DIGITAL SURGE PROGRAMME

Demystifying Industry 4.0: the case for transformative technologies.

Cheat sheet

Internet of Things

The Internet of Things (IoT) refers to a system of interrelated, internet-connected objects that can collect and transfer data over a wireless network without human intervention. IoT devices are basically "smart" devices that make "smart" systems (for e.g., smart home, smart factory, smart farms, smart cities, etc.).

Overview	Challenge	Solution	Results
If machines could talk - and tell you when they were going to break down.	When a machine is not functioning properly, productivity drops. How can you tell, quickly, that something is wrong?	IoT sensors on agricultural machinery were connected to the cloud. Managers & workers received immediate notifications when the machine was not functioning properly.	This also resulted in predictive data analysis from the information provided. Engineers started to build a picture and predict when the machine would break and plan maintenance. This increased productivity to 100%.
Remote Monitoring - Improving work performance.	Staff shortages for a civil engineering company reduced the number of onsite visits that could be carried out.	Rather than manually taking readings and producing reports, data was collected on IoT sensors, uploaded to the cloud and this generated a report.	Improved efficiencies, enabling the company to take on more projects and increase their customer base.
Blinding the competition - how to get a USP with IoT.	Consumers want smarter, simpler everyday devices.	Blinds that are IoT enabled - features include a camera, thermometer, lighting and sensors, allowing for seamless integration into the home environment.	"Work still on-going on IoT products at Bloc Blinds as it is an exciting space with loads of potential!" **Read how Magherafelt's Bloc Blinds has incorporated IoT technologies**

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