27 giugno 2022 (ore 17-19) si presenteranno e testeranno i maggiori risultati progettuali ottenuti assieme ai partecipanti, nello specifico:

- Applicazione IOS/Android, adattata alle condizioni locali dell'area termale euganea, in grado di raccogliere, gestire ed elaborare importanti dati utilizzati da tecnici, gestori e autorità locali nel contesto termale;
- Esperienza immersiva VR "Le nostre terme: dai Romani ai giorni nostri", adattata alle condizioni locali delle aree termali tra Regione Veneto e Regione Friuli Venezia Giulia, per sensibilizzare ed informare un pubblico ampio sulle peculiarità specifiche della risorsa naturale termale, sulle prospettive sostenibili di utilizzo della risorsa e sulle caratteristiche territoriali più rilevanti.





Agenda

L'evento avrà luogo ad Abano terme, nella località di Monteortone presso l'Hotel San Marco (via Santuario, 130) nella giornata di lunedì, 27 giugno 2022 dalle ore 17 alle ore 19:00. Seguirà un light dinner per tutti i partecipanti in presenza.

L'invito è esteso alle Autorità locali e regionali, ai gestori della risorsa termale nell'ambito regionale e locale, ai tecnici di settore, ai proprietari di centri termali e di centri di benessere del termale, agli studenti del settore e a tutta la cittadinanza.

Lunedì 27 Giugno 2022

SESSIONE 1	<i>Il contesto termale tra Veneto e Friuli Venezia Giulia: principali attività, sfide, prospettive future ed opportunità</i>
17:00	Saluti istituzionali da parte dei Sindaci del comune di Montegrotto terme e di Abano Terme
17:10	Saluti istituzionali della Regione Friuli Venezia Giulia /Comune di Monfalcone /Terme Romane del Friuli Venezia Giulia (in attesa di conferma)
17:20	Partecipazione locale nel progetto europeo Healing Places della Gestione Unica del Bacino Idrominerario Omogeneo dei Colli Euganei e dei Comuni e Gestori termali da essa rappresentati da parte del Presidente di G.U.B.I.O.C.E Aldo Buja
17:30	Partecipazione locale nel progetto europeo Healing Places dell'Organizzazione del turismo regionale (OGD), Terme Colli Marketing e l'accordo di collaborazione tra Museo del Termalismo e l'amministrazione comunale, da parte della Presidente dell'OGD Resy Bettin
17:40	I Presidi delle scuole del Bacino termale euganeo presentano le nuove opportunità e sfide per i giovani nel settore turistico-alberghiero termale
SESSIONE 2	<i>L'azione pilota nei contesti termali tra Veneto e Friuli Venezia Giulia: le nuove tecnologie per il settore termale</i>
17:50 - 19:00	Presentazione del Progetto HealingPlaces, degli obiettivi specifici e i dei principali risultati avuti nell'implementazione progettuale tra Veneto e Friuli



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OMOGENEO DEI COLLI EUGANEI





	Venezia Giulia da parte del Polo Tecnologico Alto Adriatico Andrea Galvani dal Project Manager Diego Santaliana <ul style="list-style-type: none">- Presentazione dell'APP e dell'esperienza immersiva VR- Testing e adattabilità dei tools con gli attori principali del termale
19:10	Light Dinner

Chiediamo cortesemente di confermare la Vostra partecipazione via email al primo indirizzo che trovate qui di seguito. Per qualsiasi richiesta di informazione, vi preghiamo di contattare questi riferimenti:

Diego Santaliana

diego.santaliana@poloaa.it

+ 39 3711863515

Eva Canevarolo

eva.canevarolo@poloaa.it

Aldo Buja

aldo.buja@aristonmolino.it





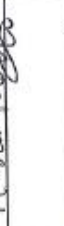
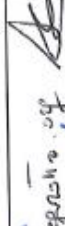



+39 3351807981





Annex II - Signatures' sheets

LIST OF PARTICIPANTS
HEALINGPLACES PROJECT - INTERREG CENTRAL EUROPE
PLACE ABANO TERME DATE 24/06/2022
LOCAL TRAINING ON APP TOOL USE DT2.2.4

INSTITUTION	NAME	SURNAME	PHONE NUMBER	E-MAIL	SIGNATURE
FEDERAZIONE REGIONI ALTO ADRIATICO	MARTINA	GREGGIO	349173973	martina.greggio@abano.montegnove.it	
CAVORLIONTE	ANDREA	TEZZON	3595757828	andrea.tezzon@elion.it	
COMITTEE DI GERUPRESI	LUCIANA	RIZZI	3202109584	luciana.rizzi@comune-cercorese.pd.it	
COMUNICAZIONE ABANO	RICCARDO	RIZZIERI	3588892299	francesca.fara	
CONFERI TORSEUCE	FRANCESCA	FARA	3463075313	francesca.fara@comune-torseuce.mt.it	
COMUNE DI MONTIGNANO TERME	ANDREA	AGNELLO	355575502	agnello.andrea@montignano.org	
CITA' DI MONTIGNANO TERME	RICCARDO	MONTIGNANO	3479708910	riccardo.montignano@montignano.org	
CIA PADANA	LUCA	TRIVIAIO	328419263	paoloforte@ciapadana.it	
VENETIAN CLUSTER	MAURILIO	MALE	3490751803	MAURILIO.MALE@VENETIAN.CLUSTER.EU	

TAKING COOPERATION FORWARD

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











LIST OF PARTICIPANTS
HEALINGPLACES PROJECT - INTERREG CENTRAL EUROPE

PLACE ABANO TERME DATE 27/06/2022
LOCAL TRAINING ON APP TOOL USE DT2 2.9



INSTITUTION	NAME	SURNAME	PHONE NUMBER	E-MAIL	SIGNATURE
VENETIAN CLUSTER	COSIMA	TREVISANELLO	+39 3284148722	cosima.trevisanello@venetiancluster.eu	
COMUNE DI AREVA' PIZARCA	SARA	BONELLO	+39 363450745	sarabonello@areva.it	
COMUNE DI ROVERETO	FABIO	CAVATIN	12687 33800	FABIO.CAVATIN@COMUNE.ROVERETO.IT	
COMUNE DI ROVERETO	DAVIDE	CUSTOFANON	3355862506	DAVIDE@CUSTOFANON.IT	
GRUPPE ABANO TERRE	FRATELLO	POTTA	3286581661	fr.potter@gmail.com	
COMUNE DI TEGOLE	MATEO	TURBETTA	3478433368	matteo.turbetta@comune.tegole.it	
COMUNE DI PIAZZA D'ARCA	LUCIO	BALGONESTI	3355759330	balgonesti@piazza-arca.it	
COMUNE DI GALLIGNANO TERME	DAVIDE	SECCOMI	3493213923	dasolmin71@gmail.com	
CONFERGENTI	MAURO	CINERMA	3474110903	maurocinerma@confergenti.it	

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LIST OF PARTICIPANTS
HEALINGPLACES PROJECT - INTERREG CENTRAL EUROPE

PLACE ABANO TERME DATE 27/06/2022
LOCAL TRAINING ON APP TOOL USE DT1.2.4



INSTITUTION	NAME	SURNAME	PHONE NUMBER	E-MAIL	SIGNATURE
CCIAA PD	Michelle	Chirizolo	335 8394268	cciaa@phirel.com	
CONSORZIO VENEZOTICH	MUSTHA	BRESOLIN	981 1186778	info@termeallinterreg.com	
OGIO TERME E COLLE EUCARIEI	RESY	BENNI	329534887	resy.bezina@comune.termeallinterreg.com	
GIUBIOCE	Aldo	Bujd	335 1807981	aldobujd@hot-ital.com	
POLO AA	FRANCO	SGUARI		franco.sguari@po.aa.it	
POLO AA	DIEGO	SANTALUANA	348-062608	dip.santaluana@po.aa.it	

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