

# NEWSLETTER

May 2026/vol. 006

## DATA SCIENCE EDUCATION IN STEAM FOR CIVIC ENGAGEMENT AND SOCIAL JUSTICE FROM THE EARLY YEARS

Project Number: 2023-1-CY01-KA220-SCH-000164724

**Welcome to the sixth edition of the DataScEd4CiEn newsletter!**

### Final Phase Activities: Consortium Meeting, Multiplier Event & Research Outputs

As the project enters its final phase, partners came together for key activities that highlight both the progress achieved and the impact of our work across Europe. This issue focuses on the final consortium meeting, the multiplier events, and the growing body of research publications emerging from the project.

These milestones reflect the strong collaboration among partners and the continued commitment to advancing data science education within STEAM for civic engagement and social justice.

### CONSORTIUM MEETING: FINAL COORDINATION AND NEXT STEPS

**Date: 21–22 April 2026**

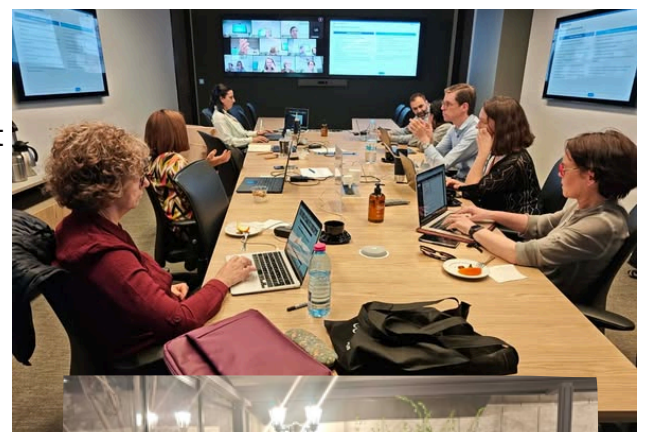
**Location: European University Cyprus**

The third transnational project meeting marked an important moment for reflection, coordination, and planning as the project approaches completion.

Partners reviewed progress across all work packages, including:

- Project management and final reporting requirements
- The development of the conceptual framework
- Teacher professional development programmes
- STEAM scenarios and classroom implementations
- Digital platforms and toolkits
- Research and evaluation outcomes

The meeting also focused on dissemination, exploitation of results, and preparation for upcoming deliverables, ensuring a smooth transition into the final phase of the project.



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## MULTIPLIER EVENT: SHARING RESULTS AND IMPACT

**Date: 22 April 2026**

**Location: European University Cyprus & Online**

The multiplier event, titled “Data Science Across Primary, Secondary, and Higher Education for Civic Engagement: From Theory to Practice”, brought together educators, researchers, and stakeholders to explore the outcomes of the DataScEd4CiEn and DataSETUP projects.

The event programme included:

- An overview of both Erasmus+ projects
- Presentation of the EDUCATE conceptual framework
- Demonstrations of teacher education modules and STEAM scenarios
- Introduction to project platforms and digital tools
- Interactive workshops on data science, AI, and civic engagement

Participants had the opportunity to gain insights into how data science can be meaningfully integrated into classrooms to address real-world challenges.



**YOU ARE INVITED TO THE FINAL EVENT**

**HIGHLIGHTS**

**DATA SCIENCE FOR STEAM, CIVIC ENGAGEMENT & SOCIAL JUSTICE**

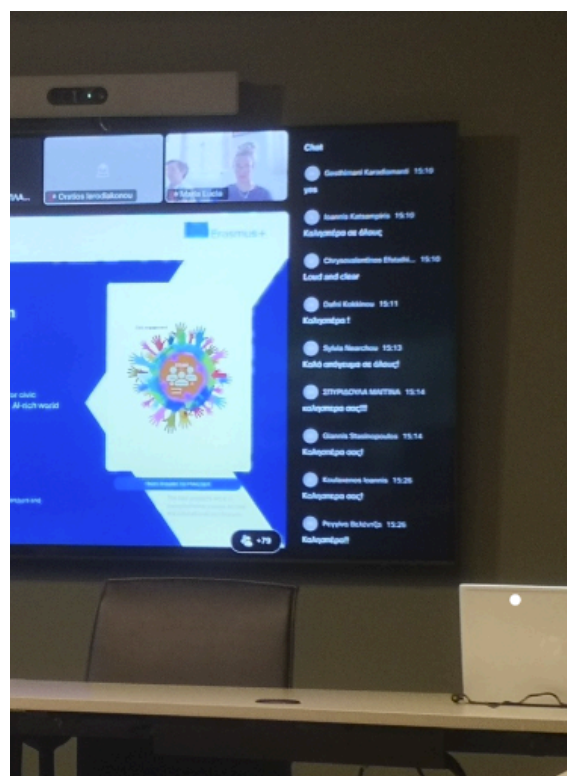
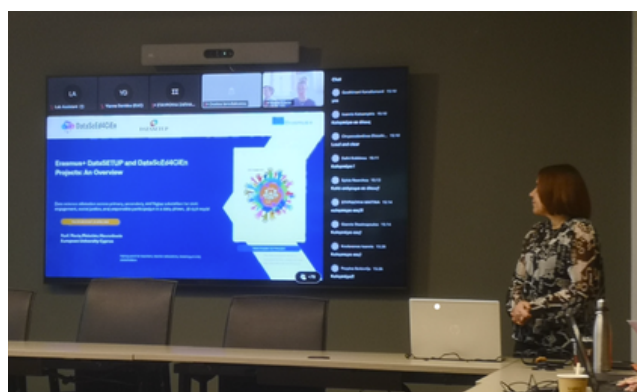
- ✓ Understand core ideas of data science literacy within STEAM education
- ✓ Learn how to address civic engagement & social justice through data-driven inquiry
- ✓ Explore high-quality, ready-to-use learning materials
- ✓ Gain insights from classroom implementations across Europe
- ✓ Get introduced to modern digital and AI tools for teaching data science

**LIVE EVENT:**

- 📅 22<sup>nd</sup> of April
- 🕒 15:00- 18:45 **EET**
- 📍 European University Cyprus, Auditorium A or ONLINE

[Reserve Your Spot Now](#)

Co-funded by the European Union



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## MULTIPLIER EVENT: SHARING RESULTS AND IMPACT

**Date: 22 April 2026**

**Location: European University Cyprus & Online**

### Advancing Data Science Education in Schools

The program opened with an overview of the DataScEd4CiEn project, highlighting its objectives, pedagogical framework, and key achievements. Participants were introduced to the project's approach to fostering **data literacy through interdisciplinary STEAM education**, supporting students in engaging with real-world societal issues.

Presentations focused on how data science can be meaningfully integrated into school education to promote **critical thinking, ethical awareness, and active citizenship**.

### Supporting Teachers Through Tools and Training

The multiplier event also presented the project's digital platform and learning resources, designed to support educators in implementing data science in their classrooms.

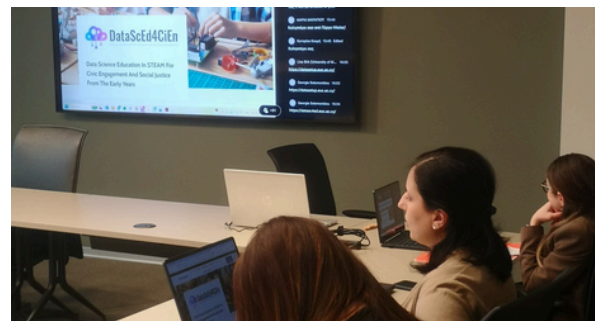
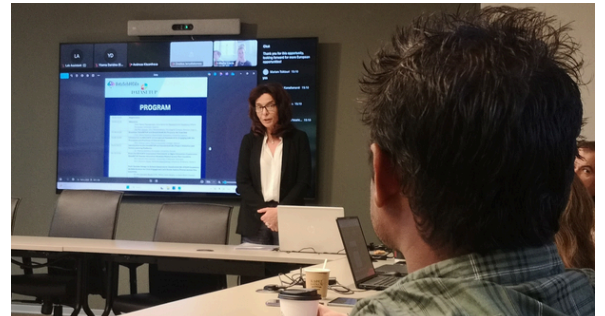
Participants explored practical tools for data exploration, analysis, and visualization, as well as strategies for integrating data science into existing curricula. Interactive sessions provided insights into how teachers can foster student engagement through data-driven inquiry and real-world problem solving.

### From Framework to Classroom Practice

A central part of the event was dedicated to the presentation of DataScEd4CiEn STEAM scenarios, which have been implemented in schools across partner countries. Educators shared classroom experiences demonstrating how students engage with authentic datasets to explore topics such as sustainability, inequality, and global challenges. These examples illustrated how the project supports the development of data literacy, inquiry skills, and civic responsibility.

### Building a World Community

The event brought together experts and educators from multiple countries, reflecting the project's collaborative nature and contributed to strengthening a growing transnational community of educators, committed to promoting innovative, socially relevant education.



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## MULTIPLIER EVENT: SHARING RESULTS AND IMPACT

**Date: 12 May 2026**

**Location: National and Kapodistrian University, Athens**

On 12 May 2026, the Department of Mathematics of the National and Kapodistrian University of Athens (NKUA) hosted a multiplier event for the DataScEd4CiEn project, bringing together 35 teachers, teacher educators, and students.

The event was honoured by the presence of the Head of the Department of Mathematics, Professor Ioannis Emmanouil, who delivered a welcome address.

Participants had the opportunity to explore and discuss the outcomes of the DataScEd4CiEn project, with a focus on Data Science education, STEAM, and innovative teaching practices. The event fostered meaningful dialogue between members of the educational and academic community and highlighted the importance of integrating data-driven learning into contemporary education.



## MULTIPLIER EVENT: SHARING RESULTS AND IMPACT

**Date: 19 May 2026**

**Location: Colegio La Salle–Buen Consejo in Puerto Real, Cádiz**

The multiplier event in Spain focused on promoting Data Science education from a STEAM perspective, with special emphasis on civic engagement and social justice. Participants explored innovative educational scenarios developed within the project and discussed how digital technologies and Artificial Intelligence can support Data Science teaching in schools.

The programme included presentations of the project's theoretical framework, examples of classroom scenarios, and a hands-on workshop using digital and AI-supported tools such as CODAP (Common Online Data Analysis Platform). Participants engaged in activities involving data analysis, predictive models, and real-world problem-solving with authentic datasets.

The multiplier event provided an excellent opportunity for educators, researchers, and teacher educators to exchange ideas and experiences around innovative STEAM teaching practices and the future of Data Science education.



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## MULTIPLIER EVENT: SHARING RESULTS AND IMPACT

**Date: 13 May 2026**

**Location: Münster University, Germany**

On May 13, the final National Multiplier Event of the DataScEd4CiEn project brought together 19 pre-service teachers at Münster University for an inspiring session on Data Science education, STEAM, and innovative teaching practices.

Participants explored the project's core concepts and pedagogical framework, while also engaging hands-on with exemplary educational scenarios developed within the project. These practical activities provided future teachers with ideas and resources they can adapt for their own classrooms.

The event created valuable opportunities for discussion, collaboration, and reflection on how data-driven learning can support active and meaningful education.



## SHARING RESULTS AND IMPACT

**Date: 13-16 May 2026**

**Location: Federal University of Uberlândia (UFU), Brazil.**

From 13–16 May 2026, Lisa Birk from Münster University represented the DataScEd4CiEn project at the international STE(A)M conference “I Seminário Internacional de Educação no Cerrado / IV Encontro de Educação em Ciências e Matemática” held at the Federal University of Uberlândia (UFU), Brazil.

As an invited speaker, Lisa Birk presented the project during a round table session and facilitated a teacher workshop, introducing participants to the project's objectives, pedagogical framework, and professional development materials.

The conference provided a fantastic opportunity to connect with researchers, teachers, and students from across the international science and mathematics education community, while promoting dialogue around STE(A)M education, data literacy, and innovative teaching practices.

We are proud to see DataScEd4CiEn contributing to international discussions on the future of education and active citizenship through Data Science!



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## SHARING RESULTS AND IMPACT - OUR RESEARCH OUTPUTS

1. Bakogianni, D., Malafekas, I., Meletiou-Mavrotheris, M. (2025). DataScEd4CiEn: Integrating Data Science into STEAM Education for Civic Engagement and Social Justice – A Case from Greece. Accepted for publication in the Proceedings of the 14th IASE Satellite Conference on "Statistics and Data Science Education in STEAM", Münster, Germany, September 2025.
2. Gavrielides, M., Meletiou-Mavrotheris, M., Hadjithoma, L., Paparistodemou, E., Danidou, Y., & Solomonidou, G. (2025). Data science for social justice in STEAM: A pilot study of an EU-funded program on teacher development and student civic engagement [Manuscript under review].
3. Gavrielides, M., Meletiou-Mavrotheris, M., Paparistodemou, E., Danidou, Y., Solomonidou, G., & Hadjithoma, L. (2025, September 30 – October 2). Enhancing teachers' TPACK for data science in STEAM education: Insights from a pilot professional development program in Cyprus. Paper presented at the 14th IASE Satellite Conference, Münster, Germany.
4. Leavy, A. (2025, October 5–9). Data science: Extending the frontiers of statistical understanding for young learners. In Proceedings of the 65th ISI World Statistics Congress. The Hague, The Netherlands: International Statistical Institute.
5. Leavy, A., Meletiou-Mavrotheris, M., Bakogianni, D., Birk, L., Bogiatzi, K., Danidou, Y., Frischemeier, D., Gavrielides, M., Hadjithoma, L., Lucia-Vargas, M., Paparistodemou, E., Serradó Bayés, A., Solomonidou, G., & Ververas, N. (2025). Development of a conceptual framework for data science within STEAM education. Education Sciences [Pre-print].
6. Lucia, M., & Serradó, A. (2025, April 12–14). Ciencia de datos: Modelos generativos y predictivos con CODAP. In Proceedings of the XIX Congreso de Enseñanza y Aprendizaje de las Matemáticas (CEAM XIX), Huelva, Spain.
7. Lucia, M., Serradó, A., Meletiou-Mavrotheris, M., & Bakogianni, D. (2025, November 10–12). Empowering creative dispositions for social justice: A data science and STEAM approach in primary education. Paper to be presented at ICERI 2025, Seville, Spain.
8. Meletiou-Mavrotheris, M., Leavy, A., Frischemeier, D., Serradó Bayés, A., Bakogianni, D., & Paparistodemou, E. (2025, June 28 – July 2). Promoting data science literacy in European schools: The DataScEd4CiEn project. Paper presented at SRTL-14, Pennsylvania State University, USA.
9. Meletiou-Mavrotheris, M., Serradó Bayés, A., Leavy, A., Frischemeier, D., Bakogianni, D., & Paparistodemou, E. (2025, June 26 – July 2). Navigating subjectivities and perspectives in data science education: A Toulminian analysis of two STEAM scenarios from the DataScEd4CiEn project. Paper presented at SRTL-14, Pennsylvania State University, USA.
10. Serradó, A., & Lucia, M. (in press). El papel del sentido estocástico en la educación en la ciencia de datos [The role of stochastic sense in data science education]. Revista de Educación Estadística.
11. Serradó, A., Lucia, M., & Pavón, M. (2025, April 12–14). Situaciones de aprendizaje STEAM en ciencias de datos para el desarrollo del compromiso cívico y la justicia social. In Proceedings of the XIX Congreso de Enseñanza y Aprendizaje de las Matemáticas (CEAM XIX), Huelva, Spain.
12. Kassi, A., Bakogianni, D., & Potari, D. (2025). Contradictions of teacher educators and their management within a professional development program on data science. In Proceedings of the 11th Conference of Hellenic Association for Research in Mathematics Education (Heraklion, Crete, Greece).
13. Boltsi, V., Papaioannou, V., Loukopoulou, O., Mastrogiannopoulou, D., Soufli, A., Ververas, N., & Bakogianni, D. (2025). Integrating data science into STEAM approaches for the development of civic engagement in lower secondary education: A classroom scenario on food waste. In Proceedings of the 11th Conference of Hellenic Association for Research in Mathematics Education (Heraklion, Crete, Greece).