

Data Analytics – Challenges & Opportunities

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Audit Training of Trainers

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IFAC SMP Committee—Overview

- To represent interests of SMPs
- Comprises 18 members and 18 technical advisers from 22 countries



- Three main areas of focus:
 - Input to policy, regulation, and international standards
 - Develop and share tools, guidance, standard support
 - Practice Management Guide update new chapter on technology
 - Promote the visibility and recognition of SMPs
 - Includes Global SMP Survey covers technology



SMPC Response to IAASB Request for Input I

- IAASB Data Analytics Working Group (DAWG) Request for Input 2016: Exploring the Growing Use of Technology in the Audit, with a Focus on Data Analytics
- Key SMPC comments:
 - Welcomes and supports the DAWG initiative in a rapidly developing area
 - Awareness of DA is critical it has potential to transform the existing audit model, increase effectiveness and improve client service
 - But communication must focus on basic mechanics
 - Opportunities not to be missed for SMPs....









SMPC Response to IAASB Request for Input II

- Key SMPC Comments cont.:
 - Resource challenges more acute for SMP/SMEs
 - Software providers accessible and affordable tools to encourage adoption…?
 - Short-term priority for IAASB develop guidance on how DA fits within existing ISAs







SMPC Response to IAASB Request for Input III

- Key SMPC Comments cont.:
 - IAASB needs to ensure future ISA changes are proportional and evidence based
 - Education on DA and wider technology developments are critical, Member Organizations have a role to play
 - DA provides an opportunity to address recruitment and retention issues









Data Analytics: How Businesses Use It I

- ICAEW publication: Audit Insights Data Analytics
- https://www.icaew.com/-/media/corporate/files/technical/audit-andassurance/audit-insights/audit-insightsdata-analytics.ashx
- As a tool to achieve existing objectives, or a means to change the nature of the business itself?

ICAEW AUDIT AND ASSURANCE FACULTY





Evidence, not assumptions

Audit insights: data analytics



Data Analytics: How Businesses Use It II

Many examples:

- Managing fleets of vans carrying spares: fewer vans, travelling less distance, with lighter loads
- Optimizing mark-downs in retail using algorithms: increases profit and takes the guesswork out of provisioning
- Evaluating the impact of health & safety training in extractive industries
- Ex-post resume analyses to highlight the effectiveness of HR policies and procedures
- Revenue collection and fraud detection in telecoms: fraudulent use of handsets, card cloning or unauthorized use of legitimate accounts?



Data Analytics: How Businesses Use It III

- Data analytics and governance: who understands and controls the data and the models? Are they accountable?
- Risks of not responding to the challenge and treating it solely as an enhancement of control...
- The death of preventative (vs. detective) controls?
- Expectations of powers of regulators use of data analytics in regulated industries?



Data Analytics for External Auditors I

- ICAEW Publication: Data Analytics for External Auditors
 - https://www.icaew.com/en/technical/auditand-assurance/faculty/audit-andtechnology/data-analytics
- Interviews with 12 practitioners heavily engaged in DA
- Asks fundamental questions
 about the opportunities DA
 presents to auditors,
 regulators, standard-setters
 and academics





Data Analytics for External Auditors II

About enhancing audit quality

- Another opportunity for the profession to reinvent itself innovation in audit is essential, and is happening....
- Risk of not responding to market demands and external audit being marginalized
- DA has the potential to improve and transform? the *risk* assessment process also substantive procedures and
 test of controls?
- Enables auditors to manipulate a complete data set and visualize results graphically, easily and at speed
- Has the potential to enhance the quality of audit evidence consistently and cover entire populations,
- Provides broader, deeper and more granular insights







Data Analytics for External Auditors III

- Commonly performed DA routines:
 - Inventory ageing and how many days items are in stock
 - Analyses of revenue trends by product or region
 - Three way matches
 - Analyses of capital expenditure v repairs and maintenance
- A lot can be done with basic 'analytics' functions in spreadsheets, but...
- The interface between auditor and client system is the biggest technical challenge – including data validation and transformation



Data Analytics for External Auditors IV

- Challenges cont.:
 - Data security and privacy issues
 - Legal and regulatory challenges
 - Investment in hardware, software, re-training and reskilling auditors and recruiting data transformation specialists
 - Ethical dilemmas: management and auditors can see things they have never before been able to...
 - Audit pricing: will future fees be based on the quality of client data?





Looking Forward...

- Audit of the future: hybrid current models and new tools?
- Pace of change is fast
- Standard setting, the pace of change and innovation?
- The digital journey: Cyber-security, AI, Blockchain?





IFAC Resources

- IFAC SMP Committee: www.ifac.org/SMP
- Follow us on <u>Twitter</u>: IFAC_SMP
- IFAC Global SMP Survey <u>www.ifac.org/smp</u>
- Join us on <u>LinkedIn</u>: IFAC SMP Community
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