

IoT

## Manufacturing

Increasing Energy costs, staff shortages, raw material cost and availability, are all adding to the challenges faced by the Manufacturing Industry.



### The challenge for the Manufacturing Industry

As manufacturing recovers from BREXIT and the Covid pandemic, there are a new wave of challenges: Supply chain issues, high energy costs, lack of skilled employees, raw material costs and shortages, and increased competition from abroad, can all be addressed with adopting IoT technologies.

### How IoT technology is improving, enabling and benefitting the Manufacturing industry



#### Supply chain

Not only does IoT in the supply chain optimisation keep managers updated on whether a particular raw material is available; it informs on the status, location, and condition of each item in real time. IoT solutions in manufacturing prevent the loss of goods.



#### Raw materials

Using the power of IoT, efficient and effective use of raw materials and the reduction of waste can be monitored minute by minute. Every scrap of material available and its efficient use can help reduce cost and time.



#### Energy management

Adopting IoT technologies allows for the monitoring and control of all energy usage in the manufacturing process. From inbound raw material delivery cost, through production and on to delivery of finished products, IoT solutions allow for real time data capture and usage fluctuations



#### Production

Adopting IoT in the production process enhances product quality and factory yields. Quality control checks can be automated reducing labour time and cost. M2M automation allows users to capture performance and insight to a particular manufacturing process.

### What is a Manufacturing Industry IoT Solution?

Here are the 3 key elements:

#### THE HARDWARE

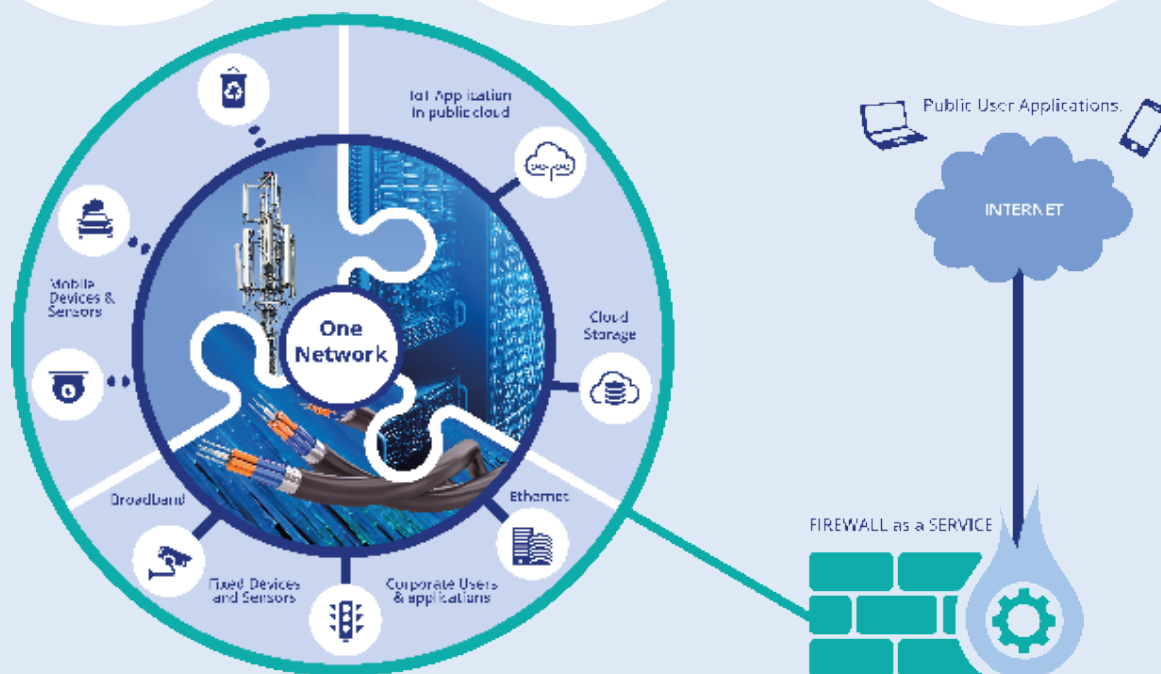
Sensors, devices and SIMs installed around the city to collect and record raw data.

#### THE CONNECTIVITY

The link between the hardware devices and the cloud based software applications using intelligent networking and data connectivity.

#### THE APPLICATION

Smart applications and data analytics which translates raw data into information, alerts and action presented in a management platform.



Let Spitfire simplify the process by offering a secure private MPLS network for your IoT solution, significantly reducing the time spent configuring and securing your data network:

- Highly secure by avoiding public internet traversal
- MPLS / Private APN networks available
- Fixed public and private IP addresses
- Avoid need for encryption
- Single provider for all connectivity
- Flexible pricing plans
- Single bill and point of contact
- Easy to manage and support

**One network, one supplier, one bill, one contract, one contact.**

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