Tech 4 Good Challenge 2025

Concept Briefing

ViTrox

UTAR
UNIVERSITI TUNKU ABDUL RAHMAN

Tech 4 Good Challenge 2025

Agenda

1. Competition Overview
2. Timeline
3. Registration
4. Awards and Prizes
5. Overview of Tracks
6. Tips for You
7. QnA

Tech 4 Good 2025 Challenge

T4G Overview

A national-level invention competition in Malaysia since 2023.

Organized By: ViTrox, UTAR (Universiti Tunku Abdul Rahman), ViTrox Academy

Co-Sponsored By: Cytron Technologies

- Develop practical experience in applying engineering, technology, and science knowledge through prototype building.
- Gain Certificates and Medals which add valuable credentials to your academic profile.
- Receive mentorship and invaluable guidance from industry engineers (coaches) to refine your prototype. *Category 1 (Secondary School)*
- Stand a chance to secure award scholarship to further tertiary education at ViTrox College. *Category 1 (Secondary School)*

As of 2024, nearly 700 participants from East and West Malaysia have participated in T4G.

64.2% Secondary School Students

35.8% Tertiary School Students

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Timeline

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Registration & Proposal Submission Period

15th Jan 2025 - 15th March 2025

Evaluation Period

16th March 2025

Finalist Announcement

12th April 2025

Workshops

May - June 2025

Grand Finale

26th July 2025

Physical at ViTrox Campus 2.0, Batu Kawan Penang

Latest by 11.59PM, 14 March 2025

- Registration Link & Proposal Submission Link are **different**, refer WEBSITE

Registration Google Form

Could you let us know which topic you would prefer to focus on in the workshop? *

You may choose more than one.

- [ ] AI
- [ ] Machine Vision
- [ ] IoT
- [ ] Robotic and Automation
- [ ] Mobile Application

If you have a different preference for the workshop topic, please specify.

Your answer

Which workshop venue do you prefer? *

You can choose more than one.

- [ ] Physical in ViTrox (Batu Kawan, Penang)
- [ ] Physical in UTAR (Kampar, Perak)
- [ ] Both physical venues are acceptable
- [ ] Virtual

Indicate your preferences

Please note that the workshops selected are NOT guaranteed.
Final workshop arrangement will be announced to Finalists later.

Registration

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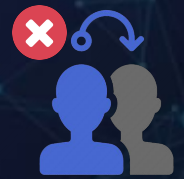
If I'm graduated from secondary school, waiting to be enrolled to college / university?

CATEGORY 1	Secondary School	SPM : Form 1 to Form 5 IGCSE: Year 8 to Year 11 UEC : Junior & Senior High 1,2,3
CATEGORY 2	Tertiary School	Undergraduate, including STPM, A-level and Foundation

1) Registration & Submission Period: 15 January 2025 to 15 March 2025 (latest by 11.59PM, 14 March 2025)

2) Each team must consist of **THREE (3)** students.

- Each student can register for only ONE (1) team.
- Each team can register for only ONE (1) track.
- There is no limit on the number of teams a school can register.
- Registered team is not allowed to change the group members after proposal submission.



3) No registration fee is required.

4) Language: English or Bahasa Melayu

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Awards & Prizes

PARTICIPANT	Successfully submitted proposal	Certificate of Participation
FINALIST	Top 8 teams from each track who entered Grand Finale	Certificate of Achievement
WINNER	Top 3 teams from each track	Certificate of Winner + Medal

Each track have Champion, First Runner-up and Second Runner-up respectively.

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Awards & Prizes

ViTrox College STEM Excellence Award

Sponsored by ViTrox College, **Category 1 winners** will be awarded the ViTrox College STEM Excellence Award, an award scholarship **to honor and recognize outstanding talents in Science, Technology, Engineering, and Mathematics (STEM).**

VITROX COLLEGE

Tuition fee waiver (scholarship) for INDIVIDUAL. **Not cash award.**

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Track overview

Agriculture 	Artificial Intelligence (AI) 
Healthcare 	Machine Vision 
Manufacturing 	Internet of Things (IoT) 
	Robotic & Automation 
	Mobile Application 

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Track overview

Agriculture	 Food Security  Climate Change  Limited Resource
Healthcare	 Sustainability  Productivity  Resource Efficiency
Manufacturing	

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Track overview

Agriculture

Healthcare

Manufacturing

Aging Population

Rising Costs

Unequal access to quality care

Improve Accessibility

Enhance Affordability

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Track overview

Agriculture

Healthcare

Manufacturing

Supply Chain Disruptions

Inefficient Use of Resources

Increasing Demands for Sustainability

Enhance Productivity

Minimize Environmental Impact

Improve Cost-efficiency

Agriculture

Artificial Intelligence (AI) & Machine Vision

- Precision Farming
- Yield Prediction
- Agricultural Chatbots
- Crop Quality Analysis
- Pests and disease early detection
- Fruits grading and sorting system

Agriculture

Internet of Things (IoT)

- Environmental Sensors
- Soil Monitoring
- Smart Irrigation Systems
- Livestock Monitoring

Agriculture

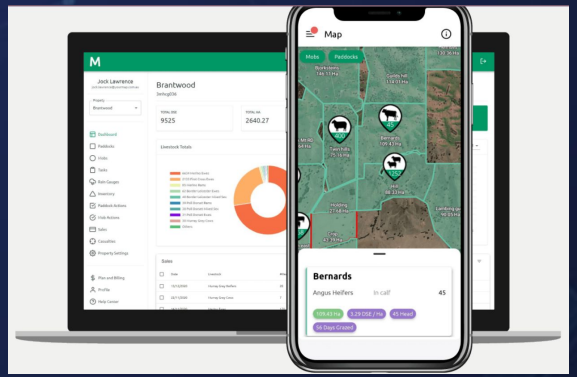
Robotic & Automation

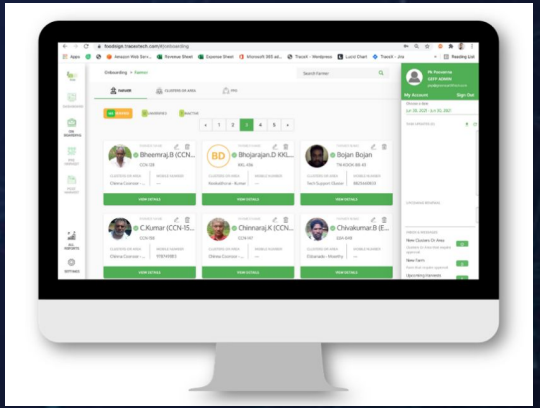
- Autonomous Tractors
- Fruit Picking Robots
- Transplanter
- Sprayer

Agriculture

Mobile Application

- Farm management Apps
- Drone Control Apps
- Market Connection Platforms

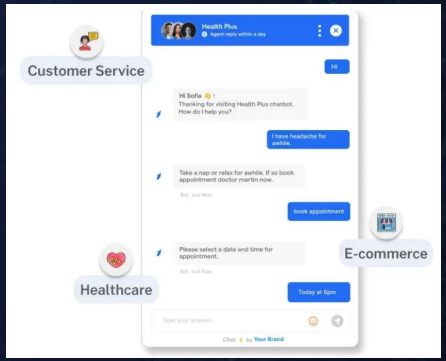




Healthcare

Artificial Intelligence (AI) & Machine Vision

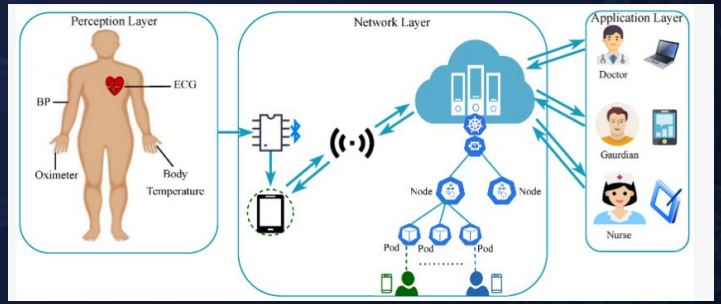
- Disease Diagnosis
- Virtual Health Assistants
- Predictive Analytics
- Medical Imaging
- Skin Cancer Detection
- Surgical Assistance



Healthcare

Internet of Things (IoT)

- Wearable Health Devices
- Remote Patient Monitoring
- Smart Hospital Beds



Healthcare

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Robotic & Automation

- Healthcare Assistance
- Robotic Surgery
- Rehabilitation Robots
- Healthcare Administration

Healthcare

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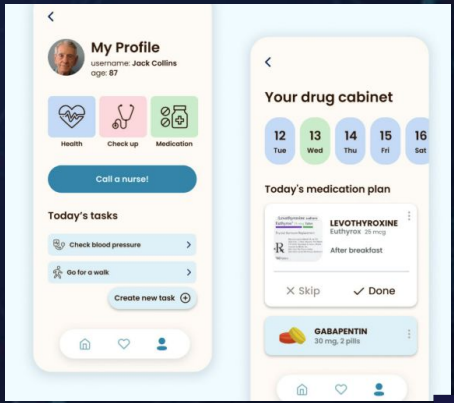
Mobile Application

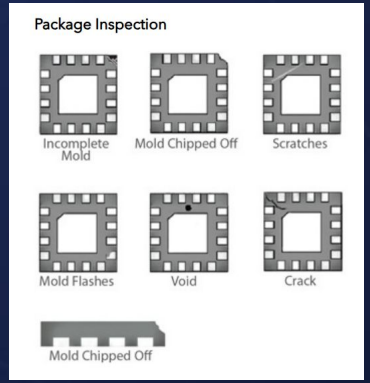
- Telemedicine Apps
- Health Tracking Apps
- Medication Reminder Apps

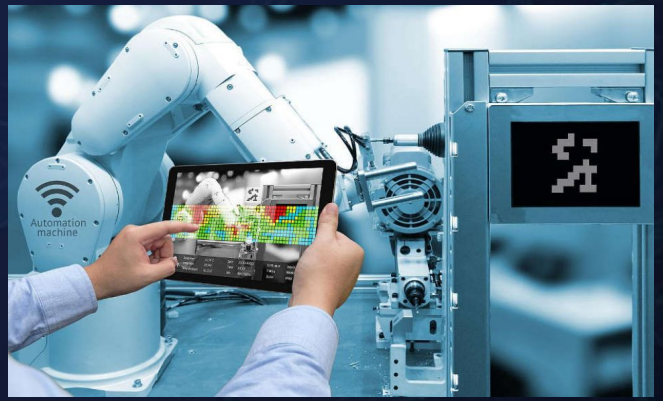


Manufacturing

Artificial Intelligence (AI) & Machine Vision

- Energy Optimization
- Predictive Maintenance
- Quality Control
- Demand Forecasting
- Assembly Line Inspection
- Surface Inspection

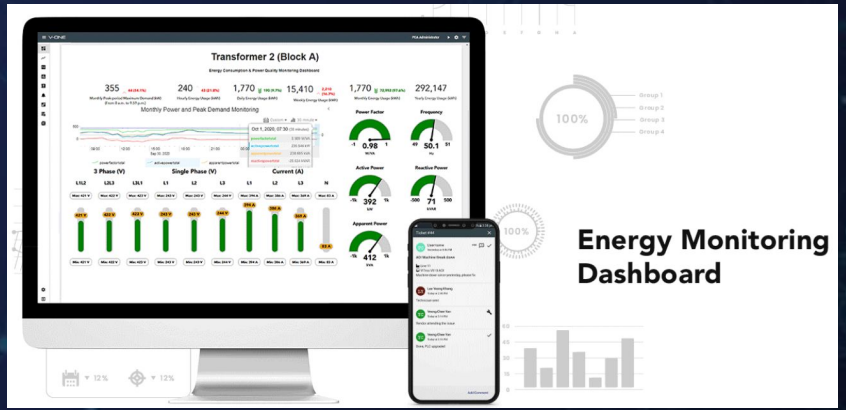




Manufacturing

Internet of Things (IoT)

- Smart Factories
- Asset Tracking
- Energy Monitoring



Manufacturing

Robotic & Automation

- Collaborative Robots (Cobots)
- Automated Material Handling

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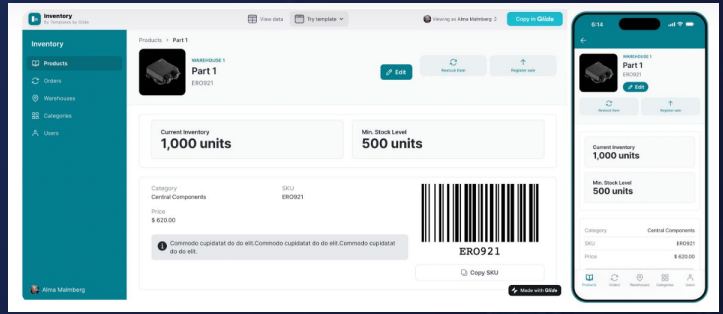
Manufacturing

Mobile Application

- Factory Monitoring Apps
- Inventory Management Apps
- Remote Equipment Control



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QnA Session

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How to start?

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Tips for you!

1. Research the Track and Technology You Wish to Explore
2. Find Real-World Cases for Deeper Understanding
3. Analyze the Pros and Cons of Existing Technology
4. Collaborate and Ideate with Your Team
5. Understand the End-User Perspective
6. Focus on Innovation and Creativity
7. Write and Submit a Comprehensive Proposal

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Tips for you!

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You can obtain the Evaluation Rubric in the Info Pack page 8

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Tips for you!

Find your team members and register first!

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Tips for you!

1)Research the Track and Technology You Wish to Explore

Tips for you!

2)Find Real-World Cases for Deeper Understanding

Tips for you!

3)Analyze the Pros and Cons of Existing Technology

Strengths

Weaknesses

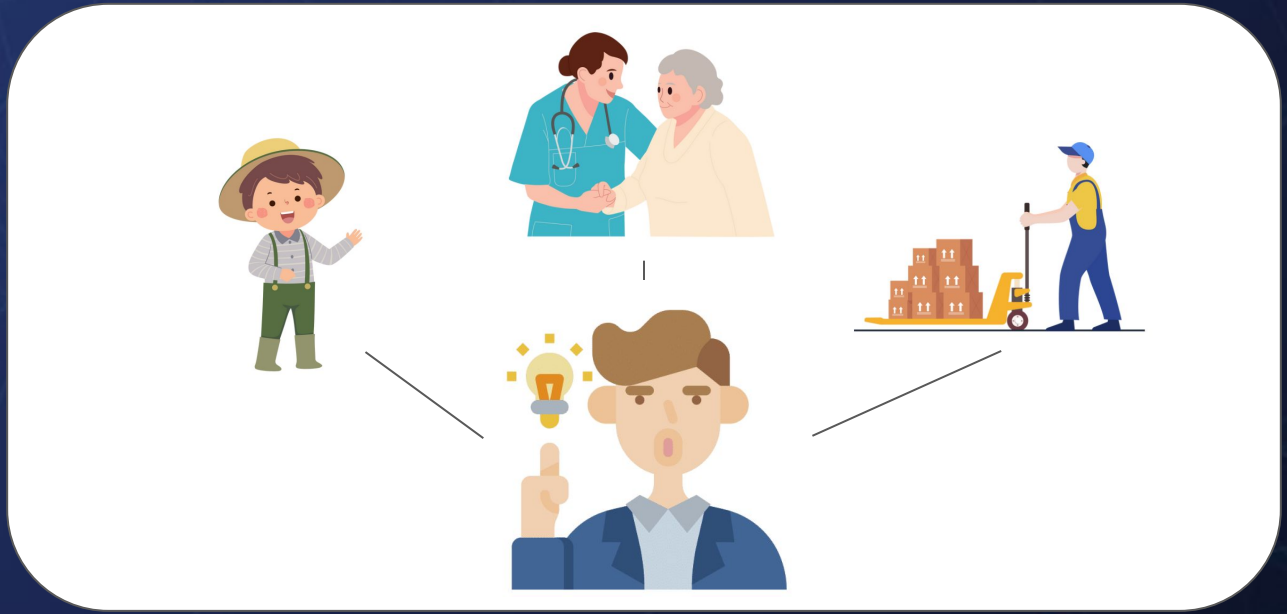
Tips for you!

4) Collaborate and Ideate with Your Team

- Productivity
- Cost
- Manpower
- Efficiency
- Sustainability

Tips for you!

5)Understand the End-User Perspective



Tips for you!

6)Focus on Innovation and Creativity

Tips for you!

7)Write and Submit a Comprehensive Proposal

1. Introduction
2. Background Studies
3. Aim and Objectives
4. Methodology

REC Tips for you!

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Recorded session will be put inside our website, if you got any extra questions can proceed to contact us, but before that do download the Info Pack in the website and read it through first.

26 DAYS TO DEADLINE

SCAN ME

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See you and All the best!

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