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Transform Big Data into Business Opportunity

Falke Van Onacker Sales Executive for Big Data and Netezza

La Hulpe - Room G - November 13, 2012

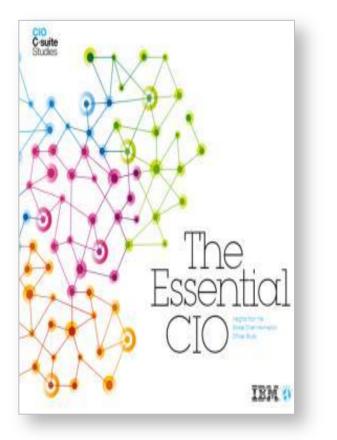
IBM Performance 2012

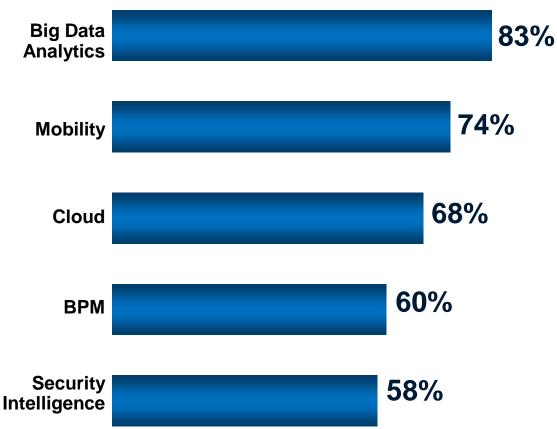
Smarter Analytics. Smarter Outcomes.





What's Driving Innovation and Market Growth?





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Big Data Big Expectations, Budgets, Ideas,....









Who has won the US Presidential Election? On November 6?





Who has won the US Presidential Election? On November 6?







Who has "won" the US Presidential Election? On November <u>5</u>?

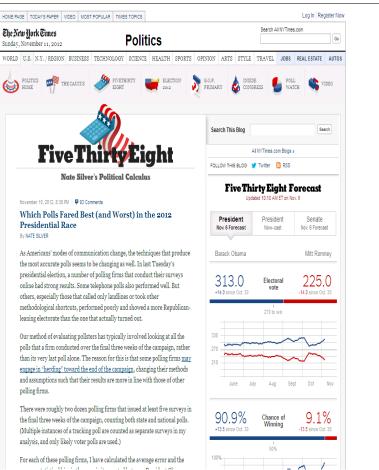




Who has "won" the US Presidential Election? On November <u>5</u>?







ระการกับราย เพราะสายเส



Who has "won" the US Presidential Election? In the weeks/months prior to November 6?





Who has "won" the US Presidential Election? In the weeks/months prior to November 6?









Who has won ...

WHY?





Catalina Marketing using IBM Netezza to Build Loyalty



- Predict with 86% accuracy what next item a customer will buy in the future
- Capture more than 300 million transactions each week
- Use three years of consumer data to present more relevant information to consumers
- 2.5 petabytes managed on Netezza 600 billion rows in one table
- Using predictive analytics, combination of existing BI Applications + new Netezza Appliance



Marketing to a segment of one – 195 million US citizens are helped

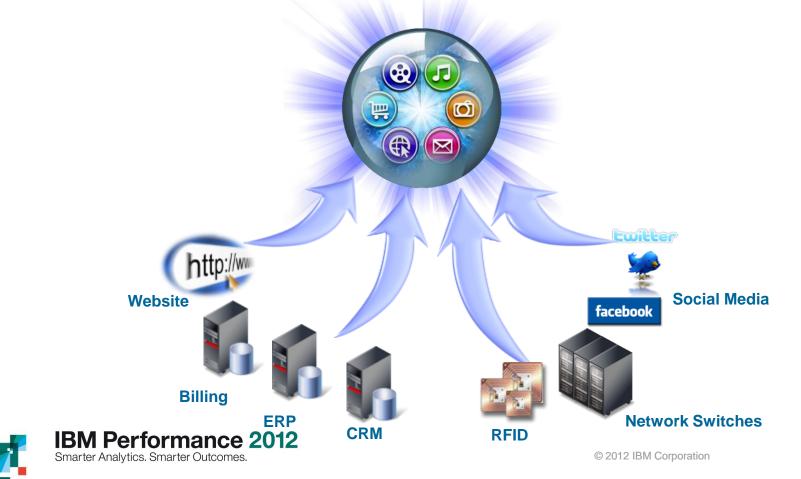
- Every coupon printed is unique to the individual customer
- Customized offer based on three years' worth of purchase history
- 24% redemption rate using predictive models
 IBM Performance 2012 Smarter Analytics. Smarter Outcomes.

Big Data is a Hot Topic *because Technology Makes it Possible to Analyze ALL Available Data*



Cost effectively manage and analyze all available data in its native form

unstructured, structured, streaming







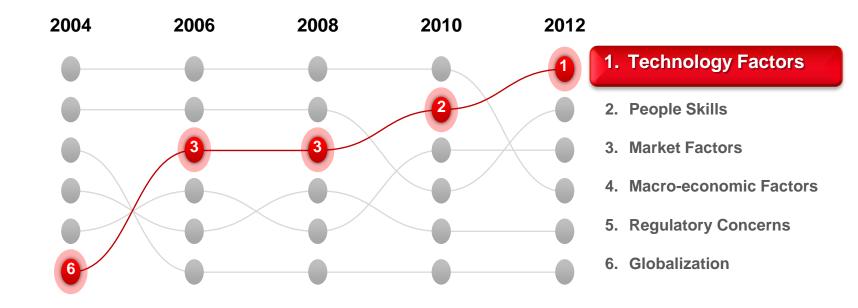


A New Era of Computing is Emerging...

...creating new business and IT challenges and opportunities

What Factors Are Impacting Organizations?







Speed Value

90%





Extended Reach **1** Billion

Smartphones and 1.2 billion mobile employees by 2014

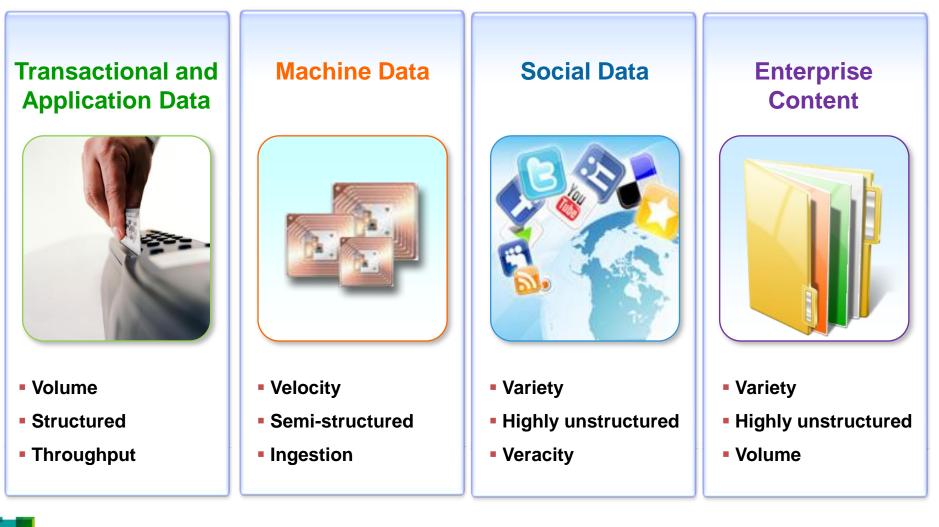
New Insights

2.7ZB Of digital content in 2012, up 50% from 2011



In Order to Realize New Opportunities, Customers Need to Think Beyond Traditional Sources of Data

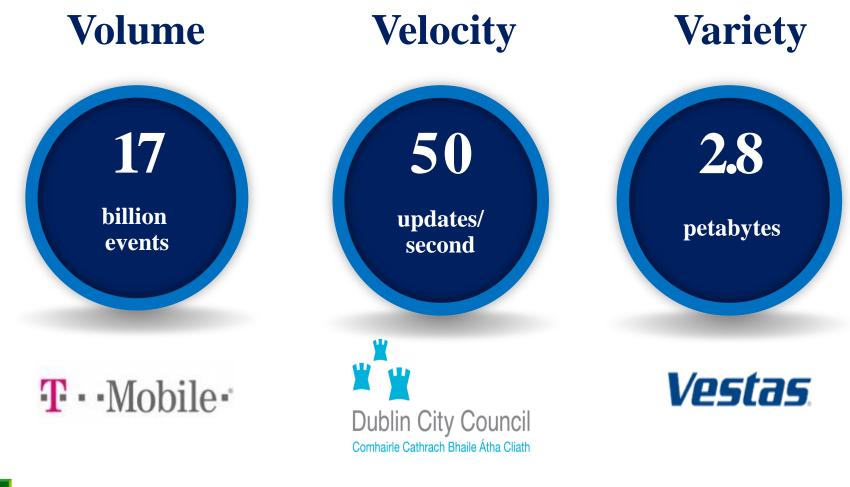






How Are Organizations Getting Value from Big Data?





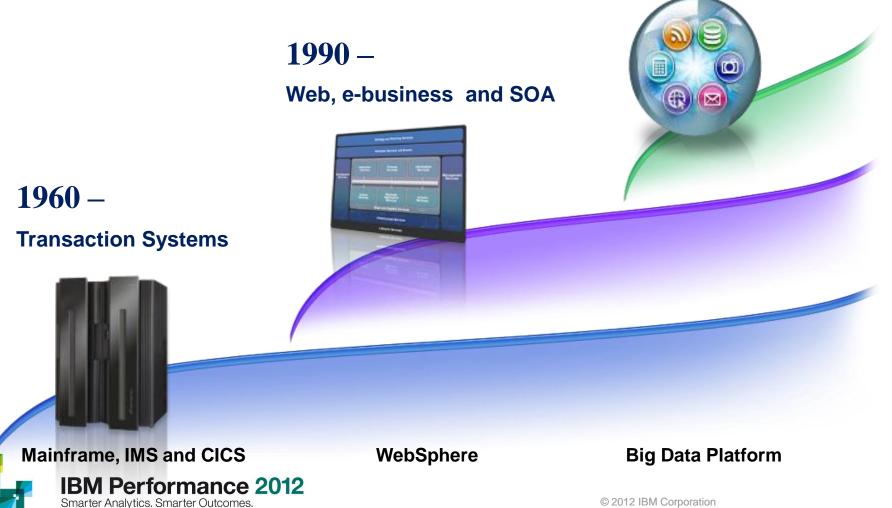


We've Seen This Before



2010 -

New Era Analytics

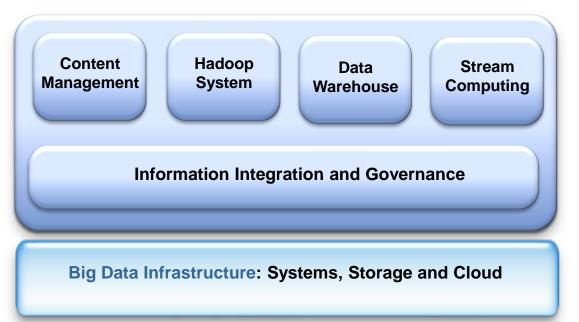


Building the Foundation



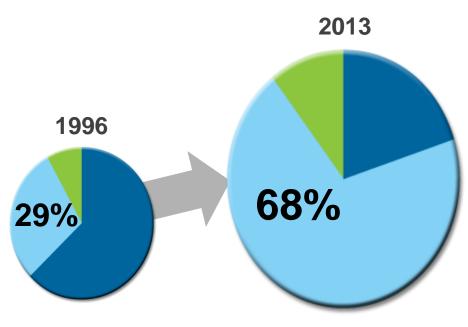
IBM Big Data Platform

Platform for the new era of big data applications





Is IT Ready for the Challenge?



68% of IT

operating costs in 2013 will be for management and administration





Only 1 in 5

organizations allocate more than 50% of IT budget to new projects

* 2012 IBM Global Data Center Study

hind



PureSystems



Cloud Software | Scalable Infrastructure | Simple Delivery





PureData



Workload optimized performance Data load ready in hours Integrated management Single point of support Automated maintenance in hours, not days

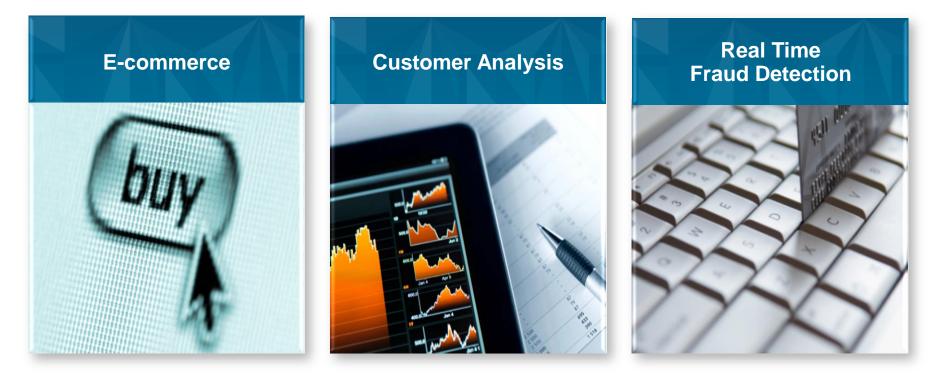
Data Platform

Delivering Data Services









Transaction Processing

Reporting and Analytics

Operational Analytics





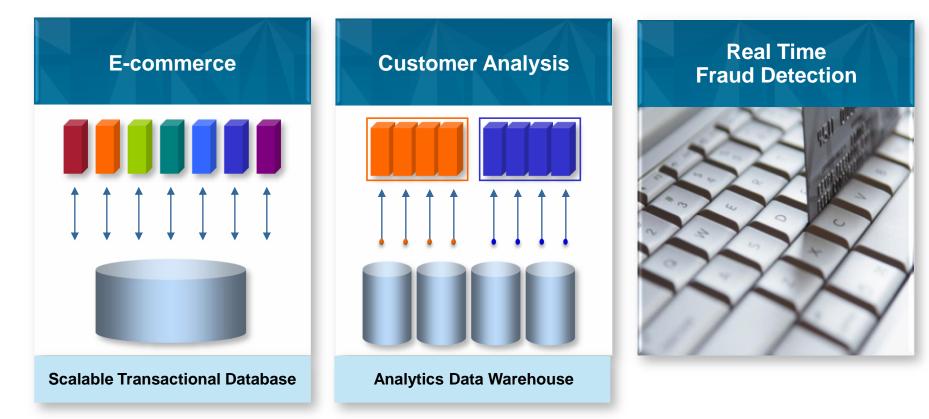


Transaction Processing

Reporting and Analytics





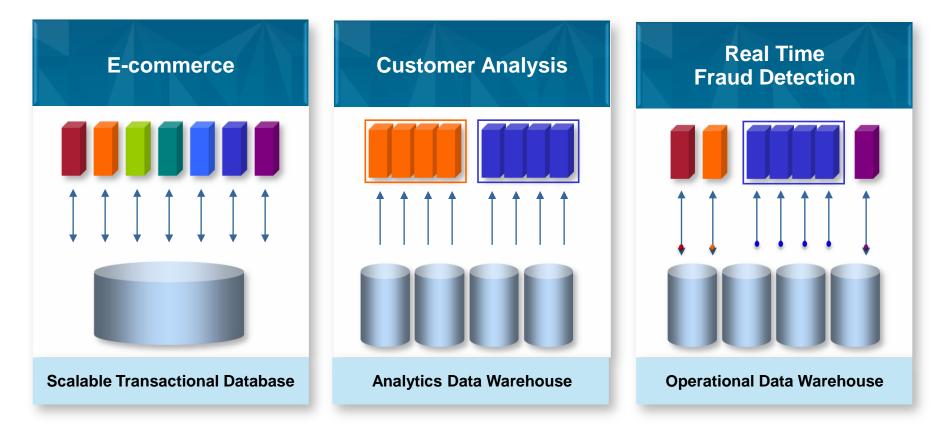


Transaction Processing

Reporting and Analytics







Transaction Processing

Reporting and Analytics



Why Are Data Workloads Different? PureData



System-forming eactions



Scalable Transactional Database

Customer Analysis D Real Time Frau & Decention Handles 100+ databases on 1 system to 100 database scalability to 100 storage space savings

Analytics Data Warehouse

Operational Data Warehouse

Transaction Processing



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Reporting and Analytics

PureData



System for Analytics



Powered by Netezza Technology

Optimized Exclusively for Analytic Data Workloads

10-100x faster than traditional custom systems

20x concurrency and throughput for tactical queries

Patented MPP hardware acceleration



PureData



System for Operational Analytics



Powered by Netezza Technology Optimized Exclusively for Operational Analytic Data Workloads

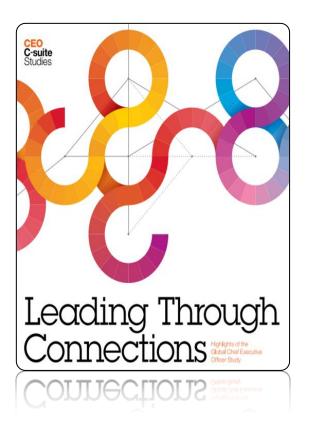
Handles 1000+ concurrent operational queries

Continuous ingest of operational data

Up to 10x storage space savings



What New Complexities Are Businesses Facing?



"...we need better information and insight, but what we need most is <u>the capability</u> <u>to act on it</u>."

"The *time available* to capture, interpret and act on information is getting shorter and shorter."

- CEO, Chemicals and Petroleum, United States

"How do you unleash the innovative power of the people who deal with customers *every* day?"

– CEO, Insurance, United Kingdom



Ufone reduced churn and kept subscribers happy, helping ensure that campaigns are highly effective and timely

IBM Capabilities Utilized: Cognos BI, SPSS, Unica InfoSphere Streams Need

- To ensure that its marketing campaigns targeted the right customers, before they left the network
- Keep its higher usage customers happy with campaigns offering services and plans that were right for them

Benefits

- Increased annual revenues by 30 percent and annual profits by USD 7 million
- Decreased time required to compile sales tax data by 98 percent



Vestas optimizes capital investments based on 2.5 Petabytes of information.

- Model the weather to optimize placement of turbines, maximizing power generation and longevity.
- Reduce time required to identify placement of turbine from weeks to hours.
- Incorporate 2.5 PB of structured and semistructured information flows.
 Data volume expected to grow to 6 PB.



"Helps detect life threatening conditions up to 24 hours sooner" University of Ontario Institute of Technology (UOIT) Detects Neonatal Patient Symptoms Sooner

Capabilities Utilized:

Stream Computing

- Performing real-time analytics using physiological data from neonatal babies
- Continuously correlates data from medical monitors to detect subtle changes and alert hospital staff sooner
- Early warning gives caregivers the ability to proactively deal with complications

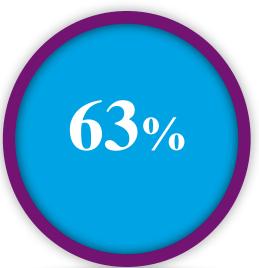
Significant benefits:

- Helps detect life threatening conditions up to 24 hours sooner
- Lower morbidity and improved patient care

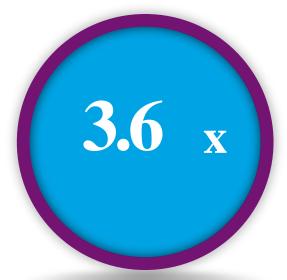




Does Analytics Create A Competitive Advantage?



Percentage of respondents who O cited a competitive advantage are



Organizations competing on analytics are more likely to outperform their peers

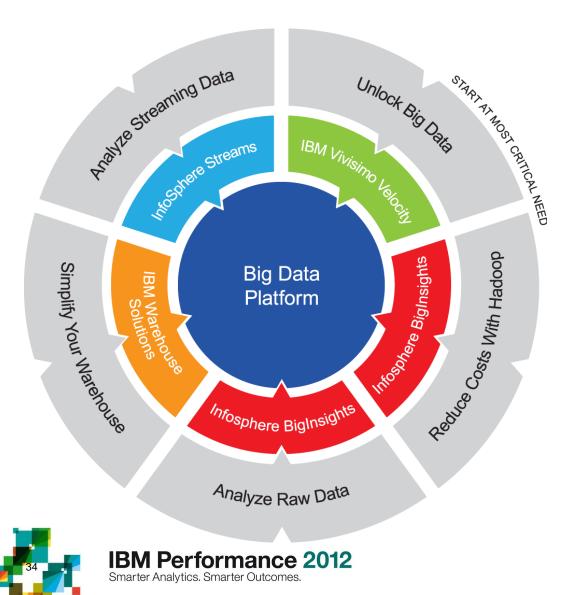
Respondents were asked "to what extent does the use information (including big data) and analytics create a competitive advantage for your organization in your industry or market." Respondent percentages shown are for those who rated the extent a [4] or [5] Significant extent]. The same question has been asked each year. 2010 and 2011 datasets © Massachusets Institute of Technology



Among respondents who self-assessed their organization as "substantially outperforming their competitive peers, there were 3.6 respondents who self-assessed the extent of competitive advantage created by information and analytics as a [4] or [5 Significant extent] (revery one who rated the advantage to be [1 Very little extend], [2], or [3 Keeps us on par with competitors].

Business-centric Big Data enables you to start with a critical business pain and expand the foundation for future requirements





- "Big Data" isn't just a technology - it's a business strategy for capitalizing on information resources
- Getting started is crucial
- Success at each entry point is accelerated by products within the Big Data platform
- Build the foundation for future requirements by expanding further into the big data platform



Think Big: Your Business Depends on It

Leverage analytics as a game-changer

Embrace big data to maximize your business outcomes

Get **inspired** and take action





