

ENABLING

connected agriculture

Agronomy Management Solution

Remotely access your estate's data points to achieve optimum productivity

Your challenge

In order to achieve optimum yields, estate management must have access to data which will help them to make the right decisions.

Data explaining soil, water and weather conditions, as well as the movements of the workforce and machinery, needs to be aggregated and in the hands of the right people to inform smart decision-making.

Because many estates are located in remote areas, they are often badly served with terrestrial connectivity. Without a way of connecting **the sensors**, estate owners are reliant on employees to manually monitor conditions.

Manual monitoring is sporadic and does not allow estate management to get an instant snapshot of any data point, monitor lots of locations or monitor multiple locations simultaneously.

Workers who are tasked with monitoring conditions manually must spend time getting to potentially dangerous locations with little or no support. This approach is inefficient and presents risks to the workforce.

Our solution



Inmarsat's Agronomy Management Solution is a managed service that allows estate management teams to instantly access data from across their estate, resulting in smarter decision making, increased profits and reduced outgoings.

Sensors, machines and vehicles generate data on conditions, performance and movement across the estate. The data is transferred via Long Range Wide Area Network (LoRaWAN) to a software defined gateway, before it is sent via Inmarsat's L-band Broadband Global Area Network (BGAN) satellite connectivity to the customer's choice of cloud-based application. Here a dashboard provides the estate management team with a complete visualisation of the estate's data points.

Analysing the data in the control centre the management team can access strategic insights and in turn better manage the entire lifecycle. Workers are freed to focus on areas where they can make more of a difference and risk is reduced.

Over time new data **producers** can easily be added without the need for significant hardware investment with Inmarsat's IoT Enablement Platform and software defined gateways.

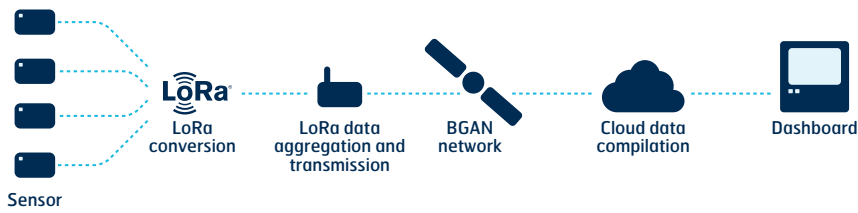
Connectivity services

-  Broadband Global Area Network (BGAN)
-  Long Range Wide Area Network (LoRaWAN)

Agronomy Management Solution is for you if...

- > You need to monitor and manage large plantations with little or no connectivity
- > Your current data collection is manual, sporadic, unreliable, costly and slow to collect
- > You need to manage your data in near real time to maximise yield and ensure workforce safety

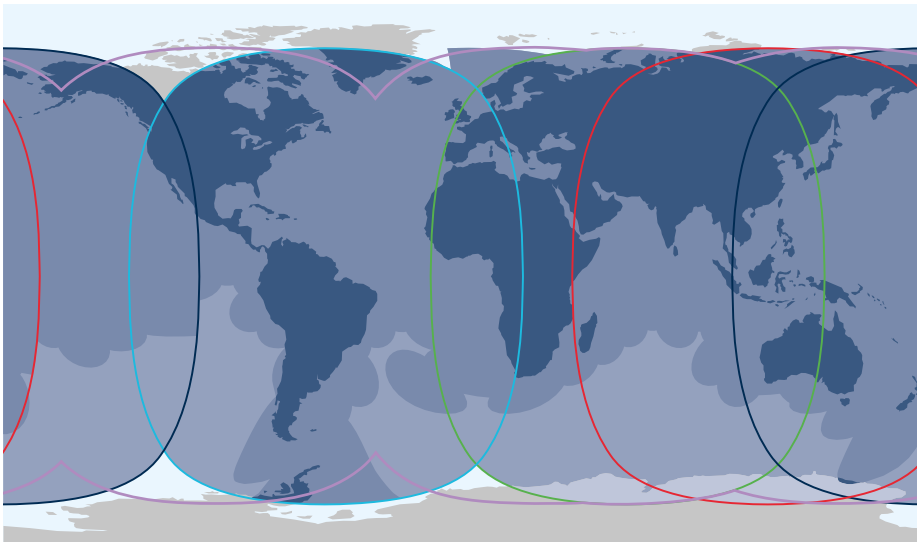
How it works



Where we deliver

Due to the unique nature of Inmarsat's geostationary satellite network we can deliver highly resilient, mobile communications services across the world. Global Xpress (GX), our Ka-band service is delivered through our Inmarsat-5 (I-5) satellites, while Broadband Global Area Network (BGAN) is delivered, through our Inmarsat-4 (I-4) satellites.

Where required, our ecosystem of local partners will deliver onsite warranty, support and repairs, and Inmarsat will ensure that all license and regulatory compliance will be in place.



Legend: I-5 F2, I-5 F1, I-5 F3, I-5 F4, I-4 and Alphasat coverage

Global Xpress network available over at least 99% of this area

Extendable Global Xpress coverage via steerable beams

This map depicts Inmarsat's expected coverage following the commercial introduction of Inmarsat-5 F4 (I-5 F4). The position of I-5 F4 shown in this map is indicative only. This map does not represent a guarantee of service.

About Inmarsat

Inmarsat is the leading provider of global mobile satellite communications services. Since 1979, Inmarsat has been providing reliable voice and high-speed data communications to governments, enterprises and other organisations, with a range of services that can be used on land, at sea or in the air. Inmarsat operates around the world, with a presence in the major ports and centres of commerce on every continent. Inmarsat is listed on the London Stock Exchange (ISAT.L). For more information, please visit www.inmarsat.com.

About Inmarsat Enterprise

Inmarsat Enterprise is the leading global provider of satellite-enabled connectivity and managed connectivity services for land-based organisations. We are enabling the Industrial Internet of Things (IIoT) and helping transform business outcomes across a diverse set of sectors, including agriculture, aid and NGO, media, mining, oil and gas, renewable energy, transport and utilities.

inmarsat.com/enterprise

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Benefits

- **Gain insight into conditions** on your estate instantly
- **Global coverage and capability** to deploy
- **Managed service model** – single contract with Inmarsat, no need to manage multiple suppliers
- **Remove the risk** of sending resources to remote locations

Features

- **Real time, reliable** backed up data viewable anywhere on a dashboard
- **Satellite communications ensure reliable connectivity** wherever your estate is located
- **Training** and in region support
- **Equipment warranty** and replacement
- **Compatible** with industry leading sensors and equipment

For more information

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