# **Big Data & Analytics**

## **BIG DATA - WHAT IS IT?**

Some people thought it was 'just a fad' and would go away. - Creates business opportunities - do it or fall behind.

BIG DATA - DEFINITION - There is little consensus on "how big the data has to be to qualify as 'big data'".

#### **BIG DATA - WHAT ARE THEY?**

The 'internet of everything', the connections, and connected devices. People generate massive amounts of structured as well as unstructured data, creating a data influx or 'sea' of data.

Data is being generated at the speed of thought and will grow exponentially - we cannot simply discount or ignore it.

#### THE 5 VS OF BIG DATA

- **Volume** scale of data available for analysis
- Variety different types available for analysis e.g., unstructured data, social media, images, videos etc.
- Velocity rate of data generation and processing
- Veracity trustworthiness of data in terms of accuracy
- Value big data is of no use unless turned into something of value.

BBC News (2015) - Doctors in London have stored more than one and a hand to Guid beating human hearts in digital form on a computer. - aim to discover new treatments by computing detailed info on the hearts and patients' genes. Latest project which makes use of advances in sterior large amounts of information.

Wall, M. (2014) - US Centres (Colored and Browntien collect mobile phone activity data from mobile operators - may Mel Calls to helplines are produced in the produced pr

## **RECENT NEWS**

The Guardian (2018) - Vodafone is partnered with the government of Ghana to share the movements of its customers to help track and contain the spread of epidemics such as Ebola. Vodafone said it would provide real-time tracking data from its millions of customers in Ghana - provide a "heat map" of where people are and how far they are moving A data privacy expert warned that although using large-scale, anonymised information may appear to protect individuals from identification, Vodafone will still have to be very careful not to breach people's rights.

# **BIG DATA - BUSINESS OPPORTUNITIES**

**Whatis.com** - Big data analytics is the process of examining large data sets - to uncover hidden patterns, unknown correlations, market trends, customer preferences and other useful business information.

- Findings can lead to more effective marketing, new revenue opportunities, better customer service, improved operational efficiency, competitive advantages over rival organizations and more...

Kent, P. (2012) - Decisions mould company strategy - which markets to enter or what products to develop. Today, as the world globalises and the pace of change quickens, managers must make high-pressure decisions faster. Savvy managers turn to analysing data - on their customers, operations, risk and more - for guidance. E.G., traditional databases as well as unstructured text from call-centre logs, social media and more - into their decision-making to achieve competitive insight. - The value placed on data by firms has grown rapidly. Among all the benefits of analytics, respondents most frequently cited faster decision-making.