

Big Data – Just Noise or Does it Matter?

Opportunities for Continuous Auditing

Presented by: Solon Angel

Product Manager Servers

The CaseWare Group.



- Founded in 1988.
- An industry leader in providing technology solutions for finance and accounting, governance, risk and audit professionals.
- Over 250,000 users of our technologies across 130 countries and 16 languages.
- Customers include Fortune and Global 500 companies, Governments as well as Big Four and other major accounting firms.
- Certified ISO 9001

If data is new oil...



"Data is just like crude. It's valuable, but if unrefined it cannot really be used. It has to be changed into gas, plastic, chemicals, etc., to create a valuable entity that drives profitable activity; so must data be broken down, analyzed for it to have value."

Michael Palmer

Agenda



• Big data: history of a buzz word.

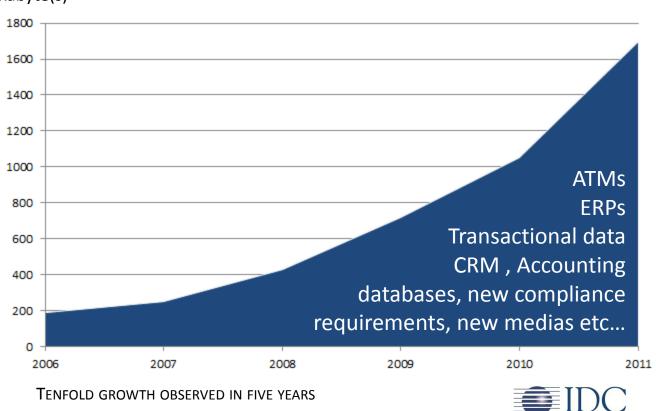
What do you do with Big Data?

Highlights from the marketplace

IDC's observations









Today's hype engine



Hardware vendors











Web economy



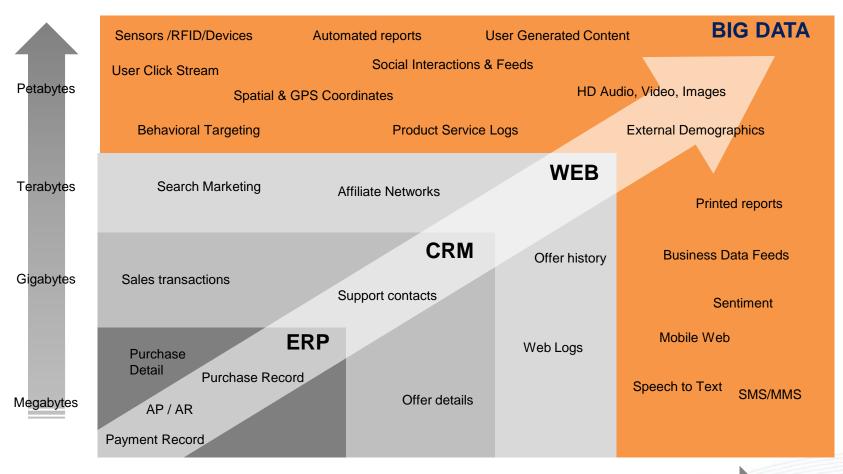
Definition



 "...data sets with sizes beyond the ability of commonly-used software tools..."

Spectrum





Increasing Data Variety & Complexity

Challenge always existed



- Auditors struggled to gain access to information.
- The auditor briefcase need to import from any accounting system.
- CPA firms still struggle to get relevant data from clients using ERPs.

Today: your competitive edge



- Auditors and risk seen as subject matter expert in their field
- CA implementations already required data centric approach, and auditors taking the lead in many banking initiatives.
- Supreme auditors, big 4 and F500 invested already in many data mining initiative stamped as "big data".
- The auditors briefcase usually includes some data analytics.
- ➤ Audit and Governance professionals are suited to capitalize, and deliver insights from big data

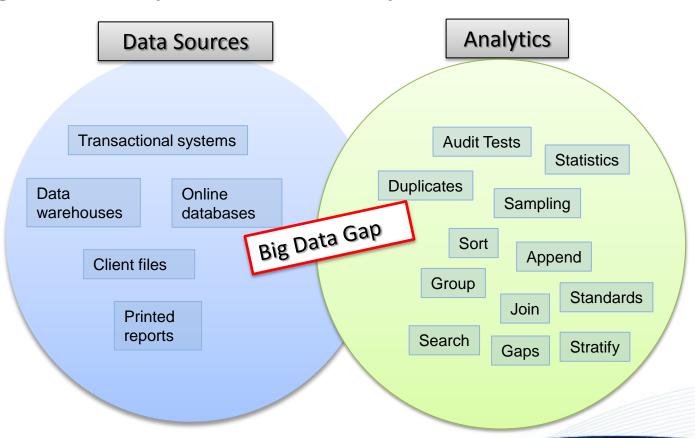


Delivering value out of Big Data

Analytics as a solution



Big data is a problem... Analytics the solution



Examples



Medicare fraud

• In modern science

Example



- Medicare:
 - Massive data sets
 - Spread across all states and insurance
 - Applying analytics on "low hanging fruits":

Authorities charge 91 in \$430 million Medicare fraud

(Reuters) - Ninety-one people including doctors, nurses and other medical professionals were charged criminally in a new sweep of Medicare fraud

Modern science



- Protein folding
 - Human DNA code
 - Protein folding is one of the hardest computational problems in biology

September 4, 2012 5:00 PM

Last year, two teams of gamers co-authored a paper describing an HIV-related protein that had long stumped scientists. Not only did they puzzle out the protein's elusive shape, they did it in just three weeks. Their scientific method: Play a multiplayer online game called Foldit.

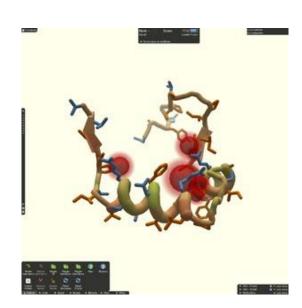
Popular Mechanics 2012

- Traditionally requires:
 - Mathematicians and developers able to write algorithms
 - Highly qualified scientists capable of interpreting results

Modern science



- How did they do it?
 - ➤ New approach, new tools:
 - Distributed computing grid
 - Easy-to-use interface providing a single view of the problem, without the need to interpret data
 - Enabling collaboration of hundreds of individuals



In Today's World.



Modern Science

To play, gamers wiggle, shake, and pull digital models of proteins into new shapes—the more compact the shape, the higher the score. People who cooperate tend to be most effective. "You

"You don't find many soloists among the top scorers."

Global Moderator

How CA initiatives can help



- 1. A framework for gaining insights.
- 2. Effective analytics requires **domain expertise**, CA technologies minimize the interpretation.
- 3. CA technologies include a **collaborative** component (escalation, ownership etc..) .

> Empowers IT initiatives to focus on infrastructure.



Highlights from the marketplace

The fact that "big data" is the next big thing is hardly new, but there are obstacles to its adoption. Manipulating data to get it to reveal patterns and useable information is hard and requires skills that many do not nosses. In companies, it tends to be the preserve of IT departments. Getting the Big Picture on Big Data

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Now, a company that grew out of research in Stanford, Calif., hopes to go some way towoard putting sophisticated and powerful data visualization tools into the hands of anyone comfortable using a spreadsheet

We caught up with Jock Mackinlay, the director of visual analysis at Tableau software, during his fleeting visit to London. Tableau is a range of software to be caught up with Jock Mackinlay, the director of visual analysis at Tableau software, during his fleeting visit to London. Tableau is a range of software to be caught up with Jock Mackinlay, the director of visual analysis at Tableau software, during his fleeting visit to London. Tableau is a range of software to be caught up with Jock Mackinlay, the director of visual analysis at Tableau software, and produce rich interactive data presentations. We caught up with Jock Mackinlay, the director of visual analysis at Tableau software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, and the london is a range of software, during his fleeting visit to London. Tableau is a range of software, and the london is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, and the london is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, during his fleeting visit to London. Tableau is a range of software, and the london is a range of software, during his fleeting visit to London. Tableau is a range of software, and the london is a range of software, and the l the hands of anyone comfortable using a spreadsheet.

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Schumpeter

Building with big data

The data revolution is changing the landscape of business May 26th 2011 | from the print edition





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Local Governments: Ready for News yesterday from the U.S. Census Bureau that there are 89,004 local states today. All ready for transformation by bi News yesterday from the U.S. Census Bureau that there are 89,004 local of transformation by big

rin Europe "could save more than E1000 hillion (\$1.40 hillion) in year; Mckinsey estimated that the application of big data in the put innational efficiency innational estimate along his including billion in a new including billion in including billion. in Europe "could save more than £100 billion (\$149 billion) in

"NOW IS THE TIME TO DEFINE A PRAGMATIC APPROACH TO BIG DATA WITH ADVANCED AUTOMATED ANALYTICS"







\$96-\$120 BILLION IN IT SPENDING IN 2013.

Driving factors



- Which application scenario for big data?
 - 1. (44%) Improved risk management
 - 2. (42.7%) Improved product development
 - 3. (40%) IT Analysis
 - 4. (36%) Improved management control
 - 4. (36%) Improved Customer Service

Source: IDC

Biggest challenge for big data



- What is the most important gap for successful big data initiatives:
 - 1. Data storage
 - 2. Qualified experts
 - 3. Costs

... where does CA fits?















Logical conclusions



 The subject matters experts that you are will be even more consulted

 Opportunities to deliver fast results and implementations of the technology and best practises will only increase

Our recommendations



- Engage and commit IT efforts to positive cash flow outcomes.
- Develop an enterprise-wide view based on CA technologies.
- 3. Start small with existing data for immediate returns, go for the quick wins, build analytical capabilities progressively.
- Create a business case based on measured ROI for larger picture.



It's you versus a 5.75-billion-row data set. Is your PC up to the challenge?

IDEA Server is. It works seamlessly with IDEA®, so you and your audit team can process large data sets and share analytics in a familiar, easy to use interface.

With secure, self-serve access to data, accelerated performance on large data sets, and collaborative support, you can work smarter and focus on what matters: getting the job done.

Questions

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