



Wyld Networks and KWS collaboration on advanced monitoring

Wyld Networks, a global leader in IoT satellite connectivity, is collaborating with KWS, the world's fourth-largest seed producer, to revolutionise agricultural practices through advanced soil sensor technology and satellite connectivity. This case study highlights how Wyld Networks and DFM Technologies are providing KWS with innovative solutions to optimise their seed trials and improve agricultural productivity.

KWS SAAT SE & Co. KGaA, headquartered in Einbeck, Germany, has been a significant player in the agricultural sector since its inception in 1856. With a commitment to research and innovation, KWS develops high-performance seeds for various crops, including corn, sugar beet, cereals, and oilseeds. Their extensive research facilities in Germany, France, and Italy play a crucial role in enhancing crop yields and promoting sustainable agricultural practices.

Wyld Networks enhances KWS seed trials monitoring

KWS's seed trials require precise and reliable soil data to ensure optimal growth conditions and accurate assessment of seed performance. Traditional connectivity solutions often fall short in remote and expansive agricultural fields, making it challenging to gather IoT soil data. KWS needed a robust solution to monitor soil moisture and temperature at multiple depths across their test fields in Einbeck, France, and Italy.

Wyld Networks, with its cutting-edge IoT solutions, partnered with DFM Technologies to provide KWS with the tools necessary for accurate soil data collection and analysis. The collaboration focuses on deploying Wyld Connect terminals and modems, integrated with the Wyld Fusion platform, to ensure seamless connectivity and data management.

Wyld Connect: ensuring reliable IoT connectivity

Wyld Connect addresses the growing demand for connectivity in remote sensing and IoT applications. Utilising ISM, L-band, and S-band frequencies, Wyld Connect links directly to a constellation of Low Earth Orbit (LEO) satellites. This setup ensures global coverage, enabling data transmission from sensors even in the most remote and harsh environments. Wyld's solutions connect sensors directly with low earth orbiting satellites, optimising energy efficiency with solar power options and cost-effective data connectivity.

By integrating terrestrial and satellite networks, Wyld Connect overcomes the limitations of traditional connectivity solutions, providing KWS with the reliable data transmission they need for their seed trials.



Wyld Fusion: IoT Network management for terrestrial and satellite integration

Wyld Fusion is an IoT network management platform that supports both terrestrial and satellite networks, seamlessly integrating with existing data analysis applications to enable businesses to harness valuable insights from IoT data. It offers combined network management, allowing the management of both satellite and terrestrial IoT networks under one umbrella.

Designed with scalability in mind, it handles rapid and massive IoT deployments with high availability and redundancy. Wyld Fusion ensures end-to-end security by providing enhanced protocol security across all layers and facilitates easy integration and management of IoT data.

Wyld Fusion receives IoT data from DFM soil moisture sensors via low earth orbiting satellites and integrates this data with KWS's IoT analytics platform. The Wyld Connect terminals and modems deployed in KWS's test fields transmit soil moisture and temperature data via satellite to Wyld Fusion. This platform then processes and integrates the data into KWS's data analytics systems, enabling precise monitoring and analysis of soil conditions.

DFM Technologies: advanced soil sensor solutions

The DFM continuous logging soil moisture probes provide measurements of soil moisture and temperature at up to six different depths. These probes are crucial for monitoring the soil conditions that affect seed performance, enabling KWS to make informed decisions about irrigation and fertilisation.



Revolutionising Data-Driven Agriculture with Satellite IoT

The implementation of Wyld Connect and DFM soil probes in KWS's test fields has significantly enhanced their data collection capabilities. These precise data-driven practices support KWS's commitment to sustainable agriculture by conserving water, reducing fertiliser runoff, and promoting soil health.

Looking ahead, KWS plans to expand the deployment of Wyld Networks and DFM solutions to their clients' sites, enabling more farmers to benefit from advanced soil data. This partnership exemplifies the transformative potential of IoT and satellite connectivity in agriculture, setting a benchmark for innovation and sustainability. Wyld Networks and DFM Technologies continue to lead in providing cutting-edge solutions, ensuring the long-term viability and resilience of the global agricultural industry.

About Wyld Networks

Wyld Networks' products, including Wyld Connect and Wyld Fusion, provide robust connectivity solutions for remote sensing and IoT applications. Their technology ensures efficient data collection and transmission, supporting a wide range of business sectors including agriculture, energy, utilities, logistics and environmental monitoring.

About KWS

KWS SAAT SE & Co. KGaA, based in Einbeck, Germany, is a leading agricultural company founded in 1856. Specialising in seed development, KWS produces high-performance seeds for crops such as corn, sugar beet, cereals, and oilseeds. Their focus on sustainable agricultural practices aims to enhance crop yields and promote environmental health.



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