

# **Smart Farming and IoT**

# Connecting Agriculture Beyond Cellular Limits

From remote fields to connected supply chains, satellite IoT empowers farmers to work smarter, safer, and more sustainably





## **Farming Challenges**

## **Remote Locations**

Cellular coverage drops off in rural farmland

#### **Asset Visibility**

Machinery, tanks and livestock often move outside services zones

#### **Resource Efficiency**

Irrigation, feed, and fertilizer must be optimized

## **Operational Risk**

Equipment downtime and worker safety depend on reliable communications

## **Lack of Power**

Most farms lack electrical infrastructure and must rely on alternate energy based solutions

## How Satellite IoT Helps

## **Field-to-Farm Connectivity**

Continuous monitoring of crops, soil, and water levels in even the most remote areas

#### **Livestock Tracking**

Real-time GPS collars or ear tags monitor animal location and health

### **Machinery Monitoring**

Satellite-connected sensors report on performance, fuel levels, and maintenance needs

## **Supply Chain Transparency**

From harvest to distribution, data flows seamlessly across regions

Optimized to run on battery or solar power

# Key Benefits of Globalstar Satellite Solutions

- Coverage Everywhere

  Works where cellular ends: remote fields, hills, forests
- Resilient Operations

  Connectivity remains during outages
  or weather events
- Efficiency Gains

  Lower input waste by optimizing water, feed, and fertilizer
- Sustainability

  Data-driven farming supports greener practices and compliance
- Scale across farms without costly infrastructure expansion

## Use Cases at a Glance

Use Case		Satellite-Enabled Impact
Crop Monitoring		Soil moisture and temperature sensors transmit data 24/7
Livestock Management		GPS collars or ear tags track movement and detect anomalies
Machinery and Equipment		Remote diagnostics reduce downtime and maintenance cost
Worker Safety	( <u>o</u> )	Lone worker devices ensure communication everywhere
Supply Chain Logistics		Connected assets improve traceability and compliance

Smart farming needs smart connectivity.

Satellite IoT ensures no field, asset, or worker is left behind.

Learn how Globalstar's satellite IoT solutions power agricultural digital transformation.

<u>Get in touch</u> with our team of experts today.

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