Only 10% of the Earth's surface can be monitored with existing communication technologies
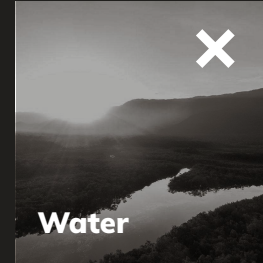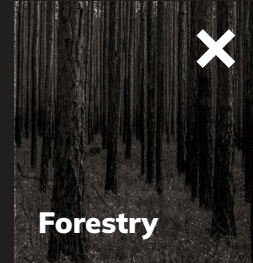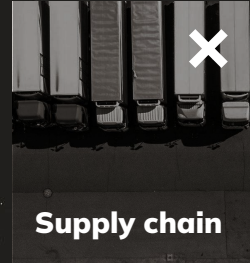
Myriota

No global coverage

=

No ability to monitor, maintain & manage our:

✕ Supply chain	✕ Forestry	✕ Water
✕ Utilities	✕ Livestock	✕ Climate
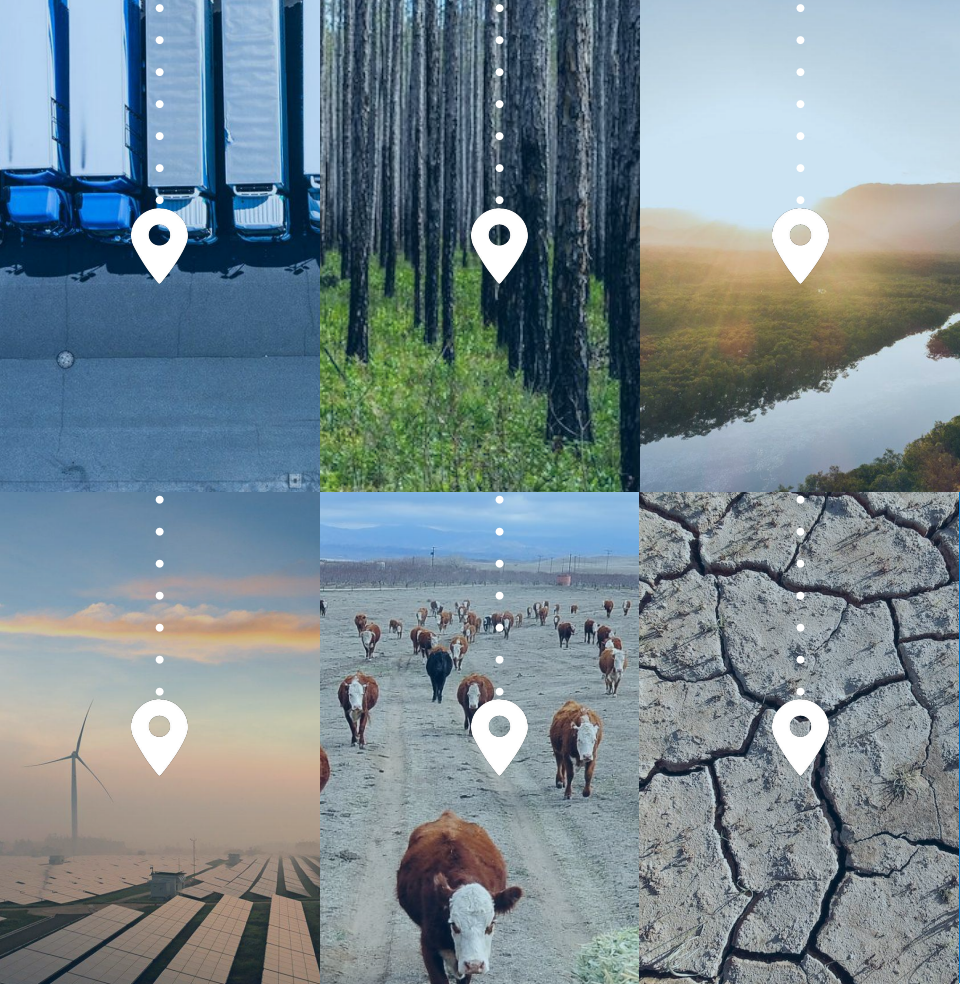
Imagine if tracking **everything, everywhere** was easy...

Satellite IoT Connectivity

Unlocking critical data, everywhere.

Chris Gray, Product Manager Edge Solutions

Myriota

How it works

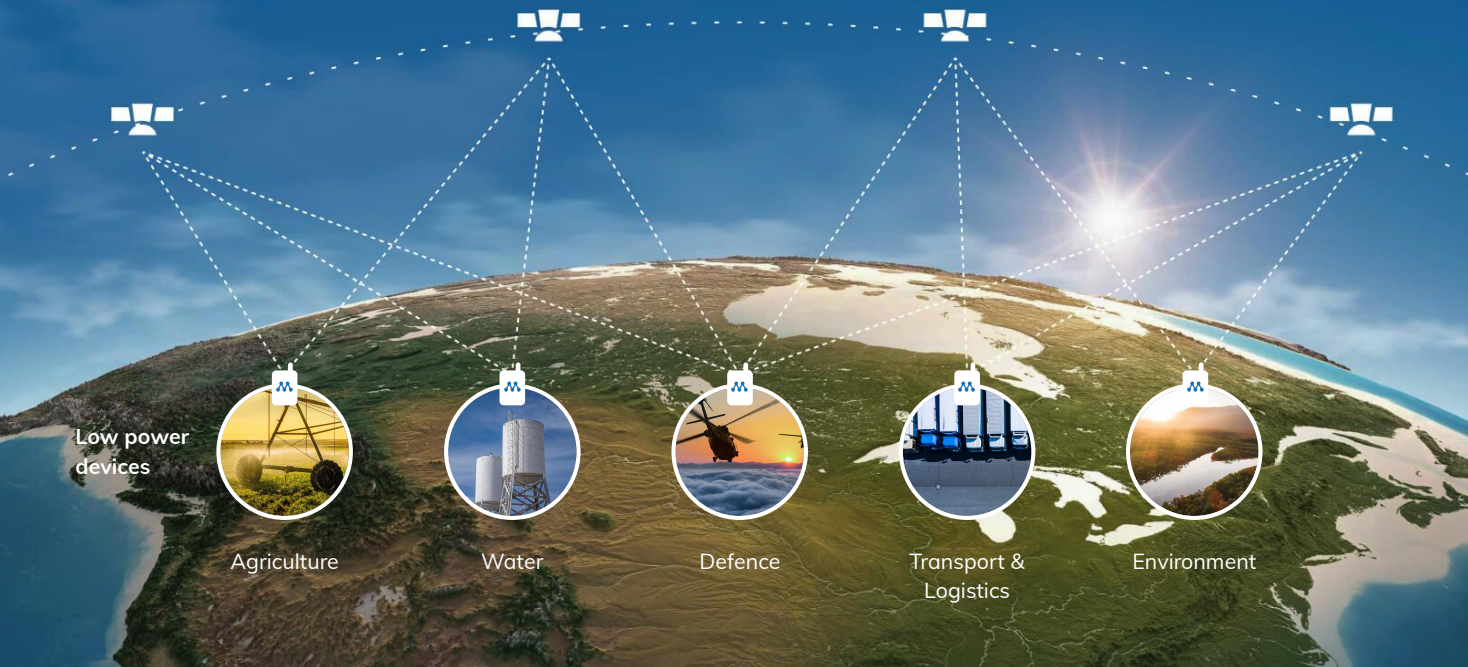With satellite IoT gather insights when and where you need to, to make decisions for your business that matter.

Low power devices

Agriculture

Water

Defence

Transport & Logistics

Environment

Features

Pole to pole coverage

End-to-end secure data

Low-power devices

Massively scalable

Smart devices

Manufactured by partners globally at scale
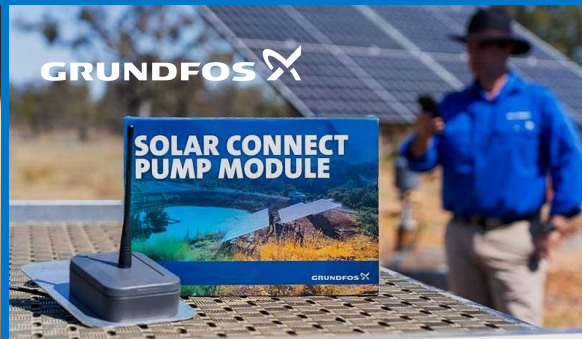
Getting to scale

Go global with 0 delay

- Monitor anything, anywhere

- Global Partner

Get new markets

- Unlock new markets

- Delivering better ROI

Work with existing hardware

- Modules

- Devices

Proven security

- Zero-trust

- Strong Encryption

Myriota

Sensing in agriculture unlocked.

Case study

Transforming rural water meter monitoring

taggle✕

As the demand for advanced and resilient water metering solutions grow, so does the need for efficient monitoring in remote and challenging terrains.

Pain		Solution
Slow leak detection and animal damage	❯	Reliable data for rapid leak detection, vital in droughts
Cellular networks have limitations in hilly areas and valleys	❯	Close coverage gaps with cost-effective remote connectivity
Vulnerable to water monitoring disruptions during natural disasters	❯	Network is not reliant on ground infrastructure for a failsafe solution
Water losses and pipeline issues over vast distances	❯	Monitors meters along pipelines, anywhere

Taggle's Smart Water Meters are built to last in Australia's extreme landscape

By partnering with Myriota:

Taggle now has a cost-effective and efficient solution for monitoring water meters, pipe systems and other water delivery assets, overcoming the hurdles presented by challenging terrains and a lack of network availability to enable water monitoring in even the most remote locations.

Case study

Better oversight of on-farm liquids

AGBOT™   Blue Mountain Co   GRUNDFOS   LST LONESTAR TRACKING · TRACK ANYTHING, ANYWHERE.

Pain		Solution
Inefficient, expensive manual management	›	Remote monitoring saves costs, improves efficiency
Unpredictable install locations make terrestrial solution non starter	›	Sky view and it just works
Flying blind puts cattle and crops at risk	›	Better decisions. Fewer costs. Improved output.
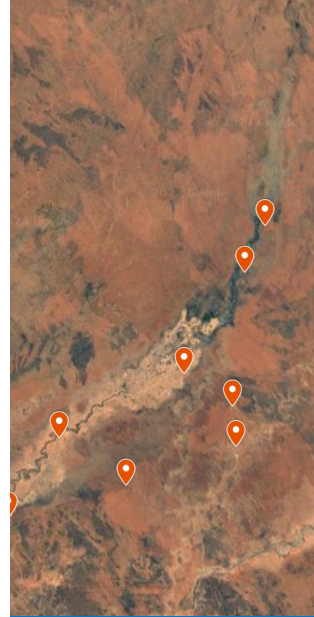
By partnering with Myriota:

- **5+ years device field life** with two AAs
- **A$2,391,794** saved over 5 years
- **69 tonne reduction** in CO2 emissions

Case study

Protecting agricultural assets

In partnership with IAG, Food Agility CRC, and Charles Sturt University, Myriota is developing a Haystack Fire Prevention system to alert farmers when their haystacks are likely to catch fire. According to the Country Fire Authority (CFA), spontaneous ignition is the leading cause of haystack fires in Victoria.

These preventable fires put crops, machinery, and fencing at risk, as well as impacting the livelihood and mental health of those impacted.

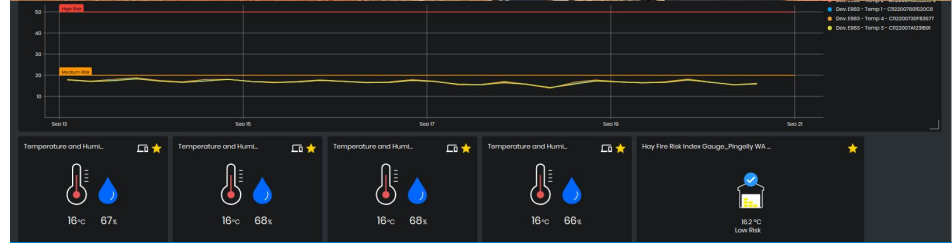| Pain		Solution
Fire damage presents significant risk to food supply & livelihoods	›	Trend data and insights give advance warning
Physical and mental impacts of fires	›	Prevent damage to crops, machinery and mental health
Reliable connectivity on the most remote farms	›	A solution that just works, anywhere

By partnering with Myriota:

Myriota satellite coverage means secure connectivity is available everywhere. The ability to monitor and characterise activities, and signal for assistance, ensures the safety of personnel and the public.

Existential threats and major opportunities for people & planet

Intense

Maui Fire

Longer

Cambridge Shores, KY, USA after earthquake

Devastating

Flash flood in Texas
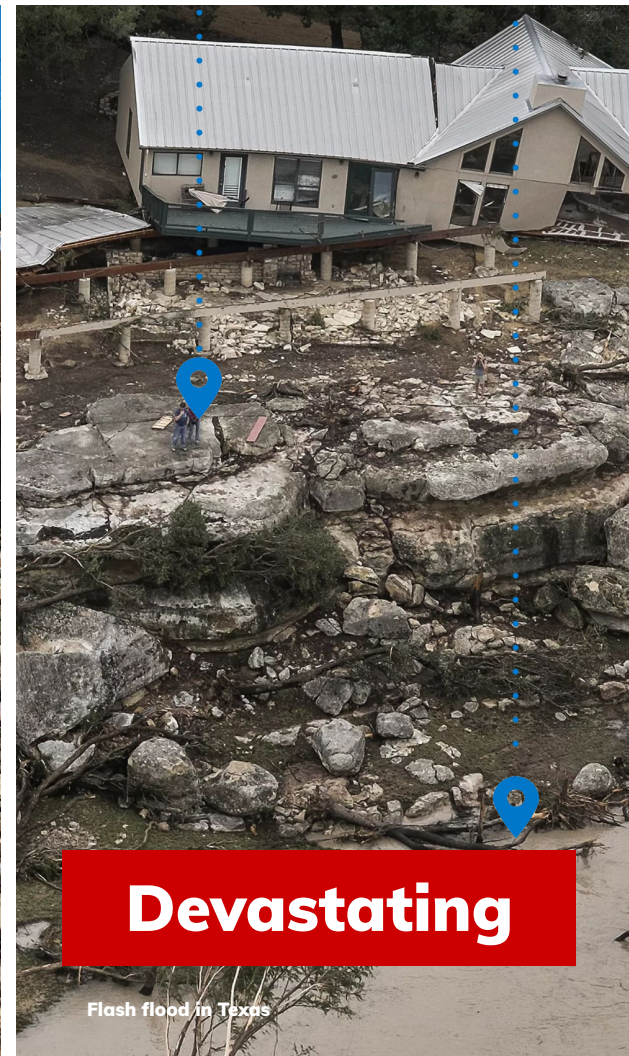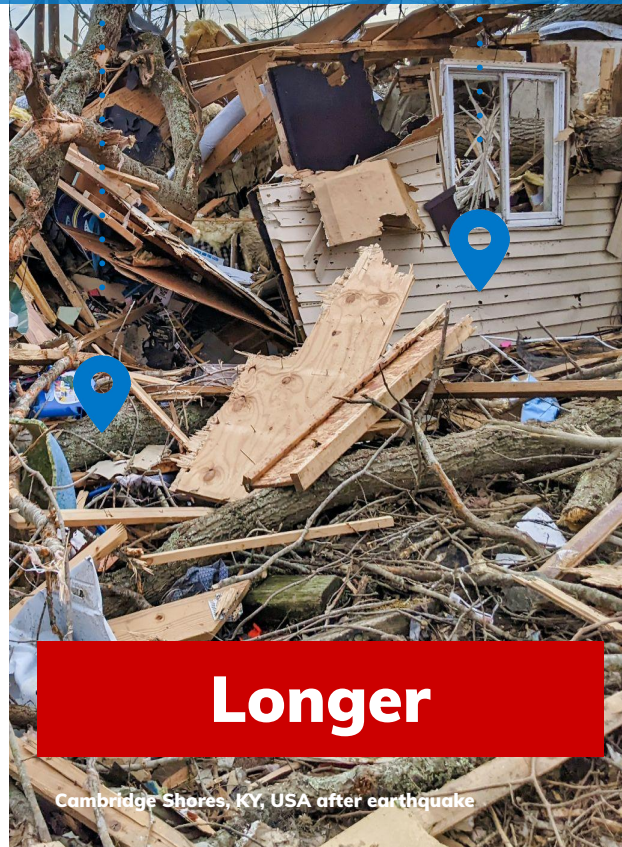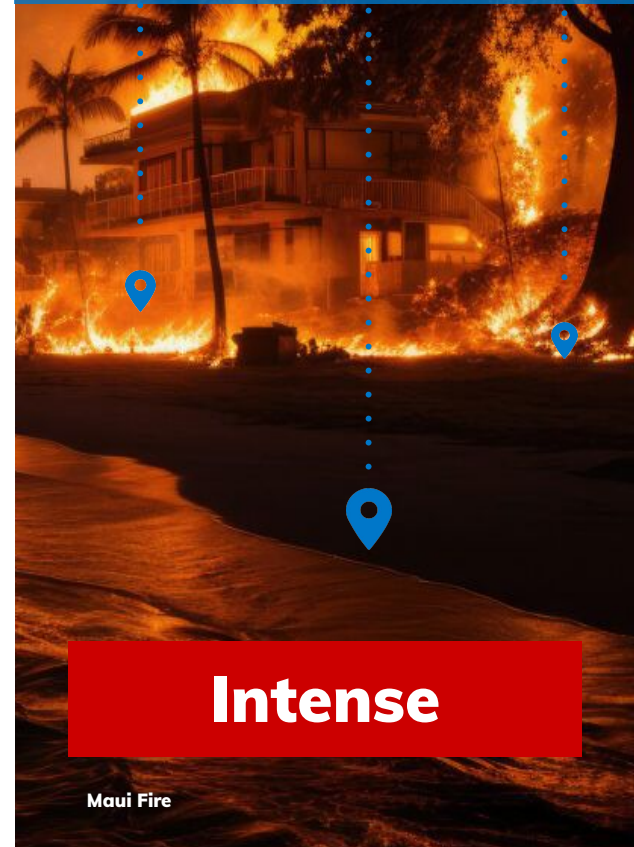
Global Natural Disaster Snapshot

Wildfires
Canada

Hailstorms
Central France

Drought
Central Asia
& Europe

Hurricane Ian
Florida

Floods
Libya

Wildfires
Maui

Floods
Australian
East Coast

387 natural disasters in 2023
10x increase globally from 1960

$3.6 trillion
Global cost of natural disasters since 1970

$195 billion
Impact to US economy from Hurricane Katrina alone

45,000 deaths
Annually from natural disasters

Grand View Research, Disaster Preparedness System Market Size, 2017
Institute for Economics & Peace, Increase in Natural Disasters on a Global Scale by Ten Times, 2020
Our World in Data, Natural Disasters, 2022
World Meteorological Organization, Weather-related disasters increase over past 50 years, causing more damage but fewer deaths, August 2021

Disaster monitoring

1

Pre-event monitoring

2

During an event

3

The aftermath

How Myriota satellite IoT can help?
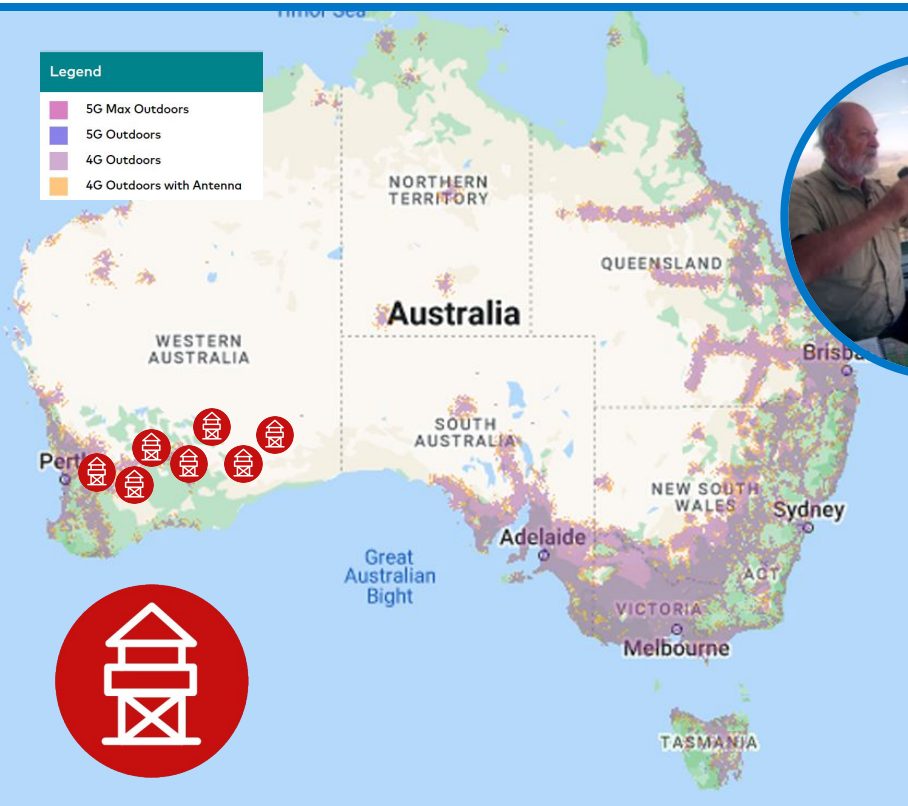
People are spending hours watching the horizon for "smokes" — the first sign of the beginnings of a bushfire.

Parks & Wildlife Western Australia

Manually watching for fires	Automatic fire detection anywhere ✓

Limited or no people counting	People counting in / out anywhere ✓

Legend
- 5G Max Outdoors
- 5G Outdoors
- 4G Outdoors
- 4G Outdoors with Antenna

Data triangulation in a crisis

Better reactions to fire and enhanced people protection
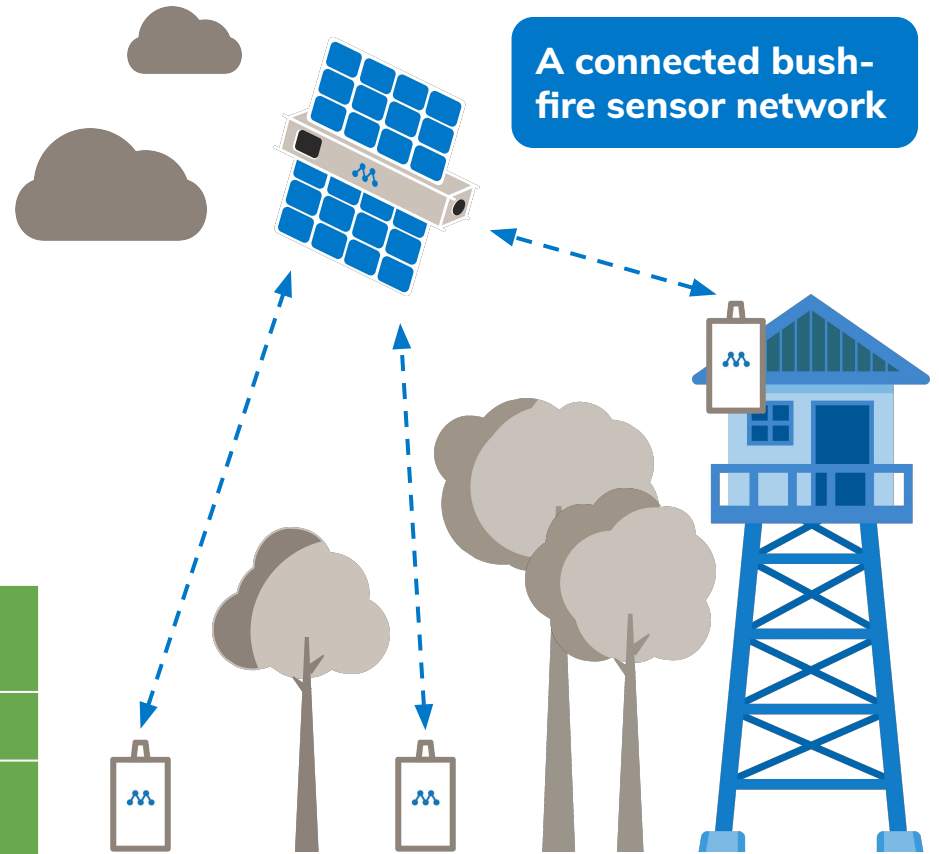
Pre-event **During event**

Human activity reporting	Lightning activity	Smoke alerts
Ground temp	Fire alerts	Air humidity
Threshold alerts	CO2	Public beacons on trails

A connected bush-fire sensor network

Using trend data to monitor water body levels and predict flooding

Pre-event

Water body level	Bank erosion	Volume trend data
Flood prediction	Infrastructure health	

Flooding in Derna, Libya.

People counting

Using sensor data to monitor foot traffic and enhance citizen protection

Pre-event **During event**

Now gathering data in Australian National Parks.

Foot traffic	Public beacons	Park entry
Park exit	Human activity reporting	

People counting in remote area.

Ground-based infrastructure

Myriota

Utilities
Resource availability unknown

Cell towers
Unreliable when needed the most
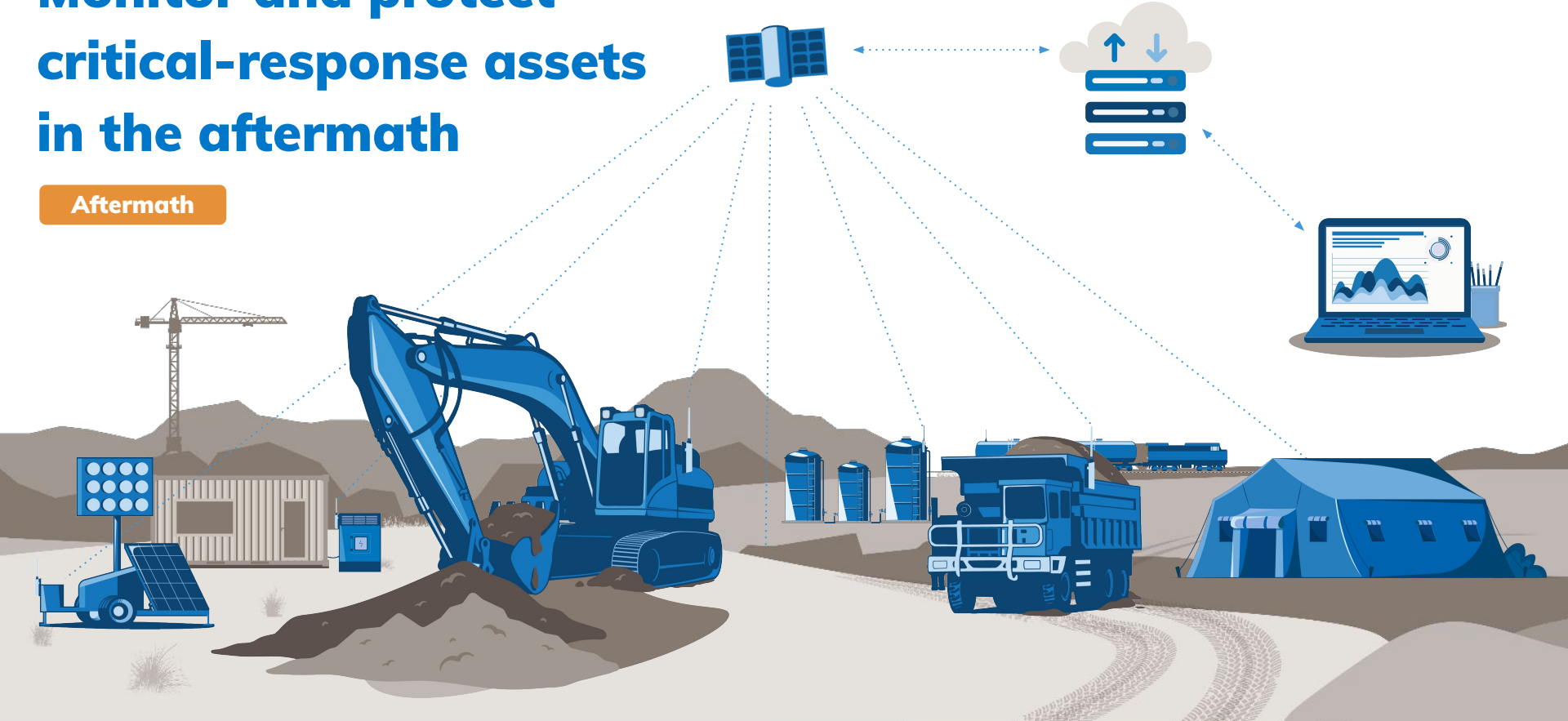
Electricity
Dependent hardware disconnects

Direct to satellite connectivity that can weather the storm

Go beyond the barriers of ground-based infrastructure

Monitor and protect critical-response assets in the aftermath

Aftermath

Empowering First Nations communities.

Providing access to safe water

"Safe drinking water ... is essential for good health and wellbeing ... It is an issue that demands immediate attention and action by all levels of government – without it, the health gap between Aboriginal and Torres Strait Islander people and their non-Indigenous peers will remain wide and intractable."

Pain	Solution
Water contamination leads to infections and kidney disease.	Improved health through contamination monitoring and timely detection.
Groundwater decline due to over-extraction.	Automated monitoring mitigates declining levels.
Unpalatable water leads to increased consumption of sugary beverages.	Improved water quality, taste, and safety through monitoring and treatment.
Water pump failures affect chlorine dosing, impacting water quality.	Pump monitoring for precise chlorine dosing eliminates toxicity to meet standards.

Remote water tank system.

Improving sewerage standards

Satellite IoT solutions close the water sanitation access gap by enhancing treatment standards for improved public health and safety.

Pain	Solution
Inconsistent monitoring, delays in asset repairs and lab testing.	Efficient wastewater services, timely repairs and testing.
Irregular bin emptying harms treatment plants from non-flushable items.	Avoid harmful damage. Safeguard environment and health.
Minimal staff and high turnover affect process reliability and consistency.	Mitigate turnover effects. Empower staff to focus on higher-value tasks.
High CapEx, OpEx, limited robustness for extreme climates, and challenging maintenance.	Low TCO with 10-year field life on 2x AA batteries, a 'just works' solution for place, purpose, and people.

Remote sewerage.

Protecting sites of significance

Using sensor data for environmental and foot traffic monitoring at significant sites.
Now gathering data in Australian National Parks.

Foot traffic	Air quality	Water quality
Noise levels	Ground vibration	Human activity reporting
Water usage		

Monitoring & Early Warnings ✓

Continuous assessment of air and water quality, noise levels, and ground vibrations for potential mining impacts.

Visitor Impact Reduction ✓

Tracking foot traffic protects sites and empowers indigenous management of visitors for reduced impacts.

Aboriginal rock art in Arnhem Land; Northern Territory, Australia.

Empowering Indigenous rangers

Using sensor data for environmental and foot traffic monitoring at significant sites.
Now gathering data in Australian National Parks.

Foot traffic	Air quality	Water quality
Noise levels	Ground vibration	Human activity reporting
Water usage		

Environmental Conservation ✓

Supports rangers in monitoring soil and water conditions for erosion control and protection of native species' vital water sources.

Ranger Empowerment ✓

Fusing traditional knowledge with digital literacy for conservation, land management and education.
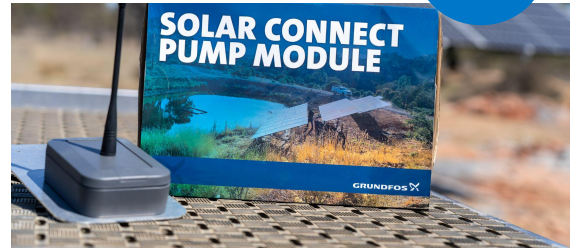

Indigenous land and sea management projects, NIAA.

Trusted by industry

Our products are deployed & proven in demanding environments where connectivity matters
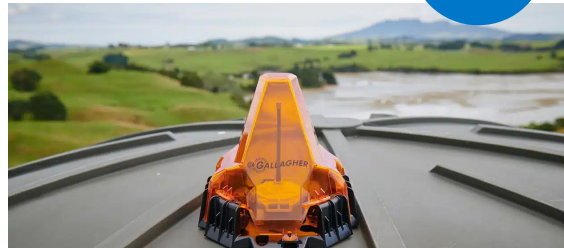
Agriculture & Environment
18m pumps p.a.

"The partnership has enabled us to bring a unique solution to market, allowing customers to monitor their complete water asset."

Gas & Utilities
Hyperscale tank monitoring

"Deploying on the Myriota Network has enabled us to get connectivity everywhere, and to meet the needs of the most remote places, giving clear access and visibility to asset performance."

Government & Defence
Minister for Defence Industry

"This technology has the potential to be used beyond Defence and impact all sectors of the Australian economy. Myriota's secure satellite communications technologies will provide global connectivity."

With Myriota, it just works

Works anywhere, optimally
Simple install, smart scheduling and reliable performance

Low maintenance
Years of field-life without costly servicing

Get-to-market, simply
Security + edge compute + flexible IO as standard

Just add your sensor, edge code & connect to backend of choice

Self-learning
Let your device optimise its performance

Build better, cheaper, smaller
Do more with less power, cost and space driven by Myriota's unique IP

Unlock Better Outcomes

Maximise ROI
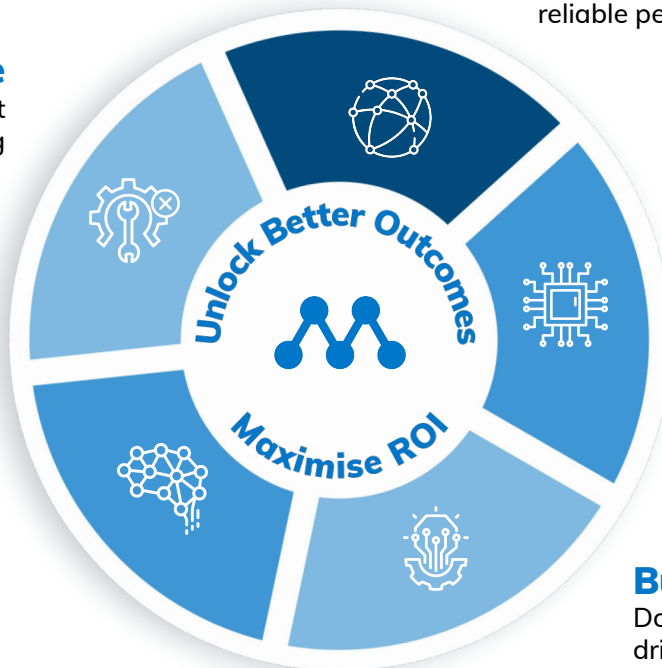
Better outcomes for people and planet through IoT solutions that work anywhere.

Get in touch
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