DIGITAL SURGE PROGRAMME

Demystifying Industry 4.0: the case for transformative technologies.

Big data

Large data sets that can be analysed to reveal patterns, trends, and associations. The amount of information we can generate, and store is continually increasing, as well as the potential for us to produce richer insights from this data. Big data has the potential to significantly increase productivity, enhance decision-making through analysis of data, and increase profitability.

Overview	Challenge	Solution	Results
Intelligent Heaters – Making money through data.	How to add value to a commodity device?	Sensors and application which allow data to be uploaded to the cloud.	A new revenue stream: selling energy grid providers information that allows them in turn to produce optimal energy.
Knowing your customers – Making the best decisions using data.	How to increase revenue and reduce food waste?	Data analytics of top sales.	Harnessed big data to gather more detail about bookings, including gender and age etc., to predict what people will order and reduce food waste.
Sensing a temperature drop? Increasing reliability & preventing money loss.	The unreliability of commercial fridges leading to food waste.	Putting temperature sensors in commercial fridge. A Co Down restaurant was able to monitor temperature remotely using an app. As soon as it dropped dramatically, they received a notification.	This reduced food waste and prevented money being wasted.
Get on your bike!	A great 'intelligent' and daylight visible bike light – but how to open up new markets and revenue streams?	Bike lights connect via a low-energy Bluetooth to a free companion app on a smartphone.	Selling data to cities to make cycling safer. **Read how Ards company See.Sense uses data to make cycling safer, and collectively smarter!**