

IBM INFORMATION INTEGRATION & GOVERNANCE SYMPOSIUM 2012

Delivering Trusted Information for Smarter Business Decisions

Control your data, Don't let it control you!

Ben Davis- Information Governance Specialist 1 May 2012

Our World today



MOVIE LIST

You Tube



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Big Data!





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Some facts



- In 2009, amid the "Great Recession," the amount of digital information grew 62% over 2008 to 800 billion gigabytes (0.8 Zettabytes).
- 75 billion fully-loaded 16 GB Apple iPads, which would fill the entire area of Wembley Stadium to the brim 41 times
- The amount of digital information created annually will grow by a factor of 44 from 2009 to 2020, as all major forms of media voice, TV, radio, print complete the journey from analog to digital.
- By 2020, the percent of digital information requiring security beyond baseline levels will grow from 30% to 50%.
- 35% more digital information is created today than the capacity exists to store it. This number will jump to over 60% over the next several years.

Source: The Digital Universe Decade - Are You Ready?- IDC May 2010



Organizations have been increasingly challenged with successfully managing data growth



Increasing Costs 3-10x

Cost of managing storage over the cost to procure^a

\$1.1 billion Amount organizations will have spent in 2011 on storage^b

Poor Application Performance

The time DBA's spend weekly on disk capacity issues^c

250 hours

The amount of time needed to run "daily" batch processes^d

Manage Risk & Compliance

of firms retain structured data for 7+ years^e

57% of firms use Back-up for data retention needs^e

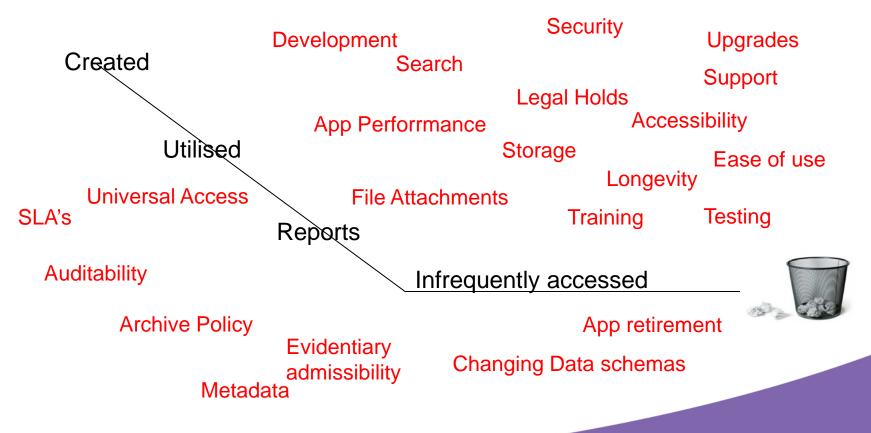
(a) Merv Adrian, IT Market Strategies, "Data Growth Challenges Demand Proactive Data Management", November 2009

- (b) IDC, "Worldwide Archival Storage Solutions 2011–2015 Forecast: Archiving Needs Thrive in an Information-Thirsty World", October 2011
- (c) Simple-Talk, "Managing Data Growth in SQL Server", January 2010
- (d) IBM Client Case Study: Toshiba TEC Europe; archiving reduced batch process time by 75%
- (e) IDC Quick Poll Survey 2011, "Data Management for IT Optimization and Compliance", November 2011



The Lifecycle of data







So when will this data storm end?

- The answer is never
 - Data will get bigger
 - Data will become more complex
- You cannot build a dam big enough to hold all of your data
- In the future you will be required to protect all of the data if not already!



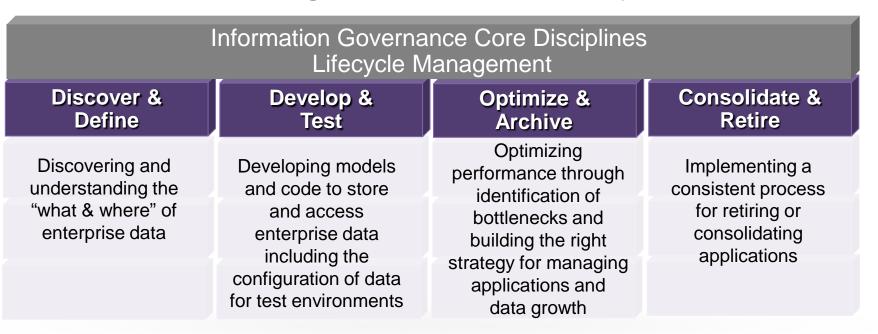




So let's control our data, not let it control us

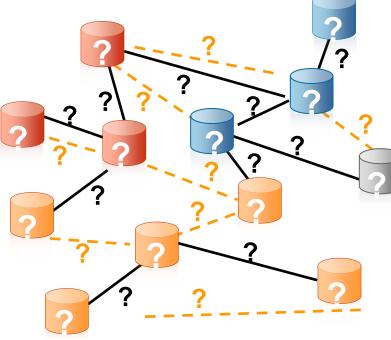


Control Data throughout the data lifecycle





You can't govern what you don't understand



Distributed Data Landscape

Information Governance Core Disciplines Lifecycle Management Deselop & Optimize & Consolidate & Define

- Data can be distributed over multiple applications, databases and platforms
 - Where are those databases located?
- Complex, poorly documented data relationships
 - Which data is sensitive, and which can be shared?
 - Whole and partial sensitive data elements can be found in hundreds of tables and fields

Data relationships not understood because:

- Corporate memory is poor
- Documentation is poor or nonexistent
- Logical relationships (enforced through application logic or business rules) are hidden



Organizations continue to be challenged with building quality applications



Consolidate &



Mandatory to protect data and comply with regulations Lack of realistic test data and inadequate environments

Time to Market



Information Governance Core Disciplines

Lifecycle Management

Develop &

Test

Increasing Costs

Disco Def

Defects are caught late in the cycle



Organizations continue to be challenged with building quality applications

Increasing Risk 45,000+

Number of sensitive records exposed to 3rd party during testing^c

<mark>62</mark>%

companies use actual customer data to test applications^a

Time to Market

Satisfied with speed of software development^f

30-50%

Time testing teams spend on setting up test environments, instead of testing^b

Increasing Costs \$300 billion

:e &

Annual costs of software-related downtime.^d

Consolidate &

32%

Information Governance Core Disciplines Lifecycle Management

Develop &

Test

Disco Def

Low success rate for software projects^e

a. The Ponemon Institute. The Insecurity of Test Data: The Unseen Crisis

- b. NIST, Planning Report. The Economic Impacts of Inadequate Infrastructure for Software Testing
- c. Federal Aviation Administration: Exposes unprotected test data to a third party http://fcw.com/articles/2009/02/10/faa-data-breach.aspx
- d. The Standish Group, Comparative Economic Normalization Technology Study, CHAOS Chronicles v12.3.9, June 30, 2008
- e. The Standish Group, Chaos Report, April 2009

†2Forrester Research, "Corporate Software Development Fails To Satisfy On Speed Or Quality", 2005

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Employ effective test data management Information Governance Core Disciplines practices Lifecvcle Management Disco Def Consolidate & Develop & Retire **Production or Production Clone** Test -Compare Subset & Mask -Refresh 2TB25 GB Create targeted, right-sized test 25 GB environments **Development** Substitute sensitive data with fictionalized Unit Test yet contextually accurate data Easily refresh, reset and maintain test environments 50 GB 100 GB Compare data to pinpoint and resolve Training Integration application defects faster Test Accelerate release schedules twitter: Follow @ANZ IM or mention #IIGS

Improve application quality and delivery efficiency





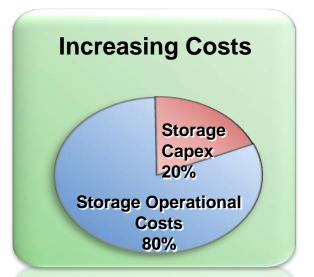
- Understand what test data is needed for test cases
- Create "right-sized" test data by subsetting
- Ensure masked data is contextually appropriate to the data it replaced, so as not to impede testing
- Easily refresh & maintain test environments through self service access by developers and testers
- Automate test result comparisons to identify hidden errors
- Support for custom & packaged ERP applications in heterogeneous environments



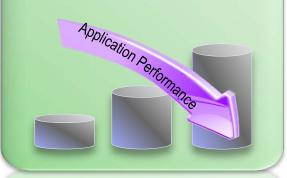
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date & re



Buying more storage is not a "cheap" fix when you add the operational burden Poor Application Performance



Business users & customers wait for application response; DBA's spend majority of time fixing performance issues

Manage Risk & Compliance

Information Governance Core Disciplines Lifecycle Management

Optimize &

Archive

Deve

Discover&



The "keep everything" strategy can impact disaster recovery and data retention & disposal compliance

Organizations have been increasingly challenged with successfully managing data growth

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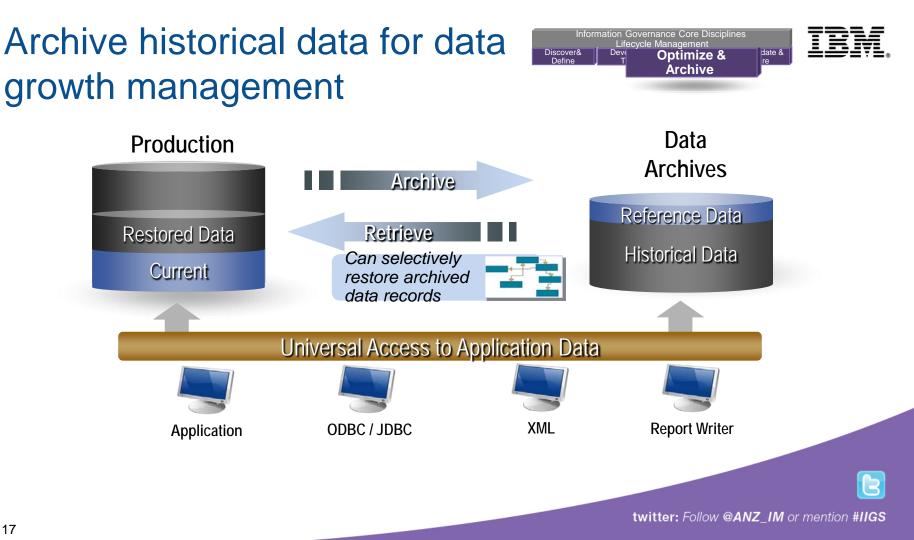
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Effectively Archive and Manage Data Growth





Reduce hardware, software, storage & maintenance costs of enterprise applications

Improve Performance

Improve application performance & streamline back-ups and upgrades

Minimize Risk

Support data retention regulations & safely retire legacy/redundant applications

- Discover & identify data record types to archive across heterogeneous environments
- Intelligently archive data to improve application performance and support data retention
- Capture & store historical data in its original business context
- Define & maintain data retention policies consistently across the enterprise
- Ensure long-term, application-independent access of archived data via multiple access methods
- Support for custom & packaged ERP applications in heterogeneous environments



When it's time to retire or consolidate applications

- Application portfolio has redundant systems acquired via mergers and acquisitions
- Line of business divested; application is no longer needed
- Legacy technologies not compatible with current IT direction
 - Old database and/or application versions no longer supported by manufacturer
- Required technical skills or application knowledge no longer available
- Budget pressures do more with less



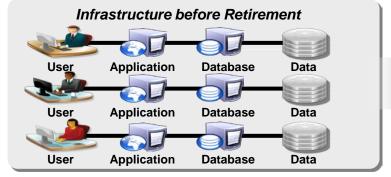


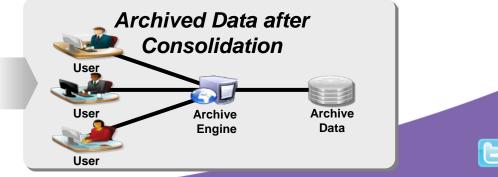
In almost ALL cases, access to legacy data MUST be retained while the application and database are eliminated

Retire redundant and legacy applications



- Preserve application data in its business context
 - Capture all related data, including transaction details, reference data & associated metadata
 - Capture any related reference data that may reside in other application databases
- Retire out-of-date packaged applications as well as legacy custom applications
 - Leverage out-of-box support of packaged applications to quickly identify & extract the complete business object
- Shut down legacy system without a replacement
 - Provide fast and easy retrieval of data for research and reporting, as well as audits and e-discovery requests

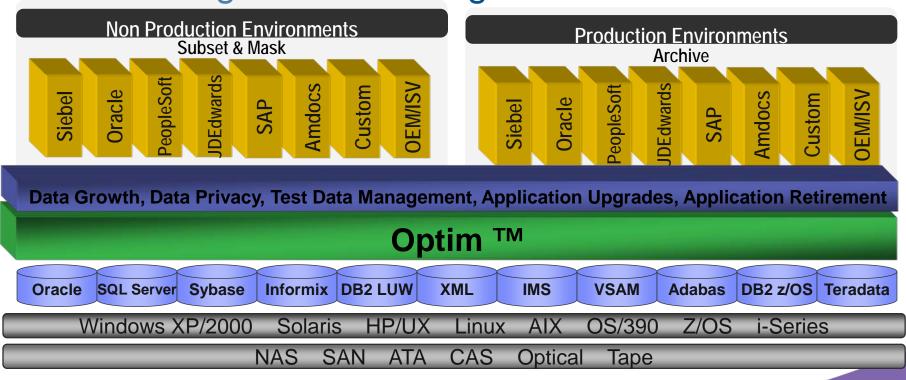




IBM meeting these challenges



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Single, scalable, interoperable EDM solution provides a central point to deploy policies to extract, store, port, and protect application data records from creation to deletion



Questions?

Further Information

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