


inmarsat

ENABLING CONNECTED

AGRICULTURE

CROP STORAGE AND LOGISTICS MONITORING

CROP STORAGE AND LOGISTICS MONITORING

Remotely monitor storage conditions on-farm and across your supply chain to optimise quality and reduce losses

YOUR CHALLENGE

Storage has a huge bearing on the final quality of agricultural commodities, and with crops being stored for long periods, losses can occur without close monitoring and attention. Maintaining conditions such as a stable temperature and humidity are vital for preserving the quality of agricultural commodities, whether they be in farm storage, shipping vessel or vehicle trailer.

In global supply chains, commodities may travel across land, sea and air, being stored in containers for days and weeks before processing or re-sale. If unchecked, conditions in store can change rapidly leading to losses of quality and shelf life and falling foul of retail and regulatory requirements.

As a grower, packer or processor of agricultural raw material, remote monitoring can play a vital role in helping reduce waste, quality losses and deterioration.

OUR SOLUTION

Inmarsat's crop storage and logistics solution is a bespoke managed service which allows growers and the extended supply chain to remotely monitor commodities in storage and make interventions to reduce losses and manage the supply chain.

Utilising our highly reliable, global satellite network we are able to monitor your commodities in real-time, whether they are in a plastic silobag, grain elevator, at the bottom of a ship, on a plane or truck.

Using a variety of low-cost sensor technologies we tailor the solution to the nature of your storage infrastructure and supply chain. Depending on the specific commodity, typical measurements include temperature, humidity and CO2.

The data is transferred via Long Range Wide Area Network (LoRaWAN) to a software defined gateway, before it is sent via satellite or cellular connectivity to an easy to use application.

Customised dashboards are provided to give you complete visualization of your crop and supply chain, with real-time alerts of changes in storage conditions which could lead to a losses. You gain a complete record of traceability through your commodity's journey.

CONNECTIVITY SERVICES

- BGAN
- Long Range Wide Area Network (LoRaWAN)

CROP STORAGE AND LOGISTICS MONITORING IS FOR YOU IF...

- You are a grower who wants to manage storage conditions more precisely to increase marketable yield and quality
- You are purchasing agricultural raw materials, or control a supply chain and want to increase quality and shelf life through more precise management of storage conditions on-farm and in transit
- You use or operate a global multi-model agricultural supply chain transporting agricultural commodities and perishable goods and want to satisfy retail and regulatory requirements

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 BGAN is delivered, through our Inmarsat-4 (I-4) satellites.

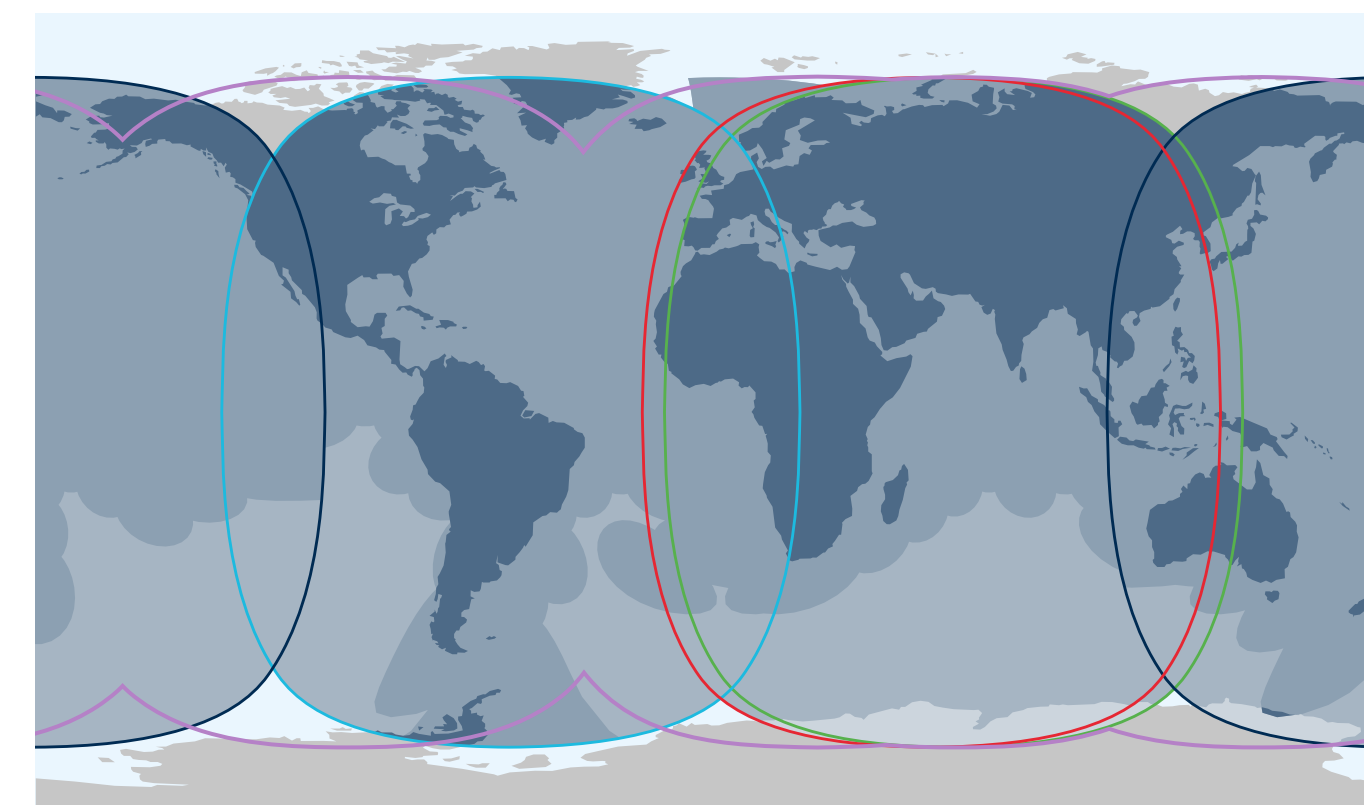
Where required, our ecosystem of local partners will deliver onsite warranty, support and repairs, and Inmarsat will ensure that all license and regulatory compliance will be in place.

BENEFITS

- **Increase marketable yield** - monitor storage conditions in real-time and respond quickly to keep commodities in optimal condition
- **Enhance visibility and compliance** - understand more about your supply chain and share data to confirm product provenance and comply with regulatory guidance
- **Reduce complexity** - ensure data and systems are interoperable reducing the need for manual processes

FEATURES

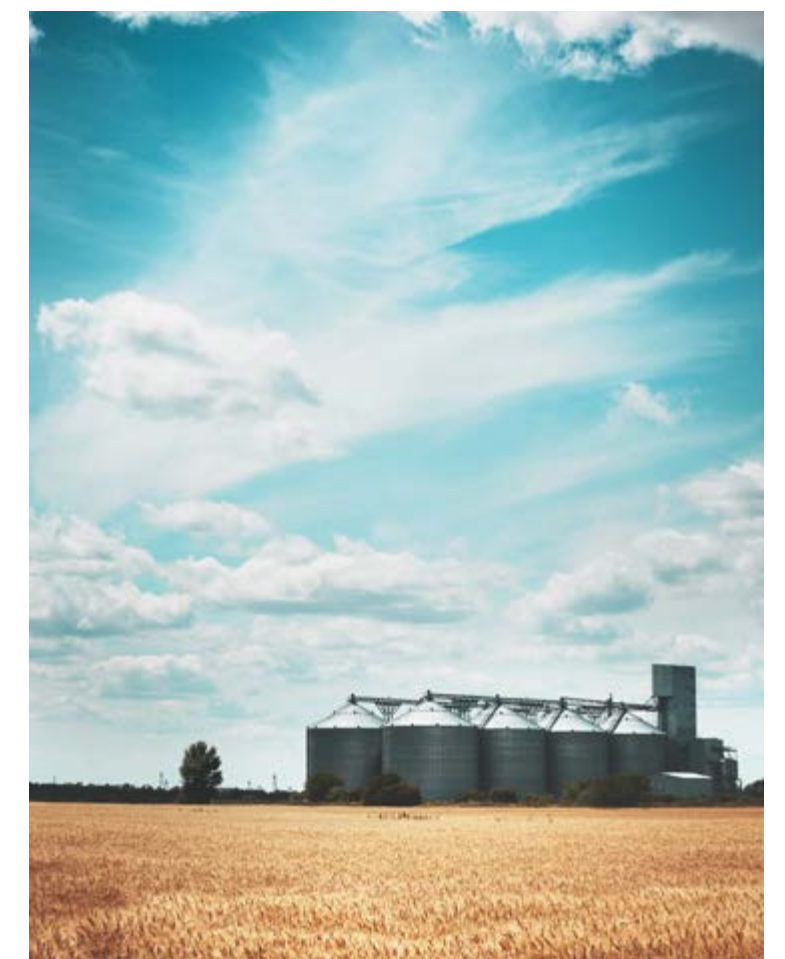
- **Real-time monitoring** of key variables
- **Real-time alerts** of change in perishable conditions
- **Managed service** - single contract with Inmarsat, no need to manage multiple connectivity suppliers
- **Full training provided** and a complete service package to give you peace of mind
- **Highly reliable satellite connectivity** - BGAN, L-band connectivity offers 99.9% network reliability
- **Global coverage** - we can connect you anywhere



I-5 F2 I-5 F4 I-5 F1 I-5 F3 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 expectations of coverage. It does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions. Fleet Xpress coverage March 2019.



FOR MORE INFORMATION

Web: inmarsat.com/enterprise

Email: EnterpriseMarketing@inmarsat.com

While the information in this document has been prepared in good faith, no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability (howsoever arising) is or will be accepted by the Inmarsat group or any of its officers, employees or agents in relation to the adequacy, accuracy, completeness, reasonableness or fitness for purpose of the information in this document. All and any such responsibility and liability is expressly disclaimed and excluded to the maximum extent permitted by applicable law. Coverage as shown on maps is subject to change at any time. INMARSAT is a trademark owned by the International Mobile Satellite Organization, licensed to Inmarsat Global Limited. The Inmarsat LOGO and all other Inmarsat trademarks in this document are owned by Inmarsat Global Limited. © Inmarsat Global Limited. All rights reserved. Crop storage Solution. August 2021