

# Green Skills and Sustainability for Greener European Vocational Education and Training

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# Outline

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- Introduction to sustainability and green transition
- Project “GREEN - Greener European VET Network”
- Key occupations and skills for the green transition
- The new “Green VET Network” – [greenvetnetwork.eu](https://greenvetnetwork.eu)
- The “GREEN VET Stamp”
- Summary

# Sustainable Development Goals (SDGs) - United Nation



## ➤ Social Goals



## ➤ Economical Goals



## ➤ Environmental Goals

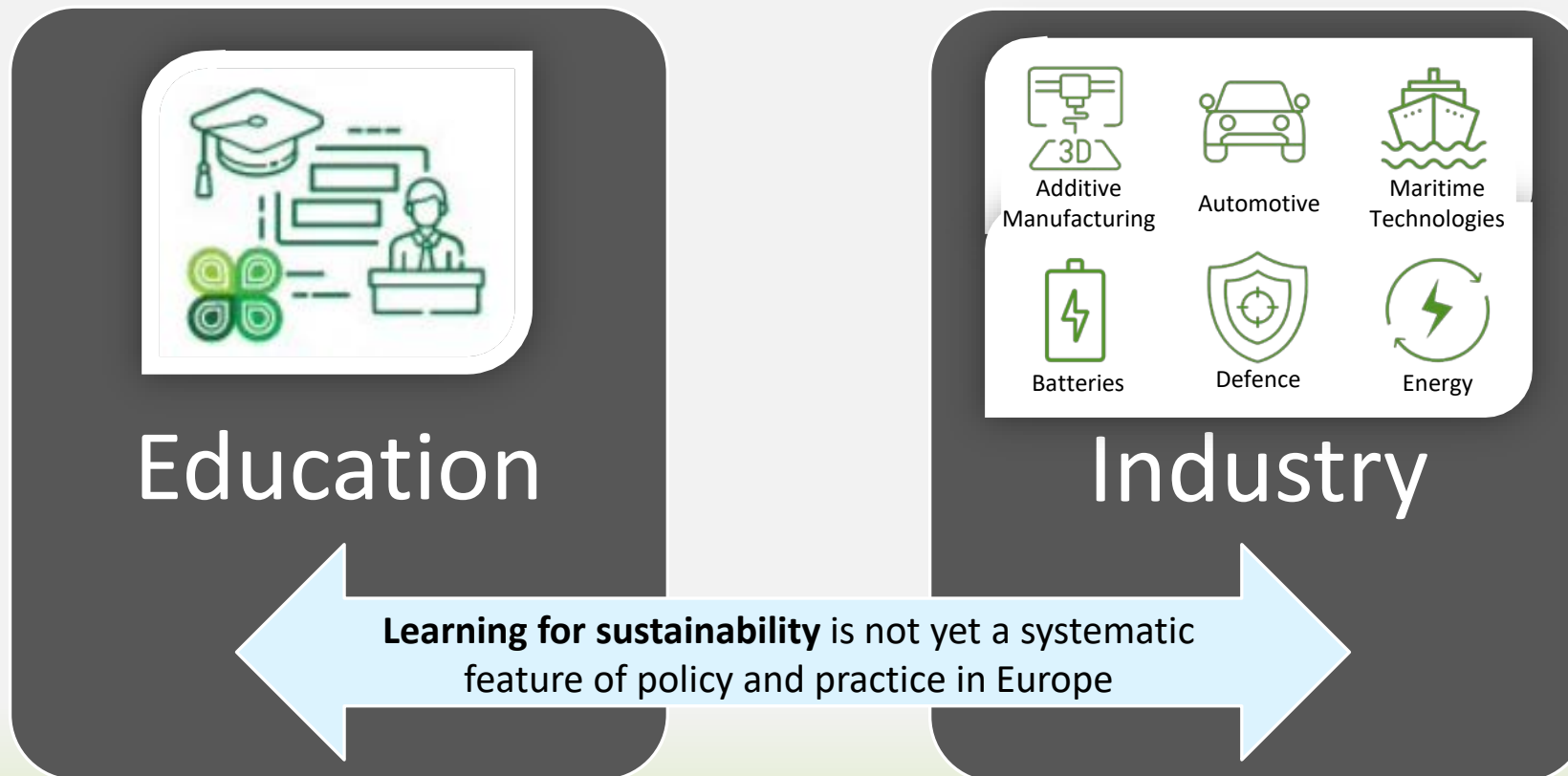


# How Education and Training Impact SDGs

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- Education and Training for Sustainable Development
  - Embedding sustainability in the curriculum to foster awareness and understanding of global issues.
  - Promoting green skills such as critical thinking, problem-solving, ethical reasoning, and digital skills.
- Research Contribution
  - Conduct research to address various SDGs, from clean energy solutions to social equity.
  - Research output to influence policy and drive innovation in sustainable practices.
- Community Engagement
  - Education and training institutions work with local communities to implement sustainable practices and solutions.
  - These collaborations can address immediate needs and contribute to long-term sustainable development goals.

# Project “GREEN - Greener European VET Network”



# GREEN Project - Objectives and Activities

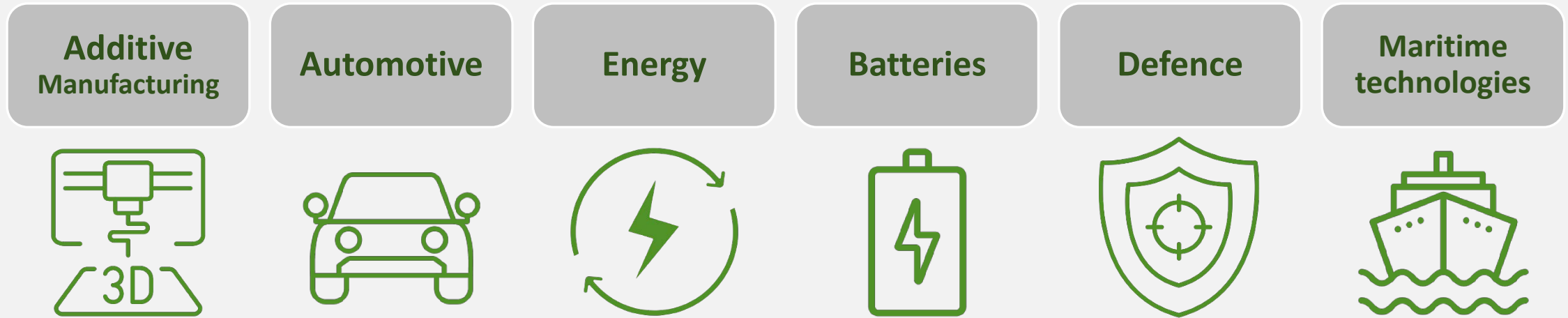
## Objectives:

- Identify, develop, test and assess **innovative policy approaches for a “Greener” education and training** that have the potential to become **mainstreamed across systems (VET and HE), countries and contexts**
- **Improve education and training systems**
- Improve **effectiveness of policies and practices** in the field of education and training within 6 industrial sectors

## Activities:



# Key Occupations and Skills for the Green Transition



Key occupations and skills in six industrial sectors are listed in the following OCCUPATIONAL GROUPS:

- Engineers
- Designers
- Researchers
- Managers

# ESCO Skills Labeling

- European Classification of Occupations, Skills and Competences (ESCO)

Group Color	Definition – by the ESCO team	Example (source)
Green	Knowledge and skills which reduce the negative impact of human activity on the environment	Cogeneration of heat/cool and power from geothermal energy (EU Taxonomy for Sustainable Activities)
White	Knowledge and skills which do not increase nor reduce the negative impact of human activity on the environment	Test computer or software performance (Australian Skills Classification)
Brown	Knowledge and skills which increase the negative impact of human activity on the environment	Production of electricity by coal (International Labor Organization, Skills for a Greener Future)

Green skills are defined as “the knowledge, abilities, values and attitudes needed to live in, develop and support a sustainable and resource-efficient society” (Cedefop - European Centre for the Development of Vocational Training)

# Curriculum Development and Train the Trainers

## Key steps

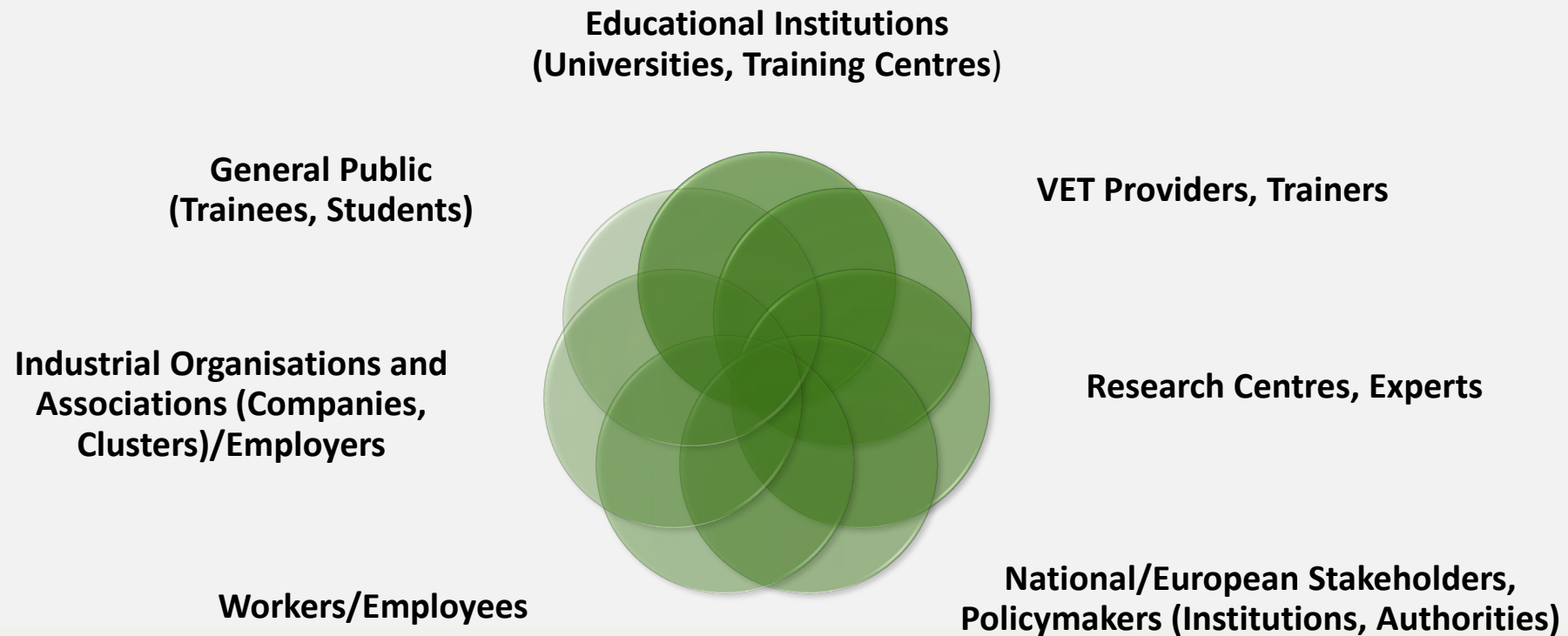
- A. **Organizing Content – Modular Approach:**  
Flexible skill-based learning structures.
- B. **Methodological Frameworks:**  
Apply competency-based, project-oriented teaching strategies.
- C. **Content Development:**  
Create industry-driven learning materials and case studies.

## Green and sustainability approach in education

	Traditional Approach	Sustainability focused approach
Institutional Goals	Emphasizes academic excellence and knowledge advancement within specific disciplines.	Aims to address complex, real-world problems through interdisciplinary collaboration and practical solutions.
Educational Objectives	Focuses on developing subject-specific expertise and theoretical understanding.	Seeks to cultivate systems thinking, ethical awareness, and the ability to apply knowledge to sustainability challenges, builds skills.
Teaching Methods	Predominantly lecture-based, with an emphasis on individual learning and assessment.	Utilizes experiential learning, collaborative projects, and community engagement to foster practical skills and teamwork.
Curriculum Design	Structured around disciplinary boundaries, with a focus on foundational theories and methodologies.	Integrates multiple disciplines, emphasizing holistic understanding and the application of knowledge to sustainable development.

# Target Group and Stakeholders

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# The new “Green VET Network”

European Network of Vocational Education and Training Providers

**DEVELOPING GREEN SKILLS FOR:**

**AUTOMOTIVE**

**ENERGY**

**BATTERIES**

**DEFENCE**

**MARITIME**

**ADDITIVE  
MANUFACTURING**

**PARTNERS**

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**@NetworkVet**

**@GREEN VET Network**

**www.greenvetnetwork.eu**

the Greener European VET Network

**WE ARE THE GREENER**

**EUROPEAN VET NETWORK**

OBJECTIVES

- Identify and define** the labour market skills for the green transition in six critical industrial sectors.
- Develop, test and assess** innovative training solutions among trainees and workforce and integrate the green skills into the Vocational Education and Training (VET) and Higher Education (HE) curriculum.
- Award a "green" label** to national training organizations as valued members of the GREEN European Network.

ABOUT US

The GREEN project aims to Establish a pan-European VET network with large representation from **Education** and **Industry** to mainstream innovative policy approaches for a “Greener” education and training, thus equipping the European workforce with the necessary green competencies.

# The new “Green VET Network” - European Network of Vocational Education and Training Providers

The **GREEN VET Network** is an initiative under the GREEN Project aimed at promoting sustainability-focused education across Europe.

It connects **Vocational Education and Training (VET) providers** committed to integrating green skills into their curricula to support the **green transition** of the European workforce.

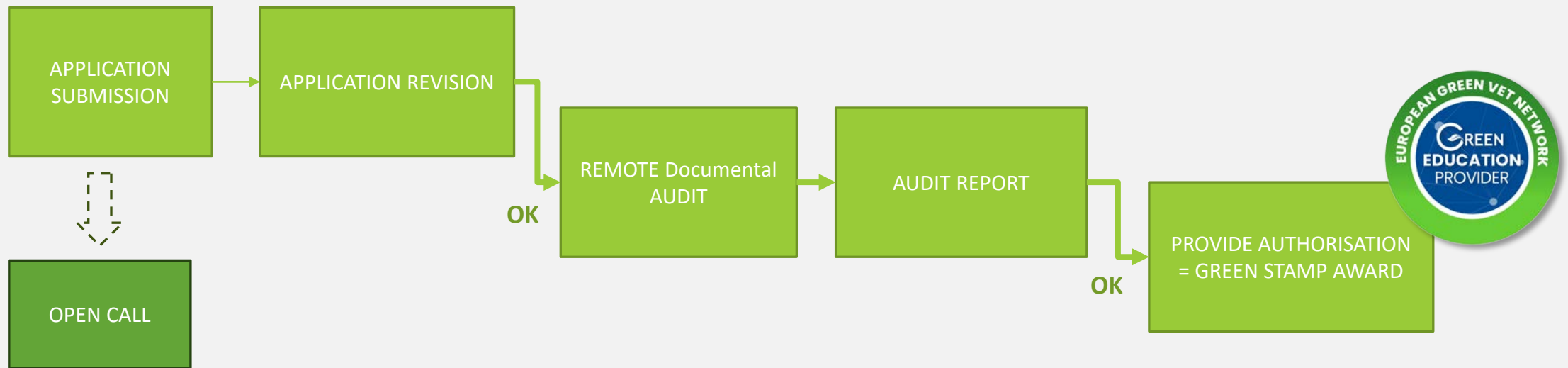
**Foster Collaboration:** Build partnerships between VET providers, industry and policymakers.

**Promote Best Practices:** Share effective methods for green education and training.

**Certification:** Implement the Green Education Provider Label to recognise leaders in green training.

**Ensure Quality:** Make green education high-quality and accessible

# The “GREEN VET Stamp” Awarding



- ✓ VET providers based in Europe
- ✓ Education provider in the scope of manufacturing
- ✓ To deliver training for 3-7 EQF levels

**Green Label award is a recognition given by the Green VET Network in compliance with at least one best practice in the following criteria:**

- Commitment to Sustainability
- Stakeholder Collaboration
- Innovative Training Methods
- Curriculum Standards
- Green Infrastructure
- Monitoring and Assessment

# Summary

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- The GREEN Project identified national and EU approaches and listed key occupations and green skills in six industrial sectors: additive manufacturing, automotive, battery, defense, energy, and maritime. They are integrated into the VET curricula as well as the training of teachers and trainers.
- The brand-new Green VET Network, “European Network of Vocational Education and Training Providers” (greenvetnetwork.eu), is founded and opens for applications.
- The network will gather the needs and best practices from different perspectives to ensure that industries not only keep pace with the green transition but lead in sustainable innovation and production processes.
- The “GREEN VET Stamp” is awarded by the Green VET Network to those that meet the established green criteria set by the network.
- The Network appeals for the green transition not only to the EU but also be the frontrunners to drive real changes in industry and policy worldwide.

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# THANK YOU FOR YOUR ATTENTION!

[WWW.GREENVETNETWORK.EU](http://WWW.GREENVETNETWORK.EU)

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We invite collaborations with all VET providers around the world.

Please join the “**Green VET Network**” or visit the website for more information.