GreenTeach: Integrating Sustainability into VET

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2024-1-BG01-KA220-VET-000246431

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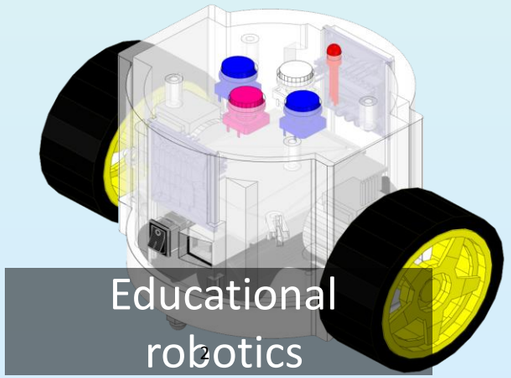
Who We are

A Multidisciplinary Research and Development Centre involved in several International, European and National projects.



International and European Projects

G.A. STEM

TeamStar
digital and STEM careers
BEST PRACTICE

BoostClass2.0

PROJECT NATURE
BEST PRACTICE

UPPScience

digital stories

DIGICULT

GreenTeach

C4G

BigGame Project

DESIGN THINKING Skills

ICT-INOV
MODERNIZING ICT EDUCATION FOR HARVESTING INNOVATION

GreenTeach, an Erasmus+ project (2024-2026), aims to enhance **sustainability education** in **VET institutions** across *Bulgaria, Italy, Romania, and Turkey*.

The transition to a **green economy** requires a **workforce** with **sustainability skills**. This is crucial in *Vocational Education and Training (VET)*.

Project Overview

Core Mission

Empower **VET educators** with **innovative green teaching methodologies** and **digital** learning **tools**.

Research Approach

Used **qualitative mixed methods** including **desk research**, **expert interviews**, and **national surveys**.

Research Methodology

Desk Research

Reviewed **national policies**, VET **curricula**, and **strategic documents** on **sustainability integration**.

Expert Interviews

Conducted **20 interviews** with **VET experts** across **four countries** to identify **barriers** and **opportunities**.

National Surveys

Gathered input from **204 VET educators** on **sustainability awareness**, **teaching practices**, and **training needs**.

Survey Focus Areas

Demographics

Collected data on age, gender, country, teaching area, experience, and subjects taught.

Framework Awareness

Explored familiarity with GreenComp and confidence in applying sustainability competencies.

Teaching Methods

Assessed confidence in using project-based learning, inquiry-based learning, and other approaches.

Digital Competencies

Investigated ability to use digital tools for sustainability education.

Training Needs

Identified educators' preferred training formats and priority topics for professional development.

Expert Interview Findings

Growing Awareness

Experts acknowledged increasing **awareness** of **sustainability** in **VET**. However, **practical** implementation **remains limited**.

Key Barriers

- **Curriculum rigidity**
- **Lack** of institutional **commitment**
- **Inadequate infrastructure**
- **Limited** teacher **training**

Country-Specific Challenges

Bulgaria

Limited teacher **training**, insufficient **resources**, and absence of **standardized curricula** for **sustainability**.

Italy

Low student engagement and misalignment between training **programs** and **green job** market needs.

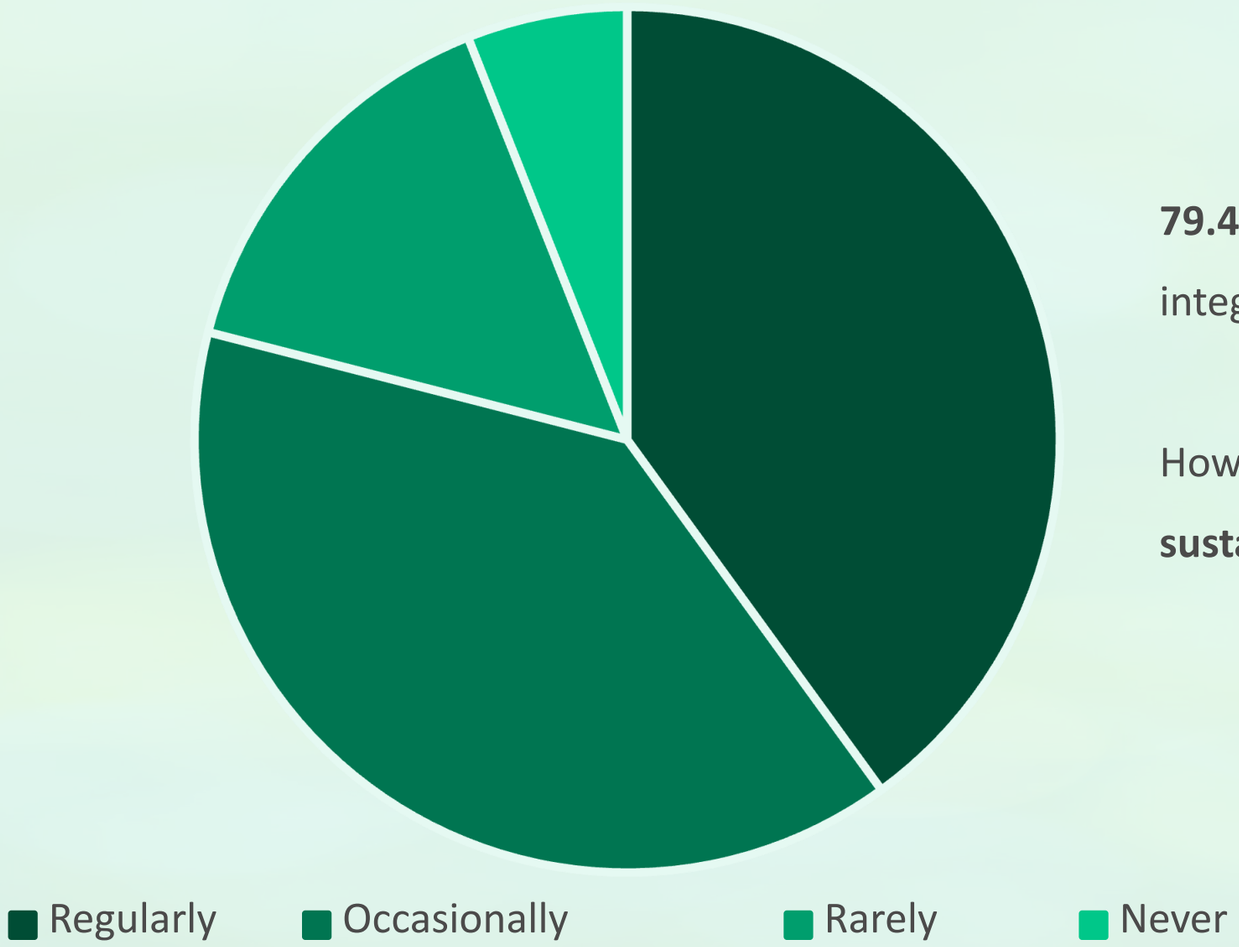
Romania

Overcrowded curricula and **lack** of **formal national standards** for sustainability education.

Turkey

Outdated learning **environments** and **unequal access** to vocational education.

Teacher Survey Results



79.41% of teachers **regularly** or **occasionally** integrate **sustainability** topics into their **teaching**.

However, **confidence** in **designing effective sustainability** learning **remains low**.

Preferred Teaching Methods

Project-Based Learning

Hands-on projects that **solve real sustainability challenges**. Highly effective but **requires training**.

Inquiry-Based Learning

Students investigate sustainability questions through **research**. Teachers feel most **confident** with this method.

Case Studies

Real-world sustainability examples that **provide context**. Popular across all countries surveyed.

Experiential Learning

Direct experience with **sustainability concepts** through **field trips** and **simulations**. Very effective approach.

Digital Competencies

Current Confidence

Teachers **reported moderate** overall **confidence** with **digital tools**. *Most comfortable with*:

- Learning Management Systems
- Online collaboration platforms

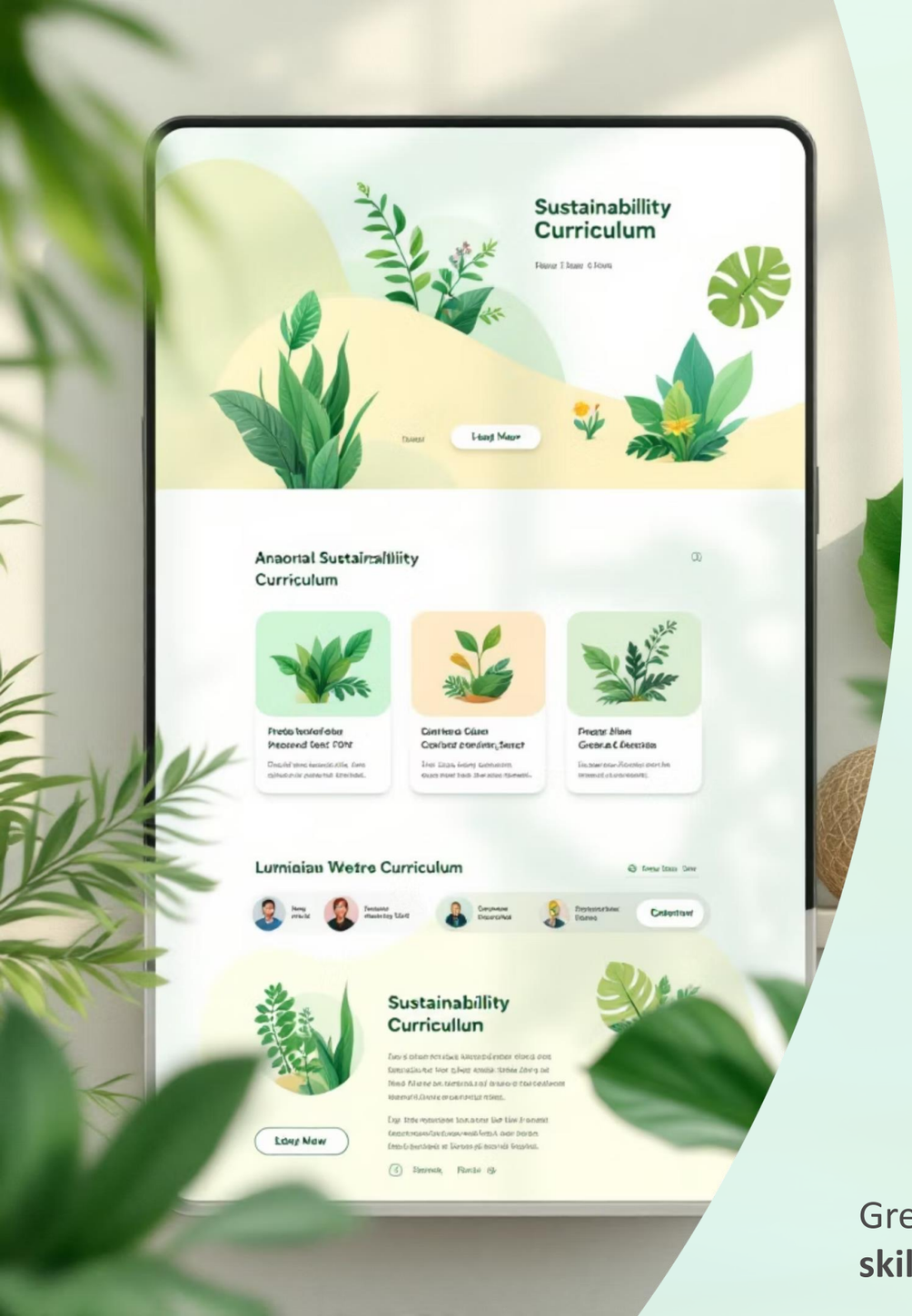
Less confident with:

- Simulation software
- Emerging technologies

Training Interests

High interest in receiving **training** on **digital tools** for **sustainability** content. Preferences include:

- **Interactive** multimedia **resources**
- **Simulation tools**
- **Virtual** and **augmented reality**



Project Outcomes & Next Steps

1 Competency Framework

Developing a **validated framework** for **green education** in VET aligned with GreenComp.

2 GreenTeach Curriculum

Creating comprehensive **curriculum** materials for **sustainability education**.

3 E-Learning Platform

Building **digital infrastructure** to deliver **sustainability training** to educators.

4 Online Courses

Developing **catalog** of **courses** tailored **to VET educators' specific needs**.

GreenTeach will address **identified gaps** by empowering **educators** with **skills** and **resources** to integrate **sustainability effectively**.

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Thank you for your attention

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