

Training Tomorrow's Environmental Analysts

Vocational Training Programme for assisting
in Mastering IoT and Sensor Technologies in
Namibia, Rwanda and Zimbabwe

Sources from ERASMUS+ EU-Africa Green Projects

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SOURCES FROM ERASMUS+ EU- AFRICA GREEN PROJECTS

 **SUSTAIN-IT**

sustain-it-project.eu



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Leveraging Knowledge from ERASMUS+ Capacity Building in Vocational Training Projects



The ERASMUS+ Capacity Building in Vocational Training Projects (some of them developed in Sub Sahara Africa), funded by the European Commission, indulge a rich source of **innovation**, practical solutions and **education** aimed at promoting sustainability across both regions.

We draw insights and examples from the **SUSTAIN-IT consortium's involvement** in these projects, highlighting contributions to green skills development, environmental monitoring, and community resilience through education capacity building and **Vocational Education**.



Cameroon RenewED

Period: 2023-2025

Countries involved: Netherlands, Italy, Cameroon

Project number: 101092202

Partner Involved: APRO



The main objective of the project is to improve and increase the capacity of VET teachers and trainers and the responsiveness of VET institutions as a driver of sustainable socio-economic development using innovative expertise on **renewable solar energy**.

The main target group are VET organisations and teachers, with train-the-trainers courses and new didactical modules for CVET learners.

Cameroon Renewed aimed to boost resilience and bridge the gaps between education, the labour market and governance policies, with a special eye on social entrepreneurship and business plan.

Food Routes



Period: 2023-2026

Countries involved: Germany, Greece, Italy, Tunisia, Morocco

Partner Involved: APRO



Strengthening VET entrepreneurial competencies' development
for gastro-tourism in the Maghreb Region

The project aims to empower both young people and VET staff in the gastronomy sector by promoting entrepreneurship and work-based learning. Through this initiative, new opportunities for employability and economic development will be created.

Sustainability and green transition in tourism sector represent indeed crucial aspects for the project. Relevant skills gap has been observed in the implementation of a more sustainable approach to gastronomy and hospitality, detected as crucial by the partners according to customers' trends.

Visit: <https://www.foodroutes.eu/>



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Greening TVET for the Solar Industry in Africa

Period: 2024 – 2026

Countries Involved: Spain, Greece, Netherlands, Nigeria, Ghana, Uganda

Partner Involved: Mundus



Solar Hands-on training and International Network of Exchange (SHINE) is a Capacity Building project funded by the EU Commission that **seeks to drive the green transition and enhance energy Access in Africa**. The main objective is to deliver an innovative capacity building program in Solar Training in Africa and to co-develop curriculum updated to the local needs.

So far, SHINE has established;

- National Roadmaps on Greening TVET for the Solar Industry: Ghana, Nigeria, and Uganda
- Current Solar Energy Landscape in Africa
- Country-specific Solar Energy Landscapes in Ghana, Nigeria, and Uganda

Visit: <https://shine-project.com/>



PARADIGM



Partner Involved: Politeknika



This project established the basis for SUSTAIN-IT. PARADIGM aims to use the appropriate technological infrastructure (devices, data platforms and tools) to empower the active engagement of citizens in taking action against climate change and for sustainable development through better monitoring and observing the environment and its environmental impacts. The project developed a training course for **teachers and 12 ready-to-use project-based learning lessons as an educational resource to take different environmental measures using IoT tools and sensors**. Teacher can also connect and share resources through the Citizen Science Platform.

Visit: <https://paradigmproject.eu/>

Drones4STEM



Period: 2 years

Countries involved: Greece, Italy, Spain, Slovenia

Partner Involved: Politeknika



Drones4 STEM aims to help teachers developing engaging STEM activities using drones.

The project has developed an **online course for STEM teachers on the use of drones in the classroom** (teachers do not necessarily need to have any previous knowledge), including basic programming skills, and 3 fully functional use cases for the classroom to explore the use of drones for Smart Farming, Environmental Monitoring and Environmental Restoration.

Teachers can register and access all the materials here: [**https://drones4stem-training.eu/**](https://drones4stem-training.eu/)



AI&Sustainability



AI & SUSTAINABILITY IN VET EDUCATION

ERASMUS 2023-1-LT01-KA220-VET-000155506

Partner Involved: Politeknika

This project aims to create an AI system to train young people in the needs of the current AI market. Specifically, a complete system has been developed to enable VET teachers and students to participate in AI projects focused on solving sustainability challenges by providing a set of tools, strategies and approaches. The platform will be launched in September, accessible through the website, with a course for teachers and instructions on how to use the AI KIT (microprocessor, cameras, sensors and actuators) to carry out the AI projects.

Visit: **<https://ai-vet.eu/>**



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Circular STEM



Partner Involved: Politeknika



Circular STEM project aims to provide **STEM teachers with competences to introduce education about circular economy** by integrating it with STEM subjects, developing an interdisciplinary methodology that makes clear links between circular economy concepts and school subjects. The training contents are available [here](#) for download, and teachers can also register in the online course here:

<https://www.augstskola.lv/moodle7/course/view.php?id=2>

Visit: **<https://circularstem.eu/>**



CircuWasteVETAfrica

CircuWasteVETAfrica

Period: 2025-2026

Countries Involved: Ghana, Angola, Namibia, and Sao Tome

Partner Involved: APODISSI, MUNDUS

The CircuwasteVETAfrica project aims to transform Waste into Wealth by creating GREEN JOBS opportunities for unemployed and unskilled youth, and providing VET centres in Ghana, Angola, Namibia, and Sao Tome. It focus on developing an effective **Green Circular Waste Training Programme** aided by public-private partnerships at the local level to build cross-border knowledge equipping learners to meet industry-relevant skills

With a broad Circular Economy training programme, the project will promote Green Digital jobs, support Vocational Training Schools in the green transition, and help youth and women enter the Green job market.

Visit: <https://circuwastevetafrica.eu/>



GreenVETAfrica



Period: 2023-2024

Countries Involved: Ghana, Nigeria

Partner Involved: APODISSI, MUNDUS

GreenVETAfrica intercepts an existing gap of technical profiles, in West Africa (and in Nigeria, and Ghana in particular) where, environmental studies and technology training is offered exclusively at college/university level and no Vocational Education and Training (VET) programmes are in place to train technical profiles to fill in the green industry vacancies (private and public).

GreenVETAfrica developed capacity building for VETs providers partners of the project, and designed an **innovative green waste management and micro-entrepreneurship VET curricula** (related training materials), which are trialed with learners evaluated and improved within the project and made available, as open-source material, for all other African VET institutes (with focus on West Africa) as part of the valorization activities.



Empowering VET Trainers for Sustainable Tourism and Hospitality



Period: 2 years

Countries Involved: Spain, Italy, South Africa, Uganda, Malawi

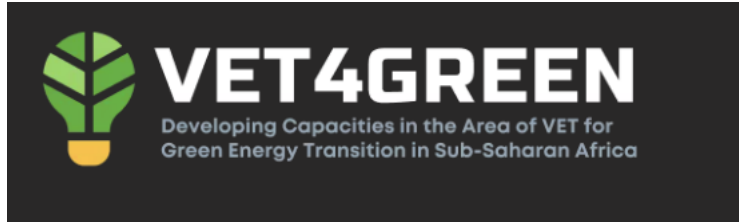
Project No: 101091437

WITH is a two-year initiative dedicated to empowering women in Sub-Saharan Africa to excel in the **tourism and hospitality industry**. It aims to boost Women Entrepreneurship Education In Tourism and Hospitality in Sub-Saharan Africa.

Visit: <https://withproject.eu/>



VET4GREEN



VET4GREEN addresses the needs of VET providers and stakeholders in the **African green energy sector**. The project aims to improve the daily work of participating African organisations by providing knowledge and capacity building.

It emphasizes the need for a wide range of technical and core skills to support an inclusive green transition in two global scenarios: energy transition and circular economy.

Visit <https://vet4green.eu/>

Exploit available educational resources



The ERASMUS+ EU-Africa VET projects represent a shared commitment to a greener future.

By integrating the outcomes of these initiatives into our local and regional practices, we can empower youth, educators, and communities to become active agents of environmental change.

Together, we can scale up solutions, promote green innovation, and support a just transition for all.



Our Project Partners



Thank you

