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## Breaking the Chain of Command: Rethinking Organisational Structures to Unlock Performance in South Africa's Mining Sector

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**Abstract:** This study explores how organisational structure influences employee performance within the mining industry of South Africa. Drawing from qualitative data gathered through semi-structured interviews with twelve mining professionals, the research investigates perceptions of hierarchy, communication flow, decision-making authority, and departmental collaboration. Thematic analysis reveals that traditional hierarchical and centralised structures are increasingly ineffective in a sector facing rapid technological, regulatory, and socio-economic shifts. These rigid configurations were found to impede timely decision-making, reduce engagement, and perpetuate departmental silos, ultimately undermining operational efficiency. Conversely, decentralised and flexible structures were linked to improved morale, faster problem resolution, and enhanced cross-functional collaboration. The study contributes to the body of knowledge by contextualising organisational structure within the unique realities of high-risk, resource-intensive industries in emerging markets. Recommendations are made for mining organisations to adopt adaptive structures that empower frontline decision-making and promote collaborative, agile cultures aligned with modern performance imperatives.

**Keywords:** organisational structure; employee performance; mining industry; decentralisation; structural reform

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## 1. Introduction

The global mining industry is undergoing profound transformation as it contends with shifting commodity markets, tightening environmental regulations, and the imperatives of digitalisation and sustainable development. Nowhere is this evolution more acute than in South Africa, where the mining sector remains an economic cornerstone, contributing approximately 7.5% to GDP and employing over 450,000 people (Minerals Council South Africa, 2023). Yet, despite its macroeconomic importance, the sector continues to wrestle with operational inefficiencies, declining productivity, and labour-related tensions, many of which can be traced back to outdated organisational structures that no longer align with the complex realities of modern mining.

Organisational structure, long regarded as the skeletal framework of corporate entities, plays a fundamental role in determining how information flows, how authority is exercised, and how employees experience their work environments (Burton, Obel & Håkonsson, 2020). In high-risk, capital-intensive industries such as mining, structure is not merely an administrative arrangement, it is a strategic lever with direct consequences for safety, performance, and agility. Contemporary organisational theory emphasises that rigid, hierarchical models may offer control but often do so at the expense of responsiveness, innovation, and employee empowerment (Barney, 2021).

Across much of the South African mining sector, legacy structures characterised by centralised decision-making, siloed departments, and strict top-down control remain pervasive (ICMM, 2021). While these systems may have historically provided stability in deeply regulated, compliance-driven environments, they have become increasingly incongruent with modern demands for decentralised agility, cross-functional integration, and real-time responsiveness. When local mine managers and operational staff are constrained by structural barriers that delay critical decisions, such as equipment maintenance, safety interventions, or resource reallocation, performance suffers, and risk exposure increases (Lopes & Scott, 2022).

Moreover, hierarchical organisational designs often undermine employee morale and engagement, particularly when they limit opportunities for participation and autonomy. Research in organisational psychology suggests that when employees feel disempowered by opaque decision-making processes or disconnected from strategic goals, their motivation, commitment, and performance decline sharply (Chen, Ployhart, Thomas, Anderson & Bliese, 2021). In the mining sector, where

operational success hinges on coordinated execution and trust in leadership, the cost of such disengagement can be considerable, not only in lost productivity but also in compromised safety compliance and team cohesion.

Siloed departmental structures present a further challenge. Mining operations typically involve complex interdependencies between engineering, safety, environmental compliance, logistics, and human resources. When these departments operate in isolation—communicating minimally or pursuing misaligned goals—the result is duplicated effort, miscommunication, and a failure to deliver holistic operational solutions (Ghasemzadeh, Rezaei & Abdollahzadehgan, 2022). Such fragmentation is particularly problematic in an era where ESG expectations, digital monitoring systems, and real-time data analytics demand tighter integration across functions and levels of hierarchy.

Simultaneously, the Fourth Industrial Revolution (4IR) is reshaping the mining sector globally through the introduction of automation, predictive maintenance, AI-driven decision support, and remote operations (World Bank, 2020). These advancements necessitate not only technological investment but also adaptive organisational structures that allow for experimentation, decentralised knowledge-sharing, and agile leadership (OECD, 2022). As South African mines increasingly adopt smart mining solutions to remain globally competitive, legacy structures that inhibit rapid learning and cross-functional collaboration threaten to become strategic liabilities.

Adding to this complexity is the evolving regulatory environment. In South Africa, the Mining Charter III and the Department of Mineral Resources and Energy (2023) continue to push for transformation in ownership, skills development, and community engagement. Meeting these socio-political obligations while maintaining operational efficiency requires a structural paradigm shift—one that balances accountability with local decision-making autonomy and inclusive leadership practices.

The strategic misalignment between external demands and internal architecture raises critical questions: How do current organisational structures in South African mining companies influence employee performance? What structural challenges hinder effective decision-making, collaboration, and communication? And what alternative models can enhance agility, accountability, and workforce engagement in such high-risk environments?

To address these questions, this study explores the lived experiences and perceptions of employees and managers in the South African mining sector. Using a qualitative, interpretivist lens, the research investigates how organisational structure shapes performance outcomes, particularly in relation to decision-making speed, cross-functional collaboration, and employee motivation. By illuminating these relationships, the study aims to offer practical recommendations for structural redesign that aligns with the strategic, technological, and human resource imperatives of the 21st-century mining enterprise.

The findings are not only relevant for South African stakeholders. Emerging and transitional economies with resource-dependent sectors—many of which face similar constraints in structural reform, labour dynamics, and regulatory pressure—may find value in understanding how structural choices influence organisational performance. Moreover, in a global business environment increasingly defined by volatility, uncertainty, complexity, and ambiguity (VUCA), the need for adaptive organisational structures is universally resonant (Heavin & Power, 2021).

## 2. Literature Review

Organisational structure is widely recognised as a foundational element of performance, shaping how decisions are made, responsibilities are distributed, and communication flows across functional areas. Classic organisational theory (Mintzberg, 2017) categorises structures into archetypes such as machine bureaucracy, professional bureaucracy, and adhocracy, each with differing implications for control, flexibility, and innovation. In high-risk, asset-intensive industries such as mining, structural design must navigate the competing imperatives of safety compliance, operational efficiency, and adaptability. Recent literature increasingly emphasises the strategic significance of organisational structure in enabling firms to respond to complexity, uncertainty, and external shocks (Burton, Obel & Håkonsson, 2020; Barney, 2021).

In traditional mining environments, hierarchical and centralised structures remain dominant. These models prioritise formal authority, top-down control, and clear reporting lines, features that historically aligned with regulatory demands and logistical scale (ICMM, 2021). However, in the context of 21st-century mining, such rigid structures are being critically reassessed. Research by Lopes and Scott (2022) suggests that highly centralised models are ill-equipped to manage operational volatility, especially in geographically dispersed or technologically integrated sites.

Decisions requiring real-time responsiveness—such as equipment breakdowns, safety interventions, or workforce redeployments—are often delayed by bureaucratic bottlenecks, leading to inefficiencies and employee frustration.

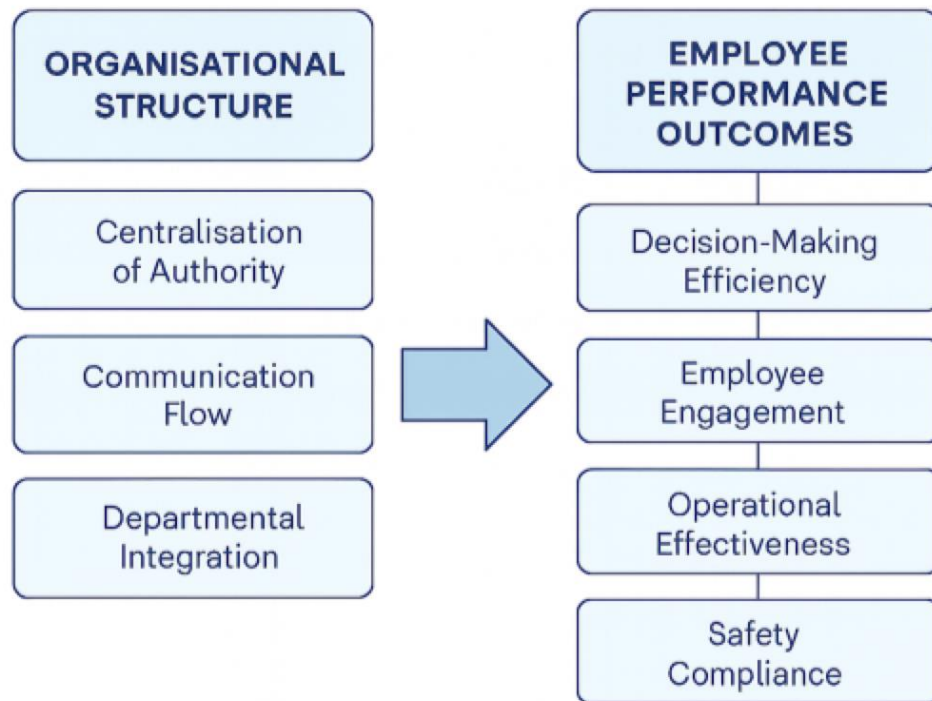
These structural constraints are compounded by the phenomenon of departmental silos. Siloed organisational cultures hinder the free flow of information and inhibit cross-functional collaboration, particularly between operations, maintenance, safety, and HR departments (Ghasemzadeh, Rezaei & Abdollahzadehgan, 2022). In the mining sector, where systems thinking and integrated planning are essential to mitigate risk, this fragmentation poses a serious performance hazard. Organisations that maintain rigid divisions between departments often suffer from duplicated efforts, inconsistent decision-making, and reduced capacity for innovation. Modern organisational scholarship increasingly advocates for flatter structures and boundary-spanning roles that facilitate alignment across key operational units (Heavin & Power, 2021).

The implications of organisational structure also extend to human performance. From a behavioural perspective, structural design influences how employees perceive fairness, autonomy, and opportunity within their roles. Research by Chen, Ployhart, Thomas, Anderson and Bliese (2021) highlights the psychological impact of centralised structures, noting that when employees are excluded from decision-making or lack access to communication pathways, their engagement and job satisfaction decline. This dynamic is particularly relevant in the mining sector, where workforce morale, safety compliance, and procedural diligence are closely interlinked. Demotivated workers in such environments may not only underperform but also increase operational risk through non-compliance or disengagement.

Organisational scholars such as Barney (2021) argue that structure is not merely a static design choice, it is a dynamic resource that can either enable or inhibit competitive advantage. In industries subject to high uncertainty and external pressure, such as mining, adaptive structures are associated with better strategic alignment, innovation uptake, and workforce retention. The transition to more decentralised and flexible structures, particularly in the context of the Fourth Industrial Revolution (4IR), has been shown to increase organisational resilience and digital readiness (OECD, 2022; World Bank, 2020). These structures empower mid-level managers, foster learning cultures, and facilitate the use of real-time data in decision-making.

Moreover, the external regulatory environment is shaping structural choices in the mining sector. In South Africa, compliance with the Mining Charter III and broader Environmental, Social, and Governance (ESG) mandates necessitates organisational systems that are transparent, inclusive, and community-engaged (Department of Mineral Resources and Energy, 2023). Centralised models often lack the responsiveness needed to meet these evolving demands, especially when corporate-level decisions are disconnected from the social realities of local operations. As such, structural decentralisation, particularly in stakeholder engagement, procurement, and training, is emerging as a mechanism for regulatory compliance and reputational management (ICMM, 2021).

In summary, the literature reveals a growing consensus: rigid, hierarchical structures, while historically dominant in mining, are increasingly misaligned with contemporary performance expectations. Emerging research supports a shift toward decentralised, integrated, and participatory models that balance operational control with responsiveness and employee empowerment. The interplay between structure and employee performance is thus neither incidental nor purely theoretical, it is a pressing organisational challenge with profound implications for safety, productivity, and sustainability in the mining sector. The study builds upon these insights by examining how employees and managers in the South African mining industry perceive the impact of organisational structure on their performance. It contributes to the evolving literature by providing context-specific evidence from one of the world's most mature but structurally constrained mining jurisdictions.



**Figure 1. Conceptual Framework**

*Source: Developed by the authors (2025)*

The conceptual framework was empirically tested using the methodology described below.

### 3. Research Methodology

This study adopted a qualitative research methodology guided by an interpretivist philosophy, aiming to explore the lived experiences of employees and managers within South Africa's mining sector in relation to organisational structure and performance. Given the contextual nature of organisational dynamics and the subjective dimensions of employee perception, a qualitative approach was best suited to uncover deep, nuanced insights that quantitative methods may overlook (Creswell & Poth, 2021).

The research employed a multiple-case study strategy, focusing on three mining operations located in Gauteng and the North West Province. These sites were

purposefully selected to ensure variation in organisational size, structure, and management style—enabling cross-case comparisons while retaining sectoral consistency. A case study design is particularly effective when investigating contemporary phenomena within real-life settings where the boundaries between context and object of study are not clearly defined (Yin, 2018).

Purposive sampling was used to recruit participants who could offer meaningful insights into how organisational structure impacts performance. The sample comprised twelve participants, including site managers, shift supervisors, operations coordinators, and safety officers. These individuals were selected based on their direct experience with organisational processes, employee supervision, and structural decision-making. This diverse range ensured representation across hierarchical levels and departmental functions.

Data were collected through semi-structured interviews, each lasting between 45 and 60 minutes. This format allowed for consistent thematic coverage while enabling flexibility to probe specific insights or experiences shared by participants. Interview questions were designed to elicit perceptions of structure, authority flow, decision-making practices, communication patterns, and performance outcomes. All interviews were conducted in person, audio recorded (with consent), and later transcribed verbatim for analysis.

The data analysis followed Braun and Clarke's (2021) six-phase thematic analysis framework. This involved familiarisation with transcripts, initial coding, searching for themes, reviewing and refining themes, defining theme parameters, and producing the final analytical narrative. NVivo 12 software was used to manage the coding process and facilitate pattern recognition across interviews. Triangulation was achieved by comparing responses from participants in different roles and organisational units.

To ensure trustworthiness, the research applied four key criteria: credibility, transferability, dependability, and confirmability (Lincoln & Guba, 1985). Credibility was reinforced through member-checking, whereby participants were given summaries of their responses for validation. Transferability was supported by thick description of the research context. Dependability was achieved through consistent documentation of the research process, and confirmability was ensured by maintaining an audit trail of decisions made during analysis.

Ethical clearance was obtained from the relevant university ethics committee prior to data collection. Participants were informed of the voluntary nature of their



participation, assured of anonymity, and permitted to withdraw at any point without consequence. Data were securely stored and used solely for academic purposes.

This methodology enabled the research to explore how structural arrangements, such as centralisation, departmental integration, and communication flow, shape employee performance outcomes in the mining sector. The next section presents the findings that emerged from this analytical process.

#### **4. Research Findings**

The analysis of the qualitative data generated through semi-structured interviews with twelve participants revealed four primary patterns associated with how organisational structure affects employee performance within the mining sector. The findings are reported according to the study's research objectives and reflect cross-cutting insights from managers, supervisors, and operational staff across three mining operations.

##### **4.1. Perceptions of Centralised Organisational Structures**

Participants described their organisational environments as characterised by rigid hierarchies and highly centralised authority. Decision-making processes were perceived to be formal, multi-tiered, and concentrated at senior or head office levels, often far removed from the site of operations. This structural concentration of power created considerable delays in executing time-sensitive decisions, particularly in areas such as shift adjustments, equipment procurement, and urgent safety interventions. The perceived disconnect between corporate leadership and operational teams resulted in a lack of localised discretion. Site-level managers expressed concern over their limited ability to act independently, even in situations where immediate decisions were critical to operational continuity. This centralisation was seen to reduce operational agility and often led to situations where local knowledge was undervalued or excluded from strategic decision-making processes. Furthermore, the formality embedded in centralised structures contributed to administrative fatigue, with numerous layers of approval required for routine tasks. This had a cascading effect on performance, as frontline supervisors became more reactive than proactive due to procedural constraints. As a result, several participants reported that employees developed a dependency mindset, wherein they awaited instruction rather than taking initiative.

#### **4.2. Communication and Information Flow within Structural Boundaries**

One of the most significant organisational constraints identified was the nature of communication. Participants consistently indicated that communication in their organisations was predominantly top-down and unidirectional. Strategic updates, performance targets, and operational directives were typically cascaded from senior levels without reciprocal mechanisms for feedback or discussion. This lack of upward and lateral communication channels weakened the ability of departments to collaborate effectively. The absence of regular cross-functional meetings or shared communication platforms meant that essential updates often failed to reach all relevant stakeholders in a timely manner. In practice, this led to operational misalignment and procedural inefficiencies, particularly during multidisciplinary initiatives such as scheduled maintenance or safety drills. Communication breakdowns also affected employee morale. The inability to contribute suggestions or raise operational concerns created a sense of exclusion among lower-tier staff. In some cases, participants noted that employees became disengaged from organisational objectives due to a belief that their voices held little influence. This form of structural silencing was perceived as a key barrier to innovation, safety compliance, and team cohesion.

#### **4.3. Departmental Fragmentation and Structural Misalignment**

Participants reported that their organisations operated with rigid departmental silos that impeded cross-functional coordination. Departments such as engineering, operations, maintenance, and health and safety functioned in relative isolation from one another, often pursuing their own objectives without integration or shared planning. This fragmentation contributed to misaligned performance indicators, duplicated efforts, and conflicting priorities between teams. In the context of mining, where interdependencies between departments are critical to seamless production, this lack of integration emerged as a performance bottleneck. For example, delays in equipment servicing due to poor coordination between operations and maintenance departments directly impacted production schedules and team outputs. The structural lack of joint accountability and shared planning tools made it difficult for teams to respond dynamically to changing conditions on the ground. Moreover, departmental silos created a sense of competition rather than collaboration, undermining trust across organisational units. This was particularly evident in environments where departmental success metrics were not aligned with broader operational goals.

Without a unified performance architecture, employees tended to prioritise local departmental achievements over collective outcomes.

#### **4.4. Experiences of Structural Reform and Empowerment**

While centralisation and fragmentation were dominant themes, a minority of participants reported exposure to emerging structural reforms designed to increase agility and employee empowerment. These changes included the introduction of decentralised decision-making protocols, cross-functional teams, and employee consultation forums. Such initiatives, although not widespread, were associated with noticeable improvements in responsiveness, accountability, and workforce morale. Participants who operated in restructured environments highlighted the benefits of being included in strategic discussions and planning sessions. The decentralisation of authority to shift supervisors and functional managers allowed for faster decision-making, better resource allocation, and enhanced team cohesion. Notably, employees in these settings demonstrated greater ownership over their roles and a stronger commitment to meeting performance targets. Structural reforms also encouraged a more inclusive communication culture. Regular feedback loops and horizontal collaboration mechanisms—such as integrated reporting systems and shared dashboards—enabled better transparency across departments. This fostered a culture of mutual accountability and reinforced a sense of strategic alignment at all levels of the organisation. Despite these positive developments, most participants indicated that such reforms were still in pilot stages or inconsistently applied across sites. There remained a strong demand among employees for broader implementation of flexible structures that support autonomy, collaborative planning, and meaningful involvement in decision-making.

### **5. Discussion of Key Findings**

This section presents a critical interpretation of the research findings by linking them to existing literature and theoretical perspectives. The study examined how organisational structure influences employee performance in the South African mining sector, uncovering patterns of centralisation, fragmented communication, siloed departments, and emerging structural reforms. The findings are evaluated here within the framework of organisational theory and global best practices in industrial operations, with particular reference to the demands of modern mining environments.

### **5.1. Centralised Decision-Making and the Trade-Off Between Control and Agility**

The study found that centralised decision-making, while intended to ensure consistency and oversight, often delayed responses to critical issues and created barriers to local autonomy. This is consistent with Mintzberg's (2017) "machine bureaucracy" model, which characterises organisations with high levels of formalisation and central control. Such structures can be efficient in stable environments but tend to perform poorly in contexts requiring adaptability and rapid response.

In the mining sector, where operations are geographically dispersed and safety incidents require immediate intervention, excessive centralisation can be counterproductive. Similar conclusions were reached in recent studies by Lopes and Scott (2022), who found that rigid hierarchies in mining companies reduced site-level responsiveness and undermined trust in leadership. The present study extends this literature by highlighting how centralisation not only delays operational decisions but also weakens morale, fosters a dependency culture, and reduces frontline initiative.

Furthermore, from the perspective of the Resource-Based View (Barney, 2021), the rigidity of centralised systems limits the organisation's ability to leverage its human capital as a strategic resource. Employees closest to operational challenges are often best positioned to make timely decisions. Restricting their autonomy effectively underutilises a valuable internal resource, thereby weakening the firm's adaptive capacity.

### **5.2. Communication Structures and the Absence of Feedback Loops**

The dominance of top-down communication structures across the mining organisations studied resulted in significant information asymmetry. Strategic objectives and operational directives were disseminated downward, but there were few channels for feedback, dissent, or innovation to flow upward. This breakdown of bi-directional communication is well documented in the behavioural literature. According to Chen et al. (2021), effective communication systems enhance psychological safety and foster employee engagement by making individuals feel heard and valued.

The lack of lateral communication further inhibited cross-departmental collaboration. In complex systems like mining, where interdependencies between functions are constant, weak horizontal communication contributes to duplication of work, poor synchronisation of effort, and avoidable delays (Heavin & Power, 2021). The structural absence of shared planning platforms and integrated communication tools meant that departments frequently worked in isolation, increasing the risk of strategic misalignment.

This finding aligns with Ghasemzadeh et al. (2022), who argued that performance in resource-based industries improves significantly when communication is decentralised, real-time, and facilitated by collaborative technologies. The absence of such systems in the studied organisations suggests an urgent need for communication reform as a structural priority.

### **5.3. Departmental Silos and Fragmented Accountability**

A notable pattern in the findings was the persistence of departmental silos. Functional areas such as operations, maintenance, and safety operated with minimal coordination, each pursuing their own mandates without integrated planning. This fragmentation reduced the effectiveness of collective problem-solving, particularly during cross-functional initiatives such as plant shutdowns or safety interventions.

The literature identifies such siloed behaviour as a critical barrier to organisational learning and agility. Systems Theory (Burton et al., 2020) emphasises that organisations function optimally when interdependent subsystems are aligned and integrated. The failure to harmonise these units undermines the efficiency of the whole and introduces systemic vulnerabilities—especially in high-risk environments like mining.

Moreover, the absence of shared performance metrics across departments reinforces siloed thinking. Departments judged by divergent KPIs often prioritise narrow objectives over broader organisational goals, leading to internal competition and loss of synergy. The study affirms that structural integration, through joint planning, cross-functional KPIs, and team-based incentives, is essential for performance improvement.

These insights echo recent findings by ICMM (2021), which advocate for organisational architectures that dissolve boundaries and promote systems-level

thinking in mining operations. Without such integration, even technically proficient departments will struggle to deliver coherent, sustainable outcomes.

#### **5.4. Emerging Structural Reforms and the Case for Decentralised Empowerment**

While the majority of participants operated in rigid structural environments, a minority reported exposure to structural reforms that increased empowerment and collaboration. These included decentralised decision-making rights, participatory planning forums, and cross-functional coordination meetings. Employees in these settings exhibited higher morale, stronger commitment to targets, and improved accountability.

This shift toward decentralisation aligns with international best practices in agile operations. According to OECD (2022), mining firms that empower site-level managers and invest in collaborative governance mechanisms outperform their more rigid counterparts in terms of both safety and productivity. Decentralisation allows for more context-sensitive decision-making and increases ownership among operational teams.

Moreover, from a strategic leadership perspective, decentralised structures foster the development of future leaders by allowing mid-level managers to exercise judgment, take initiative, and learn from controlled risk-taking. This contrasts with bureaucratic models that limit leadership development to executive corridors.

The study's findings suggest that decentralisation—when accompanied by structural support mechanisms such as shared information systems and joint accountability frameworks—can enhance performance without sacrificing control. However, the transition must be intentional and well-governed to avoid chaos or loss of compliance integrity.

#### **5.5. Structural Design as a Lever for Strategic Alignment**

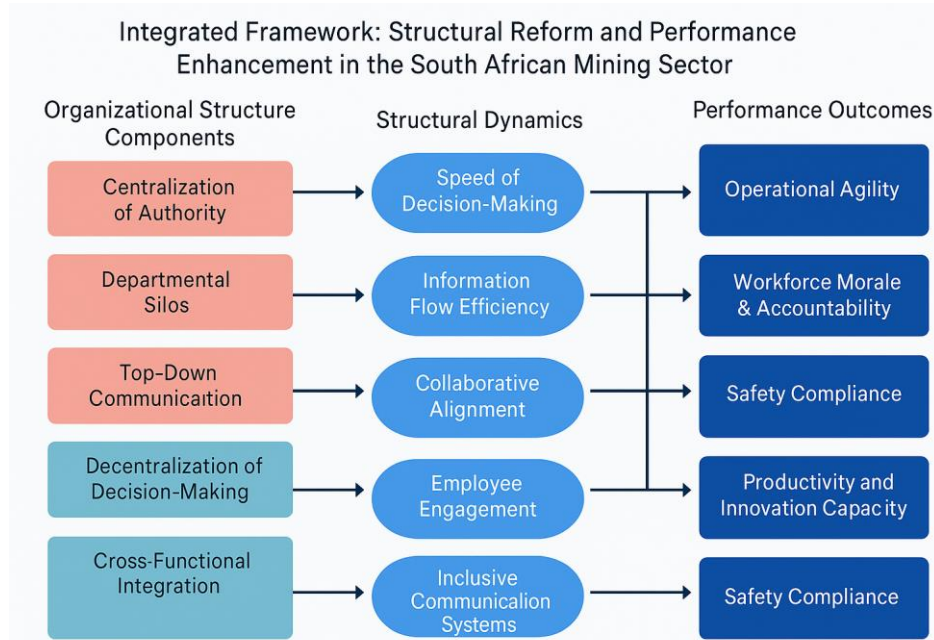
At a broader level, the study reinforces the idea that structure is not neutral—it actively shapes strategic outcomes. Poorly aligned structures disconnect policy from practice, dilute accountability, and weaken implementation. Conversely, aligned structures facilitate strategic coherence, agility, and employee motivation.

Barney (2021) emphasises that internal structure can become a source of competitive advantage when it supports the firm's strategy and enhances the deployment of internal capabilities. In this case, structural misalignment in the South African mining sector undermines its ability to meet regulatory, operational, and socio-economic expectations. This includes meeting ESG targets, improving community engagement, and driving innovation through workforce participation.

The Mining Charter III and related policy frameworks in South Africa call for inclusive, transformative, and efficient mining operations. Structural reform is central to achieving these objectives. Yet, as this study shows, many mining firms have yet to internalise the structural changes necessary to actualise these national priorities.

The findings of this study confirm the critical influence of organisational structure on employee performance within the mining sector. The persistence of centralisation, poor communication flow, and departmental silos contributes to operational inefficiencies, low engagement, and reduced adaptability. However, promising examples of decentralised empowerment and cross-functional integration demonstrate that structural reform is both possible and impactful.

To remain competitive and sustainable, South African mining organisations must rethink their structural models, not merely as legacy systems of control, but as strategic tools that enable responsiveness, collaboration, and human capital optimisation. Structural transformation, aligned with industry 4.0 imperatives and national policy frameworks, can unlock a new performance trajectory for the sector.



**Figure 2. Integrated Framework: Structural Reform and Performance Enhancement in the South African Mining Sector**

*Source: Developed by the authors from empirical findings (2025)*

Figure 2 presents the Integrated Structural Performance Framework, developed from the study's empirical findings. It illustrates how structural elements, such as decentralised decision-making, inclusive communication, and departmental integration, positively influence key performance drivers including responsiveness, collaboration, and employee engagement. These, in turn, enhance operational agility, safety compliance, morale, and innovation within mining organisations. The framework contrasts traditional structural barriers (e.g., centralisation, silos) with transformative enablers, offering a practical visual model for structural reform in the sector. It serves as a diagnostic and strategic tool for mining executives seeking to align structure with performance imperatives in complex, high-risk environments. The next section outlines practical recommendations for implementing such reform, as well as suggestions for future research.



## 6. Conclusions and Recommendations

This study investigated the influence of organisational structure on employee performance in the South African mining sector. Through a qualitative, multiple case study approach, the research identified key structural challenges, namely excessive centralisation, fragmented departmental design, and constrained communication pathways, that directly hinder operational effectiveness, employee motivation, and responsiveness. Conversely, evidence from mining sites implementing structural reforms revealed the positive impact of decentralisation, cross-functional integration, and inclusive communication systems on organisational agility and workforce engagement.

The research findings reinforce the conceptual and empirical argument that structure is not merely a procedural mechanism but a strategic determinant of performance. In resource-intensive and high-risk industries like mining, where efficiency, safety, and workforce morale are closely interlinked, the misalignment between structure and operational reality can have significant adverse consequences. This study confirms that structural rigidity leads to decision-making delays, siloed performance metrics, and diminished employee autonomy, ultimately eroding competitiveness and increasing risk exposure.

From a theoretical standpoint, the study draws on Mintzberg's structural typologies, Systems Theory, and the Resource-Based View (RBV) to frame its analysis. These models collectively underscore the importance of aligning internal architecture with external complexity and internal capabilities. Organisational structures that are adaptable, integrative, and participatory were shown to enhance not only individual performance but also organisational resilience and learning.

The findings also contribute to the growing international discourse on structural transformation in legacy industries. As digitalisation, ESG compliance, and global competitiveness reshape the expectations placed on mining companies, rigid bureaucracies must give way to dynamic, responsive, and empowered structures. For South Africa, where mining remains a cornerstone of economic development and employment, the implications are both urgent and far-reaching.

To that end, the following recommendations are offered to support strategic structural reform in the mining sector:

**6.1. Redesign Structures to Support Decentralised Decision-Making**

Mining organisations should move away from excessively centralised decision hierarchies and empower frontline and mid-level managers with defined decision rights. Decentralisation must be supported by clear accountability frameworks and real-time data access to ensure responsible autonomy. Site-level teams should be allowed to resolve operational issues swiftly without awaiting multiple layers of head office approval, especially in safety-sensitive contexts.

**6.2. Establish Integrated Cross-Functional Coordination Mechanisms**

To eliminate siloed operations, companies must formalise cross-functional coordination through shared dashboards, joint planning forums, and collaborative performance metrics. Regular engagement between operations, maintenance, safety, and HR departments can foster unified planning and reduce duplication. Integrated planning sessions and shared KPIs should be institutionalised, rather than dependent on individual relationships or informal workarounds.

**6.3. Develop Inclusive Communication Channels**

Organisations should embed feedback loops into routine communication practices to ensure upward and horizontal information flow. Digital platforms, suggestion schemes, and structured team meetings can allow operational employees to contribute insights and flag challenges proactively. Leadership must visibly act on feedback to build trust and encourage continuous improvement.

**6.4. Build Structural Agility for Emerging Industry Demands**

With the increasing role of automation, remote operations, and sustainability mandates, mining firms must embrace structural flexibility. Agile structures that support rapid reconfiguration of teams, dynamic resource allocation, and iterative problem-solving will be more resilient to disruption. Structures should be adaptable to new technologies and capable of integrating innovation into daily operations.

### **6.5. Align Organisational Structure with Employee Development and Leadership Pipelines**

Structural reform should also consider the development of internal talent. Flattened hierarchies and empowered decision-making create opportunities for leadership development at lower levels of the organisation. Mining firms should link structural reforms with leadership development initiatives, mentorship programmes, and internal mobility pathways to strengthen future capabilities.

### **6.6. Policy Alignment and Sector-Wide Standardisation**

Regulatory bodies, such as the Department of Mineral Resources and Energy (DMRE), should develop structural reform guidelines that align with Mining Charter III and broader transformation goals. Sector-wide frameworks that encourage inclusive leadership, decentralised governance, and integrated compliance systems can guide mining companies toward more accountable and efficient operations.

The study’s findings offer an empirically grounded, theoretically informed, and practically relevant contribution to understanding how organisational structure affects performance in one of South Africa’s most critical sectors. The proposed Integrated Structural Performance Framework provides a visual roadmap for mining executives and policymakers aiming to modernise legacy structures in line with contemporary demands.

Future research may benefit from extending this study to include longitudinal analysis across different minerals, company sizes, and global jurisdictions to validate and refine the framework further. Quantitative studies measuring the impact of structural changes on key performance indicators—such as safety incidents, production efficiency, and staff retention—would also complement the qualitative insights presented here.

In conclusion, structural reform in the mining sector must be viewed not as an administrative exercise but as a strategic investment in performance, resilience, and transformation. For South African mining companies navigating economic, regulatory, and technological shifts, aligning structure with strategy and workforce realities is no longer optional, it is imperative.

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