Tritom – data intermediation service for food chain operators

Tritom is a data intermediation service for the entire food chain. The service aims to utilize data generated in primary production through automation. Today, a huge amount of data is collected on farms through various sensors and systems, but only little of it is utilized.

Tritom Essential is a service for data producers, i.e., farmers, where farmers can license their own data from tractors, milking robots, accounting systems and grain silos, for example. For service providers, such as food and industry operators, there is a separate version of the data intermediation service. The aim is to use shared and collaborative data to improve sustainability, efficiency, and profitability for all stakeholders.

Farmers can benefit from sharing data and get help, for example, to improve farm productivity. With the help of data, it is also possible to optimize and improve one's working time, different work phases, logistics and at the same time farm expenses. The sector is developing rapidly, with new opportunities constantly emerging, some of which we may not even be aware of yet.

The service will enable a data ecosystem in line with the EU data strategy, promoting a fair and transparent transition to data economy. At the same time, Tritom enables the creation of added value for materials. The data produced can also be used for environmental impact assessments, such as carbon accounting. Tritom can also be used to verify the origin of raw material down to individual farming practices and thus, add value to the product.

Tritom enables the use of the data produced, i.e. for carbon calculations in the food chain.

Video: Tritom – Profitable business from collaborative data

KEY WORDS

Data intermediation service, data economy, data ecosystem, efficiency, adding value

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Predicting yield potential with Yield Systems' AI solution

Yield Systems provides agricultural AI solutions, focused on crop production, in particular. The company has developed a digital approach based on data and machine learning which allows farmers to get accurate information about their fields. The solution is based on data licensing through Tritom data intermediation service. Yield Systems' solution utilizes smartphone video to measure crop characteristics accurately and cost-effectively. The video is used to measure factors such as the surface area and length of a cereal ear, stem length and the total biomass.

The resulting parcel-specific data is valuable information which can be used for a variety of purposes:

- To make accurate yield predictions and optimise field conditions to achieve maximum yield potential.
- Post-harvest, data can also be used to derive an estimate of the impact of crop management measures. Farmers can learn useful lessons from successes and identify areas for improvement.
- Accurate measured field data can complement other data, collected by drones, for example.
- Farmers can benefit financially by licensing data in exchange for money.

Yield Systems' service and approach is based on a fair data economy and data licensing. The company will pay farmers for the right to use the data generated on their farms. Depending on the contract, the value of the data can be increased through secondary markets. Interested parties could include plant breeding companies, fertilizer companies, research institutes, other early-stage technology companies, and possibly government agencies. Yield Systems has been piloting the system with farmers for two summers and aims to commercialise the service in the near future.

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BRANCHES project

BRANCHES is a H2020 "Coordinaton Support Action" project, that brings together 12 partners from 5 different countries. The overall objective of BRANCHES is to foster knowledge transfer and innovation in rural areas (agricolture and forestry), enhancing the viability and competitiveness of biomass supply chains and promoting innovative technologies, rural bioeconomy solutions and sustainable agricultural and forest management

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