

AI-powered certification & traceability

Empowering Certification and Traceability for Sustainable Agriculture

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Context

The current standards and certification system in Vietnam, especially in agriculture, face significant challenges. These include time-consuming procedures, high costs, lack of alignment with international norms, inadequate traceability and transparency, limited technological integration, among others. These issues not only result in inefficiencies and heightened costs for farmers but also impede Vietnam’s ability to enter and compete in global markets effectively. The reliance on manual processes exacerbates these problems, necessitating an urgent shift towards a more streamlined, technologically advanced, and globally aligned approach to certification.

Solution

This project involves developing a Responsible AI and digitalisation system designed specifically for agriculture. The aim is to bring about a major shift in how farming standards and traceability are managed. The heart of this transformation lies in using data stream processing and complex event processing technologies. These cutting-edge tools will enable up-to-the-minute gathering and analysis of farm data, allowing for the rapid identification and resolution of any compliance issues. This innovative approach will ensure continuous monitoring and maintenance of high farming standards, and the integration of green productivity tools at critical stages of production.



Key activities

- Digitalisation & Integration of Standards:** Gather insights through ongoing engagement with key stakeholders via surveys and feedback. This activity will focus on designing and developing a comprehensive database tailored for standards and facilitating efficient data management and integration.
- Data Collection and Management:** Identify sources, formats, and types of standards relevant to the agricultural sector, mapping criteria to create a harmonised framework. Develop robust processes for data collection, transformation, and integration emphasising user-friendly interfaces and comprehensive training materials.
- AI-Powered Standard Monitoring Tools:** Develop and train AI models to monitor and analyse standards, conducting benchmarking tests and defining certification processes. AI is leveraged to enhance the accuracy, reliability, and efficiency of standard monitoring and compliance.

For further information

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