

NEWSLETTER



NEW YEAR, NEW ROUND OF HANDS-ON IOT PRACTICE WITH TEACHERS AND STUDENTS

Where we are now

IoT4Schools is an Erasmus+ funded initiative bringing Internet of Things (IoT) concepts into secondary school education through real-world, project-based learning. Following the successful release and piloting of the first two projects in Greece, Poland, Cyprus, and the Netherlands, 2026 marks an important transition phase. We are currently in the teacher training stage, with **four new IoT projects designed**, reviewed by the partnership, and introduced to teachers across all partner countries. Teacher training will be completed by February 2026, followed by piloting activities in schools

Project No. 3 – Weather Station

Using the BBC micro:bit, sensors (temperature, humidity, pressure), a WiFi module, and an IoT cloud platform, students design and program their own weather station, sending real-time data to the cloud for monitoring and analysis.

[Teacher guidelines and student worksheets](#) are available, supporting smooth classroom introduction and implementation.

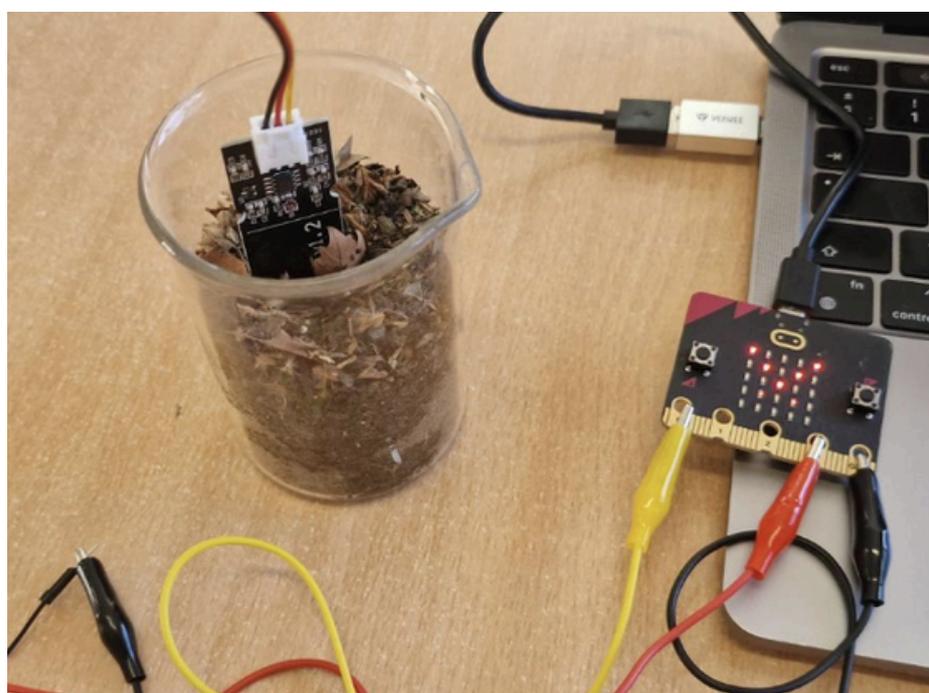


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Project No.4 Smart Water Conservation for School Gardens

This project focuses on water conservation and sustainability, addressing real challenges faced by schools, especially during holiday periods. Students design an automated IoT-based irrigation system that monitors soil humidity and administers water only when needed. The system can be solar-powered, promoting green energy awareness while helping students understand resource efficiency, automation, and environmental responsibility.

Complete [educational resources](#) for teachers and students are provided.



Project No. 5 Building a smart home ecosystem

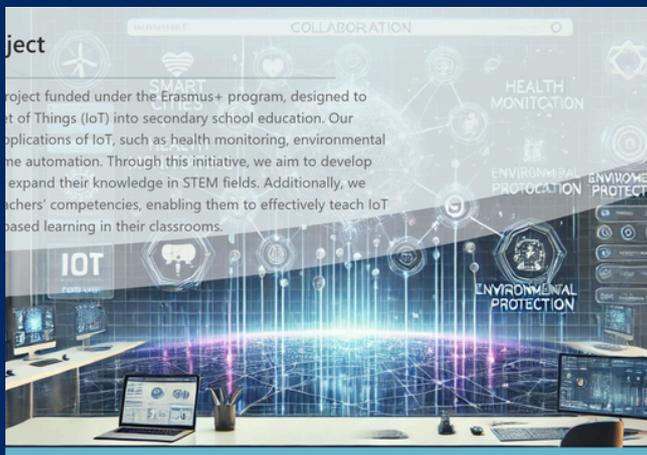
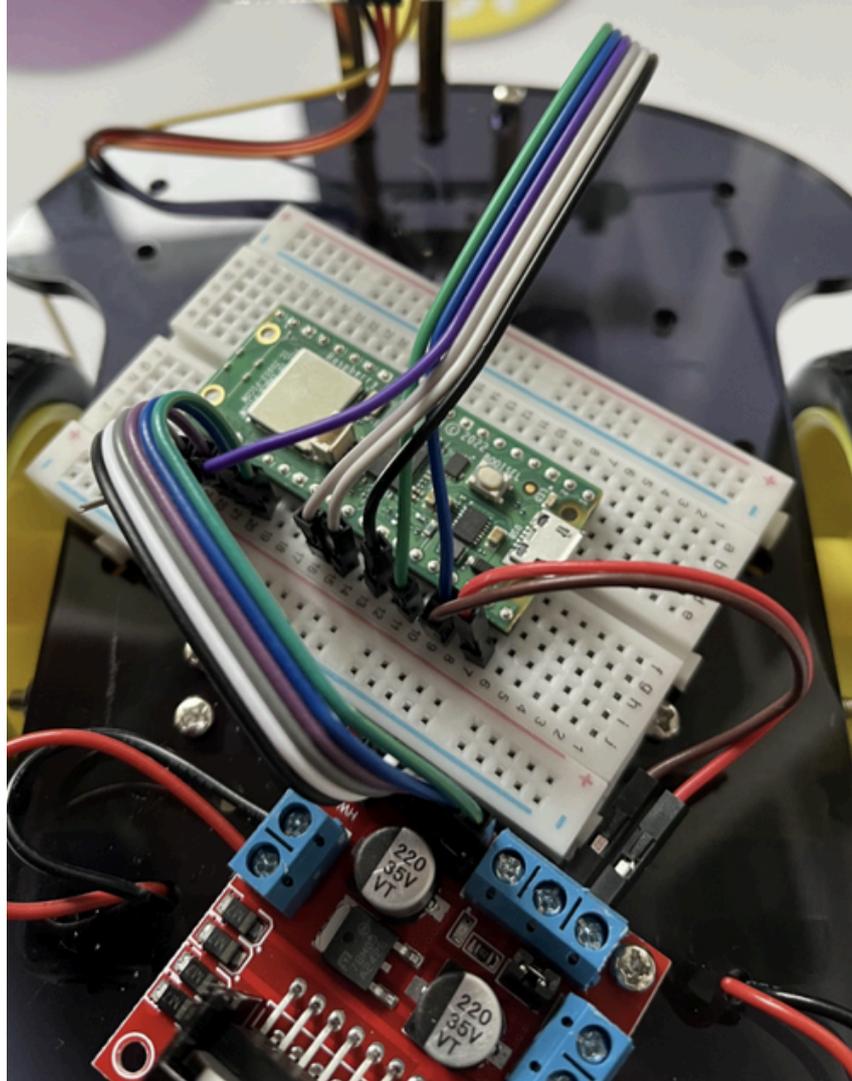
The students create a Smart Home system using a Raspberry Pi Pico W, sensors, actuators, and cloud integration. Through hands-on activities and collaborative learning, they explore home automation, programming, and IoT data management, culminating in a fully functional smart home prototype.

[Educational resources](#) support both theoretical understanding and practical experimentation.

Project No. 6 Car Accidents Prevention

This scenario introduces students to road safety and smart mobility. Learners develop an intelligent system that adjusts a vehicle's speed based on obstacle detection, helping prevent common accidents such as late braking and pedestrian collisions. Students also design a system to measure traffic volume, linking IoT technology with real societal challenges and data-driven decision making.

Educational resources are available to support implementation.



Join the IOT4SCHOOLS Online Collaboration Portal

Through the portal, users can explore hands-on IoT activities, technical guides, community discussions, and professional training opportunities that support the sustainable integration of IoT in school education.

Subscribe here: <https://portal-iot4schools.erasmusplus.website/>

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