MIRACLE

coMics and IllustRations Augmented to tackle CLimate change in primary Education

Co-funded by
the European Union

léargas

Project Title: "coMics and IllustRations Augmented to tackle Climate change in primary Education"

Acronym: MIRACLE

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Work package n°4 - MIRACLE Augmented Classroom
Result 2:   Teacher Training Activity C2
Leading Organisation: Osnovna skola Titusa Brezovackog (E10001200-HR)
Participating Organisations: CLEVERBOOKS LIMITED (E10057814-IE)
PARAGON-eduTech
JAITEK TECNOLOGÍA Y FORMACIÓN SL
(E10114638-ES)
Maria Regina College SPB Primary (E10198033-MT)
UNIVERSITA TA MALTA (E10209037-MT)
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Teacher Training Activity (TTA2)

Leading Organization   Osnovna škola Tituša Brezovačkog

Date   23-25 April 2025

Venue   Špansko 1, Zagreb, Croatia

Contact Person

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Information for Participants

Nearest airport: Franjo Tuđman airport

Taxi: Cjenik usluga - Zagreb Taxi

    Ride with Uber | Request Rides 24/7 | Official Uber Site

    EKOTAXI

Public transport map: Transportation in Zagreb

Aim and Objectives

The aim of the Teacher Training Activity (C2) within MIRACLE's Work Package 4 is to empower educators with the necessary knowledge and skills to demonstrate the transdisciplinary nature of STEAM, develop the creative learning environment for self-directed, blended learning , engage pupils in meaningful AR empowered activities that develop their sense of curiosity, their problem-solving skills, their teamwork, and ability to adopt multiple approaches to achieve non-prescribed solutions to develop their digital and sustainability competencies and most importantly to become agents of change. During this training on the use of the MOOC (WP3) and the MAC (WP4), participants are expected to internally validate the MOOC and MAC before the pilots and identify possible errors or difficulties. This training endeavors to create a transformative learning environment, fostering a cohesive "green" culture within schools. By focusing on upskilling teachers in digital literacy, sustainability education, and the facilitation of whole-class co-creation, the objective is to not only enhance classroom practices but also address eco-anxiety and eco-pessimism among students. Ultimately, the training seeks to establish a collective commitment to environmental sustainability, providing educators with the tools to act as agents of change within their school communities.

Objectives:

Demonstrate transdisciplinary nature of STEAM:

Demonstrate the transdisciplinary nature of STEAM, and provide support for each of the sets of standards and practices that can be covered through transdisciplinary STEAM education in a fun and age-appropriate way.

Develop the creative learning environment:

Develop the creative learning environment for self-directed, blended learning that facilitates the incorporation of STEAM education methodologies where STEAM education is embedded and forms part of the children's everyday experiences.

Meaningful AR empowered activities:

Engage pupils in meaningful AR empowered activities that develop their sense of curiosity, their problem-solving skills, their teamwork, and ability to adopt multiple approaches to achieve non-prescribed solutions to develop their digital and sustainability competencies and most importantly to become agents of change.

Teaching supports for pupils:

Include teaching supports, that are necessary for pupils, to examine and develop their own ideas and compare them to the ideas presented by peers, the OER, and the teachers

Informed citizenry:

Provide the requisite knowledge to engage the whole-school in the CC issues as informed citizenry

Co-creation environment:

Offer students peer learning opportunities to develop their green, STEAM, and digital skills in the co-creation environment.

Whole-School Collaboration:

Ease collaboration at the whole-school level by sharing outputs with parents and the community, visually communicating the project's vision.

Differentiated Planners:

Support differentiated planners between partners, recognizing unique needs while ensuring alignment and unity in the overall project direction.

TTA2 Agenda

Day 1: Wednesday 23, 2025

Time	Agenda Item/Presenter Responsible Partner	
10:00 – 11:45 10: 00 – 10:30	**Introduction** Welcome and Opening Remarks, Mirjana Torer, principal, OSTB	
10:30 - 11:00 11:00 – 11:45	Developing green skills - OSTB good practice , Maja Franković & Sanda Mijalić, OSTB School Strip (Comic) Art, Snježana Krezo, OSTB	
11:45 – 12:00	*Coffee Break*	*OSTB*
12:00 – 13:00 12:00 – 12:30 12:30 - 13:00	**Session 1: Collaborative MOOC Exploration and Evaluation Workshop** M5 EDUCATIONAL SCENARIOS OSTB Module, Iva Hladnik MRC Module, Alessia Deguara, Maria Dolores Borg, Chantelle Cilia	

Description:

In Session 1 of Day 1, a representative from each partner will present their MOOC module developed within the R4 of WP3.

Time	Agenda Item/Presenter Responsible Partner	
13:00 – 14:00	*Lunch Break*	*OSTB*
14:00 – 14:30	AETA Module, Paulo Ramalhoto	
14:30 – 15:00	Module 1: The basic science behind climate change, Despina Sarrigeorgiou, PARAGON-eduTech, Greece	
15:00 – 15:30	Module 2: Digital comics co-creation, Gorg Mallia, UOM, Malta	
15: 30 – 16:00	*Coffie Break*	
16:00 – 16:30	M3 Digital augmentation of comics, Nancy Pyrini, CleverBooks, Ireland	
16:30 – 17:00	M4 Fake news and disinformation, Nuria de Pablo Sanchez, Jaitek, Spain	

Day 2: Thursday 25, 2024

Time	Agenda Item/Presenter Responsible Partner
10:00 – 10:30	Arrivals and Workshop Preparation Maja Sokač, Osnovna škola Tituša Brezovačkog (OSTB)
10:30 – 11:45	**Session 2: Module Assessment and Collaboration Workshop** Participants engage in small groups to explore and evaluate MOOC modules. Review of the Module 5 developed by OSTB Group 1: UoM, JAITEK and AETA Review of the Module 5 developed by MRC Group 2: CLB, OST Review of the Module 5 developed by AETA Group 3: PARAGON-eduTech and MRC

Description:

The aim of the session 2 is to foster a dynamic and interactive environment where participants, divided into groups, will collaboratively examine and evaluate five modules of the MOOC. Each group will select a facilitator who will lead the group through a structured exploration, encouraging group discussion, critical analysis and creative ideas. The goal is to engage participants in a process of collaborative evaluation that will not only enhance understanding of the modules but also contribute valuable feedback for improvement. Through this session, participants will actively contribute to the formulation of the pilot implementation of the modules that follows (WP3.A5 Pilots and Validation).

Time	Agenda Item/Presenter Responsible Partner	
11:45 – 12:00	*Coffee Break*	*OSTB*
12:00 – 13:00	**Session 3: Synthesis Session - Consolidating MOOC Review Insights** Plenary discussion on key insights from scenario evaluations. A representative of each group presents the findings of the review to the plenary Module 5, OSTB Module 5, MRC Module 5, AETA Forward-Looking Dialogues - Envisioning Future Impacts	

Description:

In this third session, continuing sessions of the first day, participants will meet for a comprehensive plenary discussion, marking the culmination of the collaborative exploration and evaluation of modules. The session is designed to consolidate the key insights gathered from the three training modules examined. Representatives from each group will take to the stage to present their findings to the plenary session, offering a wide range of perspectives and analysis. The primary objective is to promote a collective understanding of the strengths, challenges and innovative elements identified in the examination of the modules. Through this synthesis session, participants will contribute to a holistic understanding of the modules, paving the way for the robustness of the piloting and validation that follows.

Forward-Looking Dialogues - Envisioning Future Impacts

The closing segment of Session 3 will be dedicated to forward-looking dialogues, providing participants with the opportunity to collectively envision the future impacts and potential advancements resulting from the insights gained during the scenario reviews. Participants will engage in a reflective discussion, exploring the broader implications and applications of the reviewed scenarios within the context of the MIRACLE project's overarching goals. This forward-thinking dialogue aims to inspire collaboration, innovation, and a shared vision for the future of climate change education in diverse educational settings.

13:00 – 14:00	Lunch Break	OSTB
14:00 – 15:30	**Session 4: Interactive Learning with the MIRACLE App: Creating Engaging Quizzes for Comics** Facilitator: Nancy Pyrini, CleverBooks This workshop will provide participants with a comprehensive guide to using the MIRACLE App to create interactive and engaging quizzes for educational comics.	

Description:

In this dynamic session led by Nancy Pyirini from CleverBooks, participants will experience how to integrate quizzes into comics, transform them into dynamic learning tools that enhance user engagement and knowledge retention. It is developed within the R4 of WP3. Participants will familiarize with the MIRACLE App and its quiz-creation features. They will demonstrate how to design quizzes integrated with comics for an interactive learning experience and explore best practices for creating effective educational content using the MIRACLE App. The workshop will enable participants to design their own quizzes and apply them to their comics for future use in educational contexts. Methods used in this workshop will be: Interactive Demonstration: A hands-on walkthrough of the MIRACLE App's features, focusing on creating quizzes and linking them with comic content.; Collaborative Learning: Participants will work together to design and test sample quizzes.; Q&A Session: Open floor for questions, encouraging collaboration and idea sharing; Practical Application: Participants will have the opportunity to begin building their own quizzes with guidance.

15:30 – 16:00	Coffee Break	OSTB
16:00 – 17:00	**Session 5: eTwinning workshop** Facilitator: Maja Sokač, OSTB This workshop will encourage all partners to familiarize themselves with eTwinning's features to enhance project visibility and to better understand its functionality.	

Description:

In this Session led by Maja Sokač and OSTB as responsible partner for eTwinning page, participants will learn about the structure of eTwinning and the possibilities it offers. They will get instructions on how to approach an eTwinning project from the point of view of the curriculum and learn from other teachers involved. The eTwinning is now a major force in European education because more and more teachers are starting on the road of European project work within eTwinning. Participants will familiarize themselves with eTwinning's features by practising its features on Miracle TwinSpace. Participants will create TTA C2 Diary.

20:00	**Harmony Dinner - Cultivating Connections and Collaboration** Restoran Vinodol, Zagreb https://maps.app.goo.gl/viL2NMz2JggqvzeO9

Day 3: Friday 25, 2025

Trip to Plitvice lakes

The Plitvice lakes trip will enhance participants' understanding of sustainable practices, broaden their cultural awareness, and create a memorable and impactful learning experience.

Objectives:

- *Cultural Exposure and Inspiration:* Exploring Plitvice lakes and Lika region offers participants exposure to a different cultural setting within Croatia. The rich history and unique traditions of Lika region can inspire educators, providing them with fresh perspectives for integrating diverse cultural elements into their teaching practices.

- *Biodiversity and Sustainability Focus:* Plitvice lakes natural landscapes and commitment to sustainability initiatives present an opportunity for participants to witness first-hand the importance of environmental conservation. National park Plitvice lakes were internationally recognised with their inscription onto the UNESCO World Heritage List in n 1979. The process of tufa formation, which results in the building of the tufa, or travertine, barriers and resulted in the creation of the lakes, is the outstanding universal value. Learning about Plitvice lake's biodiversity and sustainability practices aligns with the MIRACLE project's focus on climate change education and environmental awareness.

- *Interactive Learning Opportunities:* Visiting educational sites of Plitvice lakes The Plitvice Lakes with seven different routes to tour the lake system, allows participants to engage in hands-on learning experiences. Interactive activities related to climate change, biodiversity, or sustainable practices can be incorporated, enhancing the training's effectiveness.

- *Networking and Collaboration:* The trip provides an informal setting for participants to interact and collaborate outside of the training environment. Shared experiences during the Plitvice lake National park visit can strengthen the sense of community among participants, fostering lasting connections and potential future collaborations.

- *Integration with Training Themes:* Tailoring the Plitvice lakes trip to align with specific themes of the MIRACLE project, such as sustainable practices, environmental education, or cultural diversity, ensures that the visit directly complements the overall training objectives.

- *Reflective Sessions:* Designated reflective sessions during Plitvice lakes visit allow participants to discuss insights gained and brainstorm ideas for integrating these experiences into their teaching practices.

	The programme is designed to balance cultural exploration, historical knowledge, exposure to sustainability and interactive learning. Timing and locations can be adjusted by agreement between participants.
07:30	*Departure to to Plitvice lakes by bus from bus station at Trg Ivana Mažuranića square* *Brief Introduction and Overview of the Day's Itinerary*
10:00 – 14:00	*National park Plitvice lakes, a UNESCO World Heritage Site , 4 hour guided Tour*
14:00 – 15:00	*Lunch at Lička kuća restaurant*
15:30	**Pick up**
16:00	*Short stop to Rastoke village, a watermill pearl of the Slunj area*
16:30	*Pick up and 1.5 hour drive to Zagreb* *TTA2 Evaluation*