

System z BI and Analytics

Alan Meyer

Sr Marketing Manager

Data Warehousing on System z

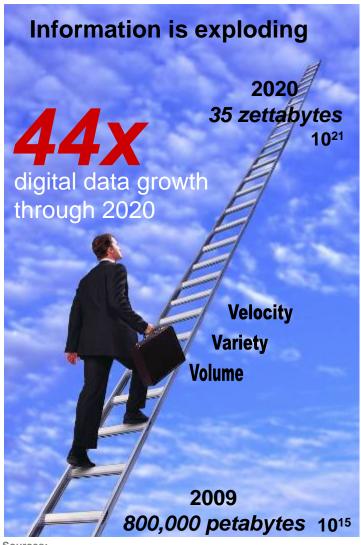
<u>almeyer@us.ibm.com</u>

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Drowning in a sea of data with no information



1 in 2

Business leaders say they don't have access to the information they need to do their jobs

1 in 3

Organization leaders frequently make decisions based on information they don't trust, or don't have

220%

Organizations competing on analytics substantially outperform their peers

33%

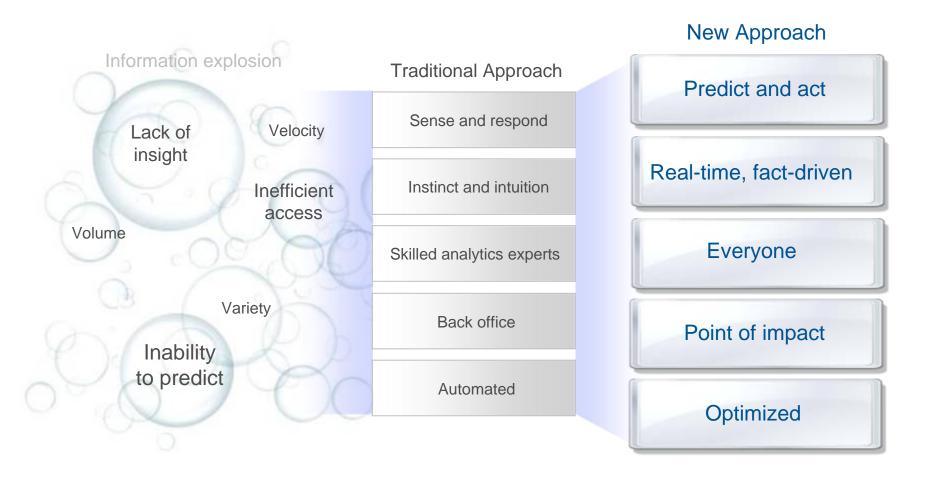
Revenue growth and 12X more profit growth for organizations that apply advanced analytics

Sources:

- The Guardian, May 2010
- IBM IBV/MIT Sloan Management Review Study 2011. Copyright Massachusetts Institute of Technology 2011



Leaders adopt new ways to improve speed to impact





Imagine the Possibilities of Analyzing All Available Data

Faster, More Comprehensive, Less Expensive











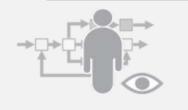




Imagine the possibilities

...predict and treat high-risk patients to proactively intervene at time of visit? ...identify suspects based upon initial witness information on arrival at scene? ...provide targeted cross sells that drive additional sales when offered at time of sale?

... predict correct order levels at time of purchase?









Physician

Police Detective Retail Sales Manager Purchasing Agent

...optimize every transaction, process and decision at the point of impact, based on the current situation, without requiring that everyone be an analytical expert



The market is moving to the strengths of System z

• Enterprises are modernizing and extending functionally

- Better decisions from the right information
- Informed decisions at the point of contact
- Consistency of information across organizations

Which is driving operational characteristics requirements

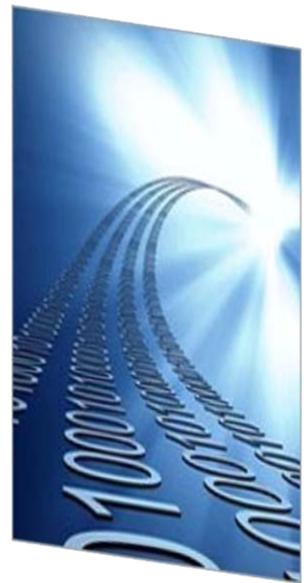
- Cost of downtime is escalating
- The impact of unauthorized intrusion and publishing of private information is overwhelming
- Stringent Service Level Agreements

Newer applications demand lower latency of the data

- Businesses want the most up-to-date information they can get
- Yesterday's information was good yesterday

• All while focusing on reducing costs/ consolidating

- Lower costs through reduced complexity
- Simplified environment with easier administration
- Lower SW costs
- Reduced costs through elimination of redundant servers and resources
- Reduced footprint, environmental, and administrative costs





Price by opportunity

...matching room prices to availability and customer type

- Maximize inventory yield
- Best price, best yield for both Marriott and the customer in less than one second





Detect patterns

...rapidly map symptoms to cures

- Clinical research studies
- Identify best practices
- Reduced time to cure and costs





Identify Risk

...and immediately control it





- Insights into overlapping policies from multiple insurance companies
- Getting their reports as much as 70 percent faster



Increase agility

...rapidly respond with information



- No searching for data
- Timeliness of analysis











Anticipate demand

...and immediately match it

- Infusing business analytics into every new solution
- Able to scale to meet the demands of internal growth



IBM Smart Analytics System 9700

Mixed Workloads for Next Generation Business Analytics





The next generation of System z analytics; an integrated solution of hardware, software and services that enables customers to rapidly deploy cost effective game changing analytics across their business.

- Secure, Available Business Analytics
- Simplified administration
- Proven Operational Characteristics
- High Value Operational Bl

Making every decision on facts at the point of impact



IBM Smart Analytics System 9710

Unprecedented Value in Deploying New Business Analytics



Introducing the IBM Smart Analytics System 9710 based upon the new zEnterprise 114 platform, delivering the quality of service of System z at an entry level cost.

- Foundation Offering
- Small Footprint Big Value
- High Value Operational BI
- Secure, Available Business Analytics

Operational Businesses Analytics at an entry-level price



DB2 Analytics Accelerator

Accelerating decisions to the speed of business

Blending System z and Netezza technologies to deliver unparalleled, mixed workload performance for complex analytic business needs.

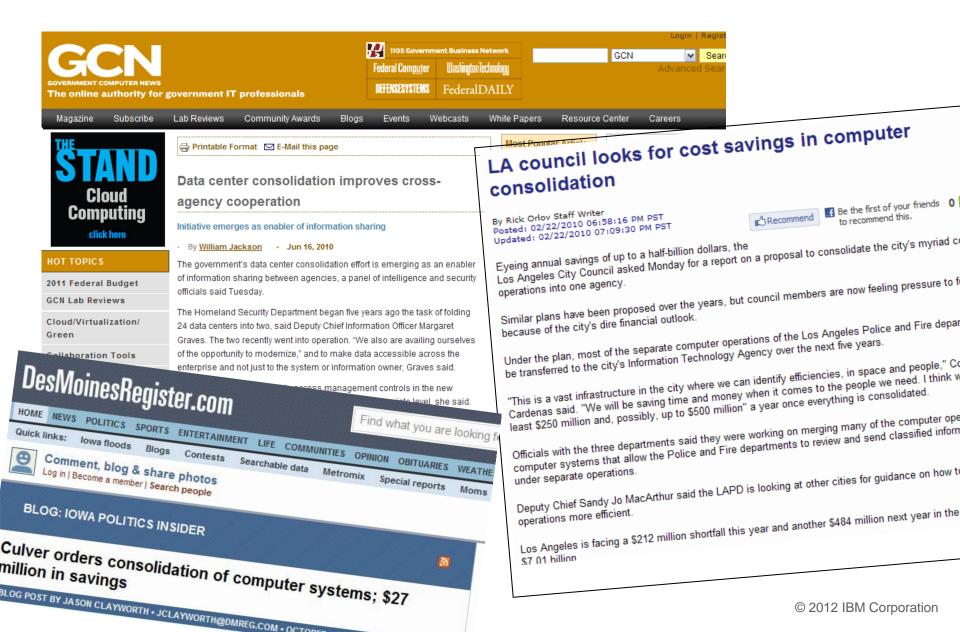


Get more insight from your data

- Fast, predictable response times for "right-time" analysis
- Accelerate analytic query response times
- Improve price/performance for analytic workloads
- Minimize the need to create data marts for performance
- Highly secure environment for sensitive data analysis
- Transparent to the application



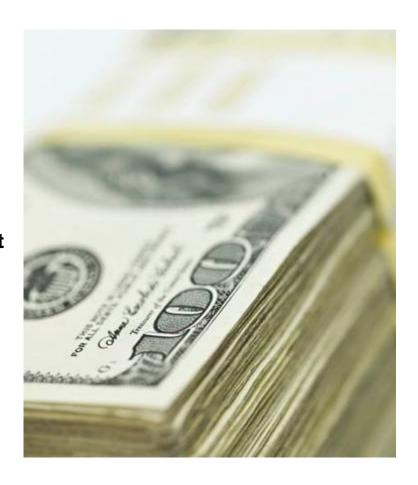
The Move from Distributed to Consolidation





Why Consolidate?

- Server and software cost savings
- Increased data protection and security
- Better resource utilization
- Reduced complexity and simplified management
- Easier disaster recovery
- Greater flexibility to meet changing needs
- Easier revision control



The financial impact of consolidation onto System z can be substantial, with savings of up to 70 percent in total cost of ownership compared to distributed platforms

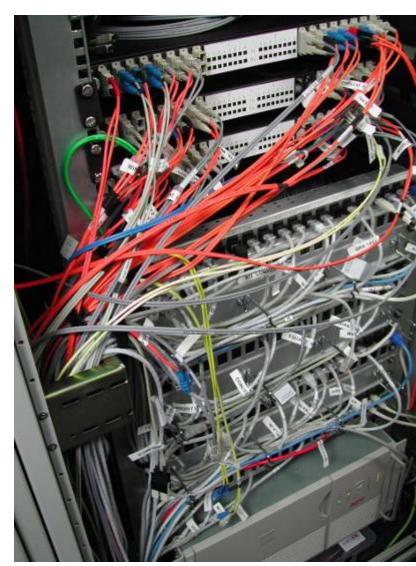
Source: ECM 'Big Green' Project



Focus on reducing costs - Reduced Complexity

Consolidation means:

- Fewer servers to administer
- Fewer devices to interconnect
- Most network interface cards, hubs, routers and switches are eliminated
- Fewer cooling fans
- Fewer wires to connect
- Fewer points for security breaches
- Fewer points for failure





Mainframe Centric Customers See Big Savings

Based on an analysis of actual IT spend and business performance, comparing companies with greater than average mainframe mix vs. less than average mainframe mix...*



44%

lower IT cost per credit card transaction



31%

lower IT cost per consumer loan



25%

lower IT cost per mega watt hour produced



24%

lower IT cost per hospital bed



20%

lower IT cost per airline passenger



26%

lower IT cost per new vehicle



25%

lower IT cost per retail store



23%

lower IT cost per barrel of oil

"...in the long run the marketplace rewards those that make the optimum use of the right computing resources in the right way as evidenced by business performance"

Dr. Howard Rubin, CEO and Founder, Rubin Worldwide



System z – The Undisputed Leader

Highest availability on the planet

- Continuous availability during trading periods
- Non-disruptive upgrades of HW, z/OS, and subsystems, including DB2
- Built-in system redundancy (memory, cooling, power...)
- Comprehensive multi-site disaster recovery

System-level mixed workload management with full resource utilization

- System-level WLM manages all resources
- 100% utilization, 24 hours a day
- Most cost effective SLA

Real-world scalability with performance

- Superior in the industry
- Scale out with absolute access during business trading periods

Unmatched end-to-end security

- From logon through data encryption
- Never been hacked

The most cost effective platform to manage and maintain



With it's unique architecture and deep integration with System z, DB2 for z/OS is the undisputed leader in total system availability, scalability, security and reliability.



The Ultimate Consolidation Platform



Data Mart Consolidation

System z PR/SM

Recognized leader in mixed virtualization and workload isolation



Data Warehousing Business Intelligence Predictive Analytics

Transaction Systems (OLTP)

z/OS:

Recognized leader in mixed workloads with security, availability and recoverability

Netezza:

Recognized leader in cost-effective high speed deep analytics

Together:

Destroying the myth that transactional and decision support workloads have to be on separate platforms

Bringing it all together

- Better Business Response
- Reduced Costs
- More Available
- More Secure
- Reduced Data Movement
- Reduced Data Latency
- Reduced Complexity
- Reduced Resources

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Today's IBM System z is ...

- The world's most trusted transaction processing and data server for business critical applications
- The world's most cost-efficient platform for data center consolidation and virtualization
- The world's most dependable and scalable hardware and middleware platform for new business applications
- A thoroughly modern application environment for traditional and Cloud delivery models



The zEnterprise 196 is the world's fastest and most scalable enterprise system. (50 BIPS)





Data warehouse choices from IBM

Which is the right choice?

Distributed	Netezza	System z 9700/ 9710	System z with DB2 Analytics Accelerator
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New value when building a decision system

Unmatched capabilities when combining the Smart Analytics System 9700 and the DB2 Analytics Accelerator

