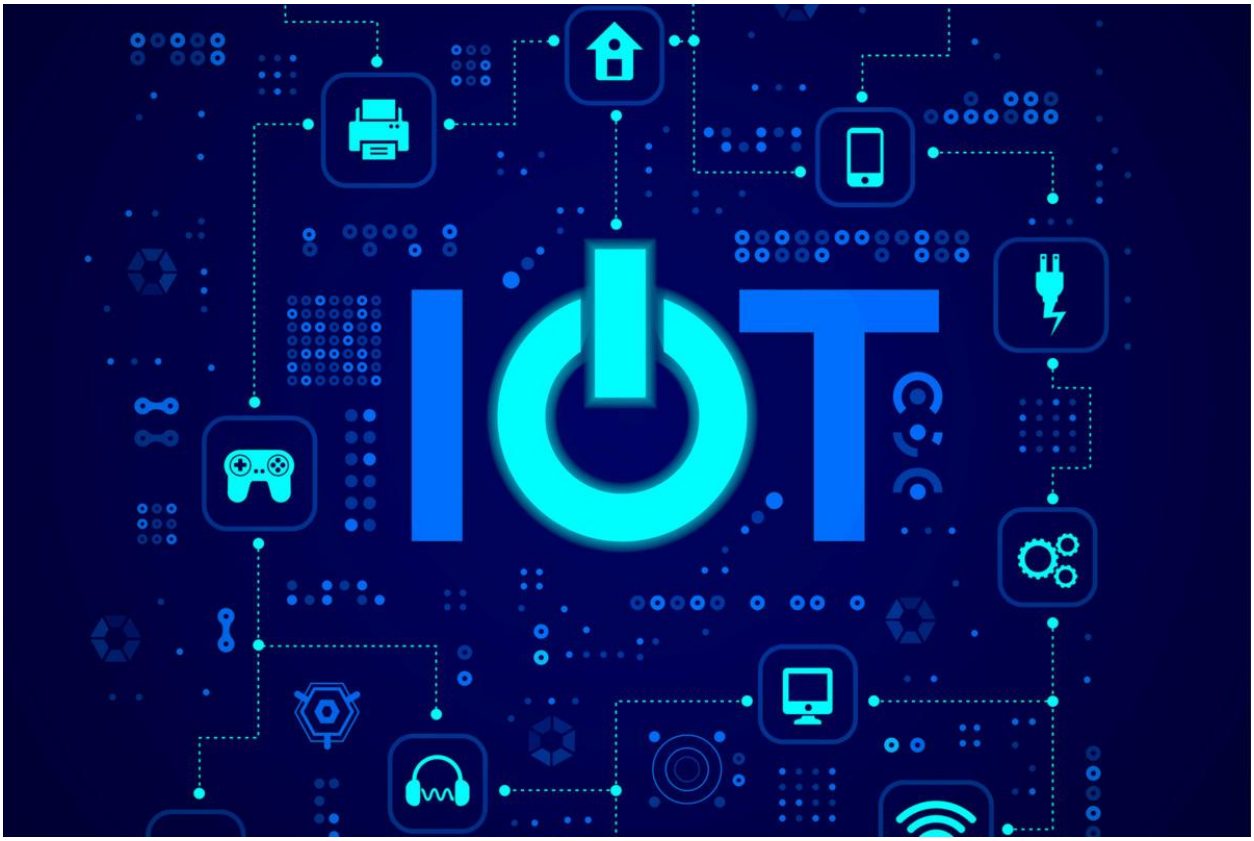
The Big Picture

… "The **Internet of things** (**IoT**) is a system of interrelated computing devices, mechanical and digital machines provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction" … according to Wikipedia.

Simply put, IoT is the collective for connecting anything to anything. IoT, like AI and other related technologies and innovations, is associated with the 4th Industrial Revolution / Industry 4.0. It seeks to drive the integration of real-time, connected digital devices to provide higher efficiencies in inter-related systems.

With the growing expansion of fibre reticulation all over the world, together with the imminent large-scale deployment of 5G mobile data capability, IoT is on an upward trajectory and these data distribution platforms will speed up the adoption of IoT solutions.



Why IoT

Today, virtually every industry sector has deployed some form of IoT solutions which integrates various sensors that provides consumers, industries and commercial enterprises with value-adding applications ranging from home security to healthcare, automotive to military, and manufacturing to agriculture sectors.

Even though IoT and Ai have overlapping applications, AI is mainly focused on using remote sensing to

collect data and convert this data into intelligence, and IoT is mainly focused on remote access to and intelligent control of large digital ecosystems through digitally connected devices.

This is important, as IoT solutions, properly defined and designed to specific requirements, have the ability to integrate a multitude of devices through single interface applications and thus simplify the way we do things, control things, and use things. Ultimately this drives efficiency, effectiveness whilst forcing costs down.

What we do

We are a leading provider of digital technologies delivering secure and intelligent real time/low latency solutions in different market segments.

IoT is no exception as we focus our IoT solutions on three platforms that each offer specific solutions for the Automotive Industry, Smart Home and Infrastructure Monitoring.

What we offer

Vehicle Telematics

We focus on the Insurance market, aftermarket automotive customers, car rentals

& car sharing fleet companies, industrial & commercial vehicle fleets, and public transportation sector.

Our product range consists of:

- Interactive Black Box for automotive applications
- Breath lock (Biometric Alcohol sensitive) solution
- State of the art driver behavior and fleet tracking to the latest in-car passengers monitoring

Smart Home Security

We focus on the supply of IPC and a suite of customisable advanced home-based IOT devices to Commercial and Industrial value adding partners in risk, site, and asset management.

Our product range consists of:

- An IOT platform empowering Home & Site Security and Access Control with a wide range of professional and cloud-based sensors & recording
- Advanced and Multifunction SW tools and applications (iOS and Android)
- Integration with private professional security enterprises to provide holistic risk, site, and asset management

Infrastructure Monitoring

- Our “Structural Health Monitoring Systems Platform" is offered as "turnkey services” with various private security companies at worldwide level

- Our solution includes all activities from initial survey, to provision and installation of sensors, data collection and processing, up to the surveillance activity itself, performed by a full time (24/7) Operating Center with Operators trained to take action should an emergency situation be detected.
- We make use of IBM cloud and Microsoft Azure cloud solutions to provide low-latency, high availability solutions.
- We offer training and full SLA level monitoring.

Benefits of IoT

- **Productivity improvement**: IoT allows the monitoring and control of different processes, then combines the outputs, which optimises different operations that increase productivity and efficiency.
- **Predictive analysis**: Collection of a large amount of data, making it possible with IoT's to examine recurring patterns and contribute to predictive analysis, which can be used mainly in maintenance, improving existing processes and services.
- **Rapid response**: Local and remote monitoring of systems and using the data to optimise maintenance interventions in real-time.
- **Reduction of human errors**: Together with technologies such as artificial intelligence, IoT makes it possible to reduce human errors, eliminating mundane or repetitive tasks.
- **Collaboration with AI technology**: There are billions of cameras or sensors of IoT tech deployed around the world, and these resources generate massive amounts of data every day. AI is the "smart system" with the ability to learn over time with more information being presented to it. Thus, it improves user experience and the performance of IoT devices overall with numerous advantages.
- **Security Improvements**: As with AI and other technologies, data security has been and still is the number one priority with huge focus on security and customer safety that are key for all the industries.
- **Asset tracking & waste reduction:** The drive for better efficiency and productivity is focused on reducing waste and IoT tracking is integral to these aspects. **T**he more components there are in a business operation, the more benefit can be derived from IoT implementation with the supply chain industry currently the biggest adopter of IoT solutions.