

Template for Evidence(s) UI GreenMetric Questionnaire

University : Gebze Technical University
Country : Türkiye
Web Address : www.gtu.edu.tr

[6] Education and Research (ED)

[17] Number of sustainability-related startups

Startup Name: Ipm Soft Information Technologies

Startup Area:Software

Url: <https://ipmsoft.com.tr>

Description: Developing software that operates in a web environment to integrate all stages from R&D to material requirement planning with minimal data input, specifically for companies engaged in project-based machine manufacturing.

Startup Name: Agate Technology Joint Stock Company

Startup Area: Agriculture

Description: Within the scope of the project, temperature, humidity, and pressure data of the environment will be collected. Machine learning algorithms will be used with the collected data to make temperature and humidity predictions for the next few hours. The predictions will enable local planning at a micro-scale level.

Startup Name: Arotech Technology Joint Stock Company

Startup Area:Machinery and Equipment Manufacturing

Description: With the aim of increasing production levels, quantities, quality control tracking, and more efficient utilization of skilled labor within the industry in line with the development of the manufacturing industry, the goal is to create an industrial robot-supported plug-and-play product for CNC and PLC-controlled machines, which are crucial production tools in the manufacturing industry.

Startup Name: Binafert Biotechnology Agriculture and Software Inc.

Startup Area:Agriculture

Description: Our project aims to produce encapsulated organic and organomineral fertilizer formulations using locally synthesized polymers, leveraging the technology of synthesizing polymers from locally sourced organic materials and essential elements for agriculture.

Startup Name: Byr Kimya Aritma San.Tic.Ltd.Sti.

Startup Area:Agriculture

Url: <https://www.byrkimya.com>

Description: Our project aims to investigate the optimal conditions for hydrodynamic cavitation method under different conditions to produce propolis with the most effective contents.

Startup Name: Envis Software Technologies Joint Stock Company

Startup Area:Software

Url: <http://www.envis.com.tr>

Description: Envis company was established with the aim of designing and developing smart cameras with embedded image processing capabilities.

Startup Name: Ersay Information Technologies

Startup Area:Software

Description: With the web-based system we are developing, we aim to streamline and model processes in the production and service sectors and identify possible cost scenarios. For the production sector, we will be collecting

processes from embedded software in the circuit boards of devices in the production field, storing the data, and conducting analytical studies to ultimately generate reports on the realized performance.

Startup Name: GÖKBEY Technology R&D Innovation Consultancy Production Industry and Trade Inc.

Startup Area: Software

Url: <https://www.gokbeyteknoloji.com>

Description: Within the scope of the project, we aim to support agricultural drones with our artificial intelligence software, enabling these drones to perform various tasks. With this software, drones will be able to perform tasks such as plant health analysis, mapping, and spraying all in one. Through the integrated artificial intelligence software and image processing technology to be transferred to agricultural drones, effective spraying and fertilization can be carried out based on real-time data.

Startup Name: Hazerfen Chemical Material and Energy Technologies Industry Trade Inc.

Startup Area: Energy

Url: <https://www.hazerfen.com.tr>

Description: Within the scope of the project, energy-storing textiles will be developed by combining carbon nanotube fiber-based anode and silver-coated polyester yarn-based cathode with PEO electrolyte.

Startup Name: IDD R&D Innovation Engineering Industry and Trade Limited Company

Startup Area: Software

Description: Within the scope of the project, a simulation software will be developed to model the motor geometry, water cooling system, and speed-temperature relationship of electric buses in the TEKNOPARK.

Startup Name: INTELSCIENCE Software Technologies Inc.

Startup Area: Software

Url: <https://intelscience.io>

Description: The aim of the project is to perform error detection and classification of panels on the production line based on their quality using image processing methods. The developed output is planned to be applicable in the factories of the manufacturing sector, where our company has many customers.

Startup Name: SAYAR Organic Biological Products Manufacturing Industry and Trade Limited Company

Startup Area: Health

Url: <https://emipure.com.tr>

Description: In our project, various combinations of bacterial strains showing probiotic properties and obtained from different sources will be characterized, and a stable product formulation will be developed, aiming to obtain a high-value product with increased probiotic effect.

Startup Name: Semai Aviation Research and Development Advanced Engineering Industry Trade Limited Company

Startup Area: Aviation

Url: <https://semai.com.tr/tr>

Description: This project aims to develop a reliable, safe, durable, and user-friendly computer interface for an engine test dynamometer for propulsion system designers and engineers working in aircraft manufacturing companies to make better design decisions and perform performance and efficiency measurements of propulsion systems, allowing them to test experimentally. The goal is to introduce this engine test dynamometer to the aviation industry in Turkey and worldwide.

Startup Name: Tech2Biology Industrial Automation Technologies Inc.

Startup Area: Electronics

Description: The goal of this project is to create smart greenhouse and beehive systems with low cost, easy accessibility, eco-friendly, and artificial intelligence-based modular structures using local and national software.

Startup Name: TENERGİ Energy Technologies Inc.

Startup Area: Energy

Description: In this project, high-performance, lightweight, comfortable, flexible, and highly efficient capacitive conductive yarn electrodes will be developed for wearable electronics (smart textile

applications). The project consists of three stages. Firstly, an original graphene-based conductive ink will be developed. Then, the developed conductive ink will be coated onto silver-coated polyester yarn using a dip-coating method. Finally, a unique coating technique will be developed to improve the fiber-coating interface properties of the graphene-based conductive ink coated yarn.

Description: There are a total of 15 startups related to sustainability. Some startups do not have a website, and the existing websites have been shared.