

DATA LITERACY FOR UPPER PRIMARY SCHOOLS!

THE INITIATIVE

The initiative fosters an educational environment where data literacy is an integral part of the curriculum, preparing students to navigate and thrive in a data-driven world.

CURIOSITY 

DATA COLLECTION 

PROJECT GOALS



- DEVELOP DATA LITERACY COMPETENCIES
- FOSTER EXPLORATORY LEARNING APPROACHES
- INTEGRATE DATA ACTIVITIES ACROSS SUBJECTS
- PROMOTE DATA STORYTELLING IN THE CLASSROOM
- CREATE A SUSTAINABLE RESOURCE BASE



PROJECT OVERVIEW

ACTION

Erasmus+ project, Forward-Looking Projects

DURATION

January 1, 2024 – December 31, 2026

PARTNER COUNTRIES

Luxembourg, Ireland, Slovenia

AIMS

To equip primary school teachers with the necessary confidence, knowledge, skills, and attitudes to teach data literacy effectively.

PARTNERS



OUTCOMES

Digital ecosystem **OrangeEDU** (adaptation of the existing Orange Data Mining software for data literacy).

Materials for cross-curricular teaching and learning.

Professional training program for teachers and school leaders on data literacy.

Policy recommendations for data literacy education in primary schools and for integrating technological, pedagogical, and political requirements in collaboration with edTech developers.



DALI4US

DATA LITERACY FOR UPPER PRIMARY SCHOOLS



DALI4US-DATA LITERACY IN UPPER PRIMARY EDUCATION EQUIPS TEACHERS WITH THE ESSENTIAL CONFIDENCE, KNOWLEDGE, SKILLS, AND ATTITUDES NEEDED TO TEACH DATA LITERACY EFFECTIVELY.



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DALI4US DATA LITERACY

The DALI4US framework helps teachers guide pupils in developing data literacy through an engaging, step-by-step process. It follows an iterative cycle that connects real-world questions with hands-on exploration and critical reflection:

- Trigger – spark curiosity with meaningful questions.
- Collect – gather data from authentic contexts.
- Organize – structure and prepare data for use.
- Explore – look for insights, trends, patterns and anomalies.
- Predict – apply findings to new situations.
- Reflect – review results and implications.
- Share – communicate insights clearly and responsibly.

CLASSROOM SCENARIOS



A mix of outdoor and indoor activities to enhance data skills.



HANDS ON ACTIVITIES

EXAMPLE ACTIVITY

Students collect leaves from a park and sort them by shape in small groups, creating interesting results.

They then photograph the leaves and upload them to Orange Data Mining to explore how computers might sort leaves, even differently. This practical activity helps deepen their understanding of data exploration, classification, and visualisation as students compare datasets, identify patterns, make predictions, and group items.

The session concludes with a discussion on the benefits of collecting, interpreting, and visualising data. They also consider other real-world examples, such as dogs or houses, and how data helps us understand the world.

← UNPLUGGED ACTIVITIES

← PLUGGED ACTIVITIES

← REFLECTION

← FUTURE AWARENESS

KEY TEACHER ACTIVITIES & TIMELINE

TEACHER TRAINING

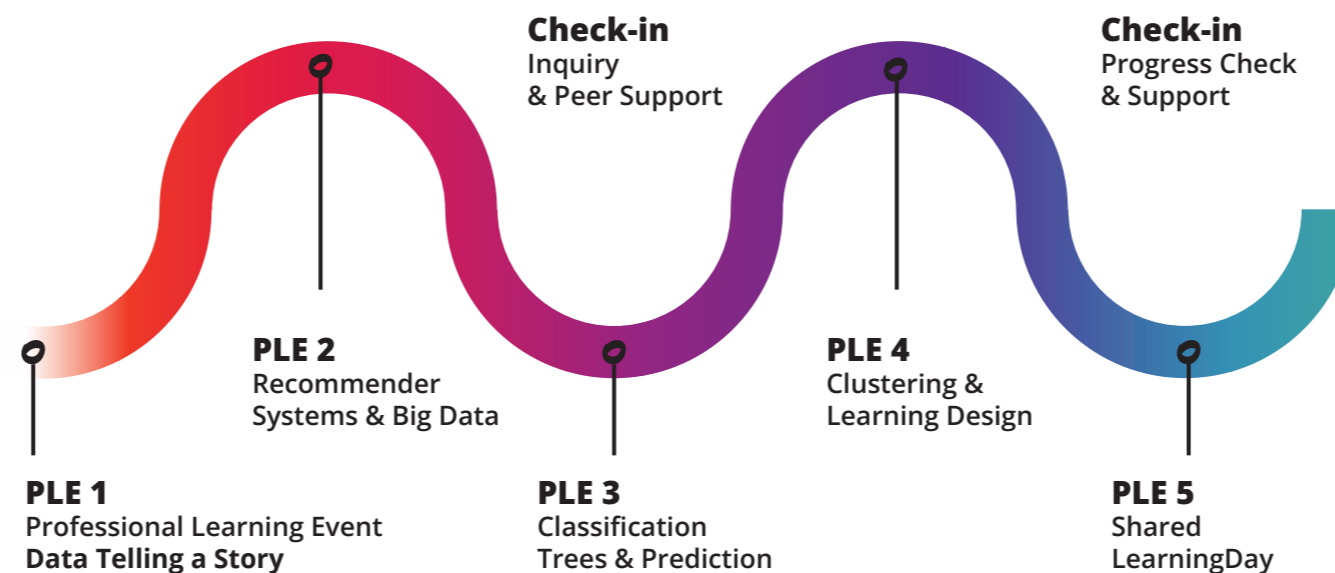
from November 2025 to May 2026

- Face-to-face
- On-line
- Classroom testing and discussions

EVALUATION PERIODS: initial, interim, final

ACTIVITY CHECKS: support, reflection

COMMUNITY MEETINGS: teachers from Luxembourg, Ireland, Slovenia



TEACHERS BENEFITS

- ☆ **COMPREHENSIVE PEDAGOGICAL AND TECHNICAL SUPPORT**
Equips teachers, school leaders, and policymakers with scalable tools for confident data literacy education.
- ☆ **DIGITAL ECOSYSTEM**
Adapts Orange Data Mining into OrangeEDU, tailored for primary schools, based on software used by 500+ educational institutions.
- ☆ **CURRICULUM-LINKED RESOURCES**
Includes cross-subject materials: lecture notes, videos for teachers and students.
- ☆ **TEACHER TRAINING**
Offers a structured professional development program for educators and school leaders in data literacy.
- ☆ **POLICY GUIDANCE**
Delivers evidence-based recommendations to align educational practices with tech, pedagogy, and policy needs.

EXPECTED IMPACT ON TEACHERS

- ☆ **STRONGER ENGAGEMENT**
Collaboration in multidisciplinary teams boosts teacher commitment, turning them into project ambassadors who promote data literacy via their networks
- ☆ **PRACTICAL TEACHING TOOLS**
Ready-to-use learning scenarios aligned with national curricula make classroom integration easy, helping teachers apply data literacy effectively.
- ☆ **SCALABLE RESOURCES**
Initially designed for upper primary education, the materials are easily adaptable for lower primary or secondary education.
- ☆ **PROFESSIONAL GROWTH**
Teachers gain hands-on skills in problem-solving, communication, and educational technology, encouraging openness to innovation and deeper tech understanding.

MOTIVATED?

"JOIN THE PILOT GROUP – BRING INNOVATIVE DATA PRACTICES TO YOUR CLASSROOM"

"BE PART OF AN INITIATIVE – CONTRIBUTE TO SHAPING CURRICULUM, INTEGRATING DATA LITERACY"

"YOUR INPUT MATTERS – PARTICIPATE IN THE DATA CHALLENGE"

"PREPARE YOUR STUDENTS FOR THE BIG-DATA FUTURE"

"USING DATA TO SOLVE A REAL-WORLD PROBLEM"

"GET INVOLVED IN SHAPING DATA ANALYTICS TOMORROW'S CURRICULUM"

"BECOME A DATA EXPLORER"