Farmdok – Precision Farming Solution

Name of the Organisations Involved

- Farmdok, Austria

Challenges Identified

Farmers encounter various challenges in traditional agricultural practices that can be effectively addressed through digital technology solutions. Field management complexities, including crop rotation and soil samples, can be streamlined with digital tools, providing a centralized overview of fields and facilitating efficient planning. Documentation, often a time-consuming task, can be automated through digital platforms, ensuring accurate and easily accessible records of activities from seeding to harvest. Stock management challenges, such as monitoring stock movements and maintaining comprehensive reports, can be simplified with digital solutions, enabling real-time tracking and optimized resource utilization.

Overall, digital technology offers farmers practical solutions for enhanced field management, streamlined documentation processes, and efficient stock management, contributing to improved productivity and sustainable agricultural practices. However, many service providers offer stand-alone solutions which cannot be integrated with other solutions, thus making it hard for farmers to use digital technology at scale in their work. This particular challenge is being solved by Farmdok.

Goals and Solution

The main goal of Farmdok is to empower farmers with cutting-edge technology, leveraging satellite and weather data, to enhance the efficiency and sustainability of agricultural practices. By providing a comprehensive digital platform, Farmdok aims to optimize field management, automate documentation processes, and improve resource utilization for precision farming from seeding to harvest.

Short description of the technology and the beneficiaries

Farmdok's platform employs various advanced technologies to harness a wealth of data, including satellite and weather data, enabling farmers to plan their operations better, determine yield potential and optimize the distribution of seeds, fertilizers, and other materials. The platform, accessible through commercially available smartphones and tablet PCs, ensures practicality, independence from specific machinery, offline capability, and functionality without a mobile network.

Key features of the technology encompass comprehensive field management tools, including field lists, maps, crop rotation, and soil sample records. It facilitates efficient documentation and order management through the recording of measures, automated order planning, and the inclusion of geolocated photos in field notes. The technology offers robust reporting and export capabilities, allowing farmers to conduct in-depth evaluations and export data in various formats.

Farmdok's platform extends to fertilizer management, enabling farmers to plan nutrient requirements for the entire farm and specific fields. It supports detailed documentation of plant protection measures with

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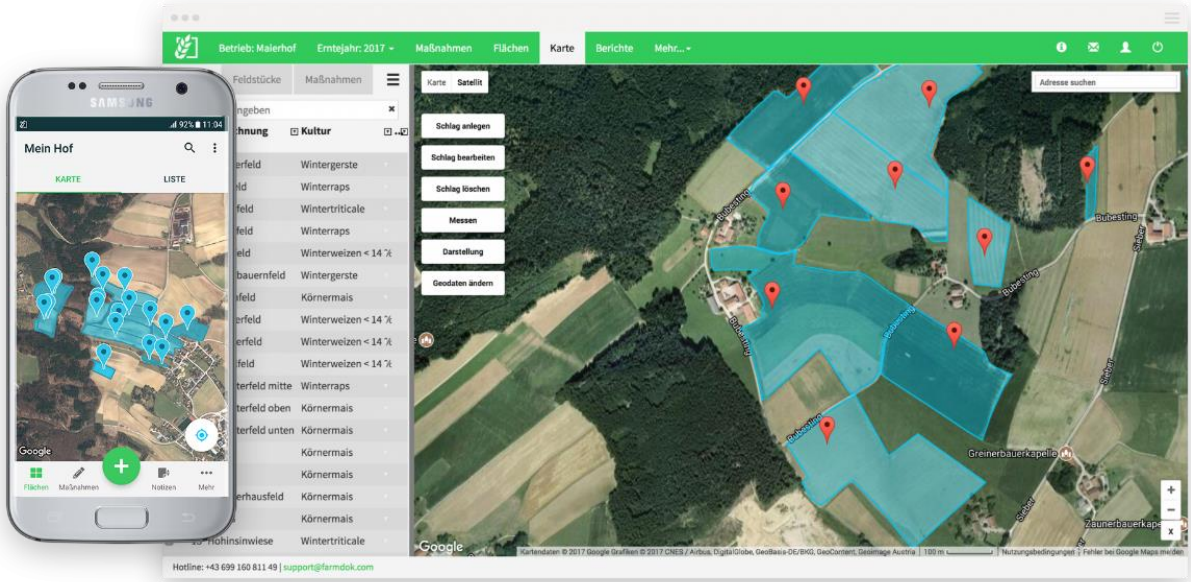
registration numbers and live checks. Warehouse management features include tracking stock movements, maintaining inventory levels, and generating comprehensive reports.

On the financial side, various cost accounting capabilities empower farmers to calculate contribution margins at the company, crop, and field levels, aiding in financial decision-making. The technology facilitates customer management by allowing the creation of customers or sub-companies and the management of associated fields.

Furthermore, the technology offers application cards for sowing and fertilization based on satellite data, enhancing precision in farming practices. Connectivity and interfaces with platforms like NutriGuide, MyJohnDeere, and AMA ensure seamless integration with external systems, enhancing the overall utility of Farmdok's technology.



Source: www.farmdok.com

Actions Taken

Farmdok allows farmers can tap into the unlimited potential of smart technologies for managing their various activities and resources at scale and over time. The technology functions as a mobile app (Android and IOS), which means that it is not tied to a tractor or machine, and it is also capable of working offline without a mobile network. In short, the versatility of Farmdok's platform allows farmers to tackle some of their biggest challenges, and to have a cost-efficient centralised system for managing all of their operations.

Benefits and Impact

Farmers can benefit from satellite images and smart technologies to better plan their resources, activities, stock, and to be more agile in their farming business, thus increasing their competitiveness.

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Application Area

☒ Soil ☒ Plant ☒ Terrain ☒ Weather

Digital Technology in the Value Chain

☒ Agromonic Services ☒ Agricultural Input and Services

Digital Technologies

☒ IoT ☒ Sensors ☒ Artificial Intelligence

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