Connecting People & Businesses to the
Internet of Things

IoT devices is forecasted to grow to 31B worldwide in 2020, and over 75.4B devices by 2025

- Statista

Improving customer experiences (70%) and safety (56%) are two main areas enterprises use data generated from IoT solutions for today's use.

Pressure and Temperature sensors account for **62% of globally enabled IoT sensors.** Light sensors, Chemical, Motion and other sensors are the remaining market.

Building Solutions for People & Businesses

Many enterprises and businesses have yet to realise the promised benefits or expected value of IoT. To realise true business value, here are four steps every organisation needs to go through to realise the true business value of their IoT efforts.

1 Gather Data

As the number of IoT devices increase, more data is generated. Hence the importance for the gathered data to be in readable and usable formats.

2 Visualise Data Patterns

Data becomes valuable when it is visualised to identify patterns and trends. Organisations need to comprehend and explain data that makes sense to business owners and stakeholders.
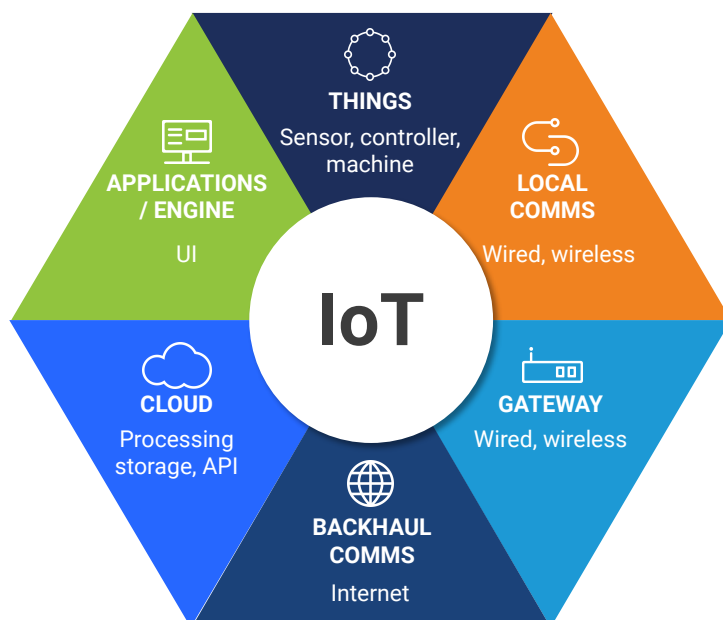
3 Advanced Analytics

Data analytics allows coupling of real-time IoT device data with historic information for a complete picture of your devices and your environment.

4 Infuse with AI

Use Machine Learning to create intelligence. Distil it down to the most relevant pieces and find data sets that actually matter.

Internet of Things (IoT)
Key Elements

THINGS
Sensor, controller, machine

LOCAL COMMS
Wired, wireless

APPLICATIONS / ENGINE
UI

IoT

GATEWAY
Wired, wireless

CLOUD
Processing storage, API

BACKHAUL COMMS
Internet

Green Koncepts can help your business at every step of the IoT value chain. From integrating sensors, controllers and machines, to utilising cloud computing to collect and process large amounts of data through analytics, which will be presented on customised business applications and dashboards.

Your asset managers can gain a holistic view of the actionable insights around all of your integrated systems, infrastructure and applications to make business-driven decisions that drives real value across all of your assets.

A Single, Open and Inter-Operable IoT Platform for Big Data

Developed on an open and interoperable cloud-based platform, Green Koncepts' Energetix™ is completely vendor-agnostic, connecting to any sensors, meters, controllers, building management systems and other equipment. It integrates and aggregates unlimited data streams - turning massive data into valuable actionable insights for optimum asset performance and sustained savings. Its powerful visualisation, advanced analytics, intelligent controls and flexible reporting tools help to identify underperforming facilities and processes, make changes and measure continuous performance improvements and meet all reporting demands.

MANAGE
Monitor, analyse & manage utilities, air quality & other parameters on a single platform

INTEGRATE
Integrate all sensors, meters, controllers, equipment and building management systems (regardless of vendor or brand) securely on our open & interoperable platform

SCALE
Scale from a single site to multiple sites across geographical regions, on-demand, over the cloud

OPTIMISE
Use Machine Learning and Big Data to find patterns, help optimise and ultimately prevent equipment failures.

Comprehensive suite of Energetix™ IoT Applications

Energy Management
An integrated energy management system that aggregates and analyses IoT data from across disparate building systems to drive smart energy behavioural change.

Air Quality Management
A smart environmental monitoring solution that uses an IoT network of connected sensors to manage, optimise air quality and influence users' behaviour through public awareness.

Lighting Management
An intelligent lighting management solution that drives operational efficiency and energy sustainability through lighting optimisation based on occupancy and lighting levels, and provides remote lighting control for offices, buildings and street lightings.

Occupancy Management
Monitors the use of spaces within offices and buildings to increase efficiency in space management and keep occupants safe while remaining compliant with social distancing regulations.

Data Centre and IT Infrastructure Monitoring
Unifies IoT data from disparate IT and facility systems to deliver a complete picture of data centre performance for continuous operational improvements.

Condition Management
Enables the remote management and control of equipment conditions and status for operational efficiency, and provides early detection of potential issues for predictive maintenance.

Use cases &
Benefits

Create a conducive environment for occupants in offices and buildings
Utilise air quality management solution to reduce exposure to air contaminants, regulate temperature and create a healthier, clean and comfortable environment.

Influence user behaviour by focusing on energy usage and efficiency
Understand your current energy usage to drive energy conservation initiatives. Automatically power down your facilities when not in use.

Anticipate and prevent equipment failures
Closely monitor your equipment conditions for abnormalities and faults to prevent incidents that can disrupt your business.

Maximise the efficient use of co-working space
Transform your work spaces with IoT through smart energy consumption and utilisation. Optimise HVAC power and lighting consumption using occupancy sensors at work spaces, office entrances and exits.

Enhance public safety and with a safe environment
Integrate IoT systems into public safety systems to improve the speed and efficacy of emergency response, and increase disaster prevention and mitigation using noise sensors, smoke and fire sensors.

Ensure occupant health, safety and well being
Use occupancy sensors and people counters to manage occupancy and no-go zones, and facilitate occupant social distancing while ensuring privacy.

Flexible and Modular Solution

Energetix™ is an industry highly scalable and open IoT platform for facility, operations, energy and sustainability professionals. Its high flexibility and modularity allows businesses to deploy a lighting only module or go with a suite of energy management applications that ranges from power to water to ACMV management, depending on facility requirements.

With a complete suite of Energetix™ IoT Applications, Green Koncepts helps make management simple. Contact us to discover how our Energetix™ IoT Applications provide a cost effective and efficient solution for your properties and assets.

green koncepts

Green Koncepts Pte Ltd
750C Chai Chee Road #03-15,
Viva Business Park
Singapore 469003
T: +65 6245 9332
F: +65 6245 9319
E: info@greenkoncepts.com