BarnOwl & Arbutus

Fully integrated risk management, compliance, audit and data analytics software

BarnOwl background

- BarnOwl is a fully integrated governance, risk management, compliance and audit software solution which can be implemented in a modular fashion.

- IDI Technology Solutions (Pty) Limited (IDI) is a local company founded in 2002 and based in Johannesburg with a 20 year track record.

- IDI are the sole developers, owners, distributors and implementers of the BarnOwl software.

- The BarnOwl solution is used by over 150 clients in South Africa, Africa and abroad.

- BarnOwl is the preferred Risk Management software solution for the Public Sector endorsed by the OAG (Office of the Accountant General).

Why BarnOwl GRC & Audit

Fully integrated risk, compliance and audit software solution	• State of the art (database centric) "off-the-shelf" integrated software solution • Embedded best practice (ISO31000, COSO, GACP, IPPF frameworks, King IV, National Treasury) • Functionally rich • Local compliance content available • Integrated risk & control based auditing • Online / Offline • Facilitates combined assurance
Flexibility with ease of use	• Highly configurable • Parameter-driven system • Allowing you to work the way you want to work
Flexible reporting and graphical drill-down dashboards	• All registers with drag & drop, sort, group, filter, save favourite views with export into Excel • Risk, Compliance and Audit report builder enabling you to extract data easily in 'flat-file' format exported to Excel • MS Word writer / integration for final audit reporting and audit committee reporting • MS Excel and MS Word integration supporting 'prepare', 'review' and 'sign off' • Business intelligence reporting with graphical drill-down, slice & dice dashboards: risk & control, key indicators, incidents, resource management, findings analysis, root cause analysis etc.
Owned, developed, implemented and supported locally in SA	• One team taking full accountability for successful implementation • Totally responsive to your ongoing requirements and • Unrivalled support
Tried and tested	• 20 year track-record with over 150 clients • Highly qualified and experienced team • Extensive client experience adding additional value • Guarantee success
Best Value for money	• Rand based • Bundled licensing: Risk includes Compliance, Audit includes Risk & Compliance, includes Incident Management, Workshop module, Key Indicators (KI) and Open license • Web-based portal (intranet) free to unlimited users for action plans, surveys / checklists, voting (risk & control self-assessments) and KI capture

BARNOWL

Arbutus background

Who is Arbutus

- Arbutus was started by Grant Brodie, co-founder of ACL Services Ltd., to meet the diverse and challenging requirements of audit and other business professionals in performing enterprise-wide testing of organisational data. With a reputation for outstanding customer service, strong product support, and flexible licensing, Arbutus is not only the most technically advanced but, also the best value you will find anywhere in the industry.

- 2003 -2013 providing IT solutions: Data Migration/Data Quality/Data Access (ACL No compete)

- Lead with technology: Believe that better technology will yield better results

- Philosophy - Develop software for users - not to sell more licenses on more platforms

- Approach – Audit data analytics, this is what we do and this is all we do

 Arbutus data analytics locally distributed by Beta Software (a proud subsidiary of RSM South Africa) is arguably the most powerful Data Analytics software on the market.

ARBUTUS
Drive Your Analytics

Why Arbutus

Most advanced data analytical software	• Developed by auditors for auditors • Solely focused on data analytics • Advanced & unique functionality
Solid and stable technology	• Desktop & server on same platform • In use for over 25 years • User orientated, driven by deep technical requirements • Used by more departments
Designed to support continuous audit	• Unique & advanced sharing • Real time comms with SQL based databases • Windows, mainframe, AS400, Linux servers • Advanced SAP connector
Best licencing options in market	• Perpetual • Subscription • Network
Most economical in market	RSA discount for switching – 50% on perpetual Both software and support in perpetuity

Arbutus Analytics

Arbutus Analytics | Platform
The Engine That Powers Change

Your Data
Big, Small, Complex, Disparate

Your Systems
Financial, Operational, IT

Your Platforms
On Premise, Cloud PC to Legacy/Mainframe

Open Platform
Integrate with R, Python, SQL

Data Connectors
Legacy Data, Databases and Systems

Smart Apps & Custom Apps

Analyzer Plus
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Arbutus Hub

Automated Analytics
Scheduled, Centralized, Continuous

Community & Career Enhancement
Online and Classroom Training, Professional Designations and CPEs

Manage Results
Systematically Manage Findings

Audit, Fraud Detection, Risk & Compliance Controls Testing

Access, Verify, Explore & Prep Data
Consolidate, Normalize, Cleanse, Discover

Data Visualization

Email Notification

Audit Management Systems

Other Systems & Applications

Reports & Results

Why BarnOwl with Arbutus

- BarnOwl together with Arbutus offers a <u>fully integrated</u> risk management, compliance, audit management, issues management and data analytics software solution.

- BarnOwl integrated with Arbutus provides a real-time, strategic early warning system informed by continuously updated key indicators in support of <u>continuous risk monitoring.</u>

- The ability to <u>integrate strategy with risk management</u> with top-down strategic objective linking supported by key performance indicators (KPIs). A top-down approach determines the analytic.

- The ability to set and monitor <u>risk appetite</u> at every level of the organisation.

- <u>Embed risk management</u> with action plans and risk & control self-assessments (RCSAs) enabling <u>combined assurance reporting</u> across the multiple lines of defence.

- <u>Real-time dashboards</u> driving preventative and predictive capability.
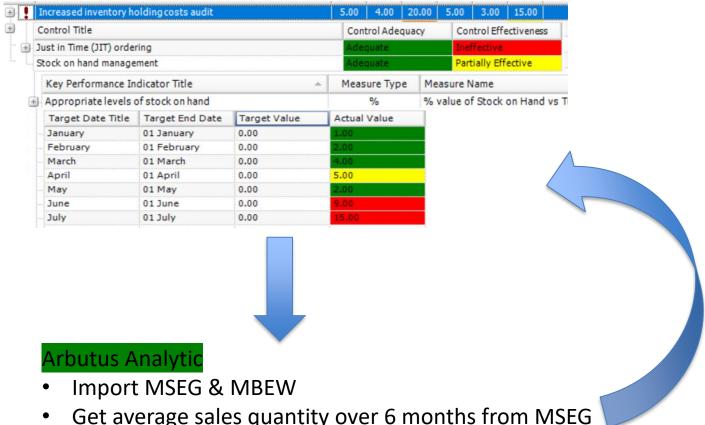
Why BarnOwl with Arbutus

○ Arbutus Audit Analytics provides auditors, business analysts, and fraud investigators with the <u>very best in data analysis technology.</u>

○ Arbutus is not only the most <u>technically advanced </u>data analytics tool, but also the <u>best value </u>you will find anywhere in the industry.

○ BarnOwl is a <u>locally</u> (South Africa) owned, developed, implemented and supported software solution <u>guaranteeing superior and cost effective ongoing support.</u>

○ Arbutus data analytics is <u>locally distributed and supported </u>by Beta Software (a proud subsidiary of RSM South Africa).

○ <u>Arbutus / BarnOwl integration part #1</u>

○ <u>Arbutus / BarnOwl integration part #2</u>

Continuous risk measurement through Data Analytics

○ Risk indicators resides within 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

○ The 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. This 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
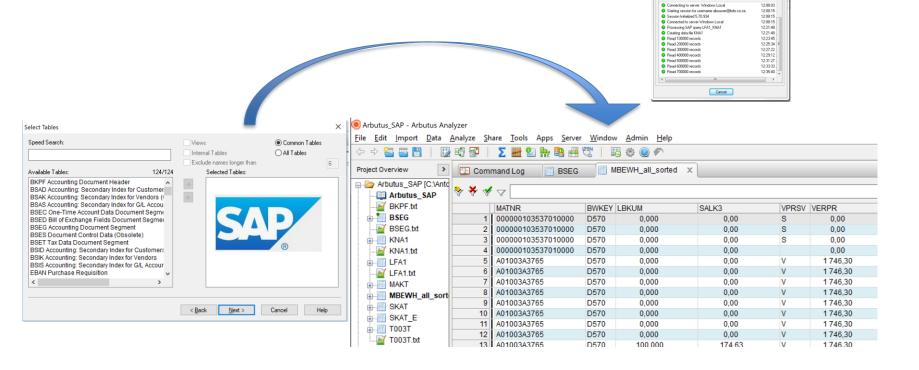
Top down approach - Risk determines continuous Analytic

| Increased inventory holding costs audit | | 5.00 | 4.00 | 20.00 | 5.00 | 3.00 | 15.00 | |

Control Title	Control Adequacy	Control Effectiveness
Just in Time (JIT) ordering	Adequate	Ineffective
Stock on hand management	Adequate	Partially Effective

Key Performance Indicator Title	Measure Type	Measure Name
Appropriate levels of stock on hand	%	% value of Stock on Hand vs T...

Target Date Title	Target End Date	Target Value	Actual Value
January	01 January	0.00	1.00
February	01 February	0.00	2.00
March	01 March	0.00	4.00
April	01 April	0.00	5.00
May	01 May	0.00	2.00
June	01 June	0.00	9.00
July	01 July	0.00	15.00

Arbutus Analytic

- Import MSEG & MBEW
- Get average sales quantity over 6 months from MSEG
- Get current stock holding from MBEW
- Identify value of stock in excess of 6 months sales (QTY)
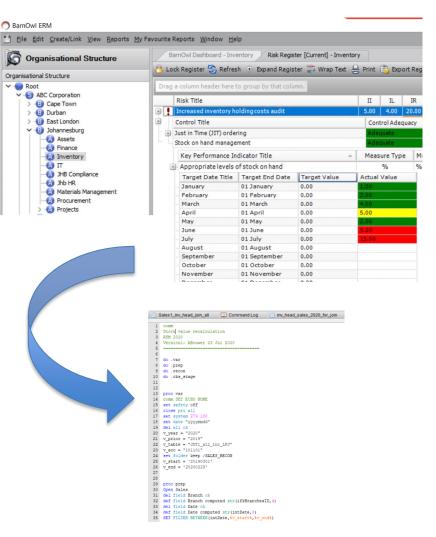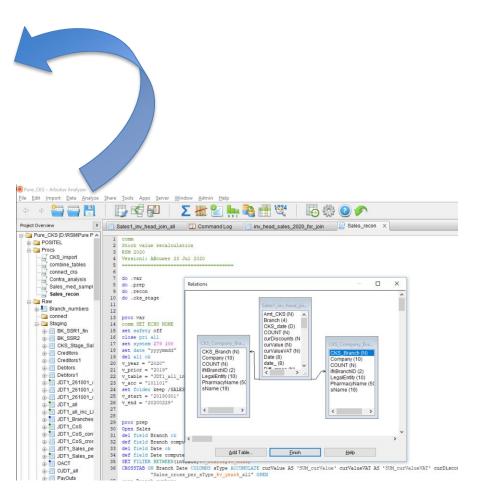- Automate and schedule continuous analysis

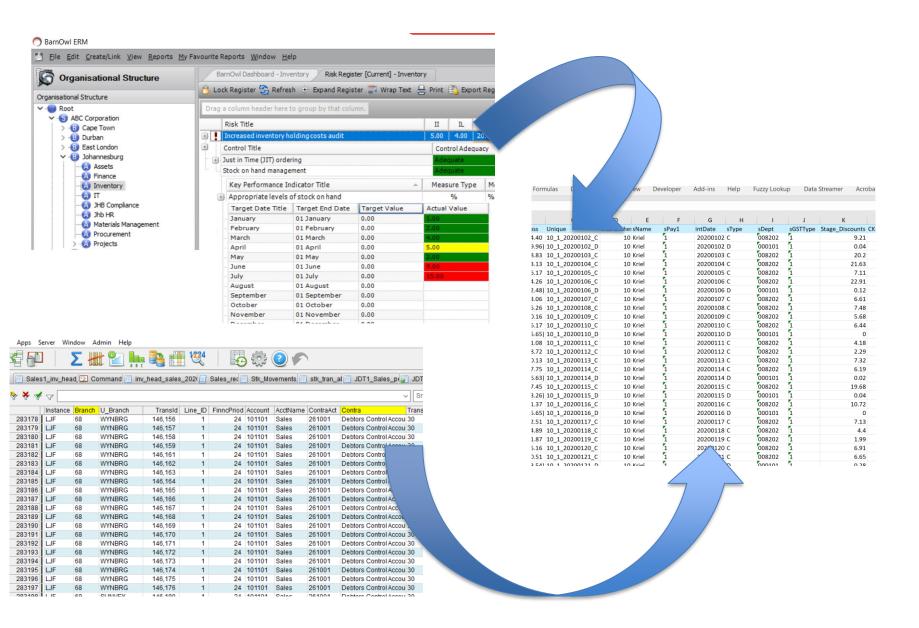# Arbutus Smart Link technology provides independent, continuous access to SAP and other data.
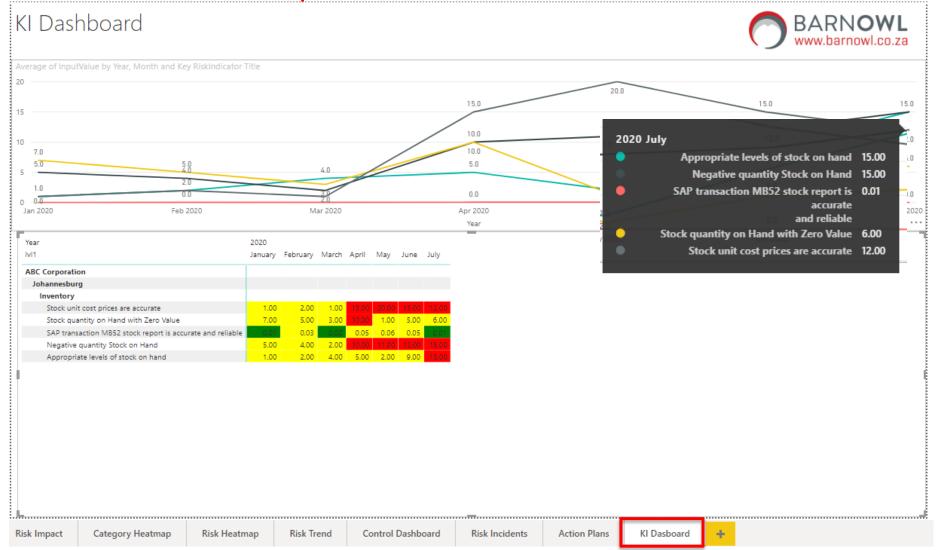
Seamless BarnOwl to Arbutus integration

Link to Arbutus detailed exceptions

Key Control Indicator dashboard

In summary…

- **BarnOwl GRC** is fully integrated with **Arbutus data analytics** giving you the ultimate in real-time risk management and continuous monitoring

- Arbutus is arguably the most powerful Data Analytics software on the market, empowering an organisation to transform its data into valuable business insights

- BarnOwl's integrated, top down approach, enables an organisation to focus its efforts in the right areas when designing and implementing key data analytic/s

- BarnOwl GRC, underpinned by real-time metrics from Arbutus provides a strategic early warning system driving preventative and predictive capability facilitating effective business decision making and business improvement

- https://www.barnowl.co.za/wp-content/uploads/2022/02/Arbutus-integration-Data-Sheetv2-min.pdf

- https://www.barnowl.co.za/tip-of-the-month/tip-of-the-month-april-2022-integrated-assurance/

- https://www.barnowl.co.za/tip-of-the-month/barnowl-arbutus-bringing-grc-to-life-with-integrated-data-analytics-and-continuous-monitoring/

- Arbutus data analytics integrated with BarnOwl GRC giving you the complete continuous monitoring solution

- https://barnowl.co.za/wp-content/uploads/2023/01/RSM_BarnOwl_Elevating_audit_presentation.pdf

- http://www.barnowl.co.za/insights/6-ways-risk-based-auditing-adds-value-to-your-organisation/

Thank You

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