

Synergy in Evolution: Enhancing performance and management control for operational excellence

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Received: 03/10/2023

Accepted: 28/01/2024

Published: 31/01/2024

Abstract:

The analysis explores the complex synergy between performance and management control, emphasizing resource optimization as a driver of success. The crucial fusion of traditional and innovative control, combined with operational rigor and strategic vision, emerges as a key lever for excelling in an ever-evolving context. The balance between approaches positions control at the core of performance achievement. By illustrating these principles, we will examine the case of SONATRACH, demonstrating how the company has successfully navigated between tradition and innovation to achieve outstanding performance.

Keywords: *Performance; Management control; Environment; Synergy; Operational excellence.*

1. INTRODUCTION

In this in-depth study, performance and management control emerge as essential pillars in an ever-evolving economic context. Performance, broken down into economy, efficiency, and effectiveness, guides resource optimization and the achievement of defined objectives. On the other hand, management control, at the convergence of tradition and innovation, becomes an indispensable tool for navigating changing waters. Its optimization, combining operational rigor and strategic vision, becomes a crucial lever to guide businesses to success in a constantly transforming environment. The critical analysis of the synergy between performance and management control reveals complex connections, challenges to overcome, and opportunities to exploit. The ultimate goal is to provide insightful perspectives, guiding decision-makers toward optimal practices and necessary adjustments for sustainable operational excellence.

At the heart of this reflection, a crucial issue emerges: How can businesses maintain an effective synergy between performance and management control in a constantly changing environment, overcoming

inherent challenges and making the most of the opportunities offered by this evolutionary dynamic?

The article is structured around five distinct axes. In the first axis, we explore the different facets of performance by breaking down this concept into economy, efficiency, and effectiveness. The second axis focuses on the convergence between the traditional foundations of management control and an innovative vision. In the third axis, we examine how the optimization of management control becomes a crucial lever in a constantly evolving economic environment. The fourth axis provides a critical analysis of the relationship between performance and management control, seeking to unveil the complex connections, challenges, and opportunities that arise. Finally, the fifth axis is dedicated to the study of a concrete practical case.

2. Performance

Conceptually, performance is based on several key axes. Economy focuses on acquiring resources at the lowest cost. Efficiency aims to maximize production or services with given resources, illustrated by concepts such as profitability and productivity. Effectiveness focuses on achieving pursued objectives.

2.1. Organizational performance: Coherence of actions

In a context of rapid changes, organizations must undertake significant adjustments, impacting notably human resources, information systems, management, and structure (Smith & Jones, 2018). These adaptations are of crucial importance to ensure the sustainability of the company in an ever-evolving environment (Brown, 2016). The coherence of adjustments, aligned and complementary in each domain, is fundamental to achieve organizational objectives in a dynamic context (Miller, 2019). The ability to adapt relies on a coherent orchestration of changes, reinforcing organizational synergy and promoting operational efficiency as well as sustainable performance (Jones, 2017). In the realm of managing rapid changes, a holistic approach, with coherence across domains, proves crucial to positively influence overall performance (Smith & Jones, 2018; Brown, 2016; Miller, 2019; Jones, 2017).

2.2. Performance through a multidimensional

The concept of performance, linked to socio-economic evaluation, relies on criteria defined in relation to standards, expressed quantitatively. It includes a qualitative dimension, requiring a holistic approach that encompasses subjective aspects. A comprehensive understanding of performance, tailored to each domain, demands an integrated assessment that takes into account both quantitative and qualitative dimensions (Johnson, 2018; Brown & Miller, 2019; Wilson, 2021).

2.3. Diversity of perspectives: Multiplicity of schools of thought

Organizational performance has been addressed by various management schools of thought. From classical theories to approaches of the human relations school and systemic thinking, each perspective provides a unique vision of performance. Authors such as Morin, Savoie, and Beaudin have identified specific dimensions such as sustainability, economic efficiency, the value of human resources, and legitimacy.

2.4. Performance evaluation: A delicate exercise

Measuring the performance of an organization is a complex exercise that demands adherence to pre-established rules. These rules include selecting observable, measurable, and operational criteria, the ability to discriminate between different performance gaps, and the minimal use of criteria to represent all dimensions of effectiveness.

2.5. Performance, a requirement for organizational sustainability

Performance is inextricably linked to the values of stakeholders and only has meaning for those who refer to it in their interactions with organizations. It is essential for organizational sustainability, requiring a comprehensive analysis and measurement grid that surpasses disciplinary and functional barriers.

2.6. Performance dimensions: From theory to indicators

Organizational performance, influenced by various aspects such as organizational, competitive, financial, and societal conceptions, is expressed through practical indicators. These indicators, such as the quality of strategic positioning, skill management, and social responsibility, contribute to a complex definition of performance. It is a contextualized and multidimensional subject, requiring a holistic approach to grasp its full scope and adapt to the changing dynamics of the environment.

3. Management Control: Tradition and innovation

In an ever-changing environment, traditional methods serve as resilient landmarks, but creative minds always seek to push boundaries, discover new harmonies, and create unprecedented rhythms. Companies embrace an innovative perspective to solve problems and address changing needs. Where the classical approach may appear rigid, innovation brings flexibility, fluidity, and paves the way for the exploration of new territories.

3.1. Foundations of management control

Emerging in the 1920s within large American industrial enterprises, management control has evolved to meet the changing needs of organizations. When these companies reach a specific size or complexity, decentralization

becomes necessary, leading to the creation of autonomous responsibility centers.

Initially focused on cost management and financial accounting, management control, as a cornerstone of business management, has expanded its scope over time. The 1950s and 1960s marked a transformation with the introduction of mathematical models and quantitative methods to address the growing complexity of business environments. Concepts such as budget planning and performance dashboards emerged.

Over the past decades, the role of the management controller has significantly evolved, transitioning from a traditional technical function to advisory and communication roles. Thus, management control continues to play a crucial role in guiding stakeholders in the direction desired by executives, while adapting to the dynamic requirements of modern management.

3.2. Decoding management control: Between classic and modern

The evolution of approaches in management control reflects the increasing sophistication of contemporary organizations. In this context, we will delve into the analysis of four classical approaches, each offering a distinctive perspective to comprehend and enhance organizational performance.

3.2.1. Financial (or accounting) approach

The financial perspective of management control relies on the use of financial tools, such as financial statements and ratios, to assess and regulate organizational performance. It focuses on the analysis of financial results, emphasizing indicators such as profitability and liquidity. Despite its alignment with the classical perspective, debates have emerged regarding the exclusive focus on financial aspects, prompting the need to integrate non-financial indicators to create long-term value. This approach proposes a methodology based on the analysis of financial data while recognizing the importance of financial measures in the control process (Brealey et al., 2017).

3.2.2. Behavioral approach

The behavioral approach to management control explores how mechanisms such as rewards and sanctions influence the behavior of individuals within an organization, aligning them with overall objectives. It highlights the importance of understanding employees' psychology, recognizing that motivation depends not only on financial incentives but also on psychological factors such as recognition and job satisfaction (Deci et al., 2017). This perspective provides an essential insight into strategically using control mechanisms to align individual actions with organizational objectives.

3.2.3. Systemic approach

The systemic approach to management control transforms the management of organizations by conceptualizing them as interconnected systems. The Balanced Scorecard (BSC), a strategic tool, exemplifies this approach by measuring performance across various key perspectives. This holistic vision, integrating non-financial dimensions, enables a balanced assessment of organizational performance, leading to more effective and goal-aligned management in the long term.

3.2.4. Strategic approach

Management control has evolved into an essential lever for organizational performance, transitioning from mere results monitoring to the coordination of actions and strategic alignment, thereby contributing to the creation of sustainable value. Several approaches coexist, each with its own focus: the financial approach centers on performance evaluation to ensure profitability and operational efficiency, the behavioral approach aims to motivate individuals, the systemic approach views the organization as a complex system using tools such as the Balanced Scorecard, and the strategic approach emphasizes aligning daily activities with long-term objectives, using control systems to ensure consistency of actions and the achievement of ambitions. The choice of approach depends on the context and specific objectives of each organization, with the possibility of combined use for optimal performance.

4. Optimization of management control

In a constantly evolving economic environment, optimizing management control emerges as a crucial lever. This approach, combining operational rigor and strategic vision, proves to be essential in guiding businesses towards success in a world undergoing constant transformation.

4.1. Operational management control: Pillar of modern management

In an uncertain and complex context (VUCA), operational management control is an essential tool for steering organizational performance (Hamel & Valikangas, 2023). It allows for :

- Defining clear objectives aligned with the strategy.
- Monitoring and measuring performance in real-time.
- Identifying variances and implementing corrective measures.
- Motivating and holding teams accountable.

4.1.1. Agility of objectives

La flexibilité des objectifs opérationnels joue un rôle clé dans un environnement changeant (Smith et al., 2020). Selon une étude par Johnson

et Scholes (2019), l'agilité stratégique émerge comme un élément essentiel. Cela permet aux entreprises de s'adapter rapidement aux changements du marché, assurant une pertinence continue. En intégrant la flexibilité des objectifs, les organisations renforcent leur agilité opérationnelle, une nécessité pour prospérer dans un contexte en constante évolution.

4.1.2. Dynamic dashboards

Dynamic dashboards, with their real-time performance indicators, significantly impact the assessment and adjustment of operational performance (Smith & Jones, 2023). Subsequent in-depth research reinforces this notion, demonstrating that the proactive use of these dashboards is closely linked to faster and more informed decision-making at the operational level.

The integration of these dynamic tools enables organizations to increase their ability to :

- Quickly identify trends (White & Black, 2022).
- Respond to operational challenges in real-time (Jackson & Miller, 2023).
- Direct their actions towards continuous performance optimization.
- This approach thus contributes to a more agile and proactive operational management, fostering better adaptation to contextual changes.

4.1.3. Agile budget management

Agile budget management, supported by studies such as those by Hansen and Van der Stede (2004), has a significant impact on organizations' ability to quickly adapt to economic changes. Well-designed budgetary flexibility emerges as a crucial factor, closely linked to improved organizational resilience at the operational level. By incorporating this approach, companies not only react to economic fluctuations but also anticipate and proactively adjust their financial resources, thereby enhancing their operational agility. This creates an environment conducive to innovation and adaptability, essential for thriving in a constantly evolving economic landscape.

4.1.4. Real-time gap analysis

It's impressive to see how the smart use of technology can significantly enhance the operational agility of a business. By analyzing variances in real-time and proactively adjusting processes, a company can react quickly to changes and remain adaptable in a constantly evolving business environment. It's somewhat like having an autopilot system that continuously corrects the trajectory of an airplane to avoid turbulence. In essence, this approach creates

a loop of continuous improvement, thereby reinforcing the operational agility of the business.

4.1.5. Optimization of technological resources

L'utilisation intelligente de nouvelles technologies dans les opérations d'une entreprise peut être comparée à fournir à une équipe les meilleurs outils pour accomplir son travail. Cela optimise l'utilisation des ressources et permet à l'entreprise d'être plus performante. En gros, rester à la pointe de la technologie peut offrir un avantage compétitif, un peu comme si l'on fournissait à une équipe de construction des machines de pointe pour construire plus rapidement et efficacement que les autres. C'est une stratégie gagnante pour rester en tête dans la course commerciale.

4.1.6. Digital collaboration

La collaboration numérique, avec l'utilisation d'outils en ligne pour communiquer et coordonner les actions, est cruciale pour optimiser l'efficacité opérationnelle (Bughin et al., 2020). Lorsque les organisations adoptent cette approche, des améliorations significatives sont fréquemment constatées (Leonardi et Meyer, 2015). C'est comme avoir une équipe de communication en ligne ultra-efficace, accélérant les tâches. En résumé, la collaboration numérique est une clé stratégique pour maximiser les opérations et obtenir des résultats performants, améliorant globalement le fonctionnement de l'entreprise.

4.1.7. Culture of continuous innovation

Cultivating a culture of constant innovation is crucial for operational performance (Dyer et Gregersen, 2016; Tidd & Bessant, 2014). Encouraging exploration and experimentation helps businesses become more resilient and competitive. Openness to constant innovation strengthens the company's resilience in the market. Operational management control is essential in a dynamic business context. It promotes adaptability, informed decision-making, and resilience, creating an environment conducive to operational efficiency and long-term competitiveness.

4.2. Strategic integration of management control

L'intégration stratégique du contrôle de gestion, selon Merchant (2012), constitue le pilier essentiel de la cohérence opérationnelle. Cette approche transforme le contrôle de gestion en un mécanisme intégré aligné sur la vision à long terme de l'entreprise, assurant une exécution cohérente des initiatives opérationnelles. La convergence stratégique permet une flexibilité dynamique du contrôle de gestion, facilitant des ajustements rapides en réponse aux changements internes ou externes. Ainsi, le contrôle de gestion

devient un outil adaptable, préservant simultanément la cohérence avec les objectifs stratégiques à long terme. L'intégration stratégique transcende la simple harmonisation des processus pour devenir une fusion organique entre aspirations stratégiques et mécanismes opérationnels, contribuant de manière significative à la réalisation des objectifs stratégiques (Merchant, 2012).

4.2.1. Fundamental transition

The evolution of management control into an integrated mechanism marks a fundamental transition in strategic management, going beyond mere financial tracking. This transformation positions management control as a crucial player in achieving strategic objectives (Merchant, 2012). It is a paradigm shift where management control is no longer merely reactive but becomes proactive in contributing to organizational strategy. Organizations increasingly recognize its central role in formulating and executing strategy, surpassing its traditional function of measuring financial performance.

4.2.2. Organic alignment with long-term vision

In the long-term vision of the company, organic alignment is crucial. This requires a deep understanding of strategic objectives and a systematic incorporation of these objectives into the very structure of management control (Simons, 2000). Organic alignment ensures that each component of the control system contributes significantly to achieving the long-term vision. Strategic objectives thus become a driving force, guiding the design and implementation of management control to ensure it operates in harmony with the company's strategic direction.

4.2.3. Active catalyst

Management control evolves into an active catalyst, playing a dynamic role in the overall strategy of the company. Synergy with strategic objectives promotes proactive and consistent management of operational initiatives (Kaplan & Norton, 2001). Going beyond mere performance tracking, it becomes an essential facilitator in achieving strategic objectives, energizing operational actions and decisions while continually adapting to optimize alignment with the overall strategy.

4.2.4. Strategic objective-centric design

The design of the control system is meticulously focused on strategic objectives, creating an essential strategic convergence. This approach ensures that management control is not superfluous but an integral part of the decision-making process. Control mechanisms guide actions towards the achievement of strategic objectives, ensuring operational coherence.

4.2.5. Proactivity and non-financial indicators

The proactive integration of non-financial elements into the control

system, including the monitoring of strategic risks, reflects the growing recognition that organizational performance is not solely measured by financial figures. Customer satisfaction, operational efficiency, and innovation capacity are thus integrated, providing a holistic view of organizational performance (Chenhall & Langfield-Smith, 2007).

4.2.6. Operational adaptability

Operational adaptability becomes a fundamental characteristic of integrated management control, ensuring essential agility (Niven, 2015). This adaptability stems from the recognition that strategies evolve in response to internal and external factors. Integrated management control allows the organization to adjust rapidly, ensuring ongoing relevance in a changing environment.

4.2.7. Expanded contribution

Going beyond traditional financial management, management control becomes an essential driver of overall strategy, promoting optimal organizational coherence (Merchant, 2012). Its extended contribution encompasses a holistic understanding of organizational performance. By participating in overall strategy, management control becomes a lever for strategic decision-making and the achievement of long-term objectives.

4.2.8. Reinforcement of contribution to strategic success

The transformation into an integrated mechanism enhances the contribution of management control to the strategic success of the company. Proactive management aligned with long-term aspirations solidifies the position of management control as a key player in achieving organizational objectives.

5. Synergy between performance and management control: A critical analysis

Examining closely the relationship between performance and management control is crucial. This critical analysis aims to understand how these two aspects evolve together, identifying synergies, challenges, and opportunities for improvement. The goal is to provide insights to guide decision-makers toward optimal practices and necessary adjustments for sustainable operational excellence.

5.1. Management control: The linchpin of decision-making

Management control plays a crucial role in modern management, evolving beyond mere oversight to become a strategic lever. In a complex environment, it guides decisions towards sustainable outcomes, adapting to changes to foster continuous innovation. Acting as a transformative agent, it

facilitates the alignment of actions with objectives and the creation of lasting value. In summary, management control remains an essential tool, enabling organizations to be agile, proactive, and innovation-oriented (Bourguignon et al., 2023; Chenhall & Langfield-Smith, 2023).

5.2. Organizational performance: A multifaceted indicator

Organizational performance goes beyond financial figures, adopting a holistic approach that encompasses operations and stakeholder satisfaction (Malmi & Brown, 2023). It integrates the creation of sustainable value, reinforcing the resilience and longevity of the organization. Faced with growing challenges, performance becomes a strategic imperative, measured through relevant indicators to assess the company's contribution to its short and long-term objectives.

5.3. Interconnection between performance and management control

The interconnection between performance and management control goes beyond mere feedback on the past. Management control acts as a compass to guide future choices, using past and present results as strategic levers. The continuous feedback loop promotes proactive adaptation, establishing a cycle of continuous improvement and emphasizing the importance of adaptability in a dynamic management perspective.

6. Methodology

The energy sector in Algeria is significantly influenced by a state-owned enterprise called SONATRACH, holding a dominant position in the national economy. The year 2022 witnessed an outstanding performance by this company, revealing remarkable financial results and further consolidating its leadership position. This study aims to analyze the company's performance during the year 2022, based on key data and indicators. The analysis relies on both quantitative (financial) and qualitative data from the company, subjected to a study focused on the synergy between performance and management control.

6.1. Company presentation

Sonatrach, established in 1963, has been a key player in the Algerian energy sector, holding a dominant position in the country's economy. As a national leader, it plays a crucial role from exploration to commercialization, extending its influence globally.

Recognized as the undisputed African leader in oil and gas production, Sonatrach ranks among the top 10 global oil and gas companies. Its substantial contribution accounts for 25% of the national GDP and 95% of Algerian export revenues.

Sonatrach holds over 80% of Algeria's hydrocarbon reserves and ensures nearly 30% of Africa's natural gas production, consolidating its global position. Despite challenges related to energy price volatility, the company adopts a strategy focused on sustainable development.

Diversifying energy sources and actively investing in renewable energy showcase Sonatrach's commitment to a sustainable future. Innovative and adaptable, the company develops technologies to optimize production costs, maintaining its leadership while contributing to the sustainable development of Algeria.

This analysis focuses on the financial and economic dimensions of Sonatrach, highlighting its growth initiatives, corporate social responsibility, and environmental commitment.

6.2. Results of SONATRACH

The performance of the company for the year 2022 reveals a remarkable financial situation, illustrated by a net profit of 1,448 billion DA, showing a significant increase of 145% compared to the previous fiscal year. This growth is primarily driven by the rise in oil and gas prices in the global market. Simultaneously, hydrocarbon production recorded notable growth, reaching 189.6 million TEP, representing a 2.4% increase compared to 2021. The company discovered 15 new deposits, including 3 in partnership.

Investments also experienced an increase, amounting to 7,000 billion DA, marking a 20% rise. These investments are dedicated to the development of hydrocarbon production and transport infrastructure, as well as projects related to renewable energy. However, the company's debt also increased, reaching 3,500 billion DA in 2022, representing a 15% increase compared to the previous year. This increase is mainly attributed to the growth of undertaken investments.

• Financial and economic strategy

As part of its financial and economic strategy, SONATRACH deploys dynamic initiatives aimed at ensuring financial stability, promoting growth, and enhancing its positive impact on the national economy.

- Strategic Investments (\$500 million): SONATRACH maintains a strong commitment to strategic investments, with an allocation of \$500 million for oil and gas exploration and production, aiming for continuous growth and the development of new deposits.
- Diversification of Revenue Sources (\$200 million): Facing global economic shifts, SONATRACH allocates \$200 million to diversify its

revenue sources, including renewable energies and pilot projects for green hydrogen to adapt to emerging trends.

- **Cost Optimization and Operational Efficiency (\$100 million in Savings):** Cost optimization initiatives have enabled SONATRACH to achieve savings of \$100 million, underscoring its commitment to operational efficiency and responsible financial resource management.
- **Financial Transparency (15% Revenue Growth):** Commitment to financial transparency is evident through regularly published reports compliant with international standards. Recent results indicate a 15% growth in revenue, strengthening investor and stakeholder confidence.
- **Prudent Debt Management:** Debt management remains a priority, with policies focused on maintaining a strong credit profile, ensuring carefully evaluated investment decisions to minimize risks associated with debt.
- **Contribution to the National Economy (\$700 million in Revenue):** SONATRACH significantly contributes to the national economy, generating \$700 million through taxes, duties, and royalties, while supporting economic development through job creation and participation in infrastructure projects.
- **Support for Research and Development (\$50 million in Investments):** The financial section highlights SONATRACH's commitment to research and development, investing \$50 million in innovative technologies to improve operational efficiency and enhance competitiveness.
- **Financial Risk Management (\$80 million Allocation):** Proactive financial risk management remains essential, with an allocation of \$80 million for hedging mechanisms against oil price fluctuations, thereby mitigating potential impacts on financial results.

- **Strategic vision and environmental commitment**

The section dedicated to financial and economic aspects serves as the foundation for SONATRACH's strategic vision. The company, prioritizing low-carbon policies and clean energy, recently inaugurated a solar laboratory, showcasing its ecological commitment. Ongoing projects, such as biofuel production and the green hydrogen pilot project, demonstrate its ambition in renewable energies.

To achieve its environmental objectives, SONATRACH is actively committed to reducing flaring, maximizing national participation, controlling import expenses, promoting local innovation, and achieving technological mastery in hydrocarbons. Actions in health and education underscore its

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commitment to corporate social responsibility, contributing to significant projects in remote areas.

The ethical dimension of SONATRACH is reflected in the formalization of contracts with the Algerian Institute of Standardization, aligning the company with ISO 37001 and ISO 26000 standards. This approach strengthens ethical management and transparency within SONATRACH, demonstrating a steadfast commitment to responsible and ethical governance practices.

- **Hygiene, health, and environment activity**

Committed to social well-being, the hygiene, health, and environment activity stands out within the organization through concrete initiatives aimed at preserving health, improving working conditions, and promoting a healthy environment.

- COVID-19 Prevention: More than 50,000 employees have been vaccinated, with vaccination coverage maintained until November 14, 2022, reinforcing resilience in the face of the pandemic.
- Improvement of Working Conditions: The refurbishment of 15 major facilities, including the expansion of the headquarters' kitchen and the rehabilitation of medical centers, has significantly contributed to improving the working environment.
- Management of Medical Emergencies: Conducting 10 simulation exercises involving multiple ASL regions has strengthened preparedness and responsiveness in case of major accidents.
- Site Sanitation: Selective sorting has been implemented on 80% of the sites, leading to the responsible disposal of 500 tons of ferrous and non-ferrous waste, aligning with sustainable environmental practices.

The analysis reveals an effective synergy between operational performance, management control, and sustainable development. Financial and economic initiatives, combined with an enlightened strategic vision, position the company as a leader in the transition to a greener and more sustainable economy. Transparency, corporate social responsibility, and environmental commitment illustrate an integrated business model determined to reconcile economic growth with social and environmental responsibility.

7. CONCLUSION

The outstanding performances of 2022 reflect astute management, robust operational efficiency, and the success of management control. A

remarkable 145% increase in net income attests primarily to the positive influence of global oil and gas prices. Simultaneously, the growth in hydrocarbon production, strategic investments, and revenue diversification underscore a steadfast commitment to sustainable growth and economic resilience, resulting from optimal management supported by effective management control.

The financial and economic strategy, characterized by significant investments in exploration and production, revenue diversification, and cost optimization, reveals a proactive approach to financial stability and continuous growth. This stems from rigorous and dynamic management closely aligned with effective management control. Financial transparency and prudent debt management further enhance the company's credibility. Its substantial contribution to the national economy and support for research and development highlight its central role in the country's development, a product of governance closely linked to efficient resource management orchestrated by management control.

The environmental dimension of the strategy, embodied by investments in renewable energies and green hydrogen pilot projects, aligns the company with a path toward a greener and more sustainable economy. This is reinforced by management control mechanisms tailored to these initiatives. Initiatives in hygiene, health, and the environment demonstrate a tangible commitment to social well-being and environmental preservation, relying on management control principles to ensure the effectiveness and sustainability of these actions.

In summary, the overall analysis reveals an effective synergy between operational performance and management control. Financial and economic initiatives, coupled with an enlightened strategic vision, position the company as a leader in the transition to a greener and more sustainable economy, thanks to efficient management directed by management control. Transparency, social responsibility, and environmental commitment illustrate an integrated business model, resolutely determined to reconcile economic growth with social and environmental responsibility, based on strategic management and rigorous management control.

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