

myinsight.io for Agriculture



anything, anywhere, anytime

A product of  powertec IoT
TELECOMMUNICATIONS PTY LTD

myinsight.io is a full service offering, developed and built by the IoT Division of Powertec Telecommunication P/L for all your Internet of Things/ Everything (IoT/loE) requirements. It is comprised of a complete open source, end to end agricultural solution for internet, cellular, WiFi and long-range communication (LoRa) gateways. Customise, control, measure and track assets, people, animals and things with a combination of live and historical data events, notifications and machine learning.

Myinsight.io will assist your business to quickly and easily make the transition and take advantage of the Internet of Everything. We will help your business to work more efficiently and resourcefully, to reduce costs and waste, increase yield, lower energy consumption, reduce downtime plus improve quality and make smarter decisions.

The Internet of Everything (loE) is often called the next Industrial Revolution. It is set to become the biggest rural business enabler. It will make a staggering impact on regional industries and will change the way you run your business.

And if you already have an existing legacy sensor set-up? Don't worry! myinsight.io can be retrofitted to your current application and you can move forward to take advantage of new technologies and services that myinsight.io can offer.

Turnkey Solution

We offer you a complete turnkey solution wrapped in a convenient monthly subscription, or you can purchase in full – the choice is yours.

Your solution will encompass all equipment including:

- Scoping/Planning
- Things (Sensors)
- Connectivity (WiFi, LoRa, NB-IoT)
- Gateways (Cellular, Wireless)
- Cloud Dashboard (web based or on-premise)
- Configuration, Maintenance, Support



The Process

Talk with our experts about your requirements – we suggest you start by thinking small, looking at one of the biggest pain points in your business, the one thing that will make you more efficient, save money, or reduce downtime. Start small and grow as your business grows.

1. Scoping – We will walk with you through your existing operations to determine what you need, to achieve the business outcome you require.

2. Planning – Experts will review your scope and business initially to manage your connectivity options. We will provide you with an initial proposal of materials and costs. The proposal could include link path profiling, cellular tower identification, frequency management selection, and guaranteed suitable equipment identification.

If your requirements are unique, your proposal will incorporate a Proof of Concept phase where we provide you with a small scale working model.

3. Deployment – experts will install your connectivity network under the management of myinsight.io staff.

4. Automation – Once your connectivity installation is finalised, sensors are then installed and processes are automated via configuration of sensors and gateways.

5. Feedback – Once your solution is running, your feedback will be used to ensure your data dashboard is reporting as required. We will make changes as necessary.



SCOPING

We will walk through your existing operation to determine what you need, to achieve the business outcome you require.



PLANNING

myinsight.io experts will review your scope, and your business for the best connectivity options to provide an initial proposal of materials and costs.



DEPLOYMENT

Experts will install your connectivity framework under the management of myinsight.io staff.



AUTOMATION

Sensors are installed and we automate the processes via configuration of your sensors and gateways.



FEEDBACK

Your feedback will be used to ensure your data dashboard is reporting as required, and we make final changes as necessary.

Connectivity

myinsight.io staff are experts in connectivity. The right connectivity choice ensures your business is not relying on unreliable networks that fail when you need them most. We offer a combination of the following options for you:

WiFi – To cover a location with WiFi for connectivity we use a combination of 5GHz and 2.4GHz products deployed in strategic positions to guarantee coverage up to 1.7km Line Of Site (LoS).

LoRa – To cover a location using LoRa for connectivity we would utilise a gateway or base station for up to 15km coverage LoS.

LTE-M – LTE options will connect a sensor directly to a cellular network without the need for a central gateway covering up to 50km from a tower.

Bluetooth – this wireless technology is ideal for exchanging data over short distances (using short-wavelength UHF radio waves in the ISM band from 2.4 to 2.485 GHz), from fixed and mobile devices covering up to 10 metres.

Sensors

We work with a multitude of sensors to suit your customised application including (but not limited to) soil moisture, temperature and electrical conductivity sensors, to analog/digital sensors, level displacement sensors, CO2/temperature, humidity, barometric pressure sensors, vibrating wire for strain or weight and liquid level/pressure and temperature. In addition to these we will work with you on animal tracking, geo fencing, people tracking, asset tracking, CCTV, access control, and more.

Sensor options are as varied as your business requirements and we will recommend the best combination to suit your application.

Platform

Connect, monitor and control all your IoE assets without being an expert. The myinsight.io cloud (or on-premise) platform is designed to collect and collate the enormous amount of data produced by IoE devices and convert it to knowledge using data mining techniques. The platform will support and enable better decision making, greater automation, higher efficiencies, productivity, accuracy and wealth generation.

Features

◆ Easy to use

The platform has a unique drag and drop solution allowing you to customise your solution and gain access to insights without knowing anything about databases, coding or data manipulation. You are not expected to be a data expert.

◆ Pre-built Analytics

The portal is easy to use with pre-built customised widgets to allow you to display your data in ways that suit you.

◆ Easy Device Management

You have complete control over your IoE devices, each device is registered and even grouped to allow easier bulk management, to send commands to devices on-demand with events, notifications, processes and machine learning.

◆ Powerful Infrastructure

Designed for unlimited scalability and maximum redundancy, it is hosted on a cloud across redundant servers and mirrored across geographies for consistent performance.

◆ Secure and Encrypted

myinsight.io provides maximum security in the cloud to ensure that your information will never be made available to anyone without your knowledge.

Installation, Support & Maintenance

Your installation will be project managed by myinsight.io staff via our trusted installer network reaching across Australia.

◆ First line support and maintenance is via your trusted local dealer

◆ Second line support will be directly with one of myinsight.io's solution engineers.

You will have peace of mind knowing that your IoE solution is covered throughout the term of your agreement.

