Data as an Asset: Balancing the Data Ecosystem

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Abstract Not Available

BIOGRAPHY

Tonie LeatherberryPrincipal
Deloitte Consulting LLP

Tonie Leatherberry is a practice leader in Consumer Business and Information Management with deep experience in Enterprise Data Management and large scale ERP implementations. In addition, she focuses on Information Strategy with an emphasis on enterprise governance, and risk. She assists clients in building compliance and regulatory capabilities within Information Technology..



The professional accolades Tonie has received demonstrate her accomplishments. In May 2006, she graced the cover of Consulting Magazine, by being named one of the profession's top 25 consultants. In August 2007, she was nominated for the 2008 Computerworld Magazine Premier 100 IT Leader award. Tonie was recognized as a Top 100 under 50 Leader by Diversity MBA Magazine in 2008. Most recently, she has been named one of the 2009 "Best 50 Women in Business" in Pennsylvania, and was also selected by Profiles in Diversity Journal for its 8th Annual WomenWorthWatching® issue.

Rena Mears Partner Deloitte & Touche LLP

Rena Mears is a partner in Deloitte & Touche LLP's Audit & Enterprise Risk Services practice, and serves as the Global and U.S. Privacy and Data Protection leader. She has more than twenty-five years experience in the areas of risk management, privacy, data leakage protection ("DLP") and security. Rena has led major privacy, data protection and security projects for companies focusing on the design and



implementation of enterprise programs and technology solutions, with engagements typically involving data strategy and policy development, inventory mapping, current state assessments, remediation roadmaps. Rena regularly presents at conferences, speaking on subjects such as Data Strategy and Risk, and has authored articles on privacy, security risks and technologies and is the coauthor of the annual Enterprise@Risk Survey. Member: AICPA Privacy Task Force and Information Technology Committee; Certifications: CISSP, CISA, CPA, CITP; BA, University of Albuquerque; MBA, Auburn University

Deloitte.

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MIT IQIS July 2010

Speaker credentials

Tonie Leatherberry



Principal Deloitte Consulting LLP

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MIT IQ Symposium: Data as an Asset

Rena Mears



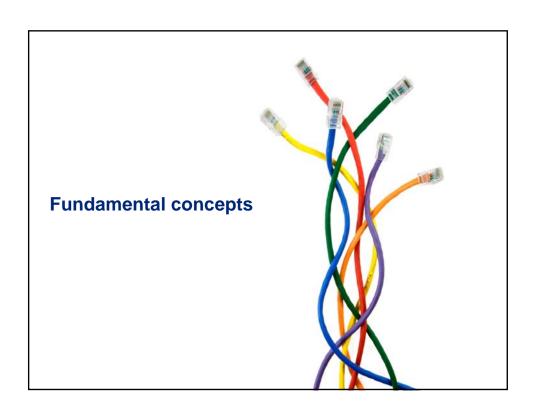
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Asset evolution

Neolithic to Information

Neo 8000 BC

- Tangible
- Manually intensive • High touch — low return
- Localized
- Physical/work is centralized
- Individualized (point to point)

Industrial age early 18th century

- · Shifts to intangible
- Automated/repetitive
- Low touch high return
- Shifts to globalized Shifts to modularized
- Shifts to groups/teams

Information age late 20th century

- Intangible
- Iterative/self perpetual
- High touch high return
- Shifts to globalized
- Shifts to atomic
- Shifts to individualized many to many







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How do we think of data today?

The global information age brings a paradigm shift in what drives business value.

Pre-information age

We think of data only as a "tool" used to support the creation of strategy and to support business transactions.

Global information age

In the global information age data is the primary asset to manage.

"Top-performing companies were 15 times more likely to apply analytics to strategic decisions than their underperforming peers...IBM's analysis also discovered having what they termed superior data governance -- assuring that data definitions were clear, relevant and accepted -- is critical the success for top performers. By a factor of three to one, the study found that top performers were much more sophisticated in their approach to governing organizational information relative to lower performing companies (42 percent versus 14 percent)."

(c) 2009. Close-Up Media, Inc. All rights reserved. IBM Study: Businesses that Applied Analytics-Derived Insights Do

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Proliferation of data

Data is proliferating at a rapid and ever-increasing pace.



Data, data everywhere: A special report on managing information, © The Economist Newspaper Limited, London

"WalMart is a good example. The retailer operates 8,400 stores worldwide, has more than 2m employees and handles over 200m customer transactions each week. Its revenue last year, around \$400 billion, is more than the GDP of many entire countries. The sheer scale of the data is a challenge, admits Rollin Ford, the CIO at WalMart's headquarters in Bentonville, Arkansas. We keep a healthy paranoia.'

Data, data everywhere: A special report on managing information, © The Economist Newspaper Limited, London

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Data Valuation

Viewing data across organization is the first step. The next step is realizing that data is both an enterprise asset and enterprise liability.

Organizations collect, produce, and process an enormous amount of data, which can be either an asset or a liability



How should data be treated?

Data can be managed like any other enterprise asset. It can impact the return on asset (ROA) ratio.

Return on assets (ROA) = Earnings before interest and taxes

Average assets

Data can actually be **beneficial** (it increases) the ROA ratio in corporate financial reports. Data that supports the business and revenue stream is used to generate and grow earnings. However, data itself is not included in the calculation for average assets.

Current assets Cash and cash equivalents Short-term investments Accounts receivable, net Inventories Other current assets Non-current assets Property and equipment, net Goodwill Other non-current assets Total assets

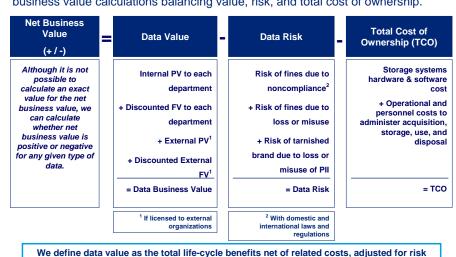
Where is the value for data assets captured on the balance sheet?

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Analyzing data assets

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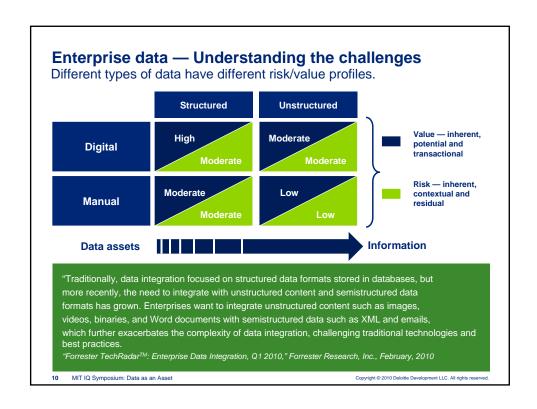
Data can be managed like any other enterprise asset, subject to the same net business value calculations balancing value, risk, and total cost of ownership.

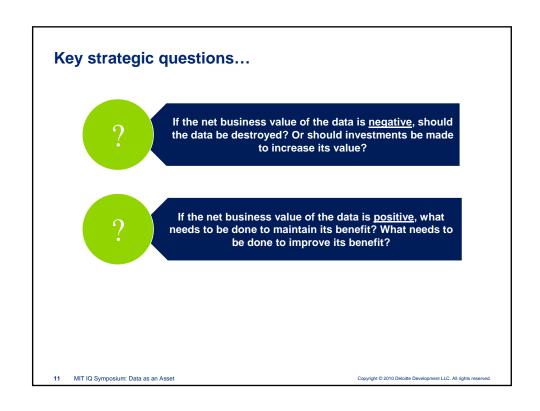


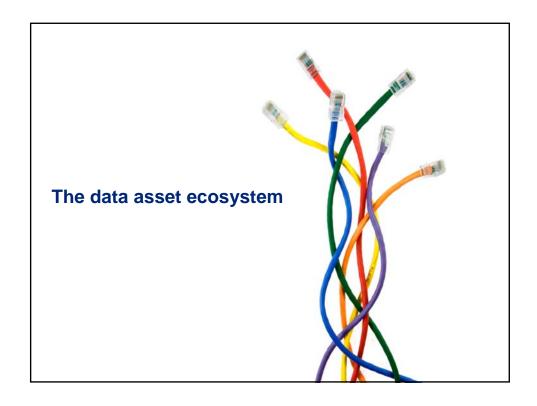
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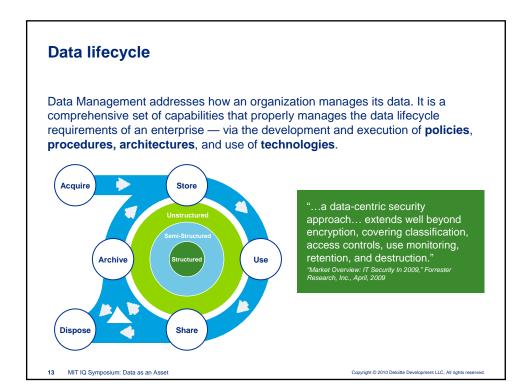
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and (in the case of financial value) for the time value of money

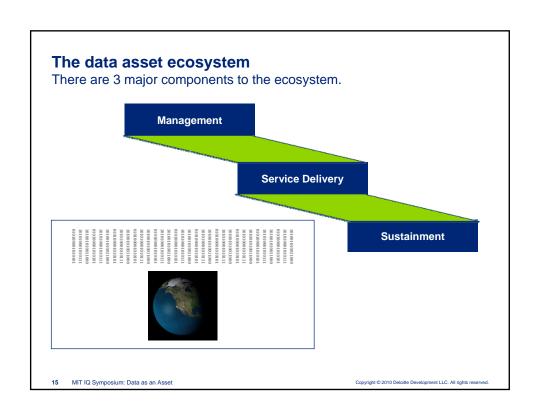




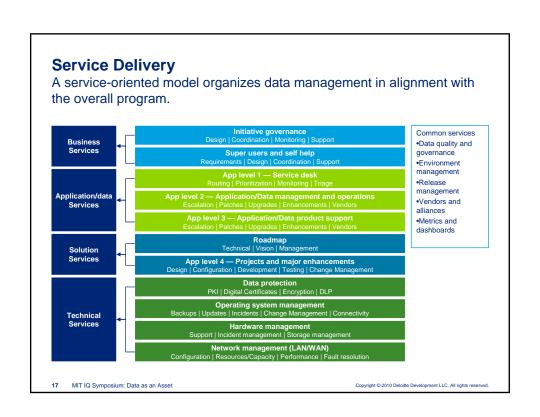


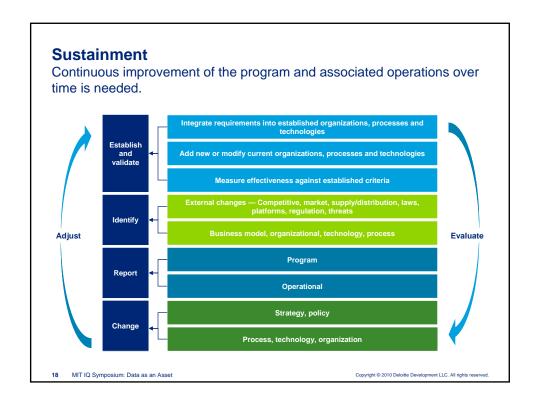


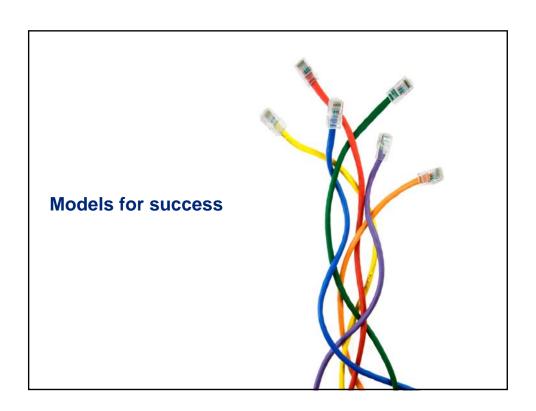


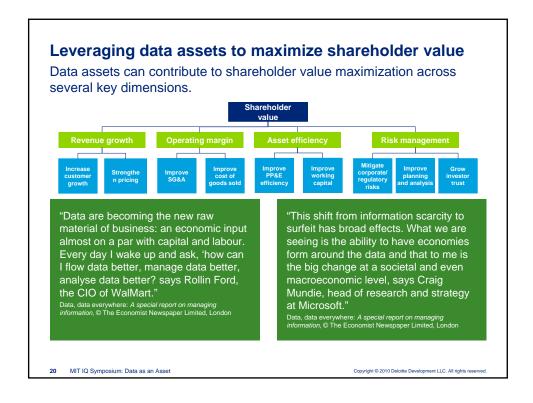


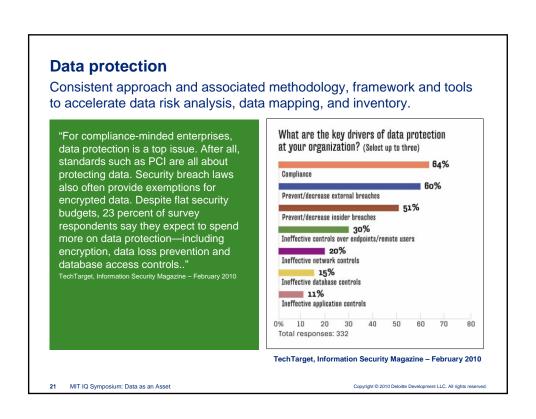
Management A program is an ongoing multi-faceted initiative that provides a comprehensive data management framework. A program can readily react to Strategy changes in: •Regulations Technologies •Consumer Governance behaviors Business objectives Procedures Technical | Business process | End user | Customer | Business partner Communications, training and awareness Internal | External An implementation roadmap guides Operations incremental program Risk assessment implementation and supports alignment Audit and compliance Evaluation and adjustment Performance evaluation | Adjustment plan Sustainment MIT IQ Symposium: Data as an Asset Copyright © 2010 Deloitte Development LLC. All rights reserved











Enterprise Data Management

Addressing data management in an integrated, disciplined fashion can help maximize business value of information within and external to the enterprise.



Implementing a single, real-time, integrated version of data supports business intelligence than can help enterprises:

- Expand markets
- •Better understand customers
- •Cross-sell/up-sell more effectively
- Achieve business agility required for M&A, globalization, and integration of supply-chain and collaboration with partners

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Data governance

Definition and management of data creation, usage, quality, ownership, distribution, auditing, reporting, and architecture.

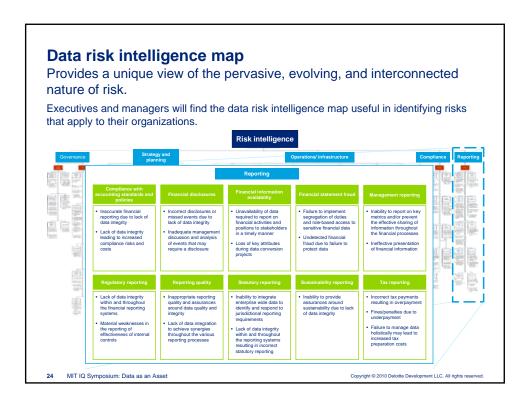


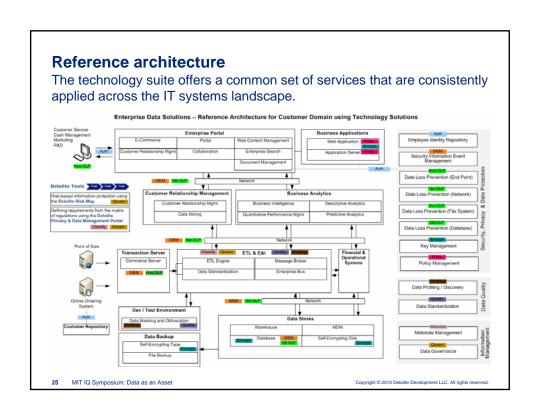
"It's important to design data governance programs specifically for an organization's culture and current processes. There's no "cookie-cutter" template."

Trends Shaping Data Management, Hannah Smalltree, SearchDataManagement.com

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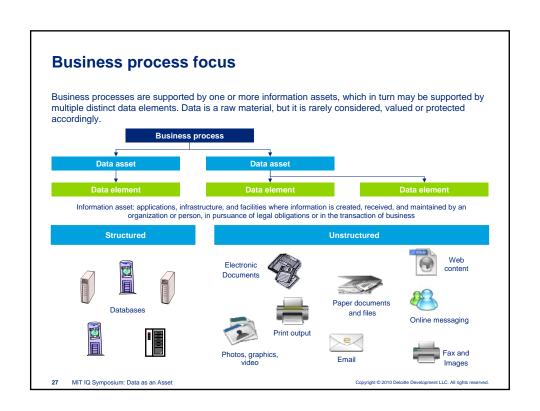




Case Study #1 — Large biotechnology company The company collects, creates, stores and manages large volumes of information assets, including personal information and intellectual property, which are critical to the company's key operational capabilities. **Business problem** Solution objectives Ineffective protection of these information assets can lead · Accommodate growing amount of data to non-compliance with legal and regulatory requirements Be responsive to regulatory and legal requests and loss of asset value, impacting the overall financials of · Estimate, manage, and mitigate financials risk the company. The fundamental nature of information as an asset makes it difficult to protect. The information is exists · Maximize data value Ensure the right type and amount of data is collected in large volumes throughout the organization, and is constantly increasing in volume and distribution to · Establish ongoing data program management extended partners and affiliates in many forms. Moreover the characteristics of information change throughout its • Implement enabling technologies - Information management lifecycle making it difficult to discover. - Enterprise search

Year 1 Enterprise risk and information management strategy Discovery Information management Privacy and data protection Data quality and integrity Records management Copyright © 2010 Deloite Development LLC. All rights reserved.

- Data leakage protection



Case Study #2 — Leading bio-tech company

Background

The company provides hospitals and physicians with advanced, highly specialized diagnostic testing. The company's vision is to use the in-depth results from its cutting-edge tests to fuel development of new diagnostic services, and to position itself as a key player in emerging areas such as Health Information Exchange (HIE) and personalized medicine.

Business problem

After growing rapidly through a series of acquisitions, it found itself with a collection of independent businesses each operating with a different set of systems and processes. This siloed approach was costly and inefficient. Even worse, it prevented the company from using its test results to drive research and development innovation, which was a strategic necessity. Also, the company's laboratory operations had become a bottleneck and were struggling to handle peak daily testing volumes. This made it hard to deliver timely and responsive customer service.

Solution objectives

- Analyze, streamline, and standardize business processes and operations.
- Implement a variety of new systems and IT platforms such as a customer relationship management system, business intelligence tools, a security and identity management platform, and a web portal for ordering lab tests.
- Architect and implement a new technology infrastructure, including WAN upgrades, a new integration platform, and a new data center
- Design a service-oriented architecture and enterprise data model.
- Manage vendor-led system implementations for billing, laboratory operations, document management (including integrated faxing), and system development tools.

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Key success criteria

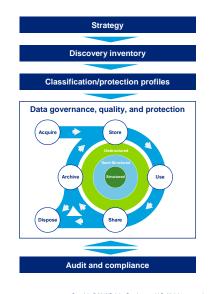
Cornerstone of a comprehensive and effective approach

Keep in mind:

- · Data is an asset
- Data requires a program, not a bunch of projects

Follow a logical approach:

- Form a strategy
- · Discover and inventory data
- · Classify the data
- Establish an ongoing program to implement data governance, quality, and protection throughout the data lifecycle
- Audit and monitor the effectiveness of the program



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