



AviWaste

BUILDING GREEN SKILLS FOR THE

FUTURE OF AVIATION

PROJECT AT A GLANCE

DURATION

OCTOBER 2024 – JULY 2026

PARTNER COUNTRIES

SERBIA • ITALY • TÜRKIYE

PROJECT PARTNERS

4 ORGANISATIONS

MOOC

9 ONLINE LEARNING MODULES

VIRTUAL REALITY

9 IMMERSIVE LEARNING
ACTIVITIES

TOOLKIT

MULTILINGUAL TEACHING
RESOURCE

Supporting the Aviation Industry through Innovative Green Skills Education

The aviation sector is undergoing a profound transformation in response to environmental challenges and the transition towards more sustainable operations. Alongside technical excellence, environmental responsibility has become an essential competence for the aviation workforce.

To meet these evolving industry needs, vocational education must prepare future aviation professionals with the knowledge, skills and attitudes required to contribute to sustainable airport operations from the very beginning of their careers.

AviWaste – Waste Management in Aviation Education is an Erasmus+ Cooperation Partnership bringing together aviation education providers and experts from Serbia, Italy and Türkiye to develop innovative learning resources that strengthen green skills within vocational aviation education.



Why Sustainable Aviation Education Matters

Environmental sustainability is becoming an integral part of modern aviation.

Every airport generates a wide variety of waste streams throughout daily operations, including municipal waste, hazardous maintenance materials, used oils, batteries, packaging, catering waste, electronic equipment and recyclable materials.

Managing these waste streams safely and efficiently is now an essential component of airport environmental management systems.

At the same time, employers increasingly expect graduates entering the aviation workforce to possess not only technical expertise but also an understanding of sustainable operational practices and environmental responsibility.

Despite these growing expectations, waste management has traditionally received limited attention within vocational aviation education.

Today's Aviation Requires Green Competences

Today's aviation professionals are expected not only to comply with environmental regulations but also to actively contribute to sustainable airport operations. Developing these competences begins in vocational education.

AviWaste responds to this challenge by integrating sustainability into aviation training through innovative digital learning resources that connect education with real industry practice.

PROJECT OBJECTIVES

-  **INTEGRATE SUSTAINABILITY INTO AVIATION EDUCATION**
-  **DEVELOP GREEN COMPETENCES**
-  **PROMOTE INNOVATIVE DIGITAL LEARNING**
-  **STRENGTHEN COOPERATION BETWEEN EDUCATION AND INDUSTRY**
-  **PREPARE STUDENTS FOR FUTURE EMPLOYMENT**



INNOVATIVE EDUCATIONAL RESOURCES

ONLINE COURSE (MOOC)

Nine interactive learning modules focusing on:

- Airport waste management
- Environmental legislation
- Aircraft recycling
- Circular economy
- Hazardous waste
- Sustainable airport practices
- Waste prevention
- International case studies

Flexible learning suitable for students, teachers and aviation professionals.



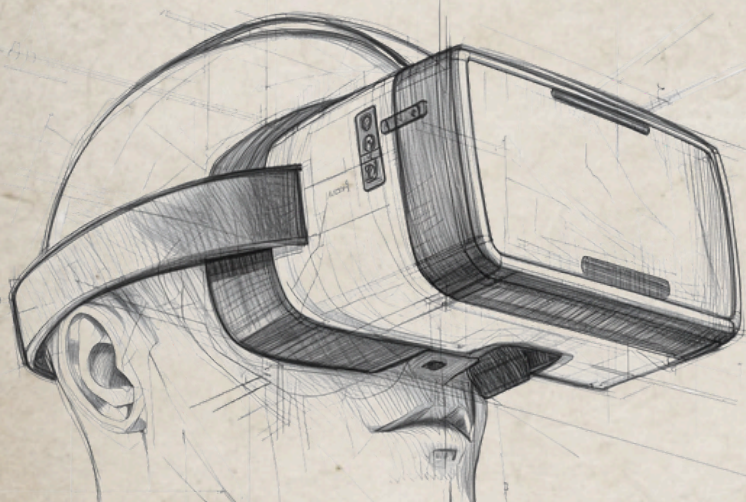
VIRTUAL REALITY LEARNING

Immersive airport learning experiences

Students explore realistic airport environments where they identify waste streams and understand correct waste management procedures before entering real workplaces.

Benefits include:

- Experiential learning
- Increased learner engagement
- Better knowledge retention
- Safe practice environment



AVIATION WASTE MANAGEMENT TOOLKIT

Ready-to-use educational materials

- Lesson plans
- Teaching methodology
- Assessment guidance
- Classroom activities
- International good practices
- Curriculum integration support



International Good Practices

Environmental responsibility is already shaping airport operations across Europe. To support authentic learning, AviWaste examined sustainability initiatives implemented by airports in the partner countries and transformed these examples into educational resources for vocational aviation education.

BELGRADE NIKOLA TESLA AIRPORT

- WASTE SEPARATION
- WATER CONSERVATION
- BIODIVERSITY PROTECTION
- CIRCULAR ECONOMY MEASURES
- RESOURCE EFFICIENCY



İSTANBUL AIRPORT (İGA)

- ZERO WASTE PROGRAMME
- SMART WASTE MONITORING
- RECYCLING INFRASTRUCTURE
- STAFF AWARENESS PROGRAMMES
- SUSTAINABLE AIRPORT MANAGEMENT



ROME FIUMICINO AIRPORT

- FOOD WASTE REDUCTION
- CIRCULAR ECONOMY PARTNERSHIPS
- RESOURCE RECOVERY
- SUSTAINABLE OPERATIONAL PRACTICES



From Airport Practice to the Classroom

Rather than presenting sustainability as a theoretical concept, AviWaste transforms real airport experiences into practical educational resources that prepare students for employment within environmentally responsible aviation organisations.

HOW AVIATION STAKEHOLDERS CAN BENEFIT

Airlines

Future employees entering the workforce with greater awareness of sustainable aviation practices and environmental responsibility.

Airports

Educational resources supporting greener airport operations and strengthening work-based learning.

Aircraft Maintenance Organisations (MRO)

Better prepared trainees with an understanding of responsible maintenance waste management before entering practical training.

Training Centres

Ready-to-use teaching materials that complement existing aviation education and professional development programmes.

Civil Aviation Authorities

Support for developing sustainability competences aligned with European environmental priorities and future workforce needs.

Working Together

The transition towards sustainable aviation requires close cooperation between education providers, employers and public authorities.

By sharing knowledge, innovation and good practices, we can prepare future aviation professionals to contribute to safer, cleaner and more sustainable airport operations.



**BUILDING GREENER AVIATION STARTS WITH
EDUCATING TOMORROW'S PROFESSIONALS TODAY.**

Looking Ahead

Environmental responsibility is becoming a defining competence for every aviation professional.

Through international cooperation, innovative digital learning and close collaboration with industry, AviWaste demonstrates how vocational education can support the aviation sector's transition towards a more sustainable future.

The consortium hopes that the educational resources developed through the project will continue to support aviation schools, training providers and industry stakeholders in strengthening green skills across Europe.

Thank You for Supporting Sustainable Aviation Education

The AviWaste consortium sincerely thanks airports, airlines, maintenance organisations, aviation authorities, educational institutions and all associated partners who contributed to the project through cooperation, exchange of expertise and dissemination of good practices.

Your engagement helps prepare future aviation professionals for the environmental challenges of tomorrow.

About AviWaste

AviWaste – Waste Management in Aviation Education

Erasmus+ Cooperation Partnership (KA220-VET)

Project duration: October 2024 – July 2026

Four partners • Three countries • One shared commitment to greener aviation education

Project Consortium



Aviation Academy | InterEdu | De Pinedo | Aksu MTAL



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