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DATA & IIoT Capabilities

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THE PROCESS AUTOMATION EXPERTS

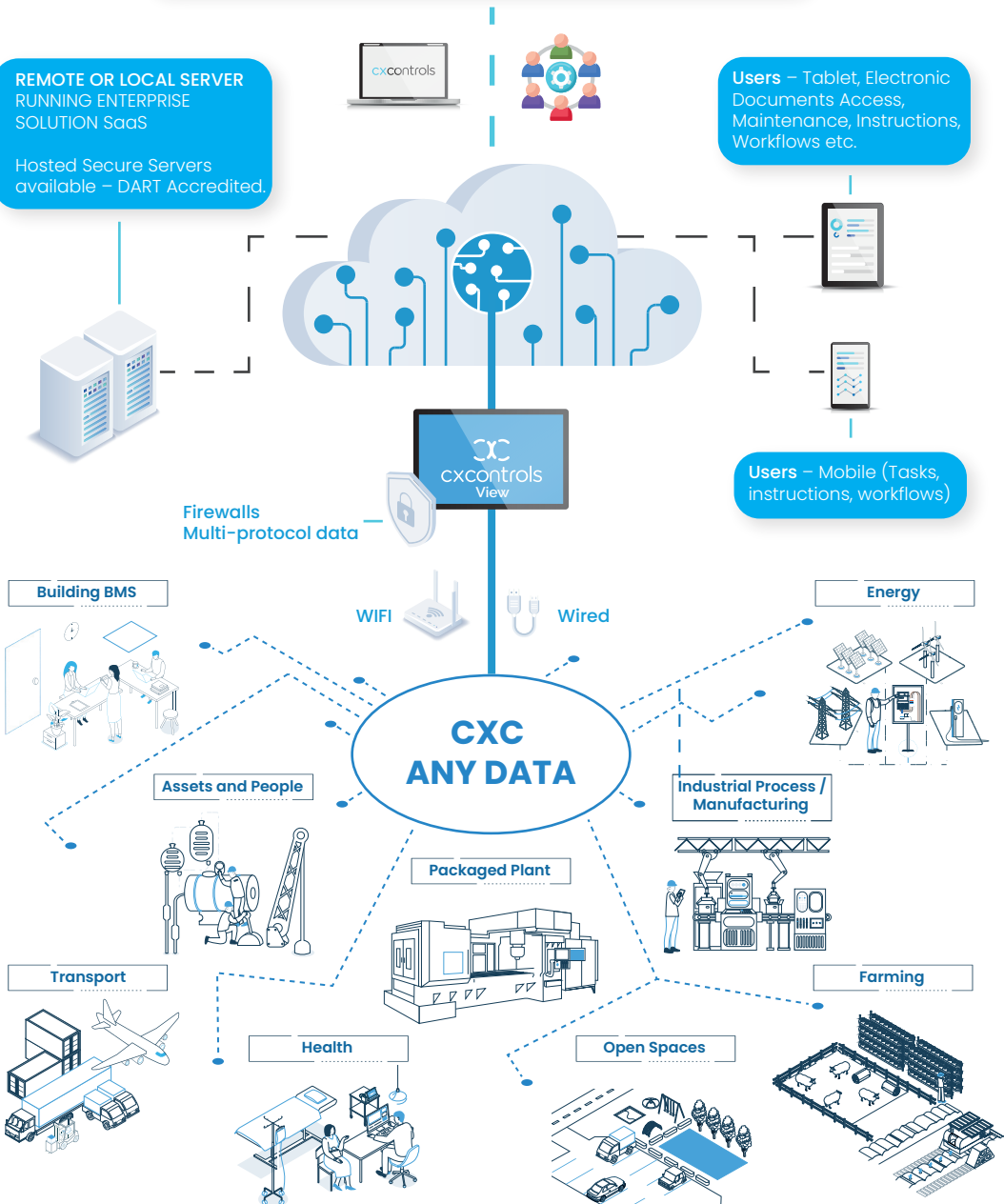**Stakeholders // Managers and Directors**

- Accessing Live Data and Reports.
- Efficiency.
- Consumptions.
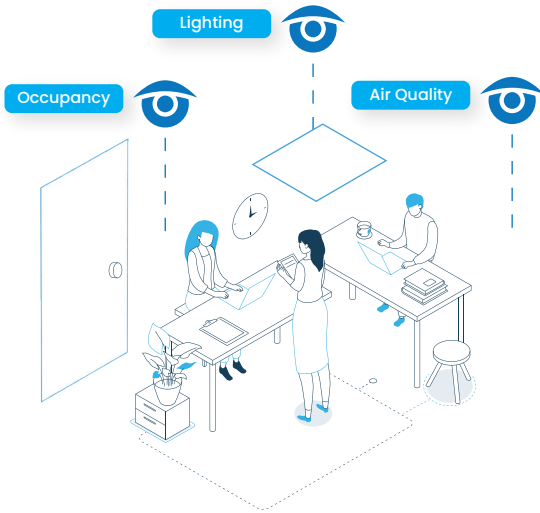- Performance / Locations.
- Metrics.
- Any DATA.

REMOTE OR LOCAL SERVER RUNNING ENTERPRISE SOLUTION SaaS

Hosted Secure Servers available – DART Accredited.

Users – Tablet, Electronic Documents Access, Maintenance, Instructions, Workflows etc.

cxcontrols View

Users – Mobile (Tasks, instructions, workflows)

Firewalls Multi-protocol data

WIFI — Wired

Building BMS

Energy

CXC ANY DATA

Assets and People

Industrial Process / Manufacturing

Packaged Plant

Transport

Health

Open Spaces

Farming

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Building BMS

• **Heating and Lighting**
Control and optimisation of heating and lighting operation and energy consumption.

• **HVAC**
Interact with heating and ventilation plant to account for occupancy and building area conditions.

• **Occupancy**
Monitor room occupancy and interact with heating and lighting controls to minimise energy and building costs.

• **Air Quality Temp, CO2 NOX**
Ensure optimum working conditions for all working areas in order to maximise staff health and wellbeing.

Lighting

Occupancy

Air Quality
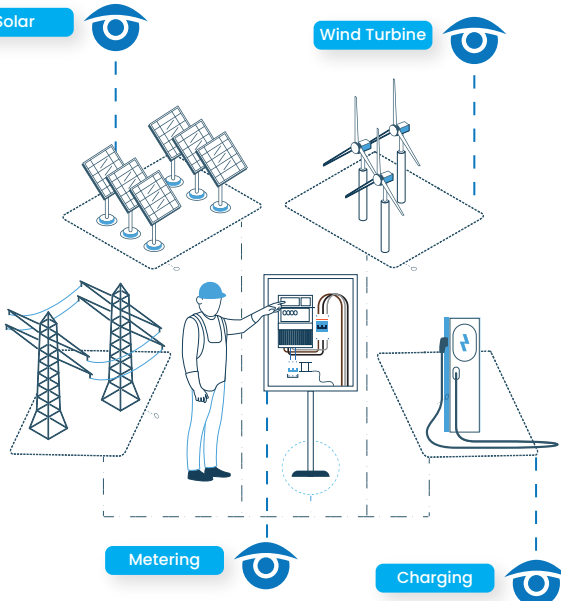
Energy & Newables

• **Metering and Sub Meters**
Ensure energy quality and consumption are measured and controlled.

• **Maximum Demand**
Ensure maximum demand requirements are not exceeded and kept within network operator limits.

• **Reverse Tariffs**
Measuring and monitoring your energy supply is the first step in identifying reduction opportunities and improving supply quality.

• **Tidal/Wind Energy Data**
Monitor remote renewable energy sources such as on and offshore windfarms and tidal generation schemes.

• **Vehicle Charging**
Provide continuous monitoring and maintenance status of vehicle charging facilities.

Solar

Wind Turbine

Metering

Charging

Resources Tracking

Plant Equipment
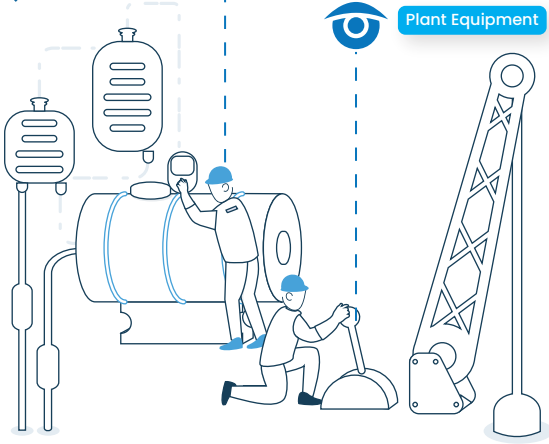
Assets and People

- **Plant Equipment Live Data**
Extract plant data using IIOT sensors over wired and wireless networks, combined with conventional process control systems utilising PLC, DCS and SCADA systems.

- **People in Remote Locations**
Track people in remote locations using wireless and GSM technologies.

- **People in Hazardous Areas**
Capture key data from people and assets in challenging environments, including ATEX and COMAH-regulated sites using approved sensors.
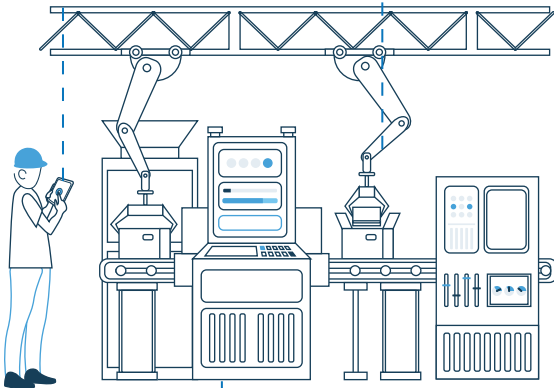
- **Finished Goods Tracking**
Monitor and track finished goods for location and to meet final requirement specifications through final manufacturing phases and ongoing quality into delivery.

Monitoring

Equipment

Industrial Process/ Manufacturing

- **Performance Data**
Extract useful manufacturing process data to establish plant performance for continuous improvement.

- **Condition Monitoring**
Ensure assets are running at peak performance by monitoring their condition and using the data for predictive maintenance purposes.

- **Live Data and Alarms**
Collate real-time data remotely and action critical alarms using cause and effect criteria to prioritise actions.

- **Plant Efficiency**
Remotely measure the efficiency of your process or manufacturing plant by monitoring and reporting key metrics such as Energy, Throughput, and Raw material usage.

Reporting Metrics

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Shipping

Fleet Management
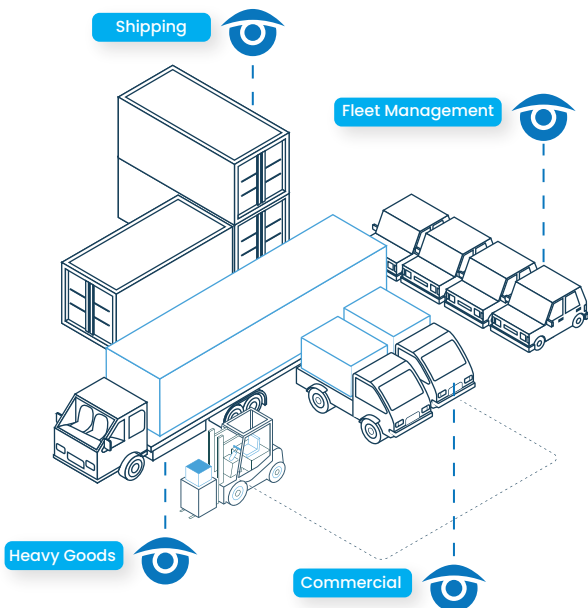
Transport

- **Fleet and Delivery Tracking**
Fleet vehicle tracking for haulage and delivery vehicles, including secure and temperature control vehicles.

- **Construction Plant Health and Tracking**
Monitor and track expensive plant vehicles for location, performance, and maintenance.

- **Driver Behaviour**
Control and monitor driver's tachometer requirements and behaviour to improve safety and reduce costs.

Heavy Goods

Commercial

Analysis

Predictive Failure
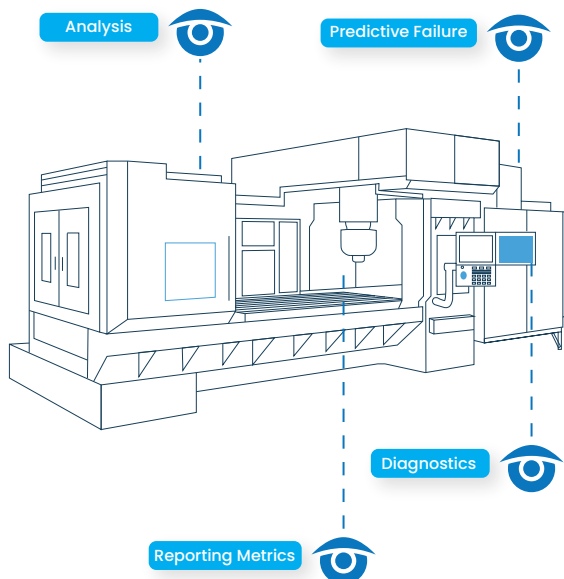
Packaged Plant

- **Condition Monitoring**
Embedded sensors into packaged plant and equipment to ensure maximum performance and advanced warning of maintenance requirements, predicting failures before they happen.

- **Remote Diagnostics**
Remotely connect to machinery and plant from anywhere to diagnose issues and analyse machine performance, reducing costs and minimising workforce travel.

- **Consumable Tracking**
Be in control of machine consumables with remote systematic reporting of reorder levels to ensure continued operation.
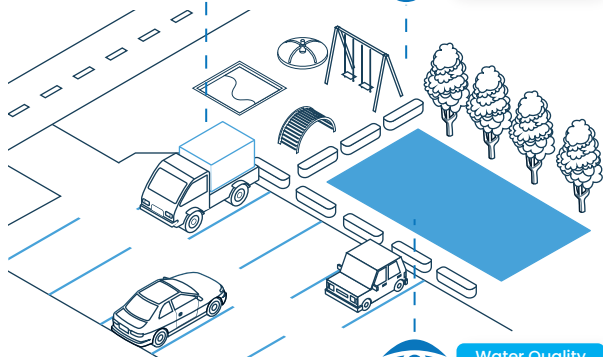
Diagnostics

Reporting Metrics

Open Spaces

Parking management

Air Quality

Water Quality

- **Public Air Quality**

Cloud-based monitoring of outside air temperatures, humidity, pressure and quality using the latest IOT sensors over the cloud.

- **Pollutants**

Monitor congested and urban areas with IoT, gas and particulate sensors, including CO2 and NOX.

- **Parking Management**

Continuous monitoring of parking and available space requirements to maximise flow and minimise congestion in built-up areas, centralised control and optimisation.
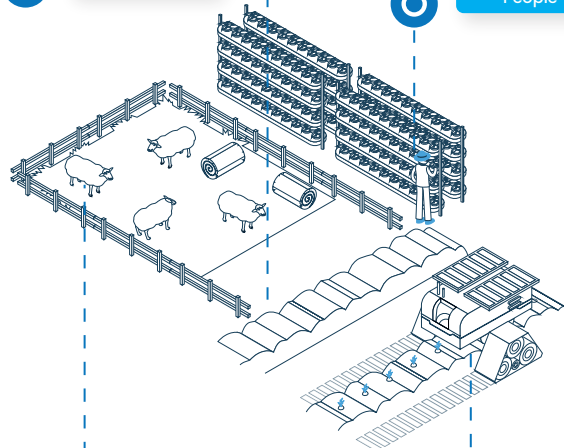
Farming

Soil

Weather

People

Livestock

Air Quality

- **Livestock**

Remote IoT solutions for the tracking of valuable livestock.

- **Soil**

Determine optimum soil conditions for maintaining crops and harvesting yields.

- **Weather**

Monitor IoT weather stations for predictive purposes.

- **Equipment**

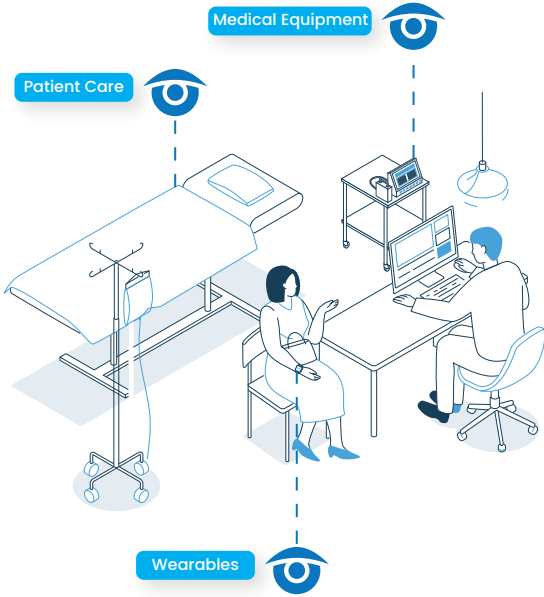Track, monitor and maintain expensive farming plants and equipment using embedded IoT sensors.

- **People**

Track locations of large workforces across vast areas using IoT people-tracking solutions.

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Medical Equipment

Patient Care

Wearables

Health

- **Connected Wearables**

Secure live monitoring of medical health and/or fitness and well-being through the advanced technology of wearables, bringing health care to patients.

- **Hygiene Monitoring**

Secure medical facility workplace cleanliness and environmental compliance monitoring.

- **Remote Diagnostics**

Secure expert medical diagnostics performed remotely using non-invasive procedures, providing early warnings by capturing early vital signs.

Get in touch

Driving down costs.

Increasing efficiency.

Reduce carbon footprint.

Contact us for more information on specific sensor usage and specifications.

ALWAYS AVAILABLE DATA, WHERE YOU WANT IT, WHEN YOU WANT IT by CXControls.

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equality pledge

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ISO 14001 , ISO 9001

8320

Cert No. 11635
ISO 45001

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