

Cloud and Big Data

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"Big data" – the huge volumes of information generated by the planet.

VOLUME



VELOCITY



Identify potential fraud

VARIETY

350 billion meter readings per annum

Predict power consumption



665tb

Data per hospital in 2015 IBM analyzes
\$100 billion
in commerce
transactions a year
in cloud

80% Of the world's data is unstructured



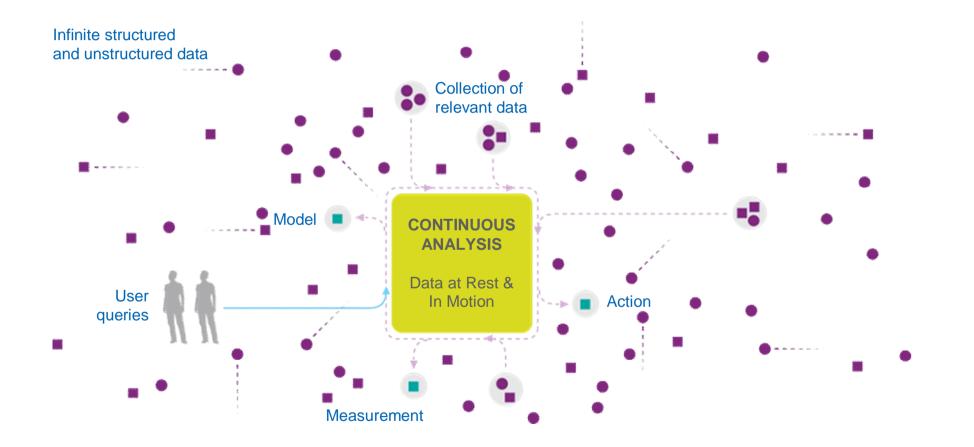
The Point of Big Data - It is about more than simply a matter of size; it is an opportunity to find big insights.*



Highly flexible cloud platforms support data initiatives for pattern analysis, **non-obvious relationship assessment** and risk profiling.



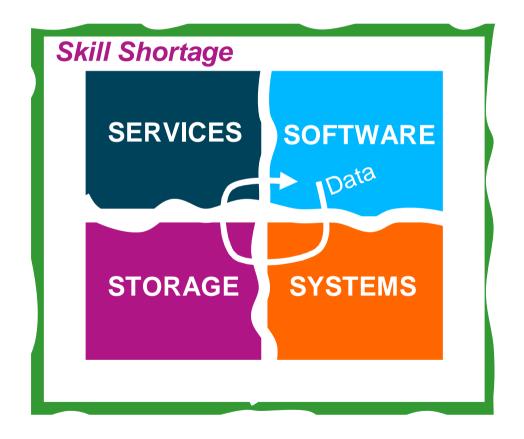
The key is removing noise from this high velocity, highly variable data to discover key insights while still relevant



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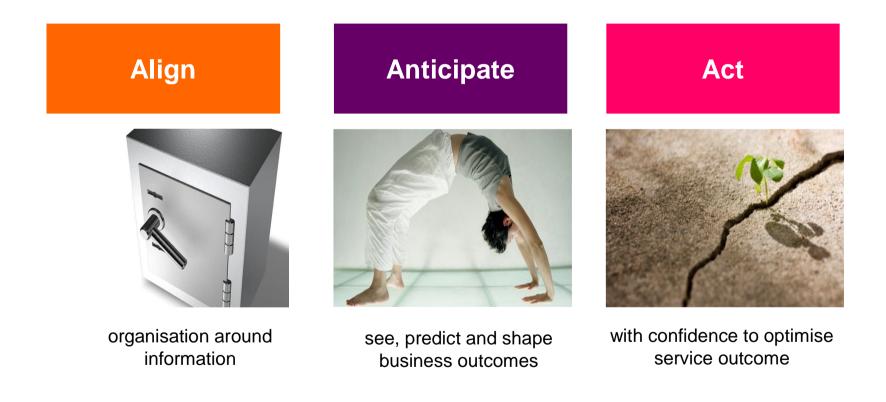


According to Gartner, **85%** of Fortune 500 organisations will be **unable to exploit big data for competitive advantage** through 2015.





Companies are turning to Cloud based solutions to store, retrieve and make sense and use of data in any format, in any volume, in real time.



 $https://www-304.ibm.com/connections/blogs/bcde08b8-816c-42a8-aa37-5f1ce02470a9/entry/march_22_2012_11_16_am34?lang=en_using the standard standard$



Align

Deploy an information and big data cloud strategy that flows from your business strategy.



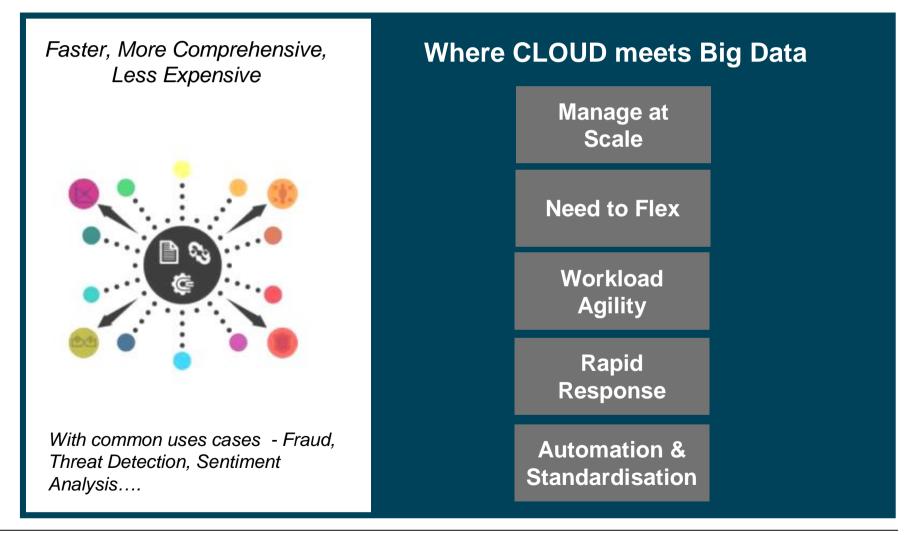


http://www-01.ibm.com/software/success/cssdb.nsf/CS/STRD-8VLN2U?OpenDocument&Site=default&cty=en_us

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Imagine the Possibilities of Analysing **A**II Available Data -Joining up data across traditional silos and pooling resources





Cities of all sizes use cloud to integrate data across city operations to help improve the delivery of citizen services.



http://public.dhe.ibm.com/common/ssi/ecm/en/giw03021usen/GIW03021USEN.PDF



Rio de Janeiro cloud based data solutions **emergency response system planning**.

http://www.ibm.com/smarterplanet/us/en/smarter_cities/overview/index.html



Align

Typical considerations for Cloud Based Big Data activities

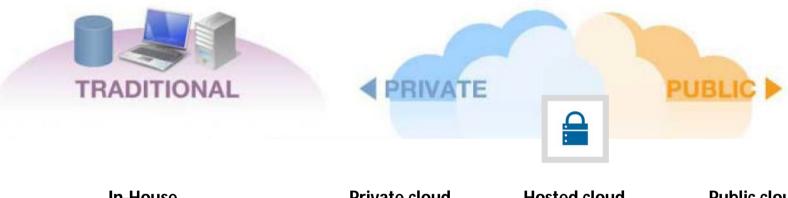


The challenge becomes one of integration, coexistence, and recognising what solution is best for a given data set, service outcome & workload.



Align

Determining your highly valuable data from commodity data will affect how you span onpremise and off premise data workloads



In-House for For Organisations with deep Big Data skills Private cloud for High Value Data Sets that are Enterprise Unique

Hosted cloud for Commodity Data sets with High Volume, High Capacity

Beware the economics of data in cloud

Public cloud for Data mashups, Social Data,



Improve Services - See, Predict and Shape Outcomes

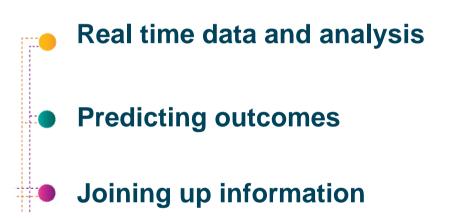




Companies get ahead by **extracting value** from the big data explosion

With Cloud PAYG flexibility -

Detecting usable patterns and trends in the data generated.



Embedding past, present and future insights into your operations and processes



Real time data and analysis

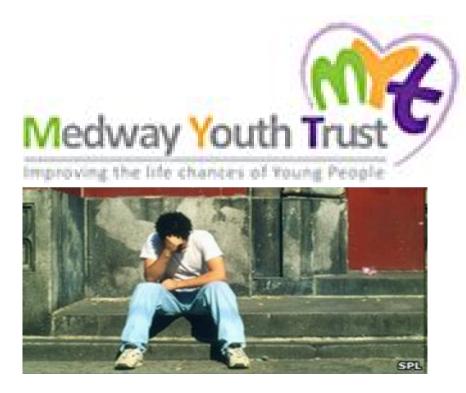
Cloud supports the data volumes, shift in customer experience and analytics at Wimbledon







Predicting outcomes Context-based services are driving the next wave of cloud based data adoption



Analytics software applied to NEETs – Not in Employment, Education or Training.

Now on UK Gov Cloudstore



Joining up information

Anticipate

Stadiums in the Clouds



http://public.dhe.ibm.com/common/ssi/ecm/en/mew03006usen/MEW03006USEN.PDF

Connecting Healthcare in the Cloud



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Act

Smart enough to reason and return confidence-based responses for the next best action



http://www-03.ibm.com/press/us/en/pressrelease/38153.wss



Act

Big Data from the Archive Partnering for success - Cloud Big Data Services beyond Archive as a Service

- Award Winning Partnership between British Library & brightsolid
- To digitise every newspaper ever published in the UK
- Currently covers titles from 1710 -1950 and is approaching a PetaByte of Data
- >10,000 pages of full text searchable historical archive published online every day







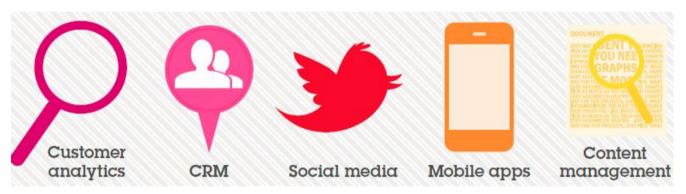


Actionable Insight

Act

In today's marketplace, customers say they're not happy, companies must decide how to react - not later that day, or in an hour, but instantly

The value is in the speed and accuracy of response



* Sourced from IBM CMO Study Infopic: http://www-935.ibm.com/services/uk/cio/cmo/CMO_infographic_V12.pdf?ca=CMOstudypage

Social Data, Social Technologies and Mobile Computing are accelerating cloud adoption and shaping big data questions



Act Listen, Learn, Adapt Navigating big data to uncover the right information is a key challenge.



Watson can pore through equivalent of 200m pages of data and formulate a response in 3 seconds



In Conclusion What have we learnt from our Big Data cloud journey?

Winners in the era of cloud and big data will be those who unlock data assets to drive innovation, make real-time decisions, and gain actionable insights to be more competitive.

Plan an Information Agenda

to align with your strategy and priorities

Align Your Information

to govern the creation and use of an integrated set of accurate and relevant information Apply Outcome Analytics

to measure, anticipate and shape business outcomes

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