

Benefits of Big Data for organisations

Enterprise agility

Real/right time

Unified view

Products/services optimisation

People (talent) acquisition, retention and satisfaction

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Enterprise agility

- Ability to sense environmental change and respond efficiently and effectively to that change.
- Leveraged use of technology, supported by their enterprise architecture and IT infrastructure.



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Process simplification

- New ways to streamline business processes to achieve speed and flexibility required to satisfy new or evolving market conditions.
- For example, using Big Data to support automated personalisation.



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Real time / 'right time'

- Real-time integration and on-demand analytics.
- For example:
 - Real-time analytics of inventory levels to feed upstream replenishment applications for just-intime manufacturing
- Right time depending on decision cycle times.



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Customer retention

- Customer churn much more choice!
- Customers likely to move to the next new thing.
- Growth in customer loyalty programs supported by Big Data.



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Banking on Knowing Your Customers Better

- Opportunity:
 - Actively engaging a greater number of customers to ensure their satisfaction and retention.
- Data and Analytics:
 - Capturing and centralizing customer activity of 12 million customers, including bank website browsing history, ATM usage, call center and others.
 - Matching behavior versus dozens of offerings and potential acceptance using SAS.
- Results:
 - Launched "KnowMe" system to engage customers.
 - Grew customer engagement (offers presented) from less than 1% to 25% of customers. Goal is to reach 80%.
 - Recommends nearby Westpac ATMs to save money when customer regularly uses another ATM.

Gartner.

Mestpac



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Challenges – organisational readiness



- How will Big Data help achieve the organisation's business goals?
- How can Big Data help improve decision making process?
- How will Big Data governance be managed to ensure accountability?
- Fear of privacy and confidentiality violations.

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Challenges - infrastructure

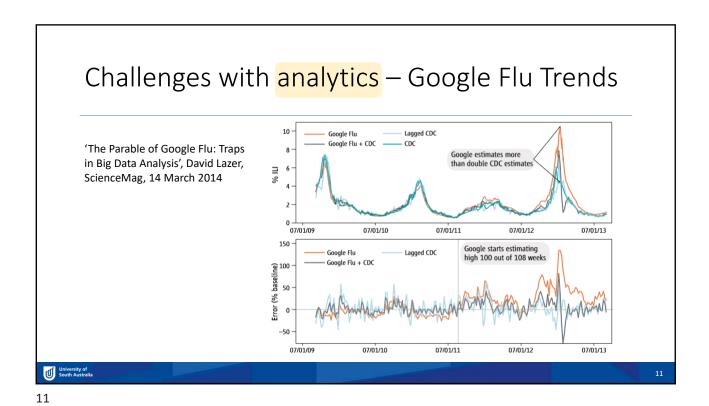
- Support workload performance, capacity, availability, recoverability, security and monitoring
- Describe what is needed, ensure performance or availability levels are being met
- Constantly evolving technology: vendor locked solutions vs. open frameworks



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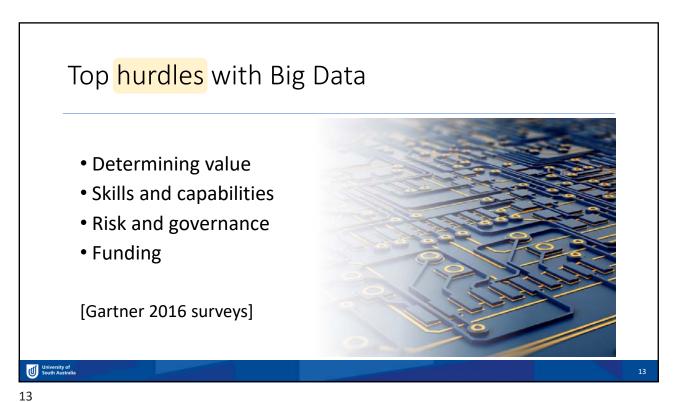


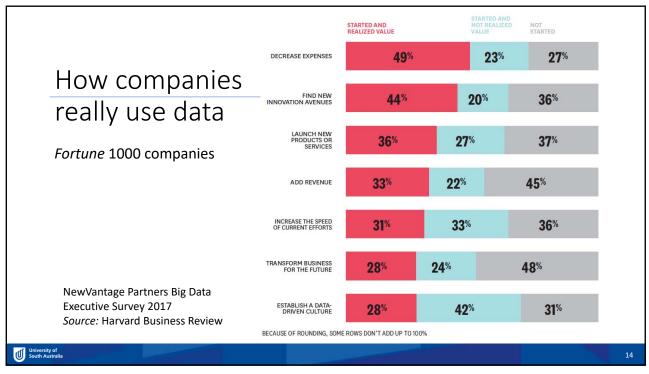
Microsoft Tay experiment disaster (2016)

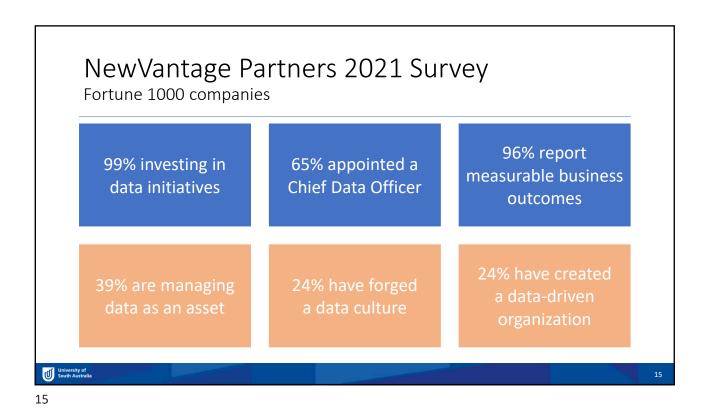


- An experiment at the intersection of machine learning, natural language processing, and social networks.
- Let Tay the chatbot discover patterns of language through its interactions online.
- More than 95,000 tweets in 16 hours, increasingly abusive and offensive due to concerted trolling.

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