Business Intelligence & Big Data for the Accounting Firm & Your Clients

Session 11 – Thursday, July 13, 2017 Presenter – James C. Bourke, CPA.CITP.CFF.CGMA WithumSmith+Brown

Jim Bourke

PACTEP CFF COMA Pactner at WithumSmith+Brown Responsible for everseeing all technology issues and operations for the Films 15 offices and over 950 employees technology issues and operations for the Films 15 offices and over 950 Named by Accounting Today as one of Accounting Profession Named by APracice Advisor as one Accounting Profession Past Prevident NJSCPA Past Previden NJSCPA Past AICPA Board Member & Member of AICPA Council



Business Intelligence & Big Data

Interactive Session

- · So what is it and where does it exist in your firms? open discussion.
- · Examples of what you are doing.
- · How can it change the way we do business?
- Technology that's available today What are you using?
- What could the future look like?
- Q&A

The Emergence of the Business Intelligence Concept

The development of business intelligence software can be traced back to 1865. This was the year when Professor Richard Miller Devens coined the term 'business intelligence' referring to common reminiscent between bankers' decision making in his book 'Cyclopaedia of Commercial and Business Anecdotes'. The same term is used nowadays for all corporate data-related analytic processes.

It took more than 150 years for business intelligence to become a separate scientific process embraced by entrepreneurs and develop the methods it offers nowadays.

Descriptive to Predictive

Business Intelligence is progressively moving toward predictive as opposed to descriptive analytics. **Predictive analytics** are intended to give decisionmakers a shot at understanding the future consequences of decisions, while **descriptive analytics** are more backward looking.

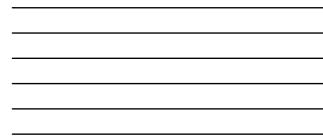
Business Intelligence Market to Reach \$26.8 Billion by 2021 - Driven by the Growth of Advanced Analytics & Adoption of Data-Driven Decision Making - Research and Markets

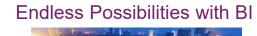
newswire.com/news-releases/business-intelligence-market-to-reach-288-billion-by-2021---driven-by-the-growth-of alytics--adoption-of-data-driven-decision-making---research-and-markets-300427853.html



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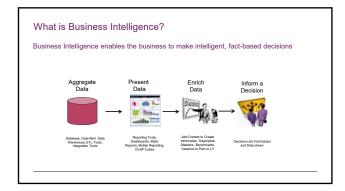


Think About BI from an Audit Perspective...

•Testing complete sets of data, rather than just testing samples.

Alding risk assessment through identification of anomalies and trends, perhaps even through comparison to industry data, pointing auditors toward items they need to investigate further.
Providing audit evidence through comprehensive analysis of organizations' general ledger systems.

See more at: http://www.journalofaccountancy.com/issues/2015/apr/data-analytics-for-auditors.html











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Here's what Deloitte's CEO told her 15year-old son when he asked if robots would take his job someday.....



"Mom, are robots going to take my job someday?" Engelbert, writing <u>in a post on</u> <u>LinkedIn</u>, recalled being asked by her son.

"I told him: 'Don't worry — I've never met a machine with courage and empathy,'" she

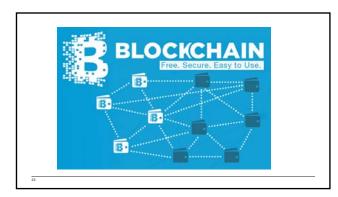
But to this, Engelbert urges employees to

"Tasks that are highly manual, routine, and predictable will be automated," she wrote. "But jobs are made up of many tasks. So the nature of existing jobs will change, and new careers will be created."

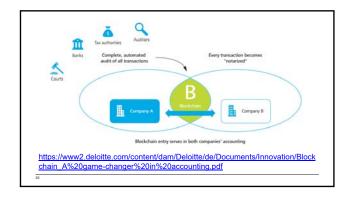
"In the next 5 or 6 years I think that the accounting and auditing profession will change more that it has in the last 30."

"Machines and AI-enabled technology will streamline data acquisition challenges faced by auditors. That will leave humans to review, analyze and audit."

PwC Audit Innovation Leaders, CFO.com, February 2017 http://ww2.cfo.com/auditing/2017/02/artificial-intelligence-audits/



Reporting Blockchain and the future of audit







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How do you make "Sense" of the data?

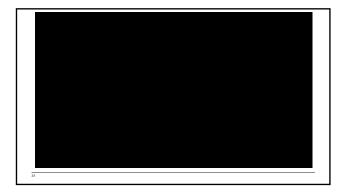
Spreadsheets
Reporting and querying software
Online analytical processing (OLAP)
Digital dashboards
Data mining
Process visualization
Data warehousing
Local information systems
Data cleansing

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US Government	Germany	China
Customers in the public sector are now able to use Power B while meeting additional security, privacy, and compliance requirements.	Power BI Germany is designed to meet the needs the most regulated customers in Europe.*	d 21Viariet independently operates, provides, manages, and supports the delivery of Power BI is China.
Learn more	Learn more	Learn more (Chinese)

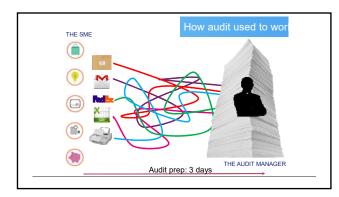






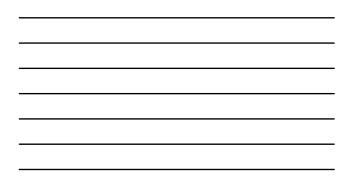












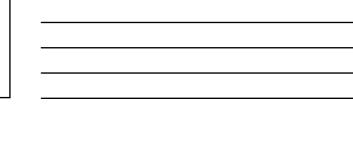






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