



[2.3 TRILLION GIGABYTES] of data are created each day









WORLD POPULATION: 7 BILLION

Most companies in the U.S. have at least 100 TERABYTES

[100.000 GIGABYTES] of data stored

The New York Stock Exchange captures 1 TB OF TRADE

INFORMATION during each trading session



ANALYSIS OF

By 2016, it is projected there will be

18.9 BILLION **NETWORK** CONNECTIONS

- almost 2.5 connections per person on earth



Modern cars have close to **100 SENSORS**

that monitor items such as fuel level and tire pressure

Velocity

STREAMING DATA



The FOUR V's of Big **Data**

break big data into four dimensions: Volume,

4.4 MILLION IT JOBS

will be created globally to support big data, with 1.9 million in the United States



As of 2011, the global size of data in healthcare was estimated to be

150 EXABYTES



30 BILLION PIECES OF CONTENT are shared on Facebook

Variety DIFFERENT

FORMS OF DATA

HEALTH MONITORS 4 BILLION+

WEARABLE, WIRELESS

By 2014, it's anticipated

there will be

420 MILLION

HOURS OF VIDEO are watched on YouTube each month



are sent per day by about 200 million monthly active users

1 IN 3 BUSINESS **LEADERS**

don't trust the information they use to make decisions



in one survey were unsure of how much of their data was



Poor data quality costs the US economy around \$3.1 TRILLION A YEAR

Veracity UNCERTAINTY OF DATA



THINK B16



Real World Use of BIG DATA

Kieran Hagan – Information Management Technical Manager **Tim Brown** – Information Management Technical Pre-Sales



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The definition of "Big":



- 1) of considerable size or extent:
- 2) of considerable importance or seriousness:
- 3) [predic.] informal, often ironic generous: 'I'm inclined to take pity on you.' 'That's big of you!'

(Oxford online dictionary; http://oxforddictionaries.com/definition/english/big?q=big+)

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Gaining Insight from your Information











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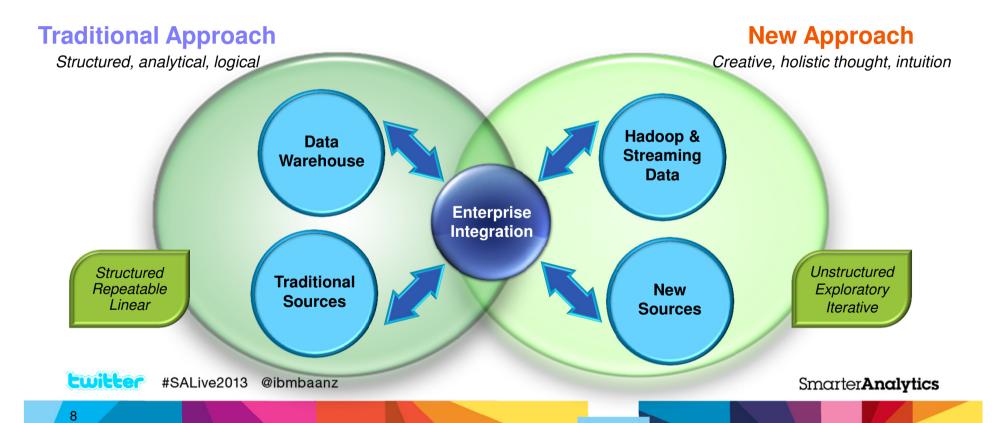
Resolving information management challenges outside traditional approaches to deliver new business insight

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Analytics is expanding from enterprise data to big data





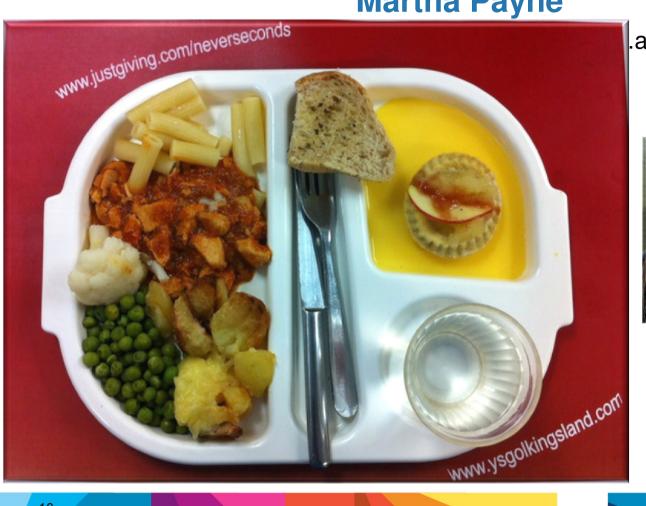
Organisations who see analytics as a competitive advantage are increasing





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Martha Payne



.au/





Total Pageviews



Automatic Temporal and Spatially Enriched Data



In Melbourne, a teenager texts travelling around the CBD a lim ready with my Bomb. Time Star of flywing wisked averArena" (Adamic and Sameras less contest and is photographis care house using his used for analyzing smartphore and posts to his suffer account

Over 650,000 report and stop a robber in Hyde Park, Sydney before the mugging had even finished.

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Big Data "Sense-making"





1+1=3

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5 Key Use Case Patterns





Big Data Exploration



Enhanced 360° View of the Customer



Security/Intelligence Extension



Operations Analysis

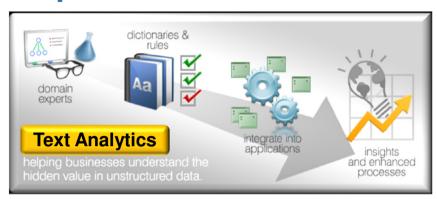


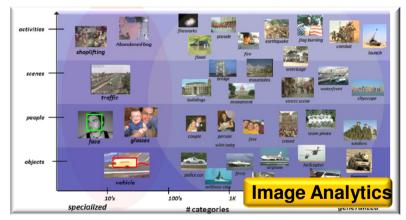
Data Warehouse Augmentation

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Implementation Zone









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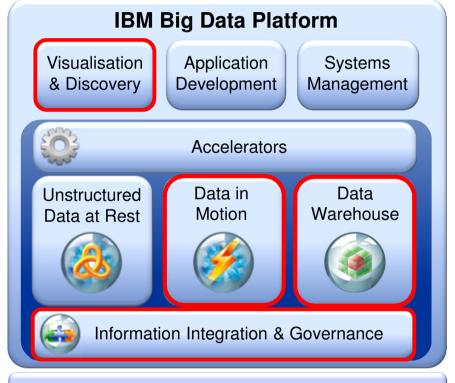
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The IBM BIG DATA Platform

Solutions

Analytics and Decision Management





Big Data Infrastructure

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Smarter Analytics

The IBM BIG DATA Platform

Process any type of data: Structured, unstructured, in-motion, at-rest

Purpose-Built Engines: Designed to handle different requirements

Flexible Analytics: data-in-motion and data-at-rest

Solutions

Analytics and Decision Management



IBM Big Data Platform

Visualisation & Discovery

Application Development

Systems Management

Accelerators

Unstructured Data at Rest



Data in Motion



Data Warehouse



Information Integration & Governance

Manage and Govern data within the ecosystem

Enterprise data integration

Grow and evolve on current infrastructure

Big Data Infrastructure

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Merging the Traditional and Big Data Approaches



Traditional Approach

Structured and Repeatable Analysis

Business Users

Determine what question to ask



IT

Structures the data to answer that question



Big Data Approach

Iterative and Exploratory Analysis



IT

Delivers a platform to enable creative discovery



Business Users

Explores what questions could be asked

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Why Data Matters: The Age of Analytics





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Smarter Analytics



IBM provides a governable & accessible Big Data platform that delivers insight from data at-rest and in-motion

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For more information: ibm.com/bigdata



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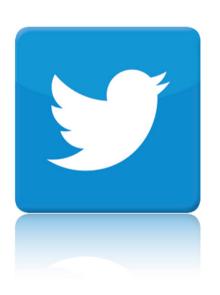


Thank you

Don't forget to check out the Demo Zone during the break or talk to one of our experts at the Table Talk area.

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Become part of the dialogue.

JOIN US ON: #SALive2013 @ibmbaanz

Tweet your questions for the panel discussion this afternoon.

Reference Data Videos





http://www.youtube.com/watch?v=AUVWhO87ful

http://www.youtube.com/watch?v=M0GM8BIEXmo

http://www.youtube.com/watch?v=j5U-lqpDQgk

Big Data Exploration



Security/Intellig ence Extension



http://www.pnnl.gov/news/release.aspx?id=776

360° View of the Customer





http://www.ibmbigdatahub.com/video/sprint-uses-analytics-innovate

Operations Analysis

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