





## Agenda

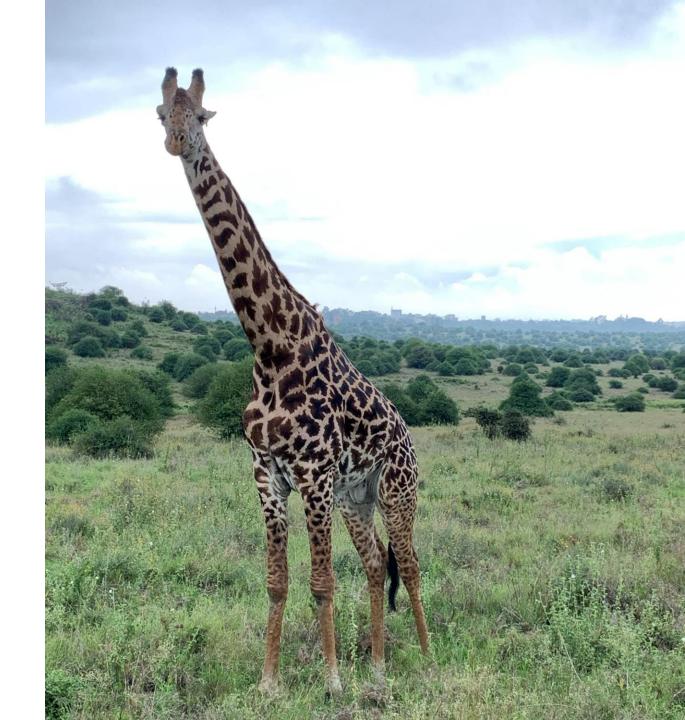
- Introduction & Warm-up
- Project in a nutshell
- Testing selected elements of the toolkit
- Q&A







# Introduction & Warm-up







# Thumbs up / Thumbs down

- "Sustainability equals recycling"
- "We Finns have a special relationship with nature, so all is well"
- "Social sustainability = welfare services"
- "Sustainable development is too expensive"
- "A sustainable economy is slow and hinders competitiveness"







## Kenyan TVET Goes Green Project Overview

#### Goal:

To strengthen the capacity of Kenya's Technical and Vocational Education and Training (TVET) institutions to **integrate sustainability** into their teaching, curricula, and institutional practices.

#### **Key Actions:**

- **1.** Develop **sustainability-focused curricula** aligned with occupational standards.
- **2. Empower teachers & authorities** to promote inclusive, market-relevant sustainability skills.

#### **Pilot Institutions & Fields:**

Masai National Polytechnic – *Civil Engineering* Thika TTI – *Automotive Engineering* Kasarani TVC – *Welding* 







### **Project timeline**

#### KICK-OFF MEETING IN HAMK FEB 2025

9 participants from TTI's, CDACC, SDTVET & GIZ benchmark the Finnish best practices

#### CURRICULA DESIGN APR 2025

Curriculum Module for 3 vocational fields with CDACC & TTI experts, 3 days workshop each in Kenya

#### TVET TEACHER TRAINING SEP 2025

3 days in Kenya for each new curriculum

#### TOOLKIT PREPATION OCT-NOV 2025

Guidelines for CDACC & SDTVET & KSTVET online + onsite in Nairobi

#### ACTION PLAN DESIGN WITH CDACC NOV 2025

1-day workshop in Nairobi

#### FINAL SEMINAR IN KENYA NOV 2025

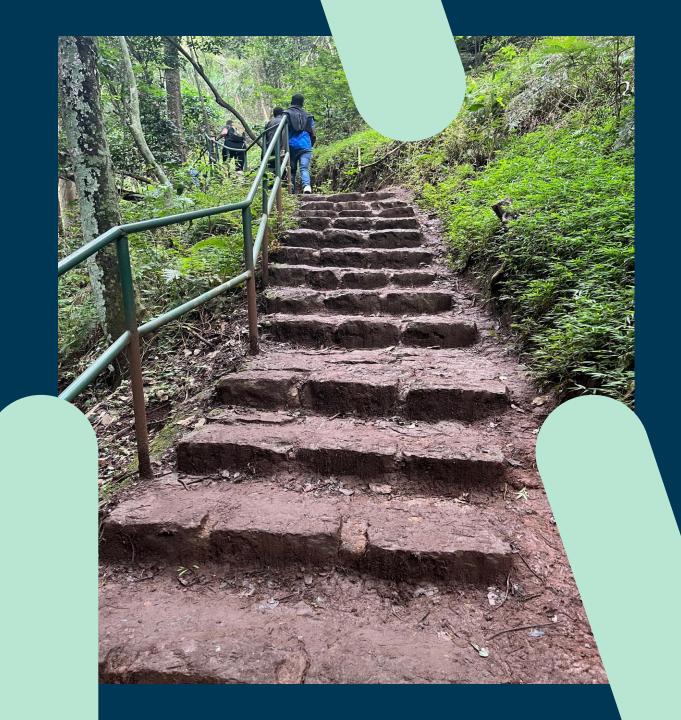
Showcasing best practices

 a RESEARCH ARTICLE on the role of indigenous knowledge and local communities in promoting sustainable TVET in Kenya.





Testing the elements of the toolkit

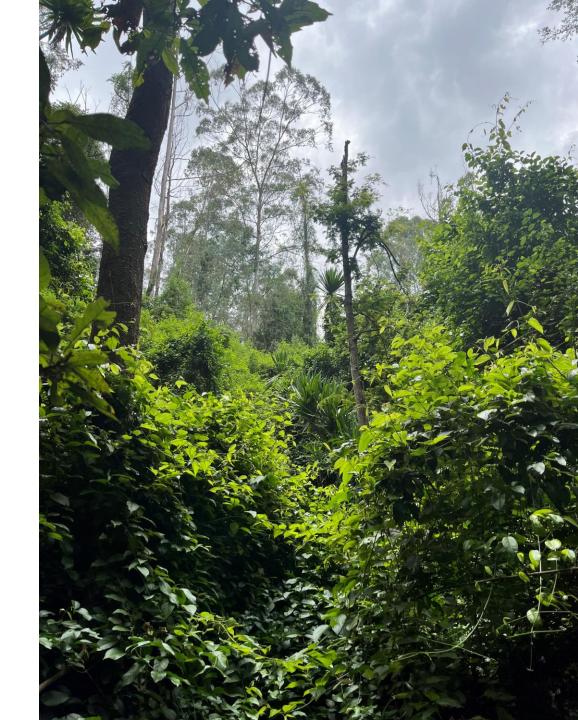






### Step 1

- Identifying what 'greening' means in different disciplines.
- Increasing common knowledge about three dimensions of sustainable development (Environmental, Economic, Social) and United Nation's SDG
- Considering and reflecting, with the help of Al how could the SDGs be integrated into the TVET curricula and core work tasks in Kenya?
- Working in small groups and co-creating
- As a result, the participants learn SDGs and new perspectives on their relation to the curriculum







### Step 2

- Identifying and recognising the knowledge, skills, and attitudes required to incorporate sustainable development practices into the curriculum
  - Defining and creating a shared understanding of what supports/hinders implementing SDGs in the selected curriculum
  - Working in small groups to create shared understanding
  - As a result, the participants learn what knowledge, skills, attitudes and values are helpful in the successful implementation of SDGs in the curriculum and practice.







## Step 3

- Translate the identified knowledge, skills, and attitudes into students' learning outcomes applicable to the curriculum.
  - > Formulating sustainable development and the related knowledge, skills, and attitudes into learning objectives
  - Integrating learning objectives into existing curriculum alignment with other learning objectives
- As a result, the curriculum has been updated with the SDGs







### **Group work**

- Each group work with a piece of curriculum
- Discover with the help of AI in what way should the selected
   SDG be incorporated in curriculum
- Discuss about the knowledge and attitudes supporting and/or hindering the implementation

Curriculum: Automotive engineering, Level 6

Country: Zambia

SDG 6: Clean water and sanitation

Al: "In what way should the goal of 'Clean Water and Sanitation' (SDG 6) be incorporated into the automotive engineering curriculum at a Zambian TVET institution?"

#### Performing vehicle basic maintenance

Learning Outcome	Content	Suggested Assessment Methods	
Service vehicle     lubrication system	Diagnosing vehicle lubrication system     Replacing Engine     transmission and hydraulic filters	Practical     Oral     Observation	
	Greasing vehicle components     Testing lubrication system pressure	Written	

Our addition	to the curriculu	m: "Student is	able to		
We found the	e following know	ledge, attitude	es and values	essential:	





## Spot and seam resistance welding:

Set up spot equipment and materials

#### **Before:**

- Observation of health and safety in spot welding
- Interpretation of working drawing
- Selection of materials, tools and equipment

#### After:

- Set up spot welding equipment and materials efficiently to minimize energy consumption and material waste, ensuring proper maintenance for longer equipment lifespan.
- Observe health, safety, and environmental protection standards in spot welding operations to safeguard workers and reduce pollution.
- Interpret working drawings accurately to optimize material use and minimize offcuts or rework.



# Closing the Workshop







## Thank you!

ulla-maija.knuutti@hamk.fi sanna.ryokkynen@hamk.fi jelena.santalainen@hamk.fi

Häme University
of Applied Sciences
www.hamk.fi

