



AdSWiM

EVENTS ORGANISATION
AND PARTECIPATION

Deliverables 2.4.5
LABS



Project events were organized to support the dissemination of the WP objectives, results. All the photos related are on the project website multimedia section.

Deliverable 2.5 Didactic Modules for schools and lab for kids

The AdSWiM **awareness campaign** was set up to support three categories of information and educational activities that were scheduled around the 15 International days related to the environment and nature, water and sea topics, health and scientific research with a focus on Agenda 2030, Natura 2000 sites and horizontal principles of sustainable development. All the events created during the project lifetime were based on one shared, scheduled calendar. A coordinated communication and media kit in three languages that used the Programme's official visuals and colors, AdSWiM logo and campaign graphics, were produced: office pack, event kit, press kit, visitor programme kit and lab and workshop kit, season greetings digital postcards, flyers, roll ups, partners personalized leaflets and posters, technical abstracts, 11 types of gadgets and a final brochure. 4 social media channel were opened and traditional media (newspapers, magazines, TV and radio) were used to boost the activities.

Many of the events proposed on the local level included the realization of **didactic laboratories that involved different targets - pupils, students, citizens (in particular families with children) and general public** - and consisted of several didactic activities focused on the wastewater treatment plant process and water cycle. During most of the educational labs and workshops, the participants learnt how to create mini water purifiers by using a series of filters made of everyday materials and observed how the dirty water that passes through different layers became purified. A **lab and workshop kit for kids** was created consisting of 7 personalized lab leaflets and gadgets in collaboration with partners - institutions (UNIUD, UNIVPM, METRIS, IHZ), water companies (CAFC, VIK and IZVOR PLOČE) and municipalities (Udine, Pescara). During the workshops and events, a variety of materials were distributed through the **visitor programme kit and lab and workshop kit (leaflets, posters, flyers, gadgets, etc.)**





Figure 1-6: Examples of the workshop kits and tools invented, bought and created for the labs

In 2020 a **didactic module** was created based on the “take action” concept and addressed to teachers and to the pupils of primary schools focusing on the promotion of water protection issues and wastewater management education. The first part of the module focused on a training programme for teachers to develop systematic skills based on brainstorming and cooperative-learning approaches that could be used and proposed permanently during the classroom lessons. The didactic module involved several Italian and Croatian partners and 51 teachers and almost 600 primary school pupils from all regions (the Friuli Venezia Giulia Region, The Marche and the Abruzzo Region, the Istrian County, the Dubrovnik-Neretva County and Split-Dalmatia county). The didactic module, based around 8 different lessons, obtained patronage from the University of Udine and PREESOF 2020. The lessons were to take place in person and on site, but due to the lockdown we transferred the entire training course online from January until June 2021.

The teachers programme was based on 8 different lessons and it obtained patronage from the University of Udine and PREESOF 2020. The lessons were to take place in person and on site, but due to the lockdown we transferred the entire training course online from January until June 2021. The proposed topics were treated with a methodological approach to inform and offer teachers

intervention strategies to effectively transfer content to pupils, as well as ideas for evaluating the newly acquired knowledge. The second part of the didactic module involved pupils and classes of the primary schools and focused on wastewater management education, awareness and environmental protection. The classes worked on the proposed topics in order to create a joint work with the teachers that managed to transfer the knowledge obtained during the first part of the training course.

The final meeting was held online in 2021 on June 8, 2021, on the International Oceans Day, during which some teachers presented the work carried out in classes on the project topics by using “an **infographic**” as a teaching method with pupils. Video lessons were recorded and ADSWIM certificates of participation in two graphic formats were produced and distributed to teachers, pupils and classes for their participation. The Italian teachers could also request S.O.F.I.A accreditation as the module was approved by the Italian Ministry of Education. One of the project deliverables was also a realization of **two video infographics** - the first one at the project beginning that presented the partnership with a call to actions of good practices for citizens and the second one at the project end that presented the project results and technological innovations that can improve the water status of the sea. Both videos were used during the activities and are visible on the YouTube project channel.



Figure 8-10: Examples of the templates for certificates of attendance to the Adswim project educational module and to the workshops organized for teachers, classes and pupils.

A **guided visit programme to depuration plants and to the science structures**, accompanied by a **guided visit communication kit**, was also created and personalized by each partner to engage local schools (elementary or secondary schools), citizens and experts and bring the stakeholders representatives directly to the relevant locations related to ADSWIM project work (depuration plants, treated wastewater discharge points spot, seaside coastal areas). The *Visitor program and the labs activities* put in practice the “CALL to Action” AdSWiM campaign and pushed it to the next “TAKE ACTION” level, declined by target and by territory. All the people involved in the workshops and guided visits, became promoters of the project on social and face to face level.

12 laboratories for kids were held in presence in museums, local schools, and summer camps on territory in Fano, Senigallia, Udine, Pula, Zadar and online from Pescara, Ancona).

2020.08.04 Summer lab for kids in Fano UNIVPM



2021.08.3_4 Summer lab for kids in Fano UNIVPM



2021.09.09 Summer labs for kids in Senigallia UNIVPM



0

2020.09.27 Citizens lab Udine UNIUD_CAF_C_MoUD



2019.11.18 School labs METRIS



2021.12.05 workshop Festival znanosti METRIS



2021.05.13 Adswim labs for school's didactic module, Festival znanosti METRIS



0

2020.06.08 Citizen lab kids and families ZJZZ



2021.05.13 Workshops Festival znanosti ZADAR



2021.05.31 Municipality of Pescara, Didactic module and labs for kids, PESCARA

Three classes in presence (51 kids)



Dettagli riunione ^



Alza la mano

Presenta ora

Claudia Della Penna sta presentando

08:32




Claudia Della Penna



Stefania Filesi

Dettagli riunione ^



Alza la mano

Claudia Della Penna sta presentando



Claudia Della Penna



Paola D'Angelo

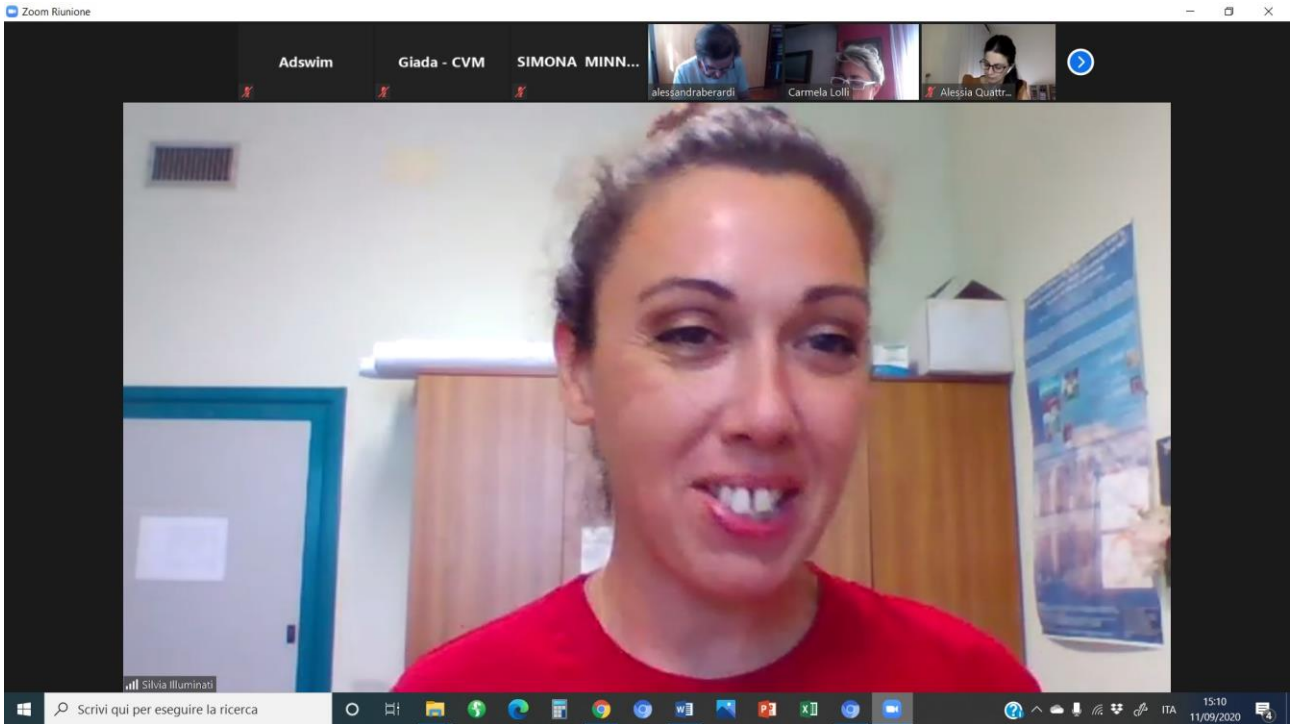
Dettagli riunione ^



Alza la mano

Presenta ora

2020.09.11 Student lab_UNIVPM didactic module for teachers





E COME PER MAGIA L'ACQUA SPORCA VA VIA: alla scoperta di un impianto di depurazione dell'acqua.

Laboratorio didattico per insegnanti e formatori

Venerdì 11 settembre 2020
Ore **15:00-18:00**
Evento online previa iscrizione

Attività prevista all'interno del progetto europeo AdSWiM: uso gestito delle acque depurate per la qualità del mare Adriatico

LAB 4
I cambiamenti climatici possono minacciare "l'oro blu" della terra?

Relatrice: **Prof.ssa Silvia Illuminati** (Università Politecnica delle Marche - Dipartimento di Scienze Biologiche e Ambientali)
Il Lab si svolge con modalità interattiva basata sulla didattica partecipata, in lingua italiana.

TEMA PRINCIPALE: Gli oceani e i mari (temperatura, composizione chimica, correnti e la loro vita) influenzano i sistemi globali che rendono la Terra un luogo vivibile. La morsa dei cambiamenti climatici sui "polmoni blu" del pianeta si fa sempre più stretta e preoccupante.

Verranno presentati laboratori didattici facilmente riproducibili in aula sulle seguenti tematiche:

- Quanto è freddo il ghiaccio?
- Addio ai ghiacci: Cosa succederà al mare quando tutto il ghiaccio polare sarà sciolto?
- Verso una nuova Era Glaciale? Effetto del riscaldamento globale sulla circolazione oceanica
- Cambiamenti climatici, viaggio all'interno di una carota di ghiaccio
- L'acqua come alimento: l'acqua ha sapore? Come leggerla un'etichetta
- E come per magia l'acqua sporca va via: alla scoperta di un impianto di depurazione dell'acqua

Il laboratorio viene ospitato all'interno del XIV Seminario Internazionale di Educazione alla Cittadinanza Globale intitolato Una generazione in Trasformazione organizzato dalla Scuola CVM (Comunità Volontari per il Mondo) per le giornate 10 e 11 settembre 2020, aperto previa iscrizione tramite piattaforma SOFIA e il modulo del sito: <https://scuola.cvm.an.it/programma-senigallia-2020/>

CVM è una ONG di volontariato internazionale impegnata sin dal 1980 nella revisione dei curricoli scolastici ed è un ente di formazione accreditato dal MIUR con D.M. 1772/2004/RT che con Direttiva N.170/2016, svolge annualmente un Seminario Internazionale di Educazione Internazionale. Il percorso 2020 è focalizzato alla formazione di una nuova cittadinanza in linea con i Documenti Internazionali dell'Unesco e dell'ONU, in particolare con l'Agenda 2030.

UNIVPM è una realtà a vocazione prevalentemente tecnico-scientifica che oggi offre più di 50 corsi di studio che coinvolgono oltre 700 docenti e ricercatori e ben 17.000 studenti. Il Dipartimento di Scienze della Vita e dell'Ambiente (DISVA) è una struttura d'eccellenza dell'Università che nasce nel 2011 dalla fusione di numerosi laboratori coinvolti in un'ampia gamma di temi di ricerca teorica e applicata. Legata all'ambiente e all'ecosistema marino, vede la partecipazione di oltre 100 scienziati e tecnici con competenze altamente interdisciplinari. AdSWiM coinvolge il gruppo di Chimica Analitica Ambientale che valuterà la qualità degli ecosistemi costieri e marini e proporrà descriptori innovativi sui nuovi modelli di riferimento. I ricercatori misureranno il livello di nutrienti ed elementi in tracce nell'acqua marina per valutare l'impianto di depurazione. La loro esperienza nell'analisi statistica contribuirà a identificare molteplici fattori di stress ambientale che influenzano la variabilità di quegli ecosistemi.

UNIVERSITÀ POLITECNICA DELLE MARCHE

Per raggiungere gli obiettivi, abbiamo bisogno di tutti voi. Segui la nostra campagna [#adswim](#) [#doyousea](#) [#vivimare](#)

Guardate il video sui nostri social [f](#) [t](#) [v](#) [y](#) [t](#) [i](#) [n](#)

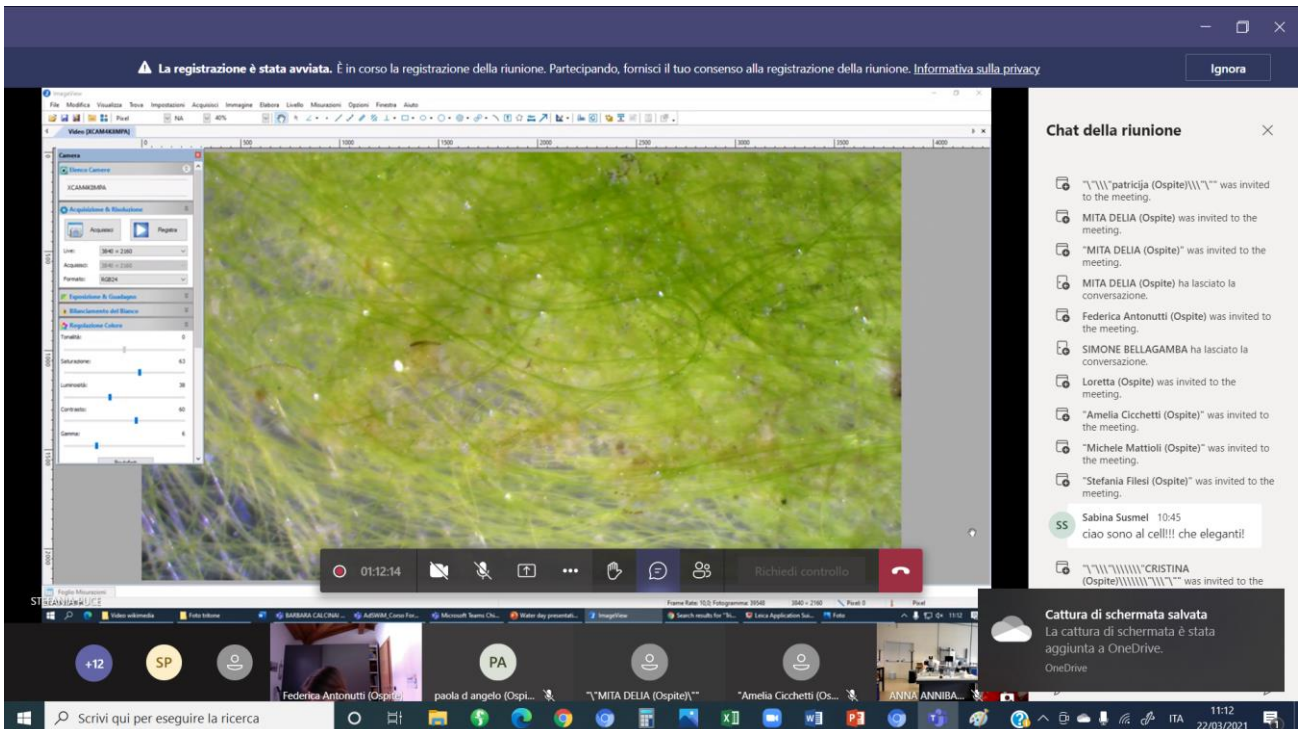
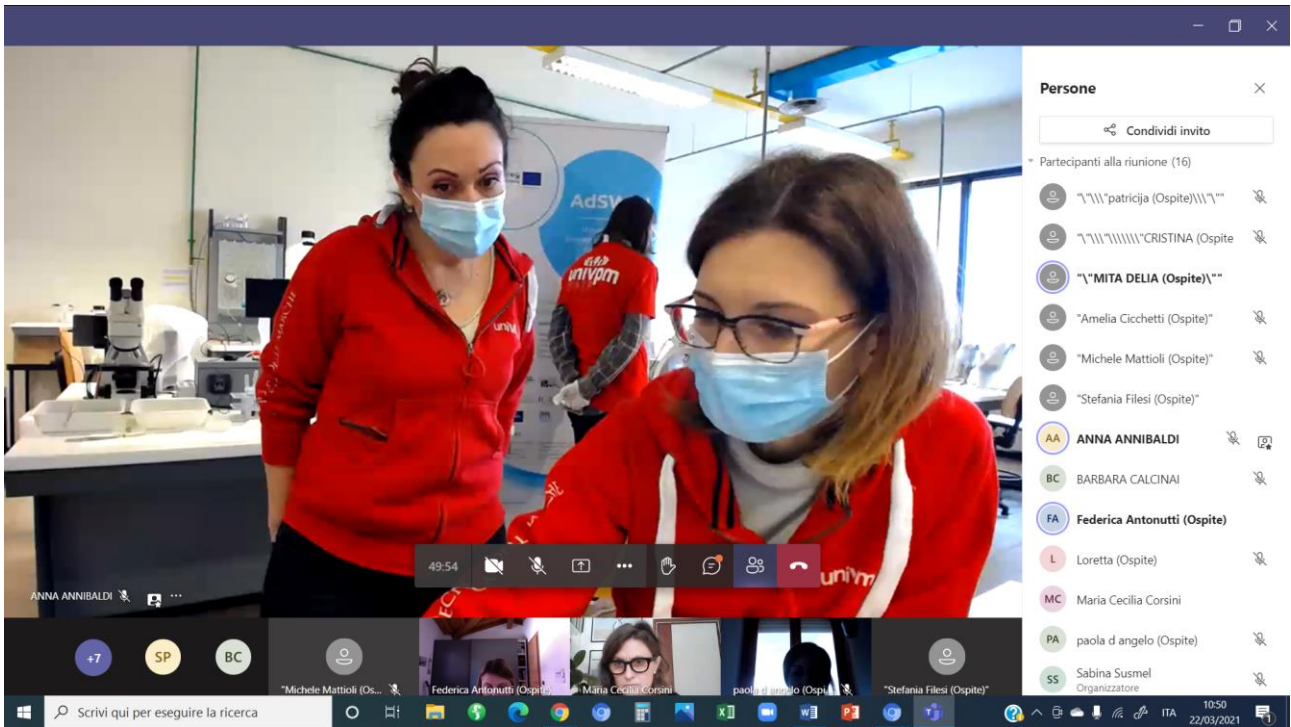
o sul sito italy-croatia.eu/web/adswim per capire come potete aderire e collaborare a mantenere il nostro mare pulito!

Il Mare Adriatico è uno. La sua cura appartiene a tutti.

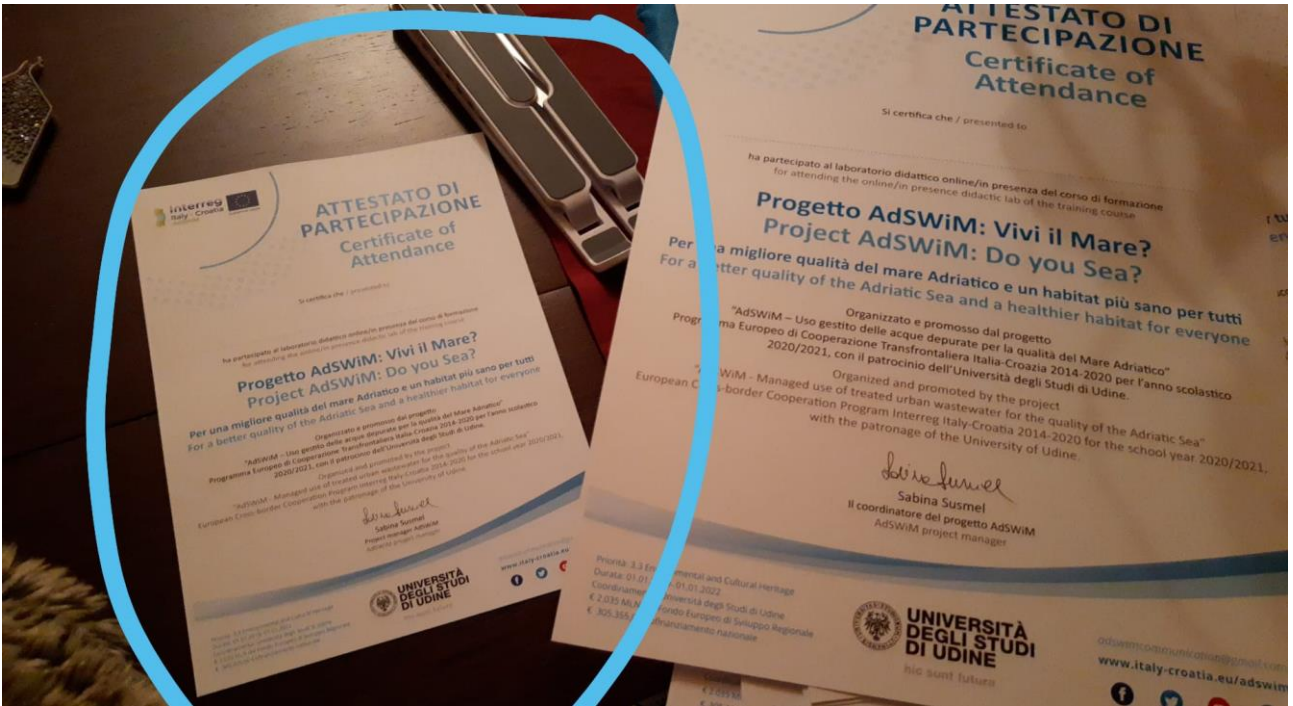


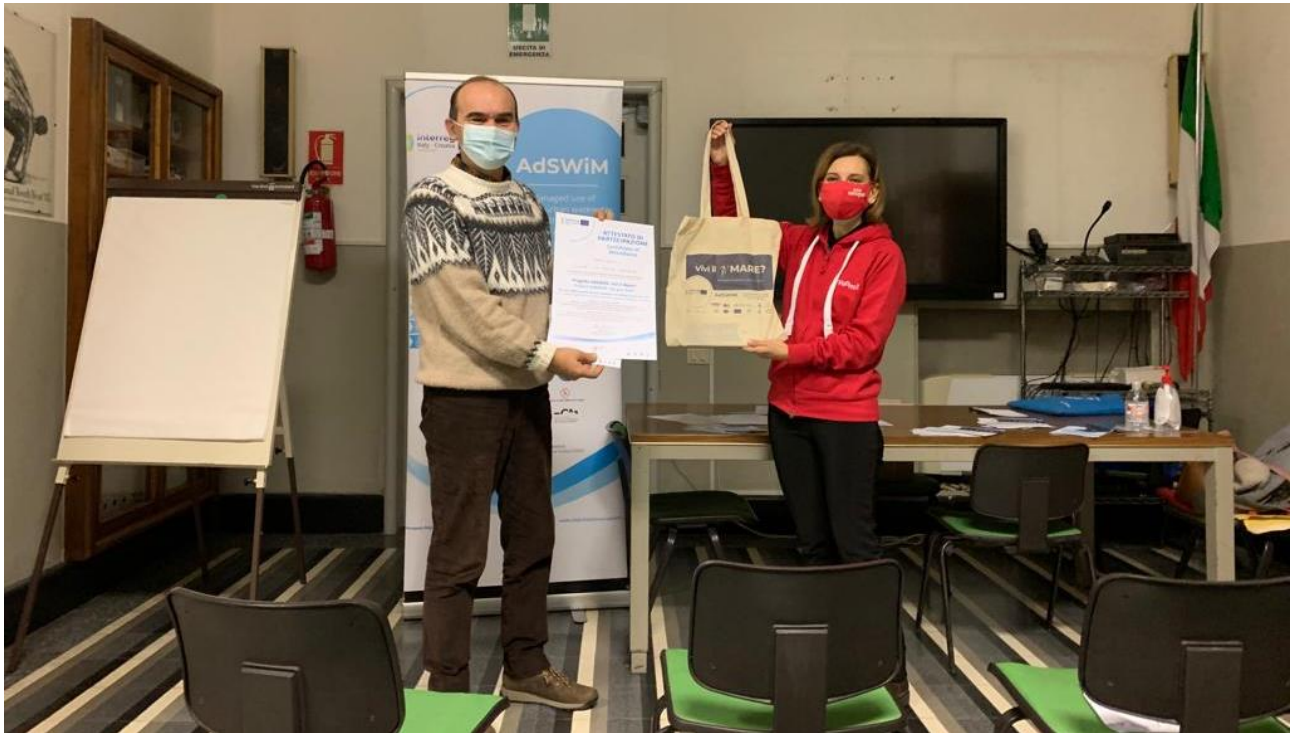
2021.03.22 Didactic module and labs for Classes lab_UNIVPM

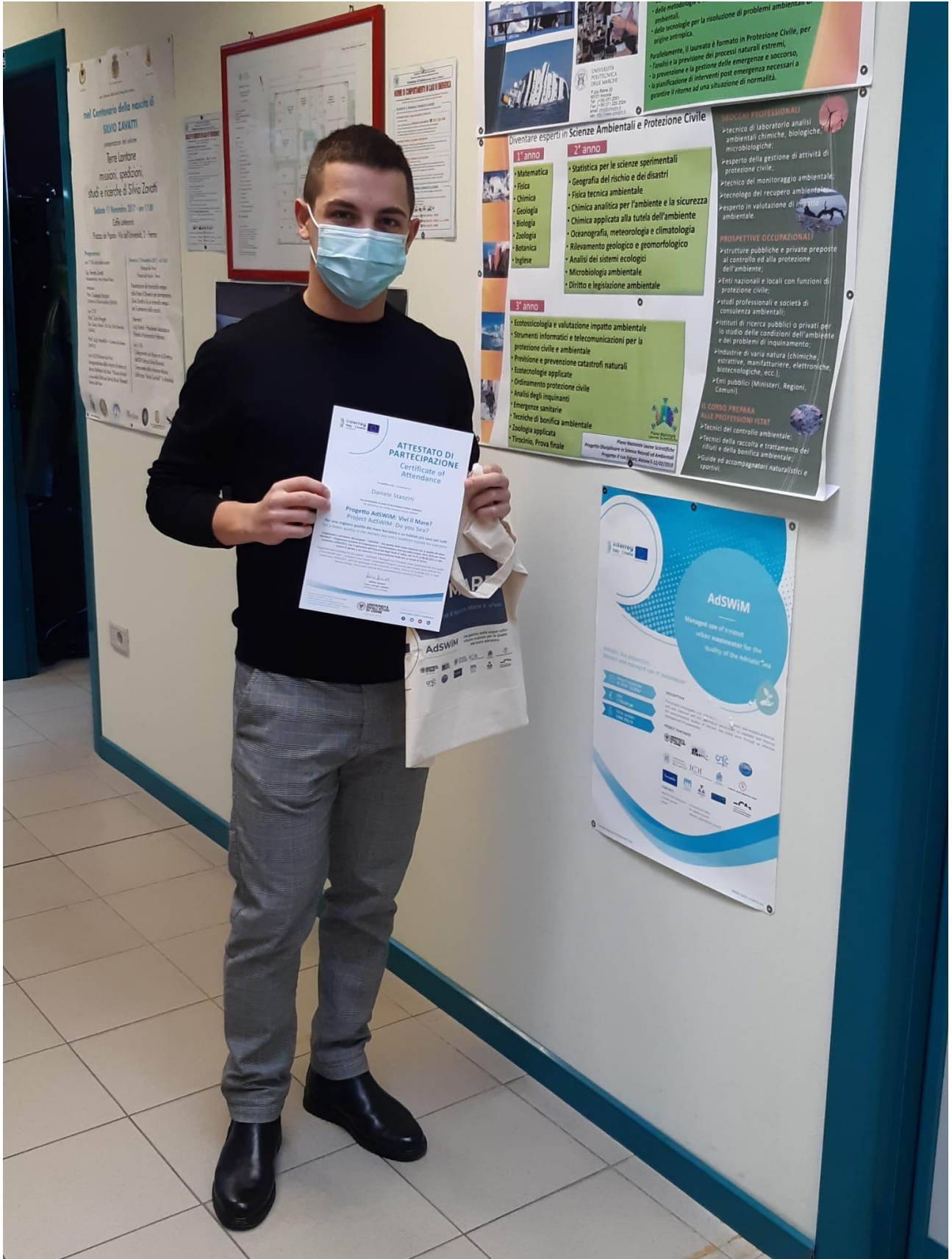
To this event online classes from Pordenone, UDINE, Porec, Pescara, Ancona, Fano participated.



2021.12. 14 Delivery of certificates, UNVIPM







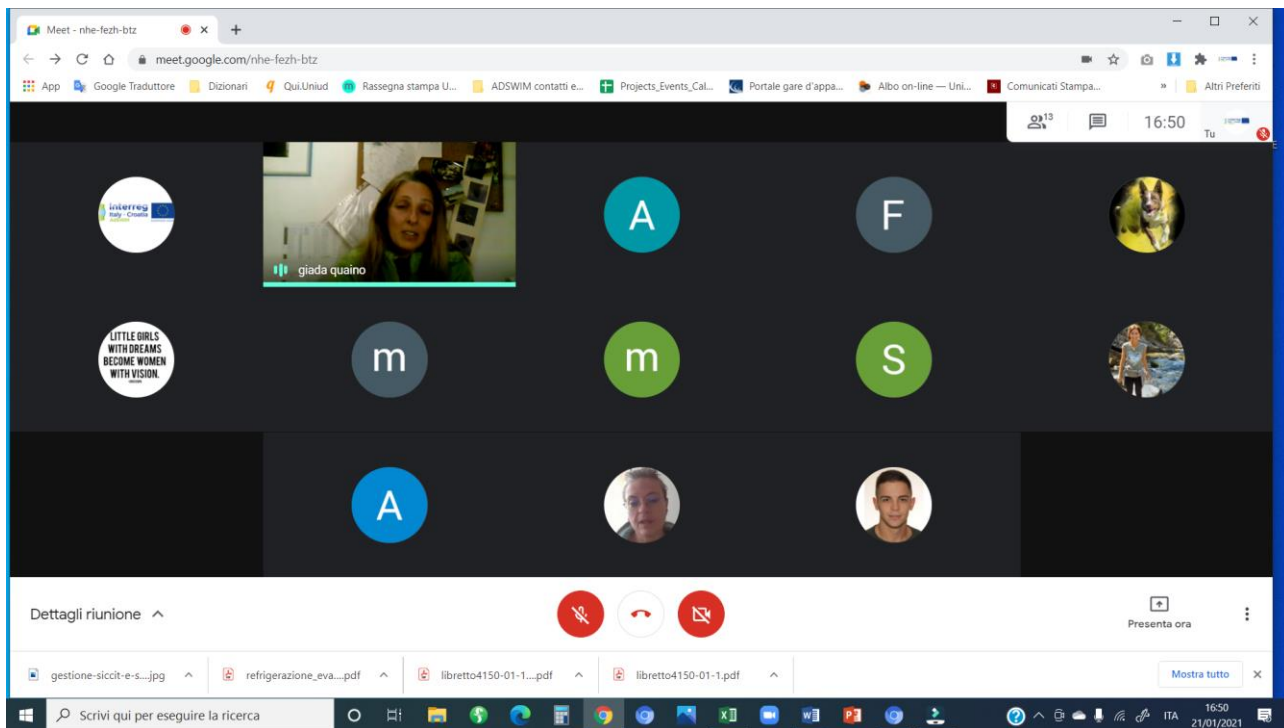
2021.04.26 till 05.26 School labs UDINE photos



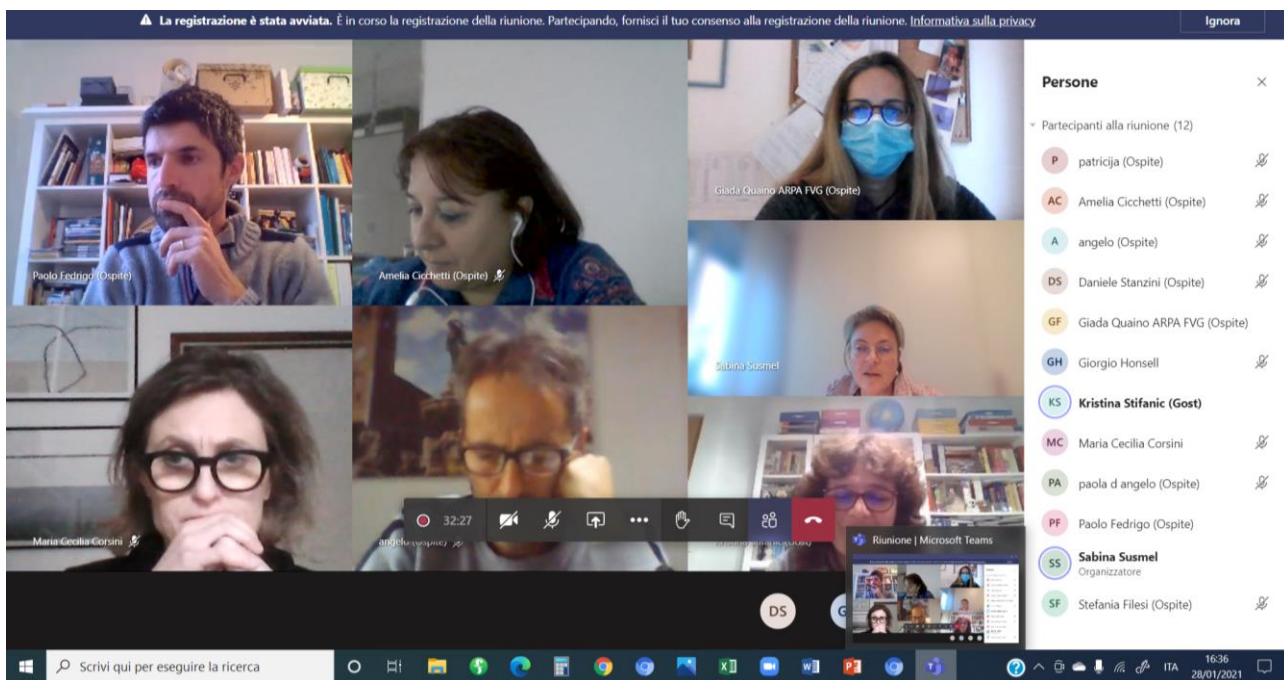


Didactic Module for Teachers, UNIUD, Municipality of UDINE and of PESCARA, UNIVPM, METRIS - 8 lessons on TEAMS platform

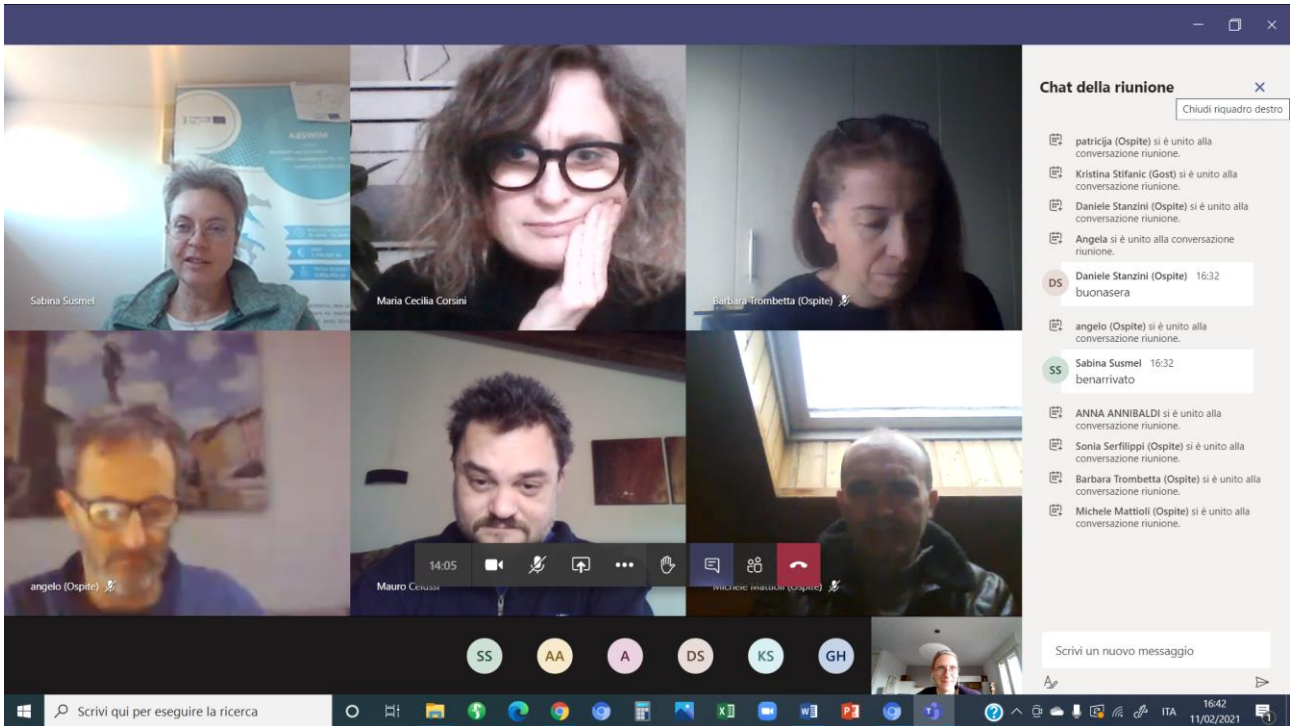
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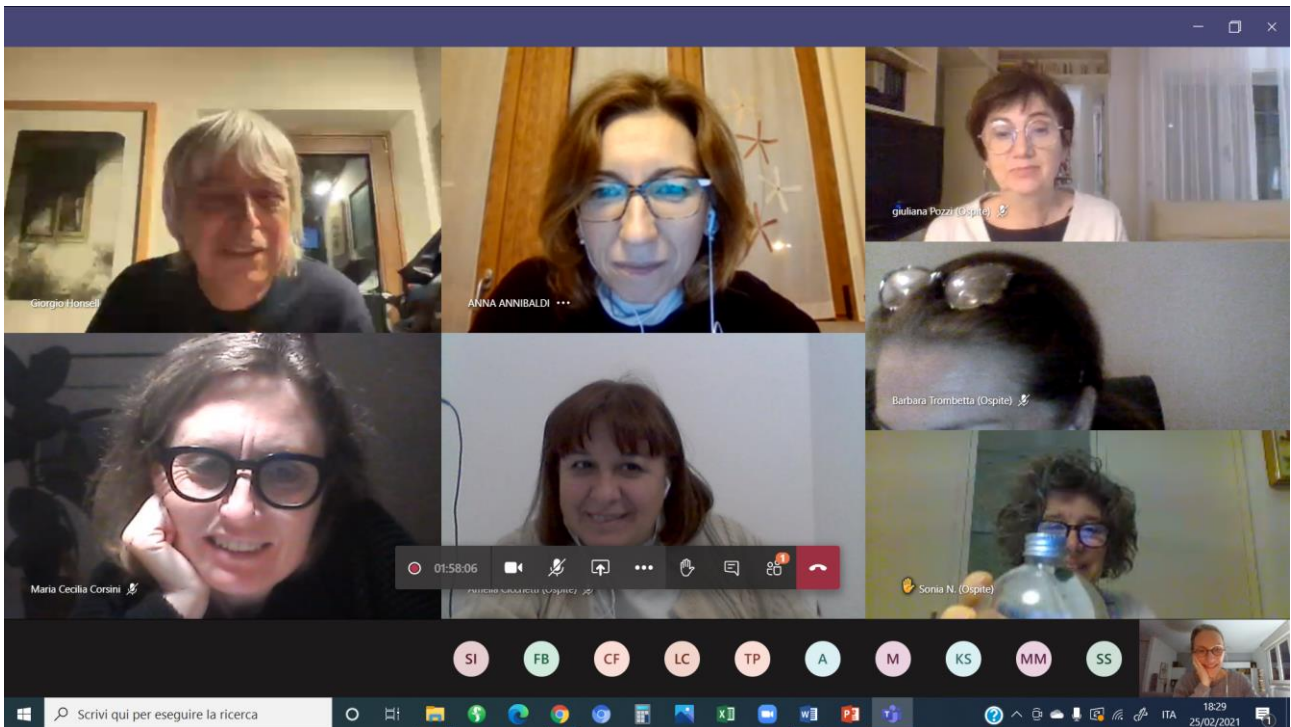
2 2021.01.28



3 2021.02.11



4 2021.02.25



5 2021.03.11



La biodiversità in Friuli Venezia Giulia

Il Friuli Venezia Giulia: una delle regioni italiane a maggiore biodiversità

- Fanerogame e felci**: 3.094 specie (46% delle specie italiane, di cui 28 endemiche)
- Briofite**: 675 specie (50% delle specie in Italia, 40% di quelle europee)
- Licheni**: 1.094 specie (cioè la metà delle specie italiane)
- Funghi**: 2.145 specie (di cui circa 200 macrofunghi)
- Fauna**: 19.648 specie (un terzo dell'intera fauna italiana terrestre e d'acqua dolce di cui 1000 endemiche)

con una superficie poco superiore al 2,5% del territorio nazionale

La diversità specifica

Richiedi controllo

Francesco Boscutti

24:38

36

SN A CF GP AA MC

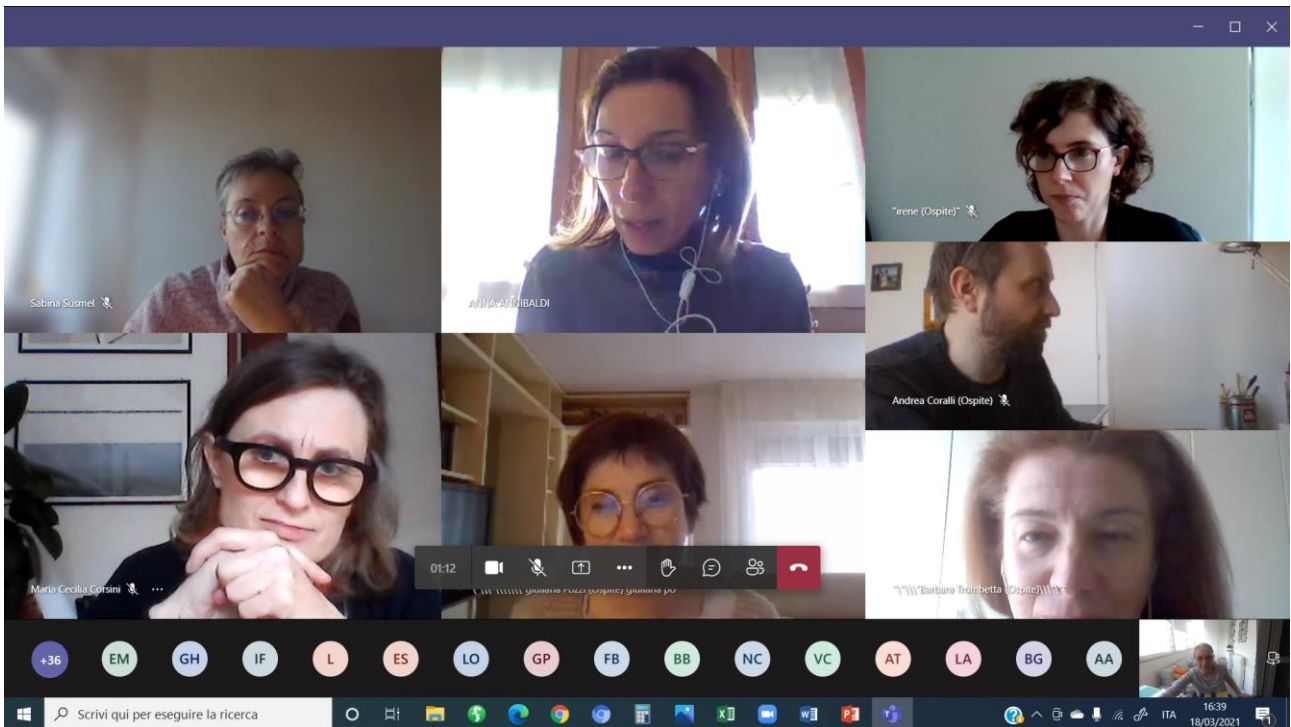
Cristina F. (ospite) Barbara Tomba (ospite) giuliana Pozzi (ospite) ANNA ANNIBALDI Maria Cecilia Corsini Sabina Susmel Francesco Boscutti

Scrivi qui per eseguire la ricerca

ITA 16:53 11/03/2021

0

6 2021.03.18



Sabina Susmel

ANNA ANNIBALDI

rene (ospite)

Andrea Coralli (ospite)

Maria Cecilia Corsini

Barbara Tomba (ospite)

01:12

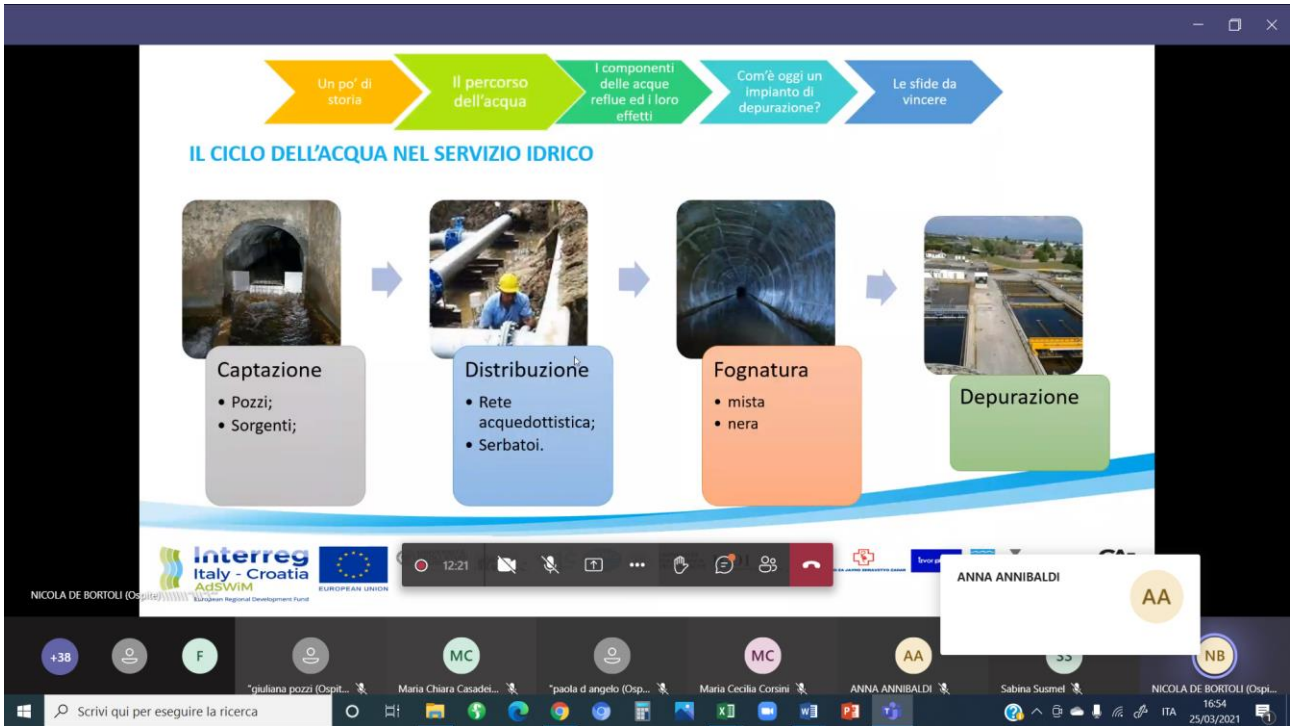
36

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Scrivi qui per eseguire la ricerca

ITA 16:39 18/03/2021



7 2021.03.25




IL CICLO DELL'ACQUA NEL SERVIZIO IDRICO

Un po' di storia → Il percorso dell'acqua → I componenti delle acque reflue ed i loro effetti → Com'è oggi un impianto di depurazione? → Le sfide da vincere

- Captazione**
 - Pozzi;
 - Sorgenti;
- Distribuzione**
 - Rete acquedottistica;
 - Serbatoi.
- Fognatura**
 - mista
 - nera
- Depurazione**



8 2021.04.15



Infografica
ALCUNI ESEMPI

TRA IL DIRE E IL FARE C'È DI MEZZO... UN MARE DI PLASTICA! +2%

DURANTE LA PANDEMIA IL CONSUMO DI BOTTIGLIE DI PLASTICA IN ITALIA È CRESCIUTO DEL+2% RISPETTO AL 2019.

In Europa l'Italia detiene il triste primato: **8 MILIARDI DI BOTTIGLIE ACQUISTATE IN 1 ANNO!**

I NOSTRI VICINI PREDILGONO L'ACQUA DEL RUBINETTO!

83%	70%	MENO VIRTUOSI OLTREOCIANO	MA PIÙ BRAVI DI NOI...
Olanda	UK	USA	Italia
		53%	37%

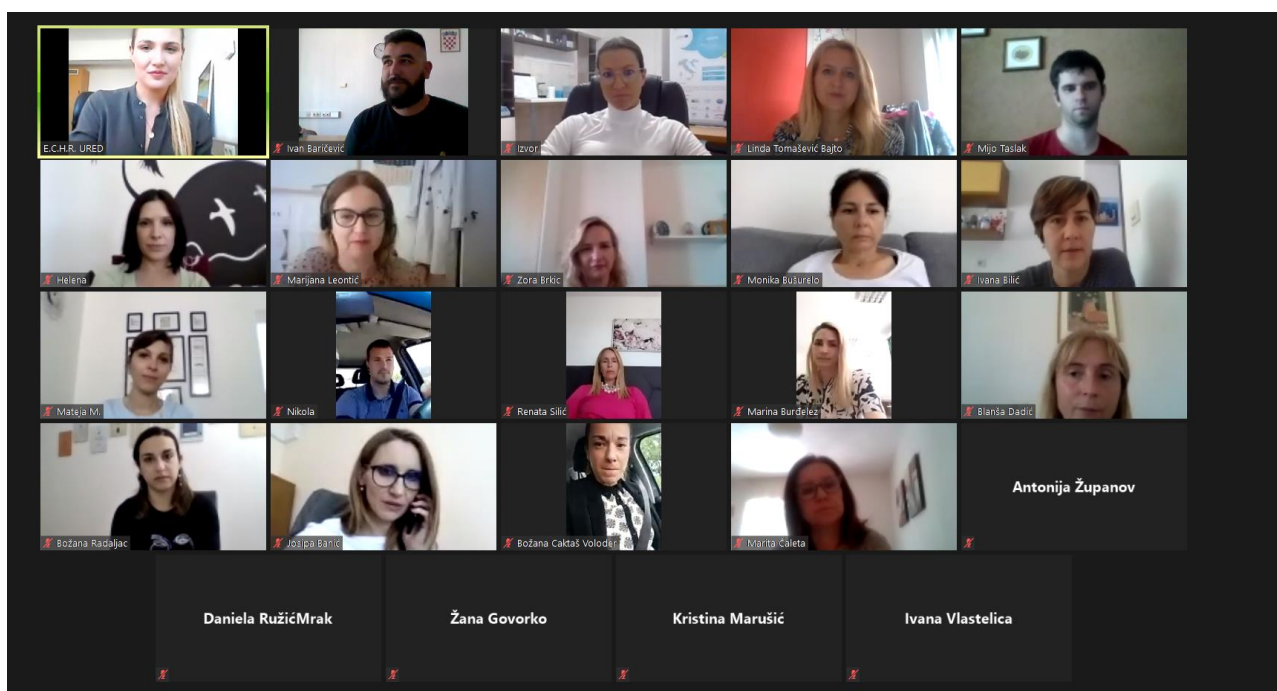




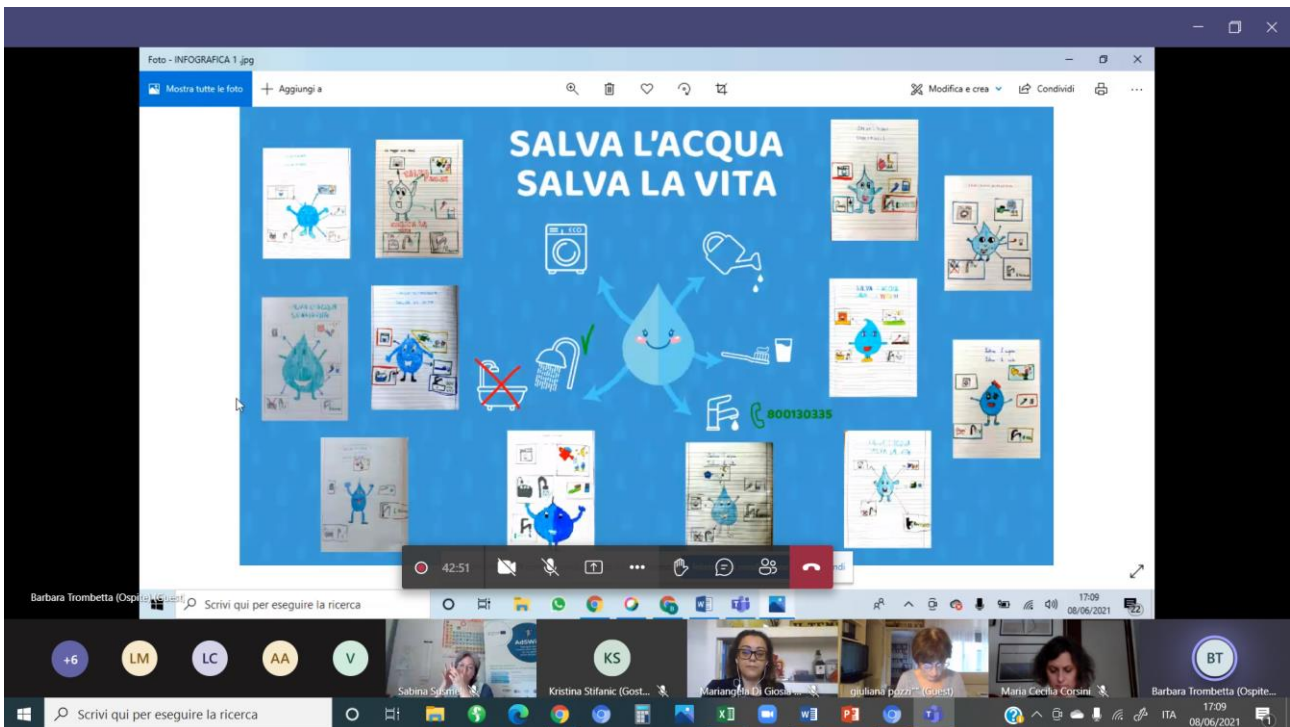
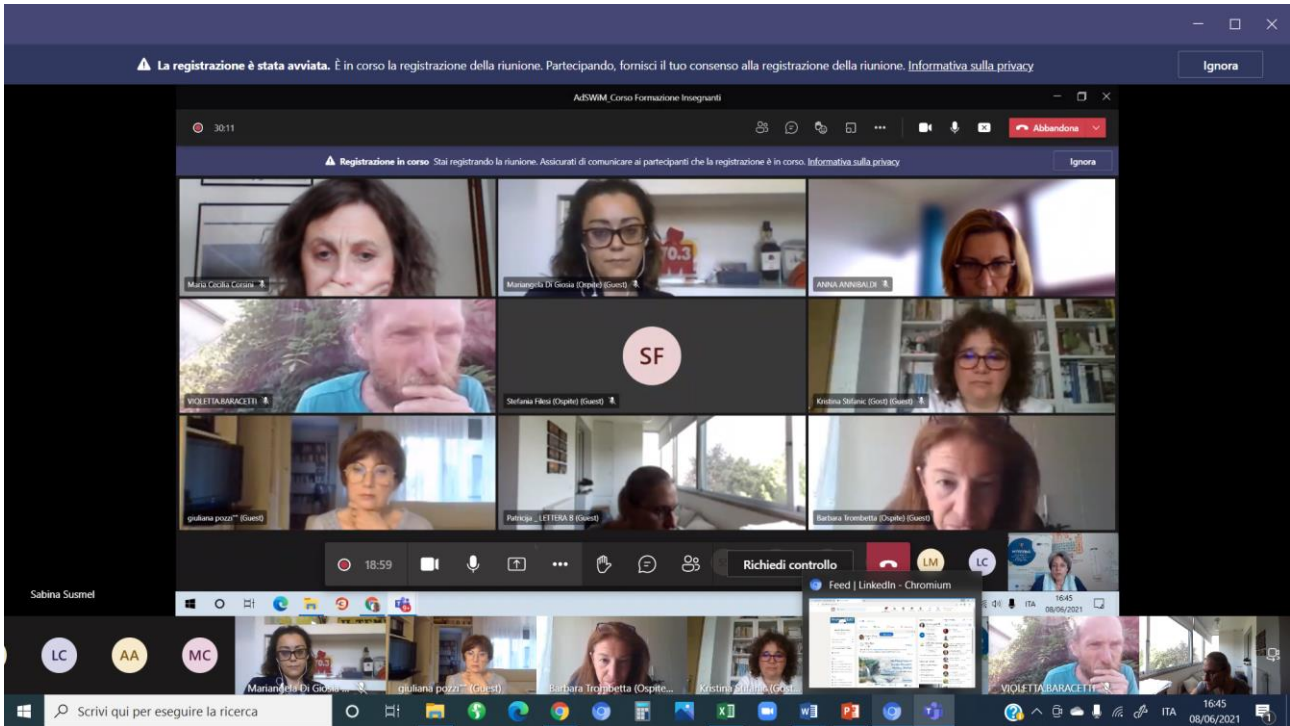


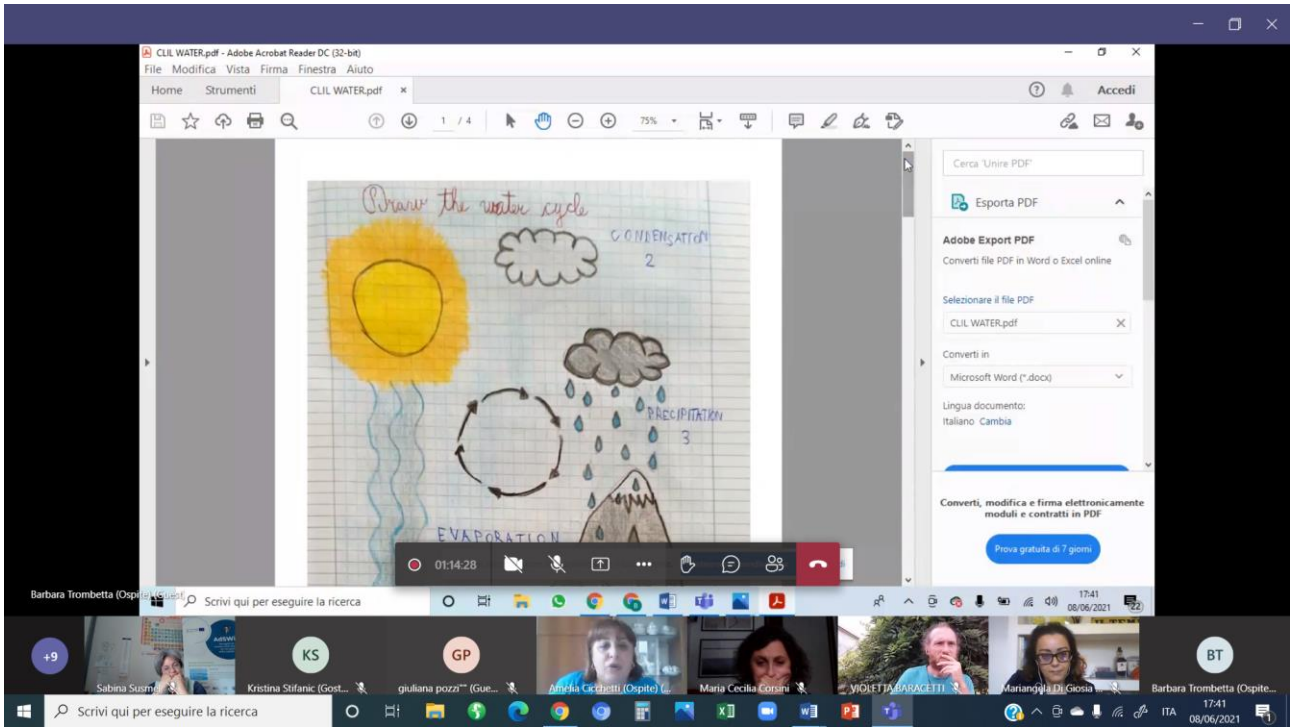

2021.05.25 Didactic Module for Teachers, IZVOR PLOCE AND VIK

Izvor Ploče Ltd. (PP8) in collaboration with Split Water and Sewerage company Ltd. (PP9) has organized an online lecture - webinar in order to present the developed Didactic module on the topic of promotion and preservation of valuable water resources. The webinar was held on Tuesday, May 25th, 2021 at 12:45 p.m. via virtual platform “Zoom” and gathered 21 teachers from Dubrovnik-Neretva and Split-Dalmatia County’s primary schools. The agenda of the webinar was as follows:



Final event 2021.06.08





Also four kids' corners were created in digital format and promoted through project social media and website.

Discover the AdSWiM Kids' corner

The Adswim Rainbow



Discover
the
AdSWiM
Kids'
corner

The
Adswim
Fish



Discover
the
AdSWiM
Kids'
corner

The
Adswim
Fish2



Discover the AdSWiM Kids' corner

The Adswim Aquarium



The project entered in the shortlist of the top 10 best European projects for the SLAM Interreg competition in the 2020 Youth section. The project also became a good practice and the only project of the Italy Croatia 2014-2020 Program presented at "Comunicare Interreg", an event organised by the Italian Agency for Territorial Cohesion and the Puglia Region, in line with "Europe closer to citizens" and for activities that protect and improve the urban environment and educate and inform citizens, in order to achieve local and global sustainability.

The materials and the didactic module can be downloaded from the project website.