ELEVATING AUDIT THROUGH RISK-BASED AUDITING WITH CONTINUOUS MONITORING

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- The Institute of Internal Auditors (IIA) framework defines internal auditing as: 'An independent, objective assurance and consulting activity designed to add value and improve an organisation's operations. It helps an organisation accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control, and governance processes'
- It is a common fallacy that the Internal Audit function exists to pick holes in management's operations. This is not at all the case! Internal Audit must involve the organisation more in the audit process and produce recommendations that contribute to the organisation's objectives. At the same time, the internal audit activity has to be careful not to lose its independence and objectivity because of moving closer to the operations
- Internal Audit transitions from the business of providing subjective opinions on "control effectiveness" on a small fraction of risk universe to ensuring senior management and board are aware of the current residual <u>risk status linked to key strategic value creation objectives and potential value erosion objectives</u>
- Enables an organisation to optimise level of risk being taken to best <u>achieve the organisation's</u> <u>objectives whilst still operating within the risk appetite of the organisation</u>



Norman Marks on Governance, Risk Management and Audit:

In May 2020 the IIA published a new <u>Practice Guide: Developing a Risk-based Internal Audit Plan</u>. Practice Guides (PG) are recommended guidance but not mandatory. Here are some of the shining lights in the PG (with my highlights):

- In today's business environment, effective internal auditing requires thorough planning coupled with nimble responsiveness to quickly changing risks.
- To add value and improve an organisation's effectiveness, internal audit priorities should align with the organisation's objectives and should address the risks with the greatest potential to affect the organization's ability to achieve those objectives.
- Comprehensive risk-based planning enables the internal audit activity to properly align and focus its limited resources to **produce** insightful, proactive, and future-focused assurance and advice on the organization's most pressing issues.
- While the annual risk assessment is the minimum requirement articulated in the Standards, today's rapidly changing risk landscape demands that internal auditors assess risks frequently, even continuously. Risk-based internal audit plans should be dynamic and nimble. To achieve those qualities, some CAEs update their internal audit plan quarterly (or a similar periodic schedule), and others consider their plans to be "rolling," subject to minor changes at any time.
- Which types of internal audit engagements will provide senior management and the board with adequate assurance and advice that significant risks have been mitigated effectively?
- need to continuously assess risks, re-evaluate risk priorities, and adjust the plan to accommodate the new priorities.

Providing assurance after auditing auditable entities is not the same as providing assurance on the more significant enterprise risks. Audit risks to the enterprise, not risks to an auditable entity.



Norman Marks on Governance, Risk Management and Audit continued:

The PG includes one paragraph on page 12 that is important, although not well understood and not explored further by the PG:

...internal auditors should consider that "risks represent the barriers to successfully achieving ... objectives as well as the opportunities that may help achieve those objectives." Indeed, "risks may relate to preventing bad things from happening (risk mitigation) or failing to ensure good things happen (that is, exploiting or pursuing opportunities)."

In other words, it is necessary for management **not only to only take risks when justified, but also to seize opportunities judiciously.**



Norman Marks on Governance, Risk Management and Audit continued:

The PG crashes and burns by talking about an *audit universe* (a list of auditable entities). It then turns everything to ashes by recommending what we used to call cyclical auditing!

The audit frequency is based upon the level of residual risk determined in the risk assessment. For example, auditable units ranked high-risk may be audited at least annually (or once every 12 to 18 months), those rated with a moderate level of risk scheduled may be reviewed every 19 to 24 months, and those rated low-risk might be audited only once every 25 to 36 months (or not at all)

This approach has been obsolete for at least 20 years. The idea that you can predict what you should audit in future years is beyond credibility (and contradicted by the first pages of the PG). Over my long career as a CAE, I never predicted with any degree of certainty what we would audit more than 3-6 months out. The PG at one point even mentions moving to a 7 year plan!



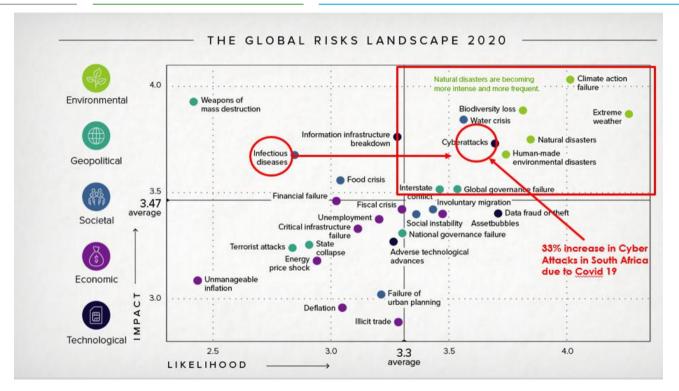
Audit approach based on Risk Maturity

	Controls	Monitoring	Audit approach
Risk enabled	All risks identified and assessed. Regular reviews of risks. Responses are in place to manage risks	Management monitor that all types of response are operating properly. All managers provide assurance on the effectiveness of their risk management and are assessed on their risk management performance	Assurance
Risk managed		Management monitor that all types of response are operating properly. Most managers provide assurance on the effectiveness of their risk management and are assessed on their risk management performance	
Risk defined	Majority of risks identified and assessed. Regular reviews of risks. Responses are in place to manage most risks	Some management monitoring that all types of response are operating properly	Consultancy
Risk aware	Controls may be in place but are not linked to risks	Little monitoring	Cannot use RBIA. Adopt a consultancy approach to promote risk management
Risk naive	Controls, but some may be missing or incomplete	Very little, if any monitoring	and achieve 'risk defined' status. Carry out risk driven audits.

Courtesy Unisa



Risk and Opportunity management is a 'Living' thing





Consequences of poor risk management

The consequences of poor risk management

Decision making

Michael Ferendinos, Risk Officer, AECI: Risk and Opportunity management is a 'living' thing. We need to remind
management and exco who are 'flat out with 'business as usual' of the <u>inter-connectedness of risks and the external</u>
<u>environment (context)</u> and to raise awareness and stimulate debate. In this way, we as risk practitioners will elevate our
standing within our organisations and risk and opportunity management will take its rightful place as a strategic
business enabler and imperative rather than a 'compliance / tick box' exercise

Business Resilience

Steve Simmonds, CEO, SynergyGRC: Some things in life are unavoidable – we certainly cannot control all the threats to our business that lead to most of these unforeseen situations. However, by doing our due diligence and <u>looking at ways of developing strategies to mitigate these threats and the impact they have on our businesses</u> we will be well prepared to maintain business functions and overcome these unavoidable situations and as a business be resilient when we are faced with new unavoidable situations!



Consequences of poor risk management

The consequences of poor risk management

Reputational risk

 Warren Buffet, Salomon Brothers: "Lose money for the firm and I will be understanding; lose a shred of reputation for the firm and I will be ruthless"

Technology disrupter risk/s

- Mark Casey, Director, Deloitte: "We need a <u>strategy for the future that will ensure that we stay relevant</u> and stay in business when today's asset becomes free" (Nokia, Blackberry, Air BnB, Uber, Amazon etc.)
- The Fifth Revolution is around the corner with <u>game-changers</u> in the areas of nano-technology, material technology, genetic engineering, robotics, medical, The Internet of Things, advanced information management (e.g. biometrics, social media, drones), energy etc. The better our tools get (i.e. technology) the faster things change. A few classic examples of household names which carried on with 'business as usual' are Kodak, Polaroid, Blockbuster etc. I wonder when and how the Middle East and oil businesses will re-invent themselves in the next few years with the advent of 'fracking' and the huge advancements of electric cars



Consequences of poor risk management

The consequences of poor risk management

People risk

Miles Crisp, CEO Tarsus: "I contend that the biggest risk in your organisation is the culture of the organisation, through leadership and people, inability to hold people accountable, and unwillingness to hold people accountable, mistrust between people and none of these things happen without interventions in your organisation". <u>Putting the right people in the right seats to achieve success, removing the clots (people and groups blocking the vision / strategy and smooth flow of the organisation) and ethical and honest leadership (genuine tone from the top) results in a winning business</u>

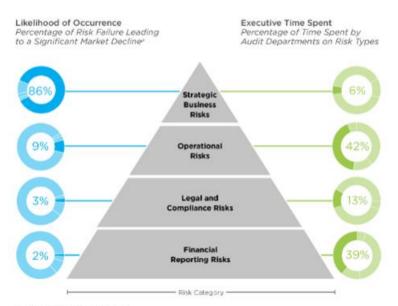
Political and Economic risk

Nicky Weimar, Senior Economist – Nedbank: The other thing I would do is, while we in this crisis, I would revisit some of
those structural constraints holding back growth in SA. <u>I would get legislators and regulators working on legislation,
which will lower the cost of production</u>, reduce the regulatory and legislative burden on companies and generally lower
compliance costs. To view the recordings of the webinar sessions, click here



Strategic Risks Destroy the Greatest Value

Share Price Impact and Audit Time Allocation Across Risk Categories n = 67



Among the more than 10,000 companies that make up CEB's global membership including almost 2,000 general counsel, chief compliance executives, chief audit executives, chief information security officers, and heads of ERM - the best companies employ three standout risk management practices to avoid Organisational Drag:

- Incorporate Risk Management in Strategy (and Vice Versa) and Establish a Healthy Risk Appetite
- Coordinate Disparate Risk Information for Decision Makers
- Manage Human Behaviour as Part of the Risk Management Process

Source: CEB 2014 Share Shocks Analysis.



A significant market decline is defined as a drop in market capitalization of more than 40% in a single year.

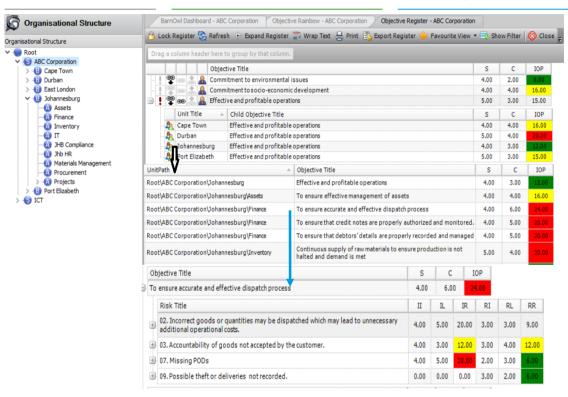
Integrated Risk Management & Assurance



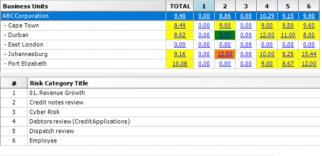


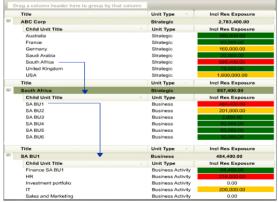


Objective based risk management and assurance



Risk scorecard (qualitative / quantitative)







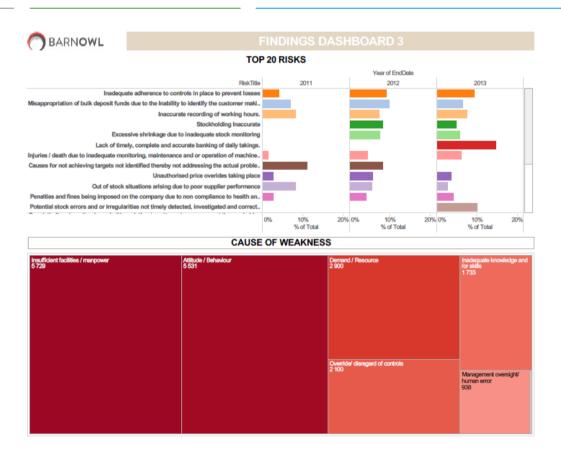
Top risks showing no. of findings by year by site

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TOP 10 RISKS				
	Ye	ear of EndDate		
RiskTitle	2011	2012	2013	
Inadequate adherence to controls in place to prevent losses	27	3,483	2,412	
Misappropriation of bulk deposit funds due to the Inability to identify the customer making the bulk deposit	45	3,798	1,701	
Inaccurate recording of working hours.	54	2,799	1,962	
Stockholding Inaccurate		3,177	1,278	
Excessive shrinkage due to inadequate stock monitoring		2,889	1,476	
Lack of timely, complete and accurate banking of daily takings.			3,834	
Injuries / death due to inadequate monitoring, maintenance and or operation of machinery.	9	1,737	1,602	
Causes for not achieving targets not identified thereby not addressing the actual problem.	72	3,204		
Unauthorised price overides taking place	18	2,223	945	
Out of stock situations arising due to poor supplier performance	54	2,169	738	

TOP BUSINESS UNITS @ LEVEL 3								
Unit Level 1	Unit Level 2	Unit Level 3						
ABC Retail	Operations	Ops Area 1			60,984			
Group Ltd		Ops Area 2			45,945			
		Ops Area 3			27,990			
		Ops Area 4			54,225			



Risk trends with root cause analysis





Root cause by site







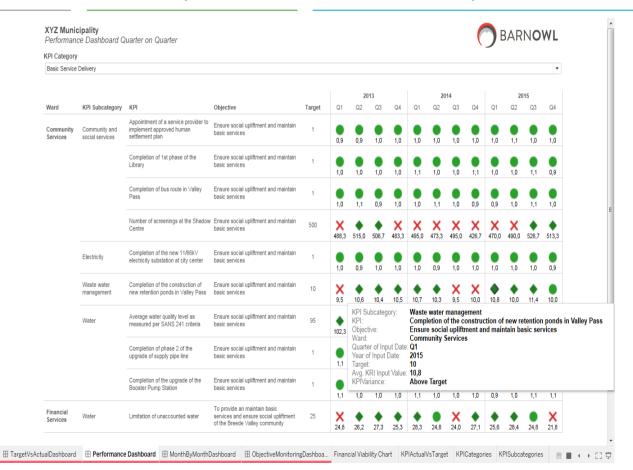
Combined assurance reporting

	BarnOwl Evolut Assurance Landscape	: (All)								
	Business Unit: Jhb	HR								
					Assurance	nrovider				
			Man	Management			Assurance provider Internal			
Unit	Risk	Controls	Exco	Management	Specialist	Compliance	Internal Audit	PwC	ernal Deloitte	
		Career planning	М	W	A	Α	A		Α	
	Headhunting by competitors	Competitive remuneration	W				M		Α	
		Promotion and transfer	W				M		A	
		Career planning	М	W	A	A	A		A	
	Lack of ability to attract and retain new talent	Competitive remuneration	W				M		Α	
		On the job mentoring	W				M	A		
		Certifications and licensing								
	Lack of appropriate training	Cross training								
	Lack of appropriate training	Formal training								
		On the job mentoring	W				M	A		
		Certifications and licensing								
		Cross training								
	Lack of core competencies	Established performance measures								
		On the job mentoring	W				M	A		
Jhb HR		Performance appraisal system								
	Lack of succession planning	Career planning	М	W	A	A	A		A	
	Lack of succession planning	On the job mentoring	W				M	A		
	No follow up on staff losses	Perform exit interviews								
	into follow up off stall losses	Setup alumni programme								
		Disciplinary policy and procedures								
		Employment contracts								
	Non compliance with laws and regulations	Equal employment opportunity Harassment and discrimination policy and procedures								





Key Indicators (KPIs, KRIs, KCIs)







In summary

- In order for the auditor to add value to and improve the company's operations, it is important for the auditor to understand the business objectives of the organisation and the risks that threaten or need to be taken (opportunity) to achieve these objectives. Knowing where the biggest risks lie, makes it easier for the internal auditor to focus their audit effort on the areas where the most value can be added.
- http://www.barnowl.co.za/insights/6-ways-risk-based-auditing-adds-value-to-your-organisation/
- 'The risks of risk management' written by C. Burt, Halex Consulting Limited UK
- Arbutus Data Analytics by Anton Bouwer: <u>Managing Procurement Fraud Risk</u> through Continuous Monitoring

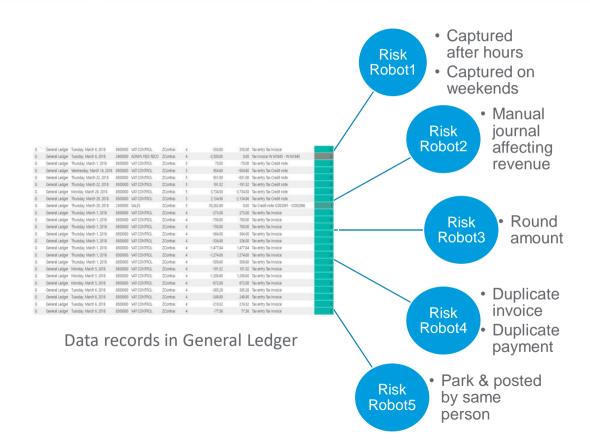


Continuous Risk Measurement through Data Analytics

- Risk indicators resides with data records.
- Each record carries a wealth of information that can on its own, or compared to appropriate benchmarks, distinguish the record from its peers.
- Process of measuring risks through data analytics must cater for the fact that data records can change over time. Eg, a Journal can change from parked to posted to placed on-hold to marked for cancellation and back to posted. Can happen over a relatively long period of time. Obviously, a journal placed on-hold carries a higher risk rating than a Journal parked and awaiting approval.
- Similarly can a vendor invoice be unique in the system today but tomorrow the invoice can be duplicated and immediately the risk associated with that invoice increases.
- Risk measurement of data must be dynamic. It must be attached to a data record. The concept of Robotics is perfectly suited for Continuous Risk Measurement.
- Methodology Attach robots as fields (computed columns) instead of independent programs.
 Robot lives with data record; continuously.

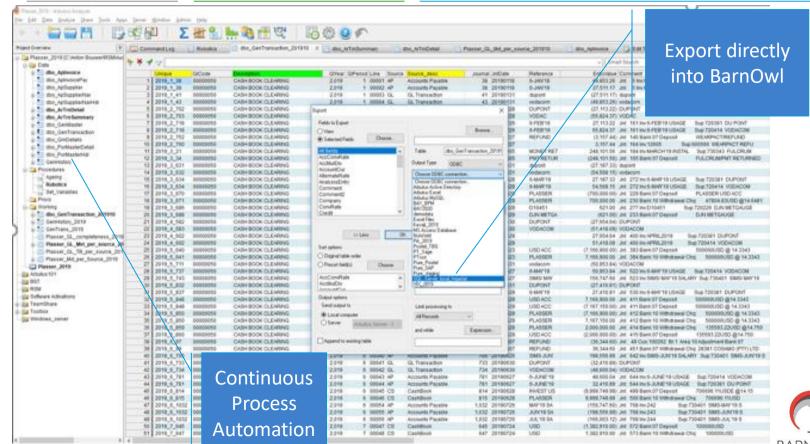


Continuous Risk Measurement through Data Analytics





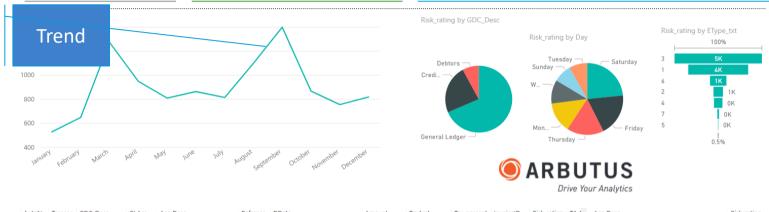
Seamless integration with Risk Management System







Continuous Risk Measurement through Data Analytics



		GDC_Desc	GLAcc	Acc_Desc	Refrence	DDate	Amount	TaxAmt	Tax_percent	InvoiceID	Risk_rating		Acc_Desc	Risk_rating
mber	tionID										•	_am	DIRECT WAGES	647
431038	3114	General Ledger	2300000	SALES	ZContras	Saturday, June 30, 2018	-3,047,167.51	0.00	0.00	IN143076	4		DIRECT SALARIES	425
424421	3020	General Ledger	8130000	SUNDRY CREDITORS	138	Saturday, March 31, 2018	-550,088.14	0.00	0.00		4		VAT CONTROL	403
432667	3126	General Ledger	8130000	SUNDRY CREDITORS	145	Saturday, June 30, 2018	543,433.55	0.00	0.00		4		COD ACCOUNT	328
440889	3218	General Ledger	8130000	SUNDRY CREDITORS	162	Sunday, September 30, 2018	-588,278.47	0.00	0.00		4		HYDRO POWER EQUIPMENT(PTY)LTD	297
427200	3046	General Ledger	8150000	ACCRUED EXPENSES	ZContras	Sunday, April 1, 2018	750,362.48	0.00	0.00	PN173854	4		ACCRUED EXPENSES	282
432509	3122	General Ledger	8150000	ACCRUED EXPENSES	ZContras	Saturday, June 30, 2018	1,311,877,46	0.00	0.00	PN174971	4		Inventory - Material (vjs)	245
440365	3203	General Ledger	8150000	ACCRUED EXPENSES	ZContras	Sunday, September 30, 2018	1,895,366.85	0.00	0.00	PN176628	4		VEHICLE EXPENSES	228
424407	3020	General Ledger	1950000	INTEREST RECEIVED	138	Saturday, March 31, 2018	-9.69	0.00	0.00		3		SALARIES - ADMIN.	225
432597	3126	General Ledger	1950000	INTEREST RECEIVED	148	Saturday, June 30, 2018	-126.15	0.00	0.00		3		SUNDRY CREDITORS	180
432626	3126	General Ledger	1950000	INTEREST RECEIVED	149	Saturday, June 30, 2018	-8.48	0.00	0.00		13		WIP - Material (vjs)	179
422033	3002	General Ledger	2300000	SALES	Zeontras	Thursday, March 29, 2018	-4.059,867.58	0.00	0.00	IN142110	3		COGS - Material (vjs)	171
425570	3034	General Ledger	2300000	SALES	ZContras	Thursday, April 19, 2018	-1,601,430.06	0.00		IN142301	3		Inventory - Subcontract (vjs)	171
425885		General Ledger				Friday, April 27, 2018	-2,941,302.23	0.00		IN142460	3		TELEPHONE & TELEX	169
428253		General Ledger	230			Thursday, May 31, 2018	-3,340,989.33	0.00		IN142808	3		LESS PROVISION FOR DEPRECIATION	160
432990		General Ledger	230			Tuesday, July 17, 2018	-906,151,39	0.00		IN143194	3		WATER & ELECTRICITY	151
433219		General Ledger		Transactions		Tuesday, July 31, 2018	-1,194,596.66	0.00		IN143301	3		WIP - Subcontract (vjs)	150
433257		General Ledger	230	Trailisactionis		Tuesday, July 31, 2018	-1,173,992.00		0.00	114145501			PURCHASES - MATERIALS	147
435237		General Ledger	2300000	CALCO		Friday August 31, 2018	-3 563 108 75		Sumi	marise	he		Inventory - Labour (vjs)	146
Total	KINK	tseneral Lenner	Z-SCH H H H H	SAIFS	/I notras	Frinav Alimist 31 2018		6,856,616				~	INTEREST PAID	142
<							,		Risk	Rating	zs	>	Total	10833





Thank you

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