

# When **Data** Works Together, So Does the **Mine**.



*From months of manual reporting  
to hours of automated insight.*

Even with mature operational systems, many mining organisations face a fundamental issue — **information trapped in silos**.

## THE CHALLENGE

Operational, maintenance, safety, finance, and environmental datasets are often managed independently across different applications, formats, and timeframes. This fragmentation slows visibility and prevents leaders from acting in a timely manner when decisions matter most.

Batch uploads and spreadsheet-based reconciliations introduce **delays of hours or even days**, while inconsistent KPIs across departments can lead to conflicting reports and **reduced confidence in operational datasets**.

Engineers and analysts spend valuable time reconciling numbers and responding to issues as they arise, instead of improving mine performance

Executives, meanwhile, lack a single trusted view of operational performance. Reporting depends on manual effort under tight deadlines, making it difficult to act with confidence and agility.

**As a result**, daily or shift planning meetings often start with debates about whose report is correct — rather than taking timely action to drive production, safety and sustainability.

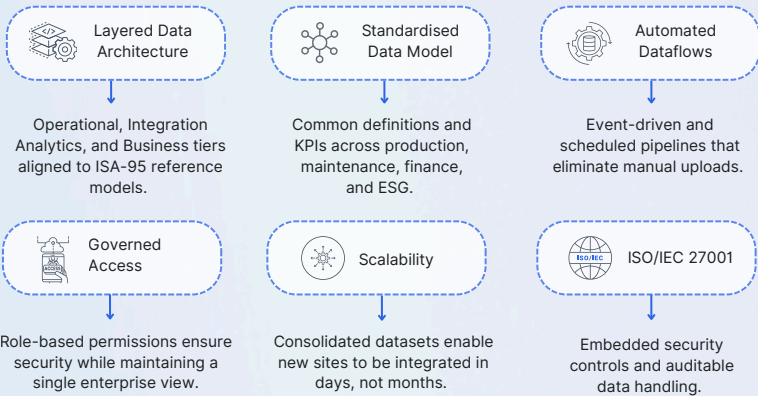


## —Building a Unified Data Fabric

The client recognised that meaningful change required more than technology – **it needed alignment, governance, and a clear trusted vision.**

Working closely together, the teams designed a unified data fabric that connected operational, maintenance, and corporate systems into a single, structured foundation for timely insight.

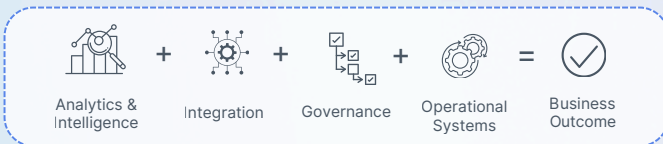
### KEY DESIGN PRINCIPALS



## THE RESULT

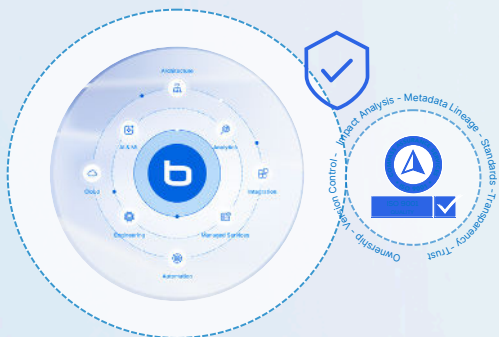
### —A Modern Data Environment

Which enables the organisation to shift from reactive reporting to proactive intelligence – unifying mine site systems with corporate **decision-making in near-real-time.**



## —The Backbone of Data Trust

The structure became **the backbone of data trust**, ensuring every dashboard and model reflected a consistent, validated operational view – a single version of the truth.



Framework Included:

- **Clearly defined data ownership** and stewardship.
- **Data Lineage** to understand downstream impact such as schema or table changes.
- **Version control and naming conventions** for all datasets.
- **A central glossary** for metric definitions.

The organisation was prompted to **establish a Data Governance Framework** defining the standards, tools, and processes for \*future planning/looking forwards\* of the data analytics platform.









## THE OUTCOME



**Smarter, Timelier,  
and Financially  
Aligned Decisions**

Through **structured data governance, automation, and collaboration**, the client gained the ability to make faster, evidence-based investment and operational decisions.

What once required manual reconciliation now delivers near-real-time clarity — **enabling leadership to prioritise resources, optimise spend, and protect margins across every site.**

<b>Capital Allocation Confidence</b>	→		Executives can now see where funds deliver the highest operational return — aligning investment planning with real performance, not estimates.
<b>Operational Efficiency &amp; Cost Control</b>	→		Near-real-time data highlights inefficiencies, allowing leaders to target maintenance, labour, and production costs precisely where savings matter most.
<b>Timely Insight</b>	→		Scheduled updates provide immediate visibility into site performance, empowering leaders to act before issues escalate.
<b>Faster Decisions</b>	→		Morning planning meetings start with one aligned version of the truth and end with clear, data-driven actions.
<b>Lower Operational Cost</b>	→		Automated data integration has reduced manual reconciliation and IT maintenance, freeing resources for higher-value analysis.
<b>Scalable Framework</b>	→		New sites and acquisitions can be onboarded seamlessly, maintaining group-wide governance and accelerating time-to-insight.
<b>Governed Analytics</b>	→		Group and user level security ensure dashboards uphold compliance and control while maintaining secure access to sensitive financial and ESG datasets.
<b>AI Readiness</b>	→		A trusted, unified dataset more easily supports forecasting, predictive maintenance, and ESG performance modelling.

***“In mining, every decision counts.”***

*“We bring structure to complex data so leadership teams can move from discussion to action — with clarity and confidence.”*

**Boon Law, Boon Solutions**



## —A Modern Data Environment

The new data foundation has modernised how the mining organisation operates.

- Monetary value at the core: Continuous planning increases operational profitability through smarter, real-time decisions.
- Predictive maintenance reduces downtime and enhances workforce safety.
- Near-real-time ESG reporting delivers transparency for investors and regulators.
- Unified governance strengthens auditability and trust across global operations.
- Technology-agnostic design supports flexibility, scalability and AI ecosystems.

Fragmented data was transformed into a strategic enterprise asset, empowering leaders to act on current, accurate information with confidence.



*Manual reporting that took months to do, reduced to automated insight.*

## IN CONCLUSION

By listening, planning, and co-designing with the client, the project delivered a lasting transformation — **a shift from isolated data systems to a governed, near-real-time reporting framework that unifies global datasets.**

The project delivered:

- **A unified, governed data fabric** connecting every site
- **Reporting latency reduced** from weeks to hours
- **Self Service analytics**, eliminating the need for ad-hoc static reports
- **A scalable, ISO-aligned foundation** for AI and predictive analytics



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