

SMART FARMING USING SUPER WIFI







A use case of high-speed wireless backhaul, multi-SIM card aggregation and long range Super WiFi technology for smart farming and Internet access applications for durian farm.





OBJECTIVES:

Fulfilling the Smart Farming initiatives, the high-speed broadband infrastructure solution for KHK plantation is designed based on the following objectives:

- To build a large high-speed WiFi broadband infrastructure for various smart farming applications in the durian plantation estate
- · Allowing employees to have broadband Internet access for multiple, system-owned or personal mobile devices
- Strong Internet coverage for convergence of various digital applications such as IOT sensors, CCTV, cloud internet access and IR 4.0 smart farming applications.
- Use of smartphones, drones and other portable devices for smart farming application within plantation area.





THE SOLUTION

Adopting the Mimosa high-capacity wireless backhaul solution eliminates the need to lay physical fibre optic cables. Mimosa's technology provides up to 1Gbps Point to Multipoint wireless network on the 5GHz unlicensed band spectrum.

Multiple 4G SIM cards coupled with SIM aggregation and load balancing router were installed at high ground with strong mobile signal. Bringing 4G signals through large uneven terrain of hills and rivers can be achieved using Mimosa wireless without the need of laying fiber.

With SIM card bonding, hostel quarters is now equipped with high speed broadband facility for workers. This solution delivers up to 150Mbps Internet access for workers' hostels, CCTV surveillance applications etc.

The Altai Super WiFi solution enables long distance coverage with lesser number of access points required. Staff hostels, canteen and public areas are now equipped with high-speed WiFi Internet services.





THE RESULT

With Mimosa Point-to-point backhauling and Altai Super WiFi solution deployed at KHK durian farm, the smart farming digital initiatives and objectives are achieved with much lesser investment cost. Besides cost, the entire project deployment time took only less than two months to complete. Areas that seems impossible to have Internet services can now enjoy high-speed broadband which is an important enabler for their smart farming initiatives.

This project has exceeded customers expectation in which Aglotel has successfully designed and deployed for various applications fulfilling both its current and future digitisation initiatives.







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