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SUSTaiN
AI-enhanced Vocational Education for a Sustainable Future

SUSTaiN MAGAZINE

https://sustainvet.eu/

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SUSTaiN Starter Kit

Co-funded by the European Union

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About the Project

Shaping the Future of Vocational Education and Training

We're shaping the future of vocational education and training. The SUSTaiN Project is dedicated to integrating Artificial Intelligence (AI) with sustainability across key European sectors, including **Agriculture, Energy, Water Management, and Transport**. By combining digital innovation with environmental responsibility, we aim to empower the next generation of professionals driving Europe's green transition.

Our Mission

Our mission is simple yet ambitious: **to equip VET educators, students, and industry stakeholders with the knowledge and tools needed to drive sustainable innovation through AI technologies.**

Through innovative training resources, practical learning experiences, and collaborative opportunities, SUSTaiN supports the development of a workforce ready to meet Europe's digital and ecological challenges head-on.

Empowering Educators and Learners

At SUSTaiN, we believe that education and collaboration are the foundations of positive change. That's why the project provides:

- **Accessible, sector-specific learning resources** that help educators integrate AI into their curricula.
- **Hands-on experiences** that enable students to apply AI to real sustainability challenges.
- **Industry-focused case studies and hackathons** that bridge theory and practice, giving professionals a space to experiment, innovate, and collaborate.

These tools ensure that both educators and learners can confidently bring AI-driven sustainability solutions into their classrooms, workplaces, and communities.

Collaboration at the Heart of SUSTaiN

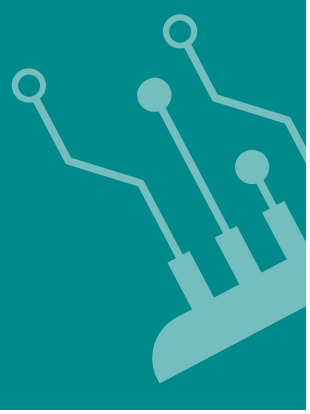
Collaboration is central to our vision. We bring together **educators, students, and industry leaders from across Europe** to share knowledge, spark innovation, and co-create solutions that address the continent's most pressing sustainability challenges.

Through this collective effort, we are shaping a workforce that is prepared not only for today's needs but for the opportunities and responsibilities of a greener, more digital future.

Join Us

Join us in building an AI-powered, sustainable future for Europe's most vital sectors.

Together, we can create lasting, meaningful change.



About us

The SUSTaiN project was born from a shared recognition between Fagskolen Rogaland (FR) and Fondazione Luigi Clerici (FLC): today's vocational education urgently needs stronger integration of artificial intelligence to prepare learners for the sustainability challenges of tomorrow. From agriculture to renewable energy, from water systems to transport, AI has the potential to reshape how we design, manage, and maintain sustainable solutions.

To address this gap, FR and FLC joined forces with Gairmeach, building on successful past collaborations and their established expertise in AI for vocational education and training (VET). Together, we created a consortium that brings together vocational colleges, specialists in digital pedagogy, and organisations deeply rooted in innovative education and sustainability training. Our consortium consists of:

VET Organizations

Fagskolen Rogaland (FR) – As the project coordinator, FR is a leading vocational institution in Norway, specialising in renewable energy, maritime, and digitalisation. With experience in projects like T-SHORE and FING, FR brings expertise in integrating AI and sustainability into education.

Fondazione Luigi Clerici (FLC) is an Italian VET provider specialising in agriculture and technology. With a focus on integrating AI into agricultural education, FLC contributes to SUSTaiN by enhancing curriculum and developing AI-driven solutions for sustainability..

The "Todor Kableshkov" University of Transport (HST) is a leading VET institution in Bulgaria, specialising in transport, logistics, and infrastructure. HST contributes to SUSTaiN by integrating AI and sustainability into vocational education for the transport sector.

Specialised Training & Research Institutes

The Food Hub is an Irish social enterprise focused on sustainable agriculture and food innovation. With expertise in AI and climate action, it enhances the SUSTaiN project by integrating AI and AR/VR technologies into agricultural training.

Olemisen Balanssia ry (OBR) is a Finnish nonprofit focused on research, educational improvement, and skill development. With expertise in experiential learning and digital pedagogies, OBR contributes to SUSTaiN by designing engaging, flexible AI training resources.

AI and digital training

Gairmeach Training Ltd. is a leader in integrating AI and digital solutions into vocational and continuing education. Based in Dublin, Gairmeach supports SUSTaiN by developing AI-enhanced training resources and providing expert advice on digital pedagogies.

TPM in Irleland

SUSTaiN Project Kicks Off First Transnational Meeting in Ireland

The SUSTaiN consortium held its first Transnational Project Meeting on 18–19 November 2024 in Carrick-on-Shannon, hosted by The Food Hub in Drumshanbo. This was the first opportunity for all partners to meet in person and align on the project's goals of integrating AI into sustainability-focused VET education.

Day 1 Highlights

Partners began with a welcome session and an overview of the project's ambition. The morning focused on **Work Package 2**, including methodology review, an introduction to foundational AI and machine learning (Gairmeach), and case study development led by The Food Hub.

After lunch, Olemisen presented guidance on **digital tool selection**, supporting partners in choosing effective AI-related tools for VET settings. The day concluded with a tour of **The Shed Distillery** and a partner dinner in Carrick-on-Shannon.

Day 2 Highlights

The second day opened with a recap before moving into sessions on **pilot testing** (Gairmeach), planning for **Orientation Day** (FR), and a **brand selection workshop**. Fondazione Luigi Clerici then led a discussion on dissemination strategies to ensure the project reaches teachers, students, and stakeholders across Europe.

The meeting closed with project management updates and next steps.

A Promising Start

The first TPM successfully **strengthened collaboration, clarified priorities, and set a solid foundation** for developing AI-enhanced sustainability training across VET institutions. The consortium now moves forward with a shared vision and strong momentum.

The SUSTaiN Starter Kit

During the first months of the project the consortium developed the SUSTaiN Starter Kit which supports vocational education and training (VET) educators in understanding and applying Artificial Intelligence (AI) as a driver of sustainability and innovation.

This three-part resource package introduces the fundamental concepts of AI, showcases real examples from industries of Energy, Water, Agriculture and Transport, and provides hands-on tools that educators can use directly in their classrooms or training programmes.
Together, these resources help educators and learners explore how AI can make production and service systems more efficient, resilient, and environmentally responsible, preparing the workforce for Europe's green and digital transitions. The SUSaiN Starter Kit includes:

Part 1 – Foundational AI & Machine Learning Overview
A beginner-friendly introduction to what AI and machine learning are, how they differ, and how systems use data, algorithms, and neural networks to learn from examples and make predictions that support decisions. It links AI to sustainability in VET (agriculture, water, energy, transport) and flags key risks and duties and the environmental footprint of AI, with practical ways to reduce it.

Part 2 – Case Study Compendium
This section presents a collection of real-world examples showing how AI is already transforming key sectors – agriculture, water management, energy, and transport.

Part 3 – Digital Toolkit
The Toolkit provides a practical selection of 11 AI-powered tools and applications that educators can integrate into sustainability-focused teaching and learning.

SUSTaiN

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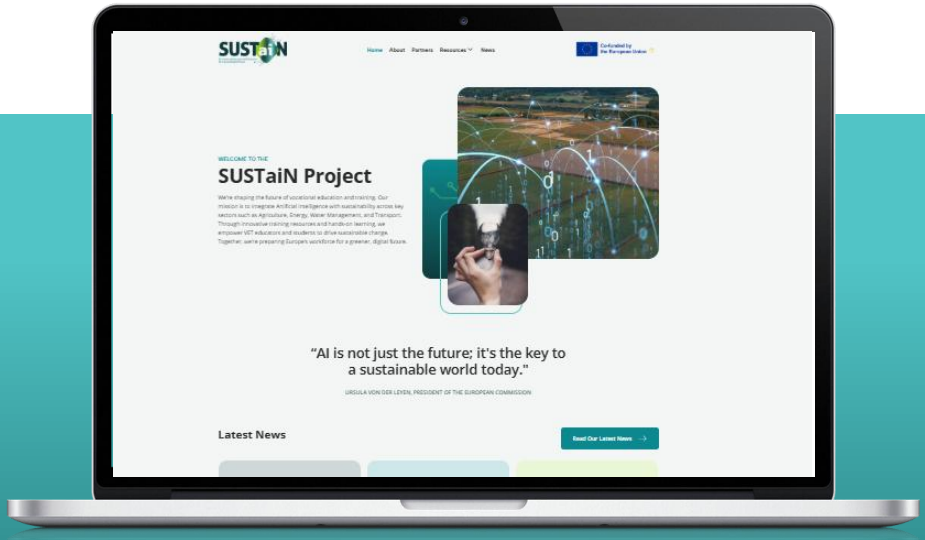

"When artificial intelligence learns from nature rather than replacing it, innovation becomes a path to a more sustainable future."

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follow our journey

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