



coMics and IllustRations Augmented to tackle CLimate change in primary Education



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the European Union**





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Acronym: MIRACLE

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Work package n°2 - MIRACLE Sustainability Mindset in European Schools

Result 4: Transnational Project Meeting 2 Minutes

Leading Organisation: PARAGON-eduTech

Participating Organisations: CLEVERBOOKS LIMITED (CLB, E10057814-IE)

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2nd Transnational Project Meeting Minutes

Leading Organization PARAGON-eduTech

Date 8 July, 2024

Venue MINOA PALACE RESORT
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Figure 1

Painting inspired and created spontaneously by Professor Gorg Mallia.



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Attendance

Evangelina (Litsa) Varonis, PARAGON: Education Technology Communications, Greece

Orestes Varonis, PARAGON: Education Technology Communications, Greece

George Sarrigeorgiou, PARAGON: Education Technology Communications, Greece

Despina Sarrigeorgiou, PARAGON: Education Technology Communications, Greece

Darya Yegorina, CLEVERBOOKS LIMITED, Ireland

Anastasia (Nancy) Pyrini, CLEVERBOOKS LIMITED, Ireland

Nuria De Pablo Sánchez, JAITEK TECNOLOGÍA Y FORMACIÓN SL, Spain

Ġorġ Mallia, University of Malta, Malta

Adrian Azzopardi, Maria Regina College SPB Primary, Malta

Mark Azzopardi, Maria Regina College SPB Primary, Malta

Maja Sokač, Osnovna Škola Tituš Brezovački, Croatia

Sanja Mataga, Osnovna Škola Tituš Brezovački, Croatia

Alberto Costa, Agrupamento de Escolas Terras do Ave, Portugal

Maria do Céu Brandão, Agrupamento de Escolas Terras do Ave, Portugal

Almerindo Oliveira, Agrupamento de Escolas Terras do Ave, Portugal

Paulo Ramalhoto, Agrupamento de Escolas Terras do Ave, Portugal

Virgínia Teniz, Agrupamento de Escolas Terras do Ave, Portugal



Agenda Items and Key Points

Welcome and Opening Remarks

Presenter: George Sarrigeorgiou, TPM Leading Organisation

The meeting commenced with a warm welcome from the host, followed by brief introductions from all participants.

Presenter: Darya Yegorina, Project Coordinator, CLB

Opening the meeting, highlighting the importance of the MIRACLE project and the objectives of the TPM2.

Work Package 2 - MIRACLE Sustainability Mindset in European Schools

Presenters: Litsa Varonis and Orestes Varonis

Empowering Sustainable Education: Reflections from the MIRACLE Pilot Initiatives

The validation process presented pertains to the results of Work Package 2 (WP2) - Sustainability Mindset in EU Schools, part of the MIRACLE (coMics and IllustRations Augmented to tackle Climate change in primary Education) project. This project aims to integrate climate change education into primary schools through innovative teaching methods, including augmented reality (AR) and comic creation. The project's first pilot implementation focused on enhancing teacher and pupil digital skills, promoting a green teaching culture, and addressing eco-anxiety.

Key Findings:

Participants: The pilot testing involved at least forty students and three teachers from partner schools in Greece, Spain, Malta, Croatia, and Portugal.

Whole-School Approach: Emphasized active involvement from parents and the broader community, fostering a stronger connection between schools and their communities.

Impact on Knowledge, Attitudes, and Behavior:

- Knowledge: Students' understanding of climate change increased significantly after the lessons, with the greatest improvement in understanding the enhanced greenhouse effect and creating comics about climate change.
- Attitudes: Positive shifts were noted in students' attitudes towards their ability to impact climate change and the effectiveness of using comics and AR as learning tools.
- Behavior: Students reported increased engagement in activities to combat climate change, such as reducing their carbon footprint and advocating for climate-friendly practices among peers.

Recommendations:



Teacher Training: Teachers need ongoing professional development and resources to confidently teach climate change and incorporate interdisciplinary approaches and active pedagogies.

Sustainability Education: Schools should integrate sustainability into all processes and operations, adopting a Whole-School Approach.

Community Involvement: Encourage the involvement of the entire school community, including parents and local organizations, to support climate action and sustainability initiatives.

The results from this pilot provide valuable insights into the effectiveness of the MIRACLE project's methodologies and underscore the importance of innovative, community-based approaches to climate change education in primary schools.

Figure 2

Litsa Varonis explains the analysis of the data. The photo was taken by Nancy Pyrini during the meeting for the project archive.

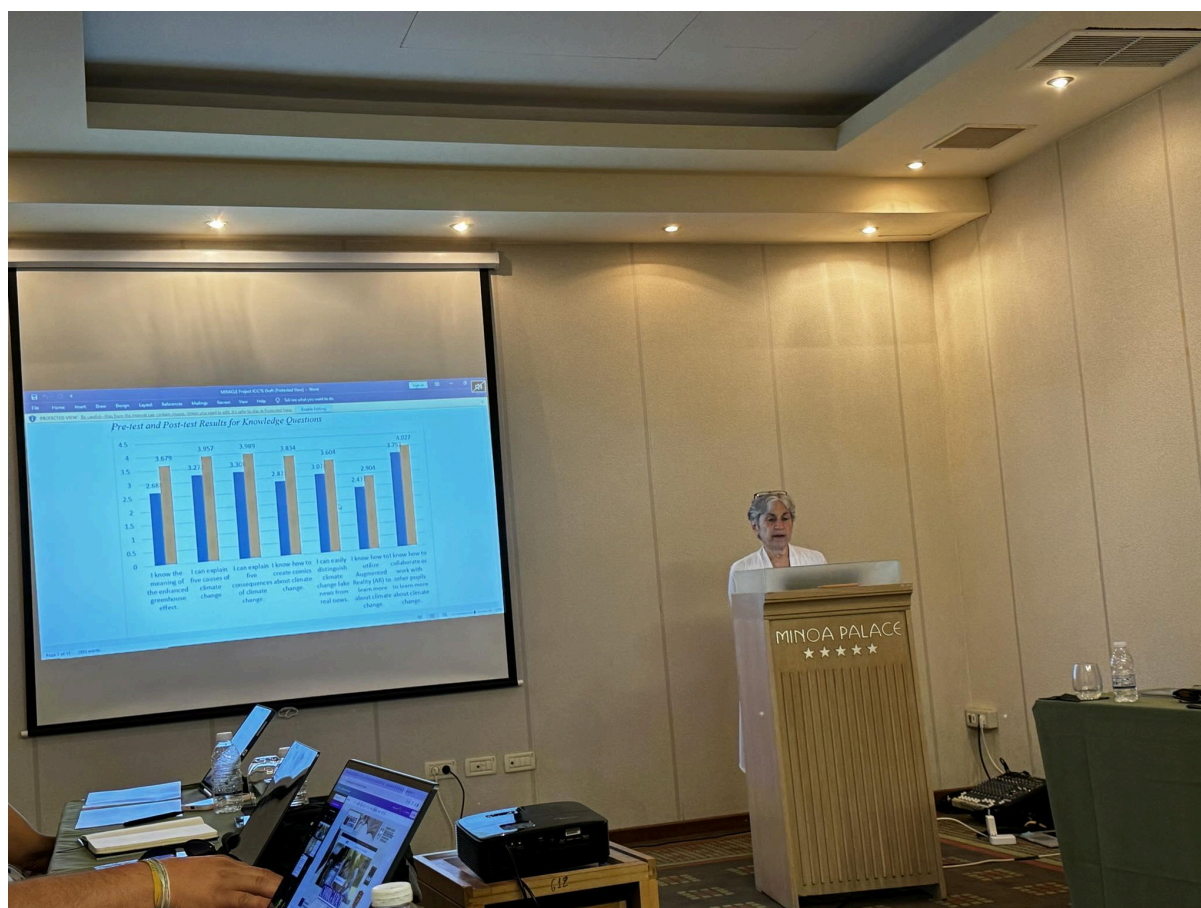
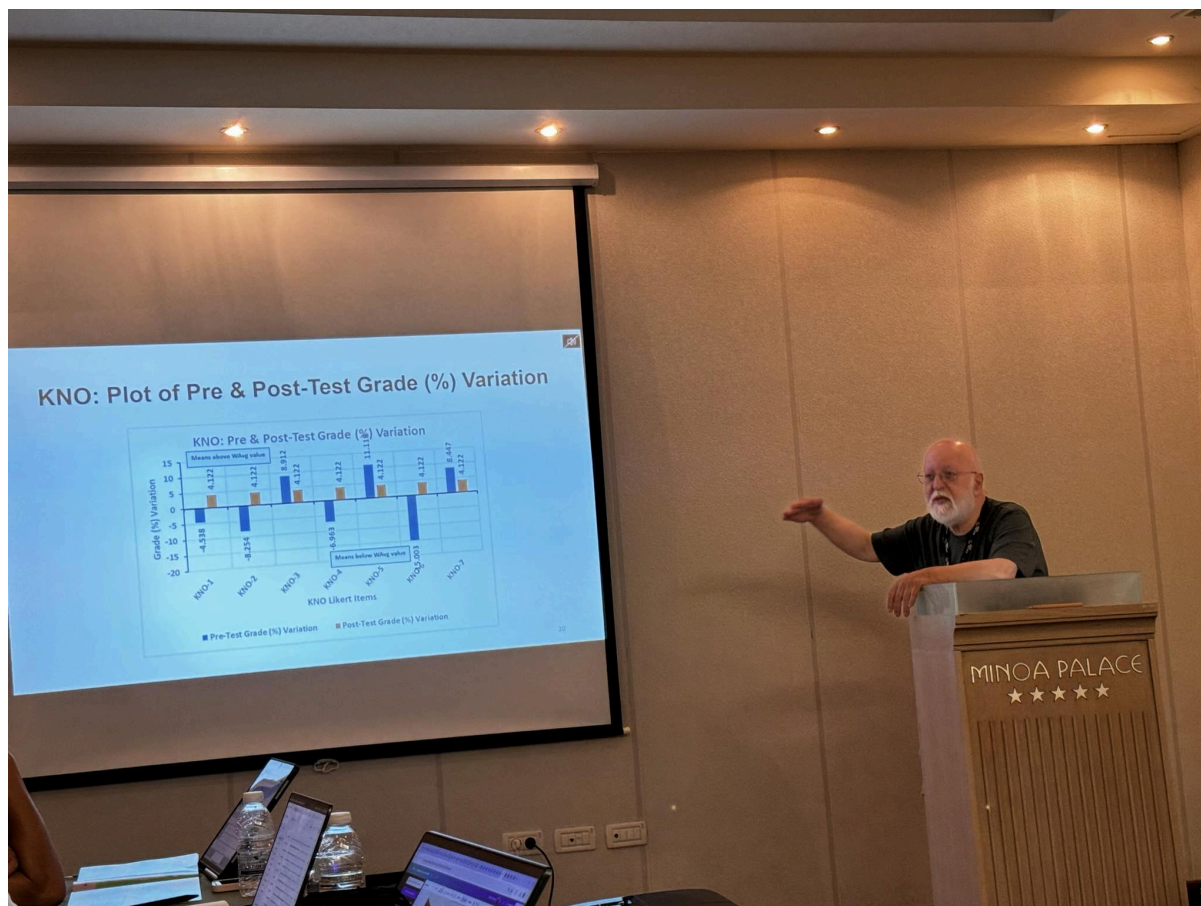


Figure 3

Dr Orestes Varonis explains the analysis of the data. The photo was taken by Nancy Pyrini during the meeting for the project archive.



Strategies for Continuous Improvement within the MIRACLE Project

Following the presentation of the findings from the validation process of WP2 Varonis led a discussion on strategies for continuous improvement within the MIRACLE project. Varonis highlighted the importance of ongoing assessment and refinement of the project's methodologies to ensure maximum impact on both teachers and students.

Key points discussed included:

Translation of Open-Ended Questions: Varonis emphasized the need for translating the open-ended questions used in the surveys into the native languages of all participating countries. This step is crucial for capturing nuanced feedback from students and teachers, which can often be lost in translation. By doing so, the project can ensure that responses accurately reflect the participants' thoughts and experiences, leading to more reliable data for analysis.

Inclusion of Citations in the Final Report: To enhance the credibility and scholarly rigor of the final report, Varonis underscored the necessity of including citations from relevant literature and previous studies. This will not only provide a solid theoretical foundation for the project's findings but also demonstrate how the MIRACLE project builds upon and contributes to existing knowledge in climate change education and the use of digital technologies in primary education.



Continuous Professional Development for Teachers: Strategies were discussed for providing ongoing professional development opportunities for teachers. This includes workshops, webinars, and access to online resources that focus on integrating climate change education into the curriculum, using augmented reality (AR) and comics, and employing interdisciplinary and active pedagogical approaches.

Enhanced Community Engagement: Varonis pointed out the importance of strengthening the Whole-School Approach by actively involving parents, local organizations, and the broader community in sustainability initiatives. This can be achieved through community events, information sessions, and collaborative projects that extend learning beyond the classroom and foster a collective effort towards environmental sustainability.

Monitoring and Evaluation: The discussion also covered the need for robust monitoring and evaluation mechanisms to track the progress and effectiveness of the project's interventions. This includes regular feedback loops with participating schools, ongoing data collection, and iterative analysis to identify areas for improvement and celebrate successes.

Actions and Deadlines

1. Ensure all open-ended survey questions are translated into the native languages of participating countries and submit the National Reports detailing the findings.
2. Varonis and Pyrini will cooperate to compile and include relevant citations from existing literature and studies in the final validation report.

Deadline: July 31, 2024.

3. All partners: Organize and facilitate workshops and webinars focused on climate change education, augmented reality, and interdisciplinary pedagogical approaches.
4. Plan and execute community events and collaborative projects that involve parents and local organizations in sustainability initiatives.
5. Implement robust monitoring and evaluation mechanisms, including regular feedback loops with participating schools and ongoing data collection.

Deadline: Ongoing activities.

Individualized Planning, Whole-School Approach, Project Vision Visualization for Parents

Presenter: Professor Ġorġ Mallia

Discussed tailored strategies to meet unique partner needs while ensuring unity in project direction.

Addressed the implementation of a whole-school approach to develop a cohesive teaching and learning "green" culture.



Figure 4

Professor Mallia while addressing the implementation of a Whole-School Approach. The photo was taken by Shirley Cauchi, volunteer project assistant representing the community, during the meeting for the project archive.



Coffee Break

Work Package 3 - MIRACLE MOOC

Presenters: Professor Mariano Sanz Prieto and Nuria De Pablo Sánchez

Nuria from JAITEK provided an in-depth update on the progress of Work Package 3 (WP3) - eLearning Platform.

Key Points:

Needs Analysis: Partners are requested to participate in the [Needs Analysis Survey](#) to better understand and address the requirements for the eLearning platform. The survey can be accessed at SurveyMonkey.

Collection of Open Educational Resources (OERs): JAITEK in cooperation with OST has initiated the collection of OERs. Partners should contribute by adding resources to the shared document accessible [HERE](#).



MIRACLE MOOC: The [MIRACLE Massive Open Online Course \(MOOC\)](#) has been developed and is available online. The partners have to develop the Modules according to the Project Work Plan under the guidance and support of JAITEK.

Nuria's presentation highlighted significant progress in WP3, emphasizing the need for active participation from all partners in the needs analysis and the collection of OERs. The availability of the MIRACLE MOOC marks a key milestone in the project, providing a comprehensive resource for climate change education in primary schools.

Figure 5

Nuria De Pablo Sánchez presents the progress of WP3. The photo was taken by Nancy Pyrini during the meeting for the project archive.



Actions and Deadlines

Needs Analysis Survey:

Action: Participate in the Needs Analysis Survey to better understand and address the requirements for the eLearning platform.

Deadline: Complete the survey by 31st July 2024.

Link: [SurveyMonkey Needs Analysis](#).



Action: JAITEK will develop the Need Analysis Report.

Deadline: Upload the Report by 15th August 2024.

Link: [Needs Assessment Survey Folder](#)

Collection of Open Educational Resources (OERs):

Action: Contribute to the collection of Open Educational Resources (OERs) by adding relevant resources to the shared document.

Deadline: Add OERs to the shared document by 31st July 2024.

Link: [OER Collection Document](#).

Development of MIRACLE MOOC Modules:

Action: Develop the modules for the MIRACLE Massive Open Online Course (MOOC) according to the Project Work Plan, under the guidance and support of JAITEK.

Deadline: Complete and submit the modules by 30th October 2024.

Guidance: Follow the development guidelines provided by JAITEK and consult them for support as needed.

The Moodle Manual is available [HERE](#).

Lunch Break

Work Package 4 - MIRACLE Augmented Classroom

Presenter: Darya Yegorina

Darya presented a comprehensive overview of WP4, focusing on the review of the Work Plan and Needs Analysis. She provided a detailed examination of the WP4 objectives and requirements, ensuring clarity and alignment with our goals. Additionally, Darya facilitated an in-depth discussion on Augmented Reality (AR) tools and the development of a co-creation space, exploring how these elements could significantly enhance WP4's effectiveness. A key point of her presentation was the integration of MIRACLE tools with Cleverbooks' existing tools, which she emphasized as a crucial strategy for creating a more unified and powerful toolkit. This integration aims to streamline processes and improve overall functionality, ultimately contributing to the project's success.

Figure 6

Darya Yegorina presenting the progress of WP4. The photo was taken by Shirley Cauchi, volunteer project assistant representing the community, during the meeting for the project archive.





Actions and Deadlines

Needs Analysis Survey:

Action: Participate in the Needs Analysis Survey to better understand and address the requirements for the MAC.

Deadline: Complete the survey by 31st July 2024.

Link: [SurveyMonkey Needs Analysis](#).

Action: CLB will develop the Need Analysis Report.

Deadline: Upload the Report by 15th August 2024.

Link: [Needs Assessment Survey Folder](#)

Work Package 5 - Dissemination and Outreach Activities

Presenter: George Sarrigeorgiou

George presented a detailed overview of Work Package 5, which focuses on Dissemination and Outreach Activities. He reviewed the Dissemination Log and discussed the control measures for WP5 Key Performance Indicators (KPIs). George asked all partners to report on the organization of Info Days 1 and 2 and advised that if these events have not already been implemented, they must be planned by the end of 2024. He reminded partners that a total of four Info Days need to be implemented by the end of the project, with a preference for holding two in the first year and two in the second year. He emphasized the importance of Means of Verification and Dissemination Indicators, noting that all project partners are committed to meeting both qualitative and quantitative objectives for dissemination, outreach, and sustainability. PARAGON, as the lead partner for WP5, will oversee the monitoring of these indicators at the consortium level, with individual activity leaders responsible for the progress and quality of their respective areas.

The UoM should fill in [the template of the Newsletters](#) with the content of the 4th Newsletter (June 2024) and inform the partners partners when it is ready for translation.

Figure 7

George in full swing explaining the actions to be taken by all partners. The photo was taken by Shirley Cauchi, volunteer project assistant representing the community, during the meeting for the project archive.



Actions and Deadlines

Report on Info Days 1 and 2:

Action: Each partner must provide a detailed report on the organization and execution of Info Days 1 and 2.

Deadline: By August 15, 2024

Link: [T1.1 InfoDays](#)

Plan and Schedule Info Days:

Action: For partners who have not yet implemented Info Days 1 and 2, they must develop a plan and schedule these events.

Deadline: The plan must be uploaded at the folder [T1.1 InfoDays](#) by 31st July 2024 and the events must be implemented by the end of 2024

Implementation of Total Info Days:

Action: Ensure the implementation of a total of four Info Days across the project duration.

Deadline: Info Days should be distributed as follows:

Two Info Days by the end of the first year (December 31, 2024).

Two Info Days by the end of the second year (July 31, 2025).



Monitoring and Reporting:

Action: Update the progress of all dissemination activities in the Dissemination Log.

Deadline: August 15, 2024

Link: [MIRACLE Dissemination Log](#) and [Evidence per partner and per action](#)

Work Package 1 - Project Management

Presenter: Nancy Pyrini

Summary of Project Manager's Presentation

Nancy presented an overview of Work Package 1 (WP1), which focuses on Project Management. She discussed the guidelines for preparing the Interim Report and emphasized the importance of monitoring Project Key Performance Indicators (KPIs). Nancy evaluated the recent meeting and outlined the next steps for the project.

An important aspect of Nuria's presentation but related to WP1 and therefore recorded in this section of the Proceedings was the presentation of the [Green Plan](#). A budget allocation of €400 has been set aside for green practices, and partners are encouraged to offset their CO2 emissions through initiatives such as the platform Trees for All. She highlighted the need for partners to adopt green practices and consider environmental impacts.

Nancy also provided details on specific tasks and deadlines:

A1: Project Meetings – PARAGON-eduTech, in cooperation with CLB, will develop the Minutes for the face-to-face TPM. The first draft of the Minutes is due by the end of July.

A2: Quality Management – CLB is responsible for preparing the Quality Management Report.

A3: Risk Assessment – PARAGON-eduTech will handle Risk Assessment Reports RAR1 and RAR2.

A4: Ethics and Research Integrity Framework – CLB is tasked with finalizing version 2 of this document.

A5: Financial Management – All partners must submit their [financial reports](#) according to the guidelines provided by the Coordinator. Due to issues with the new online Beneficiary Module, the Coordinator in cooperation with partners need to complete the quality narrative of the report manually in a Word document. The Coordinator should also update the Beneficiary Module with all costs to date and the Project Expenditure section of the report. Additionally, Nancy outlined the requirements for sharing annexes with the report:

- Evidence of Project and Quality Management processes (e.g., Project Management plan, updated Project Timeline or Gantt chart, Quality Management plan).
- Minutes of Transnational Project meetings.
- Copies of project results or outputs (draft or completed).



- Evidence supporting the quality of project activities and results (e.g., event evaluations, presentation copies, participant feedback, piloting reports, internal evaluations).
- Evidence of promotional activities (e.g., dissemination logs, website links, social media sites).

If there are many annexes, they should be uploaded to the SharePoint folder provided.

Figure 8

Nancy presents the overview of WPI. The photo was taken by Shirley Cauchi, volunteer project assistant representing the community, during the meeting for the project archive.



Actions and Deadlines

Project Meetings Minutes:

Action: PARAGON-eduTech, in collaboration with CLB, to develop the minutes for project meetings.

Deadline: End of July for the first draft.

Quality Management Report:

Action: CLB to prepare and submit the Quality Management Report.

Deadline: August 15, 2024



Risk Assessment Reports (RAR1 and RAR2):

Action: PARAGON-eduTech to complete and submit Risk Assessment Reports RAR1 and RAR2.

Deadline: August 15, 2024

Ethics and Research Integrity Framework:

Action: CLB to finalize version 2 of the Ethics and Research Integrity Framework document.

Deadline: August 15, 2024

Financial Reports:

Action: All partners to complete and submit financial reports as per the guidelines. Ensure the quality narrative is completed in the Word document, signed, and returned in PDF format. Update the Beneficiary Module with costs to date and Project Expenditure.

Deadline: August 15, 2024

Sharing Annexes:

Action: Coordinator to organize and upload all relevant project documents and results to the SharePoint folder, including evidence of project management, quality management, event evaluations, and promotional activities.

Deadline: August 30, 2024

Overview and Summary of the TPM2

Presenter: Nancy Pyrini

Summarized the key outcomes of the meeting and outlined the actions required before the next meeting.

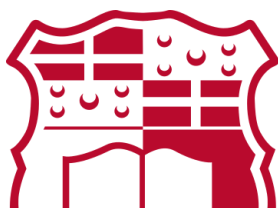
Closing Remarks

The meeting concluded with thanks to all participants for their valuable contributions and a reminder of the next steps and deadlines.



Figure 1

Family photo of the participants. The photo was taken by Despina Sarriegeorgiou during the meeting for the project archive.



^[17]
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