

The VSC Insights

A Strategic Playbook for Leaders in Capital-Intensive Industries

From Operational Management to Strategic Value Creation



From Operational Management to Strategic Value Creation

Leaders in capital-intensive industries face a persistent and costly challenge: the gap between strategic intent and operational reality. Billions are invested in assets based on carefully crafted financial models, yet a significant portion of that projected value evaporates during project ramp-ups, operational disruptions, and failed transformations. The core of this problem lies in a traditional mindset that views key operational functions as unavoidable cost centers rather than strategic levers for value creation.

At ValueStrategy Consulting (VSC), our philosophy is built on a different premise. We contend that the functions often relegated to the operational back office - maintenance, project management offices (PMOs), supply chains, and operational readiness teams - are, in fact, powerful, untapped engines for strategic advantage. When aligned with business objectives and infused with a proactive, data-driven discipline, these areas cease to be liabilities and become potent sources of resilience, efficiency, and market differentiation.

This compendium is designed as a pragmatic playbook for senior leaders. The following ten insights distill our experience on the front lines of heavy industry, offering a clear path to transform key operational domains.

Speaking operator-to-operator, we move beyond reactive problem-solving to provide a framework for proactive value architecture, a blueprint for closing the gap between strategy and execution and unlocking the full potential of your capital investments.

Part I: Architecting the for Success from Start of Operation

1. Beyond the Ribbon-Cutting: Operational Readiness as a Strategic Value Driver

In capital-intensive projects, success is too often declared at the ribbon-cutting ceremony. This celebration is premature if the subsequent transition to full operations is chaotic and value-destructive. The true battle for return on investment is fought not during construction, but in the critical ramp-up phase. It is here that years of planning either pay off or unravel. The strategic importance of this phase cannot be overstated; industry studies by Deloitte reveal that approximately 30% of a project's value is lost during startup and commissioning. This is not a minor setback; it is a strategic hemorrhage that undermines the fundamental premise of the investment.

The traditional, reactive approach treats Operational Readiness (OR) as a late-stage checklist item, governed by the "tyranny of the schedule." The primary goal becomes meeting construction milestones, with business preparation relegated to an afterthought. This flawed paradigm persists due to schedule pressure and a misperceived ROI on early planning. As industry experts note, asset owners often delay OR investment because it doesn't seem worthwhile at the time, a fatally flawed calculation that leads to start-up disruptions, premature equipment failures, and critical skill gaps.

VSC rejects this model, conceiving of OR not as a final phase but as "early value architecture", a strategic discipline integrated from the project's conceptual stages.

Our proactive framework, driven by our "360° OR Vision," is built on the "Triangle of Preparation," a holistic model ensuring the continuous alignment of three foundational pillars:

- ✓ **Organizational Readiness:** This pillar focuses on people, culture, and structure. We ensure that teams are properly staffed, thoroughly trained, and culturally prepared to take ownership of the new asset.
- ✓ **Technical Readiness:** This pillar centers on the assets and systems. We guarantee that equipment is safe and functional, maintenance strategies are defined, and master data is correctly loaded into the CMMS/ERP well before Start-Up.
- ✓ **Operational Readiness:** This pillar addresses processes and procedures. We design, validate, and stress-test the workflows, interfaces, and management systems that will govern the asset in its steady state.

By building a robust foundation across the Triangle of Preparation, aligning the people, the assets, and the processes, we transform OR from a risk mitigation cost into a strategic investment that accelerates the S-curve of revenue generation. This shift in mindset ensures a seamless transition and a faster path to profitability. Once an asset is operational, however, its strategic management becomes the next frontier of value creation.

2. The Cost of Inaction: Why Asset 'Management' Fails and Asset 'Strategy' Triumphs

For any company in mining, energy, or heavy industry, its physical assets represent a fundamental strategic choice: they can be the organization's largest cost center or its most significant strategic advantage. Too often, maintenance is treated as a reactive, cost-focused function, turning assets into an unpredictable drain on profitability. The imperative is to shift from reactive "asset management" to a proactive, business-aligned "Asset Strategy" guided by proven frameworks like ISO 55000.

The traditional approach of reactive maintenance is a false economy. A lack of strategy leads to a vicious cycle of inefficient resource allocation, unplanned downtime, costly emergency repairs, and rising unit production costs. The decision by Teck Resources to cut zinc production to maximize profitability illustrates this dilemma. This was not a failure of management but a consequence of not having a resilient asset strategy that could provide more levers to pull beyond simply sacrificing volume. A proactive strategy creates the operational agility needed to navigate market challenges without ceding ground to competitors.

VSC's Asset Strategy Framework

A robust Asset Strategy transcends the day-to-day maintenance plan; it is a decision-making framework that aligns asset health with business health. At VSC, we help clients build this capability through three core principles:

- ✓ Risk-Based Prioritization: Not all assets are created equal. Through criticality analysis, we help organizations focus time, talent, and budget on the assets with the highest potential impact on safety, the environment, and production. This transforms maintenance spending from an expense into a strategic investment.
- ✓ **Full Lifecycle Vision:** Decisions cannot be made in a vacuum. A robust strategy considers the total value of an asset's lifecycle, from engineering and procurement to operation and decommissioning. This prevents myopic decisions that optimize short-term repair costs at the expense of long-term reliability.
- ✓ **Business Integration:** The asset strategy must be intrinsically linked to the company's financial and operational goals. The CMMS/ERP must function as the central nervous system, providing reliable data to inform critical decisions on capital expenditures, operating expenses, and production planning.

The difference between managing and strategizing is the difference between operational survival and market leadership. A proactive asset strategy pays a "reliability dividend" in the form of higher availability, lower unit costs, and an operational predictability that becomes a tangible competitive advantage. Yet even the best strategies can be undermined by the most overlooked variable: the human element.

3. The Human Link: When Operational Culture Devours Excellence Strategy

Organizations invest millions in systems, processes, and dashboards in their pursuit of operational excellence, yet they consistently underestimate the most powerful and volatile variable of all: the human factor. The most sophisticated strategies are silently sabotaged by toxic operational cultures. Research from the MIT Sloan Management Review is definitive: when it comes to shaping culture, "feeling respected" is an 18x more powerful predictor than any other factor. Excellence, therefore, is not merely a technical challenge; it is fundamentally a cultural one.

The erosion of an excellent operational culture is rarely a single event. It is the cumulative effect of thousands of small, disrespectful behaviors that become normalized in daily interactions. These acts create an environment where trust is broken and commitment fades. Three of the most common "value-destroying" behaviors include:

- Interruption as the Norm: When interrupting others becomes standard practice, it sends a clear message: "my voice is more important than yours." This devalues contributions and stifles front-line innovation, killing the low-cost, high-impact improvement ideas that drive efficiency.
- 2. **The False Idol of Multitasking:** Being absorbed in a laptop during a meeting is not a sign of efficiency; it is a sign of profound disinterest. This behavior communicates that others' time is not important, fostering a disengagement that no incentive program can fix and leading to errors born from distraction.
- **3. Leadership Disconnection:** Leaders who consistently arrive late to meetings or disrespect their team's time establish a standard of indiscipline for the entire organization. This makes the rigorous implementation of any excellence system, which

depends on discipline, nearly impossible.

While senior executives define the high-level corporate values ("Big-C" culture), it is the middle managers who are the true architects of daily operational culture. They don't just implement culture; they translate abstract values into tangible team practices ("small-c" culture). For instance, if the "Big-C" culture is "safety first," a frontline manager creates a "small-c" culture by celebrating the proactive identification of risks. This act of translation makes an abstract value a lived reality.

"Ultimately, operational excellence is a human contact sport. Systems and technologies are merely enablers; a sustainable high-performance culture is built on a foundation of mutual respect."

This principle connects directly back to the "Organizational Readiness" component of VSC's "Triangle of Preparation," recognizing that operations are driven by people who only thrive when they feel valued. Just as a poor culture can undermine a brilliant strategy, so too can a flawed project management structure.

Part II: Redefining the Engines of Execution

4. The Tyranny of the Schedule: Liberating the PMO to Deliver Value, Not Just Projects

In project management, success has long been measured by a simple triad: on time, on budget, and to scope. Yet, the data paints a bleak picture. According to PwC, only **2.5% of organizations complete projects on time, on budget, and with expected benefits.** This staggering statistic reveals an uncomfortable truth: an obsessive focus on milestones - what we call the "tyranny of the schedule"- often masks a fundamental failure to deliver strategic value. The Project Management Office (PMO) becomes so fixated on the plan that it loses sight of the project's entire purpose.

This disconnect creates the "Green that is Red" syndrome: a scenario where the PMO reports all green KPIs while the operations team on the ground knows a disaster is looming. The design is unmaintainable, the procedures are inadequate, and the operational transition will be chaotic. The PMO operates in a silo, prioritizing the plan over business readiness. It is no surprise, then, that an average of **36.2% of incidents and accidents stem from inadequate procedures**, a direct failure of the preparation that a schedule-focused PMO ignores.

At VSC, we advocate for a fundamental evolution of the PMO's role from a "project police" to a "value orchestrator." This new mandate reframes its mission to close the gap between project execution and business objectives.

| Traditional Approach | VSC's Strategic Approach |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Mission: Fulfill the plan on time and on budget. | Mission: Ensure the project delivers maximum possible business value. |
| Focus: Milestones, tasks, schedule. | Focus: Business risks, operational readiness, stakeholder alignment. |
| Role: Controller and reporter. | Role: Integrator and facilitator. |
| Mindset: "Deliver the project." | Mindset: "Deliver a successful operating asset." |

It is time for leaders to redefine the purpose of their PMO. In today's economy, blind adherence to an outdated plan is a liability. A PMO that only measures progress against a schedule is an administrative cost center. A PMO redesigned as a strategic engine of value is an indispensable asset. Delivering that value, however, extends beyond project completion and into the very arteries of the business: the supply chain.

5. Profitable Resilience: Stop Protecting Your Supply Chain and Start Weaponizing It

For decades, operational leaders have viewed supply chain resilience and efficiency as opposing forces, treating resilience as an insurance cost, a necessary burden to guard against disruption. This paradigm is fundamentally flawed. Strategically designed resilience is not a cost center; it is a latent source of competitive advantage, ready to be activated the moment your cost-focused competitors are paralyzed by a crisis.

Many companies fall into a reactive "boom and bust" cycle of resilience investment. They invest heavily after a crisis, only to slash those same investments when cost pressures return, leaving them perpetually vulnerable. This model fails because it focuses on mitigating specific, historical risks rather than building a systemic, adaptive capability to

handle the crises of the future.

VSC's "Profitable Resilience" Framework

To build a supply chain that is both resilient and profitable, VSC proposes a framework for "Profitable Resilience" based on three pillars:

- ✓ **Focus on Outcomes, not Risks:** Evaluate resilience investments not by the cost of a crisis avoided, but by the value of maintaining operations when others cannot. This is the language of real options. A backup supplier may show a negative return under traditional analysis, but when valued as a strategic option to capture market share if a competitor is disrupted, the investment becomes brilliant.
- ✓ Visibility as a Foundation: Resilience is impossible without deep supply chain visibility. Modern technology enables a level of traceability that was once unthinkable, allowing for faster responses to disruptions and smarter, more responsible sourcing decisions that can become a point of differentiation.
- ✓ Modular Flexibility: Leading companies are shifting from monolithic value chains to more adaptable supply networks. By reconfiguring production and logistics to be closer to markets and avoid geopolitical tensions, they not only reduce risk but also increase their responsiveness to changing customer demands.

Supply chain shocks should be reframed from a threat to a strategic opportunity. Companies with truly resilient supply chains do not just survive crises; they emerge stronger, gaining market share while their rivals falter. The ultimate prize can be explosive growth, demonstrated by companies that, by strengthening their value proposition, have doubled their tender success rate from **23% to 45%**. Navigating such strategic shifts, however, requires a new kind of leadership.

6. The Leader's Productivity Paradox: Why 'Being Busy' Is Your Greatest Strategic Risk

Modern executives operate under relentless pressure to be perpetually "busy," where back-to-back meetings and overflowing calendars have become status symbols. This constant "doing mode" is rewarded by corporate culture, yet the most critical challenges of our time, decarbonization, digital transformation, market volatility, cannot be solved with more activity. They demand deep reflection and strategic perspective that can only emerge from a "spacious mode." The modern addiction to busyness has become the single greatest obstacle to wise leadership.

A leader trapped in a perpetual state of "doing" creates profound and often invisible damage to the organization. The consequences of this culture of busyness are severe:

- 1. **Reactive, Not Strategic, Decisions:** A lack of reflection time forces leaders into a constant fire-fighting mode. Decisions are made hastily in response to daily problems rather than as part of a proactive, long-term strategy.
- 2. Asphyxiation of Team Innovation: A leader who is always rushed sends an unmistakable signal: there is no time for complex ideas, experimentation, or creative thought. Innovation, which requires space to flourish, withers in an environment that only rewards rapid execution.
- 3. Blindness to Systemic Risks: The busy leader focuses on operational details, like the CEO demanding constant daily progress updates, and loses sight of the bigger picture. Emerging strategic trends and disruptive risks go unnoticed until they become a fullblown crisis.

Reclaiming the "spacious mode" does not require a retreat from responsibility but a set of disciplined, deliberate practices designed to create time for thinking:

- ✓ **Design Meetings for Thinking, Not Just Reporting:** Transform key meetings by sending pre-reading materials and dedicating the first few minutes to silent reflection, shifting the focus from status updates to thoughtful decision-making.
- ✓ **Calendarize 'Not Doing':** Treat strategic thinking time with the same seriousness as a major client meeting. Actively block time on the calendar for this purpose and fiercely protect it from interruption.
- ✓ The Power of Disconnection: Leaders model the culture. Sending emails late at night creates pressure for the entire team to be "always on." By setting and respecting clear boundaries, leaders demonstrate a commitment to sustainable leadership and foster an environment where the entire organization has the space it needs to think.

A leader's most critical job is not to do more but to architect the conditions for their team to excel. This requires the wisdom to step back, see the whole board, and act as an architect, not just a player. The alternative is a high-performing organization that slowly grinds to a halt, blinded to the next market shift by a leadership team too busy to see it coming.

Part III: Leading and Anchoring Sustainable Change

7. See to Believe: Accelerating Transformation by Getting Leaders Out of the Boardroom

Many transformation initiatives fail because they are designed across the abyss that separates boardroom strategy from operational reality. Leaders, often disconnected from the front lines, create ambitious plans based on flawed assumptions, without a visceral understanding of the real-world challenges and opportunities.

The "Go, See, Together" (GST) method is a powerful antidote to this disconnect and the change resistance it creates. This approach is founded on the principle that direct, shared experience is the most effective catalyst for building alignment and overcoming skepticism.

- ✓ **Go:** This involves leaving your own organization to visit another company that has already solved a similar problem, seeing innovation in practice.
- ✓ **See:** This is the power of social proof. Witnessing a new way of working succeed in person overcomes skepticism in a way no report or presentation ever could.
- ✓ Together: This is the most crucial element. When the entire leadership team shares
 the experience, it creates a common understanding and a unified commitment to
 action.

The turnaround of Porsche in the 1990s is a legendary example. Facing bankruptcy, its CEO took the entire management team to Japan to learn lean principles firsthand. That shared GST experience was the catalyst for one of the most successful industrial transformations in history.

This same "see to understand" philosophy must be applied internally. In knowledge work, bottlenecks are often invisible. Visual Management tools, such as physical or digital Kanban boards, bring this hidden work into the open. By making workflows visible, they allow teams to collectively identify where work gets stuck and collaborate on solutions. This pragmatic, on-the-ground philosophy is central to the VSC approach: you cannot manage what you cannot see. By making invisible knowledge work visible, teams are empowered to diagnose their own bottlenecks and drive continuous improvement from the bottom up.

Transformation is led with the feet, not from the desk. To drive real change, leaders must immerse themselves in the operational context, both externally and internally. While senior leaders must lead the charge, that change is ultimately anchored by the critical layer of middle management.

8. The Hidden Engine of Change: Empowering Middle Managers to Anchor Transformation

The traditional narrative of change management is top-down: vision originates in the C-suite and is cascaded down for execution. While executive vision is essential, this perspective overlooks the most critical group for success: middle management. These frontline leaders form the bridge between abstract strategy and daily execution. It is at this level that transformation is either won or lost.

Middle managers play a fundamental dual role as both translators and architects of culture, making them the engine that guarantees operational excellence.

- ✓ **First, they are Translators of 'Big-C' Culture.** They take abstract corporate values and translate them into concrete priorities and actions that are meaningful to their teams' daily work.
- ✓ **Second, they are Architects of 'small-c' Culture**. They design the daily rituals and norms that make corporate values tangible. For example, if a "Big-C" value is "efficiency," a manager can create a "small-c" culture of continuous improvement by instituting a weekly root-cause analysis meeting for equipment failures.

The Talent Leadership Model

The long-term impact of a middle manager hinges on their approach to developing people. The "Talent Leadership Model" identifies two distinct archetypes with vastly different outcomes:

| The Protector (Talent Hoarder) | The Captain (Talent Champion) |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Mindset: "My people are my most valuable resource; I can't lose them." | Mindset: "My job is to prepare my people for their next role, even if it's outside my team." |
| Behavior: Limits the exposure of top talent to other departments. | Behavior: Actively seeks cross-functional development opportunities for the team. |
| Impact: Creates talent silos and limits professional growth. | Impact: Builds a strong leadership pipeline for the entire organization. |

Investing in the development of middle managers is not an HR expense; it is a strategic investment in the company's ability to execute. Empowering these leaders to become effective translators of culture and "Captains" of talent is the surest way to ensure that strategy moves from paper to practice. Once operations are optimized and change is anchored, the organization must learn to articulate this newfound value to the market.

Part IV: Articulating Value in the Modern Market

9. Beyond Tonnage: How to Articulate Value in the Age of Industrial Sustainability

The paradigm for B2B sales in the industrial sector has fundamentally shifted. For decades, purchasing decisions were based on three pillars: price, quality, and availability. Today, a fourth pillar is equally critical: sustainability. This is no longer a matter of corporate social responsibility; it is a tangible purchasing criterion. Today, your customers no longer buy steel; they buy sustainable steel. Major brands now demand verifiable data from their suppliers on everything from Scope 3 emissions to water usage and labor practices.

Historically, sustainability was viewed through a defensive lens of risk mitigation. This posture is now obsolete. In the new paradigm, sustainability is a powerful tool for value creation and competitive differentiation. The strategic business alliance between Tesla and BHP for responsible nickel sourcing was not a PR move; it was a clear signal that buyers will form preferential partnerships for products that help them achieve their own sustainability targets.

Having a sustainable operation is not enough; you must be able to articulate it as a clear, quantifiable value proposition. At VSC, we use a disciplined template to translate sustainability efforts into a customer-centric value proposition:

We help [customer type] achieve [quantifiable outcome] in their [customer's value chain area] because of our [unique sustainable process], which is [quantifiable proof point].

Using this framework, a VSC client in copper production crafted the following: "We help

electric vehicle manufacturers with carbon neutrality goals achieve a verifiable **15%** reduction in their battery carbon footprint in their critical raw materials supply chain because of our copper extraction process powered by **100%** renewable energy, which is approximately **25%** lower in carbon intensity than the industry average." This approach transforms a company attribute into a customer outcome. The ability to master this new language is now a core sales competency. Articulating this value, however, requires robust data, which presents its own profound challenge.

10. The Digital Oil is Contaminated: Why Your Data Strategy Fails Before It Starts

For the past decade, becoming a "data-driven" enterprise has been the holy grail of corporate strategy. Yet, the reality is one of palpable frustration. A Kongsberg Digital survey revealed that only **5% of industrial professionals feel their data access enables very fast decisions**. The promise has been broken. The problem isn't a lack of data, industrial operations are flooded with it. The problem is that this "digital oil is contaminated" with low-quality, siloed, and inconsistent information.

The axiom of "Garbage In, Garbage Out" is playing out at an industrial scale, driven by systemic operational flaws. The root causes of poor data quality are not abstract IT issues; they are deeply embedded in daily work:

- ✓ **Inefficient Information Sources:** Manual data entry remains the norm in many processes, creating a foundation that is inherently prone to errors, omissions, and inconsistencies.
- ✓ **Systemic Integration Failure:** Industrial executives identify "applications that are not sufficiently connected" as the top barrier to productivity. Siloed AI implementations only aggravate this, preventing the 360-degree operational view needed for informed decisions.
- ✓ Lack of Governance for Unstructured Data: As much as 97% of a company's information reports, emails, images is unstructured. This vast ocean of knowledge often lacks any governance, rendering it inaccessible for analysis.

VSC's Pragmatic Data Strategy

The instinctive reaction - launching a massive, boil-the-ocean "data cleanup" project - rarely works. VSC advocates for a pragmatic, value-focused, and iterative approach:

- Identify a Critical Value Stream: Instead of trying to clean everything, select a single, crucial business process, such as maintenance planning for critical assets.
- **2. Map the Data Journey:** Conduct an "autopsy" of the information flow within that process. Trace every step to identify manual entry points, inefficient system handoffs, and data gaps.
- 3. Solve at the Source: Implement targeted improvements at the identified weak points. This could involve automating data capture, building APIs to connect systems, or standardizing procedures to ensure that new data entering the system is high-quality by design.

A fundamental mindset shift is required. Leaders must stop "managing data" and start "designing information flows." Data quality is not an IT cleanup project; it is the natural output of excellent process engineering. As operators ourselves, VSC partners with clients to re-engineer these core information flows, building the operational discipline that makes data quality an inevitable output of excellence. This foundational work of designing information flows is the only way to build a solid base for a data-driven strategy, finally closing the gap between strategic intent and operational reality that plagues so many capital investments.



Ready to Transform Strategy into Execution?

The gap between strategic intent and operational reality doesn't have to persist. These ten insights represent proven pathways to unlock the full potential of your capital investments.

ValueStrategy Consulting partners with leaders in mining, energy, and heavy industry to architect sustainable competitive advantage.

Schedule Your Strategic Conversation

Email: Jose.Cortinat@valuestrategyconsulting.com