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Chapter

# 13

## OPTIMIZATION OF OPERATIONAL AND LOGISTICS PROCESSES THROUGH INTEGRATED FINANCIAL ANALYSIS



# OPTIMIZATION OF OPERATIONAL AND LOGISTICS PROCESSES THROUGH INTEGRATED FINANCIAL ANALYSIS

Bruno Tavares de Oliveira<sup>1</sup>

**Abstract:** This chapter examines the convergence between financial analysis and logistics operations management as a vector of organizational transformation. Structured methodologies are presented for the mapping and elimination of waste in inventories, transportation, and warehousing, demonstrating that the integrated reading of financial data is a sine qua non condition for effective operational decision-making. The text further demonstrates that multidisciplinary leadership is the indispensable catalyst for continuous improvement projects that generate growing productivity and sustainable expansion.

**Keywords:** Integrated financial analysis. Logistics. Process optimization. Continuous improvement. Multidisciplinary leadership.

## INTRODUCTION

In a business environment marked by global market volatility, growing pressure on profit margins, and the demand for agile responses to consumers, the integration between finance and operations has ceased to be a competitive advantage and has become an unavoidable strategic necessity. Organizations that insist on managing their logistics processes in a dissociated manner

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from financial analysis pay a high price: they accumulate idle inventories, bear inflated transportation costs, occupy warehousing space inefficiently, and, above all, lose the capacity to anticipate risks and seize opportunities.

This chapter proposes an intellectual and practical journey through the intersection of finance and logistics, demonstrating that integrated financial analysis is not merely an instrument for measuring past results, but a powerful strategic compass for conducting present and future operations. The perspective adopted is that of the multidisciplinary leader — the professional who moves fluently between financial reports and the shop floor, between KPI dashboards and distribution routes, between supply contracts and value stream maps.

The central thesis running throughout this chapter is straightforward: companies that systematically align their financial analysis with their operational and logistics processes build solid foundations for continuous improvement, sustainable expansion, and organizational resilience. This is not speculative theory. It is a documented reality across hundreds of corporate cases worldwide, from which we have extracted principles, methodologies, and lessons applicable to the Brazilian context.

In the sections that follow, we will explore process mapping as the starting point for identifying inefficiencies, discuss financial analysis tools applied to inventories, transportation, and warehousing, present models of cross-functional alignment, and, finally, address the irreplaceable role of leadership in driving continuous improvement projects.

## **THE LOGIC OF FINANCIAL-OPERATIONAL INTEGRATION**

For decades, corporate management was structured in functional silos: the finance department handled the numbers, while the operations and logistics area managed the physical flow of materials and products. This separation, though understandable from the standpoint of labor specialization, created a dangerous gap: operational decisions made without awareness of their financial impacts, and financial decisions disconnected from the physical reality of processes.



Overcoming this dichotomy is what we call Integrated Financial Analysis (IFA). It encompasses a set of practices, tools, and mindsets that promote the simultaneous reading of financial flows and operational flows, allowing each decision to be evaluated both in terms of physical efficiency and the economic value generated or destroyed.

### **The Invisible Cost of Operational Inefficiencies**

Every operational inefficiency has a financial price. The challenge is to make it visible. A product sitting in inventory for 90 days is not merely a physical flow problem — it is immobilized capital that stops generating returns, warehousing space being paid for without the benefit of turnover, and a risk of obsolescence that erodes the asset. A transportation vehicle traveling suboptimal routes does not merely waste fuel — it wastes working hours, increases asset wear, raises the cost of service, and deteriorates the customer experience.

Kaplan and Anderson (2007) demonstrated, through the Time-Driven Activity-Based Costing (TDABC) method, that the majority of companies underestimate their real process costs by 20% to 40% when they do not integrate the financial perspective into operational analysis. This underestimation is not innocent: it feeds misguided decisions regarding pricing, capacity sizing, and investment allocation.

Traditional cost accounting allocates overhead expenses arbitrarily, obscuring the true cost drivers within processes. Only when we integrate the activity map with actual resource consumption do the hidden costs emerge with sufficient clarity to guide improvement decisions. (KAPLAN; ANDERSON, 2007, p. 43, our translation)

In the Brazilian logistics context, this reality is even more acute. According to data from ILOS (2023), the average logistics cost of Brazilian companies is equivalent to 12.4% of revenues — significantly higher than the average in developed countries such as Germany (8.1%) and the United



States (7.6%). A substantial portion of this difference is explained by the precarious infrastructure, but another equally relevant portion stems from managerial inefficiencies that integrated financial analysis has the power to reveal and correct.

### **The Three Vectors of Integration**

Financial-operational integration manifests across three main vectors, which form the analytical backbone of this chapter:

- The first vector is cost visibility. It means going beyond accounting cost and mapping the Total Cost of Ownership (TCO) of each logistics process. The TCO of an inventory, for example, includes not only the value of stored items, but also the costs of handling, insurance, obsolescence, physical space, control systems, and dedicated personnel.
- The second vector is value analysis. Not every activity that generates cost generates value for the customer. Value analysis, inspired by Lean Manufacturing principles, classifies activities into three categories: value-adding activities (VAA), non-value-adding but necessary activities (NVANA), and non-value-adding activities that should be eliminated (NVA). The financial translation of this classification enables prioritizing improvement investments based on expected return.
- The third vector is incentive alignment. Many logistics inefficiencies persist because organizational incentive systems do not align the behavior of different areas toward the common objective of value optimization. When the procurement department is evaluated exclusively on the unit price of inputs, it tends to make large-volume purchases to obtain discounts, generating excessive inventories that increase total financial cost. Integrated financial analysis exposes these inconsistencies and provides the foundation for redesigning indicator and variable compensation systems.



## **PROCESS MAPPING AS THE FOUNDATION OF OPTIMIZATION**

You cannot optimize what you do not understand. This maxim, simple in its formulation, encapsulates a profound truth that many managers learn the hard way: by attempting to implement improvements without first precisely understanding how processes work, where value is created, and where it is destroyed.

Process mapping is, therefore, the non-negotiable starting point for any operational and logistics optimization project. It fulfills four essential functions: (1) it creates a common language between the financial and operational areas; (2) it makes visible the flows of materials, information, and financial resources; (3) it identifies waste points, bottlenecks, and redundancies; and (4) it provides the baseline against which improvements will be measured.

### **Value Stream Mapping (VSM) with a Financial Dimension**

Value Stream Mapping (VSM) is one of the most powerful tools in the Lean arsenal for the integrated visualization of processes. Originally developed within the Toyota Production System, VSM traverses the entire value chain — from supplier to customer — identifying each process step, cycle time, waiting time, in-process inventory, and information flow.

The contribution proposed in this chapter is the addition of a financial layer to conventional VSM. We call this approach Financial VSM (VSM-F). In VSM-F, each step of the value flow receives, in addition to the traditional operational metrics, three fundamental financial indicators: the unit cost of the activity, the capital immobilized at each point in the flow, and the value added in terms of contribution margin.

This superimposition of operational and financial lenses reveals something that traditional VSM cannot show on its own: the financial cost of waiting time. A batch of products awaiting processing for 48 hours is not merely a flow problem — it is idle capital that, depending on the sector,



may represent an opportunity cost of between 0.5% and 2% of the batch's value. Multiplied across hundreds of batches throughout the year, the impact on financial results is significant.

### **Financial SIPOC: Structuring Process Analysis**

The SIPOC (Suppliers, Inputs, Process, Outputs, Customers) model is a classic process management tool that structures analysis into five elements: suppliers, inputs, process, outputs, and customers. In its traditional form, SIPOC is a qualitative mapping tool. The introduction of the financial dimension transforms it into an instrument for profitability analysis by process.

In the Financial SIPOC, each input receives an associated cost, each process step receives a transformation cost, and each output receives a market price or internal transfer value. The difference between the value of outputs and the total cost of inputs and process represents the operating margin of the process, which can be compared across different product lines, distribution channels, or business units.

Applied to logistics, the Financial SIPOC enables answering critical questions: Which distribution channel is most profitable when all operational costs are considered? Which supplier offers the lowest total cost when we include freight, payment terms, and defect rates? Which warehouse configuration maximizes operating margin as a function of inventory turnover?

### **Bottleneck Analysis and Theory of Constraints**

The Theory of Constraints (TOC), developed by Eliyahu Goldratt, establishes that every system has at least one constraint that limits its overall performance. In logistics, these constraints may be physical (storage capacity, vehicle fleet, delivery window width) or managerial (inventory policies, approval criteria, information silos).

The contribution of integrated financial analysis to TOC lies in the prioritization of the



constraints to be addressed. Not every constraint has the same financial impact. The analysis of Throughput — a central TOC concept representing the rate at which the system generates money through sales — allows for calculating the financial cost of each bottleneck and, therefore, ordering improvement interventions by expected return.

Table 1 – Comparison of process mapping approaches

Approach	Main Focus	Financial Dimension	Logistics Application
Traditional VSM	Physical and information flow	Limited	Production and distribution
Financial VSM (VSM-F)	Physical flow + cost + capital	Integrated	Entire logistics chain
Financial SIPOC	Process profitability	Total	Channels and suppliers
TOC + Throughput	Elimination of constraints	High prioritization	Critical bottlenecks
Activity-Based Costing	Costing by activity	Real cost	Distribution center

Source: prepared by the author (2024).

## FINANCIAL INVENTORY MANAGEMENT: BETWEEN EXCESS AND STOCKOUT

Inventory is simultaneously the most managed and least understood asset in operational management. Operational managers tend to see inventory as protection — a safety buffer against demand and supply uncertainties. Financial managers tend to see it as a problem — immobilized capital that pressures cash flow and erodes return on assets (ROA). Both perspectives are partially correct, which means that both are, in isolation, insufficient.

Integrated financial analysis of inventory rests on a fundamental principle: the true cost of holding inventory is systematically underestimated. When organizations calculate their holding cost, they frequently include only the cost of capital (the interest rate applied to the inventory value). Integrated analysis expands this calculation to include: physical storage cost, obsolescence and perishability cost, insurance cost, handling and movement cost, loss and damage cost, and opportunity cost of capital.

The sum of these elements frequently raises the true holding cost to 25%–35% per year of



the average inventory value — a figure that radically changes the economic calculation of purchasing and production decisions.

### **ABC Curve and Financial Value Analysis**

ABC inventory classification is one of the best-known and, at the same time, most underutilized tools in logistics management. In its basic form, it classifies inventory items into three groups based on their share of total value: A items (generally 20% of items representing 80% of value), B items (30% of items and 15% of value), and C items (50% of items and 5% of value).

Integrated financial analysis proposes a powerful extension of this classification: the ABC curve crossed with contribution margin analysis. An item may be A in revenue but C in margin — meaning it consumes disproportionate logistics resources to generate little financial value. This revelation can completely transform inventory policy, supplier mix, and even product portfolio decisions.

### **Economic Order Quantity (EOQ) with Full Financial Cost**

The Economic Order Quantity (EOQ) model is the classic formula for determining the optimal order size that minimizes total inventory cost by balancing order issuance cost against holding cost. The traditional formula is:

$$EOQ = \sqrt{2 \times D \times S / H}$$

Where D is annual demand, S is order issuance cost, and H is the annual holding cost per unit. The critique that integrated financial analysis makes of the traditional EOQ is that parameter H is frequently calculated incompletely, excluding relevant financial costs such as obsolescence and



opportunity cost. When H is calculated with the full financial cost — as described in the previous section — the resulting EOQ is significantly smaller, indicating more frequent orders and lower inventories, with a direct and positive impact on cash flow and return on capital employed (ROCE).

Table 2 – Impact of full holding cost on EOQ (illustrative example)

Parameter	Traditional EOQ	Integrated EOQ	Variation
Holding cost (H)	18% p.a.	32% p.a.	+77.8%
Optimal order quantity	1,200 units	900 units	-25.0%
Average inventory	600 units	450 units	-25.0%
Average capital tied up	BRL 120,000	BRL 90,000	-25.0%
Total annual inventory cost	BRL 45,600	BRL 39,200	-14.0%

Source: prepared by the author based on simulated data (2024).

## FINANCIAL EFFICIENCY IN TRANSPORTATION AND DISTRIBUTION

Transportation is, on average, the most significant component of logistics cost, representing between 40% and 60% of the total logistics cost of Brazilian companies, according to ILOS (2023) data. This weight justifies special attention from integrated financial analysis to transportation decisions — not just tactical freight negotiations, but the strategic structure of the distribution network.

Transportation decisions involve complex financial trade-offs: cargo consolidation reduces cost per kilogram transported but increases transit time and may raise in-transit inventory levels; the road modality is more flexible than rail but significantly more expensive per tonne-kilometer; outsourcing transportation reduces investment in assets but may compromise control over service levels and supply chain visibility.

### Total Distribution Cost: Beyond Freight

One of the most common misconceptions in transportation cost analysis is the confusion



between freight cost and total distribution cost. Freight cost is the price paid to the carrier. Total distribution cost is a far broader concept that includes: freight cost proper, packaging and unitization cost, cargo insurance cost, damage and casualty cost, in-transit inventory cost, order processing and billing cost, tracking and visibility cost, and customer service level cost (which includes the financial impact of delays and delivery errors).

When the total distribution cost is calculated in an integrated manner, comparisons between logistics alternatives frequently produce surprising results. A more expensive transportation modality in terms of freight may be cheaper in terms of total cost — especially when it offers shorter transit time (reducing in-transit inventories), greater reliability (reducing stockout and emergency costs), and a lower damage rate.

### **Route Optimization and Financial Analysis**

Distribution route optimization is an area in which technology has advanced enormously over the past decade, with the popularization of routing algorithms that consider multiple operational variables: delivery windows, vehicle capacities, traffic restrictions, and distances. Integrated financial analysis adds to this equation a frequently overlooked variable: the opportunity cost of each route.

A route that maximizes the number of deliveries per vehicle may not maximize the contribution margin of those deliveries. When we incorporate the financial value of each customer served — considering margin, purchasing convenience, loyalty, and growth potential — the ordering of routes may change significantly. High-margin strategic customers may justify dedicated routes even with lower volume efficiency; low-margin customers may be regrouped into consolidated routes or even migrated to digital self-service channels.



## **Make or Buy: The Logistics Outsourcing Decision**

The decision to internalize or outsource logistics operations — the classic make-or-buy dilemma — is one of the most strategic and financially relevant that organizations face. Integrated financial analysis structures this decision across four dimensions: direct cost comparison, transaction cost, impact on capital employed, and strategic alignment.

The direct cost dimension compares the cost of executing the operation internally against the price charged by the logistics operator. The transaction cost dimension incorporates the costs of selecting, contracting, monitoring, and managing the relationship with the third party. The capital employed dimension evaluates the impact of the decision on the balance sheet — outsourcing frees capital immobilized in logistics assets (warehouses, fleets) for use in core activities. The strategic alignment dimension questions whether logistics competence is a source of competitive advantage for the company or a support activity that can be better executed by specialists.

## **FINANCIAL EFFICIENCY IN WAREHOUSING**

A warehouse is far more than a physical space for storing products. It is a critical node in the logistics network, where flows of materials, information, and financial resources converge. Warehouse efficiency — measured by the combination of cost per movement, inventory turnover, inventory accuracy, and service level — has a direct and measurable impact on operational profitability.

The integrated financial analysis of warehousing begins with the construction of the total warehousing cost — an indicator that goes far beyond the cost of leasing or depreciating physical space. The total warehousing cost encompasses: occupancy cost (rent or property depreciation), energy cost, equipment cost (racks, forklifts, conveyor systems), information systems cost (WMS — Warehouse Management System), direct and indirect personnel cost, loss cost (damage, theft, expiry), and opportunity cost of capital immobilized in inventory.



## **Layout and Profitability: The Financial Dimension of Space**

The configuration of a warehouse layout has financial consequences that go beyond immediate operational efficiency. A well-designed layout reduces the average travel distance of operators and equipment, which translates directly into lower labor costs and greater order processing capacity per unit of time. But the financial impact of layout also manifests in less obvious dimensions.

The strategic allocation of items in the warehouse — positioning high-turnover items in easily accessible locations and slow-moving items in more remote positions — can reduce the average picking time by 15% to 30%, according to studies from the Georgia Institute of Technology (2022). Translated into financial terms, this reduction is equivalent to an expansion of operational capacity without additional investment in space or personnel — one of the best types of return a company can achieve.

### **Slotting and Profitability Analysis by SKU**

The slotting process — defining where each SKU (Stock Keeping Unit) should be stored in the warehouse — is, in essence, a financial optimization problem. The objective is to minimize the total cost of movement (as a function of distance traveled and picking frequency) while simultaneously maximizing the use of available space.

Integrated financial analysis enriches slotting with a third dimension: SKU profitability. High-margin, high-turnover items deserve privileged positions not only for operational reasons, but for financial ones. Their fast and accurate fulfillment contributes disproportionately to the profitability of the operation. Low-margin, slow-moving items, on the other hand, may be candidates for removal from the portfolio — a decision that profitability analysis by SKU makes evident and financially justifiable.



## **CROSS-FUNCTIONAL ALIGNMENT: THE ROLE OF MULTIDISCIPLINARY LEADERSHIP**

All the methodologies and tools discussed in the preceding sections share a fundamental prerequisite: the organizational willingness and capacity to integrate distinct functional perspectives around common objectives. This integration does not happen spontaneously. It is the product of conscious, committed, and above all, multidisciplinary leadership.

The multidisciplinary leader this chapter advocates is not necessarily the one who has deep mastery of all disciplines — finance, logistics, technology, people management. It is the one who understands each discipline well enough to ask the right questions, to translate between specialized languages, and to build bridges where others erect walls. It is the one who knows that inventory cost is not merely an accounting figure and that a routing algorithm is not merely a linear programming problem — in both cases, they are strategic issues that affect organizational competitiveness.

### **The Alignment Gap and Its Costs**

Research conducted by McKinsey & Company (2022) indicates that companies with low cross-functional alignment have operational costs that are, on average, 19% higher than those of companies with high alignment, and present innovation and improvement cycles that are 34% longer. The alignment gap — the distance between the financial logic and the operational logic within an organization — therefore has a clearly measurable price.

This gap manifests in recognizable symptoms: departmental goals that contradict each other, planning meetings where finance and operations speak different languages, improvement projects that begin with enthusiasm and die in implementation due to lack of cross-functional support, and performance reports that measure a lot but inform little.



## **Building Bridges: Integration Tools**

Overcoming the alignment gap requires both structural and cultural interventions. At the structural level, high-performance organizations consistently adopt several practices: creating interface roles (financial Business Partners embedded in operational teams), developing a common language of indicators that translates financial metrics into operational language and vice versa, implementing regular integrated planning forums (S&OP — Sales, Operations and Planning in its most advanced version, IBP — Integrated Business Planning), and sharing information systems that allow all stakeholders to see the same data set in real time.

At the cultural level, building bridges requires the explicit valuation of a multidisciplinary perspective in promotion and recognition decisions, investment in training programs that develop the financial literacy of operational teams and the operational literacy of financial teams, and the creation of safe spaces for cross-functional questioning — where a logistics analyst can ask about cash flow impact without being seen as trespassing.

## **The Leader as Catalyst for Continuous Improvement**

Continuous improvement — whether in the form of Japanese Kaizen, PDCA (Plan-Do-Check-Act), or Six Sigma methodologies — is fundamentally a leadership practice. Tools and methodologies can be taught in two-day seminars. The culture of continuous improvement takes years to build and requires leadership that exemplifies it, not merely proclaims it.

The leader who catalyzes continuous improvement through integrated financial analysis develops three key competencies. The first is analytical curiosity: the genuine willingness to question the numbers, to not accept averages without understanding variances, to ask ‘why?’ five times before accepting a surface explanation. The second is the courage to expose inefficiencies: many operational



inefficiencies survive because revealing them is politically inconvenient. The leader who creates psychological safety for problems to be surfaced without punishment exponentially accelerates the improvement cycle. The third is the ability to connect micro and macro: to see how an improvement in a specific process — reducing truck loading time by 30 minutes — connects to a concrete financial result — the possibility of completing one more delivery per day per vehicle, increasing revenue without adding fixed costs.

## **APPLICATION CASES: RESULTS OF INTEGRATION IN PRACTICE**

Theory comes to life when it meets reality. In this section, we present three cases of the application of integrated financial analysis in distinct logistics contexts — a wholesale distributor, an e-commerce operation, and a consumer goods industry — with the aim of illustrating how the principles and tools discussed translate into concrete, measurable results.

### **Case 1 – Wholesale Distributor: Redesigning Inventory Policy**

A mid-sized wholesale distributor with annual revenues of BRL 180 million and a portfolio of 4,200 active SKUs had been experiencing growing deterioration in working capital and pressure on bank credit limits. Initial analysis indicated an average inventory holding period (AIHP) of 47 days — 15 days above the sector benchmark.

The integrated financial analysis project, conducted over 90 days, began with the construction of the financial ABC curve crossed with margin analysis by SKU. The result was revealing: 340 items (8% of the portfolio) concentrated 78% of immobilized capital and only 31% of total gross margin. These were high-demand products with compressed margins, acquired in large lots to obtain discounts — a strategy that optimized purchase cost at the expense of total financial cost.

Based on this analysis, the company redesigned its inventory policy, adopting the full financial



EOQ for high-margin A and B items, and negotiating more frequent deliveries with the suppliers of low-margin items. The result, after six months of implementation, was a 22% reduction in capital immobilized in inventories (releasing BRL 8.4 million in working capital), an 11-day improvement in AIHP, and an increase of 1.8 percentage points in EBITDA margin — without any reduction in service level.

## **Case 2 – E-commerce: Distribution Network Optimization**

An e-commerce operation with a national presence was facing a paradox common in the sector: accelerated revenue growth (38% per year) accompanied by proportional deterioration in profitability. Analysis of logistics costs revealed that the delivery cost per order had grown by 47% over the previous 18 months, while the average ticket had grown by only 12%.

The integrated financial analysis project mapped the total distribution cost by geographic region, average ticket range, and product category. The findings were multiple: regions in the Center-West presented a delivery cost three times higher than metropolitan regions, making low-ticket orders financially negative after logistics cost; the large household appliances category, despite high ticket values, presented negative net margin after considering special delivery and return costs; and 23% of orders delivered in D+2 could be consolidated into D+3 without impact on customer satisfaction, generating 18% savings in freight cost.

Based on this analysis, the company implemented a set of measures: a minimum freight policy by region and category, a redesign of the distribution network with the implementation of two regional distribution centers, and the migration of 23% of orders to consolidated routes. The result was a 29% reduction in logistics cost per order and the restoration of positive margins across all strategic categories.



### **Case 3 – Consumer Goods Industry: S&OP and Finance Integration**

A food manufacturer with 12 production plants and a complex logistics operation — involving agricultural raw material collection, regionalized production, and multichannel distribution — had been suffering from the chronic disconnect between commercial planning, production planning, and working capital financial constraints.

The integrated financial analysis project focused on restructuring the S&OP (Sales, Operations and Planning) process, incorporating an explicit financial dimension — what some organizations call Integrated Business Planning (IBP). The central innovation was the creation of a dynamic financial model, fed in real time by S&OP data, which translated each production and sales scenario into an impact on cash flow, working capital, and projected EBITDA.

With this model, managers were able, for the first time, to make production mix decisions considering simultaneously market demand, manufacturing capacity, and working capital constraints. The result was a 34% reduction in emergency production costs (overtime and urgent input purchases), an 8-day improvement in the cash cycle, and an increase of 2.3 percentage points in return on capital employed (ROCE).

### **IMPLEMENTATION FRAMEWORK: SEVEN STEPS TOWARD INTEGRATION**

Based on the methodologies discussed and the cases presented, we propose an implementation framework for integrated financial analysis in logistics operations. This framework is not a rigid recipe — it is a flexible roadmap that must be adapted to the reality of each organization. Its value lies in the logical sequence and the simultaneous attention to technical, cultural, and leadership dimensions.

The first step is the Financial-Operational Diagnosis. Before any improvement initiative, it is necessary to build an accurate picture of the current situation: total logistics cost as a percentage of revenue, cost per process (warehousing, transportation, inventory management), capital immobilized



in the supply chain, and customer service indicators. This diagnosis must be conducted in an integrated manner, with participation from both finance and operations.

The second step is Process Mapping with a Financial Dimension. Using Financial VSM and Financial SIPOC, map the main value flows of the logistics operation, identifying in each step the unit cost, immobilized capital, and added value.

The third step is Opportunity Prioritization. Based on the diagnosis and mapping, build an opportunity matrix that orders improvement initiatives by two dimensions: potential financial impact and implementation complexity. Prioritize, in the initial phase, high-impact, low-complexity initiatives — the quick wins that generate visible results and build credibility for the project.

The fourth step is Business Case Construction. For each prioritized initiative, build a rigorous business case that quantifies the required investment, the expected financial benefit, the payback period, and the associated risks. This business case is the bridge between analysis and the resource allocation decision.

The fifth step is Implementation with Integrated Governance. Implement initiatives with a governance structure that ensures simultaneous monitoring of operational and financial metrics. Create an integrated KPI dashboard, with monitoring frequency appropriate to the pace of each process.

The sixth step is Measurement and Learning. At the end of each implementation cycle, conduct a rigorous analysis of results obtained versus those projected. When there is deviation, investigate the causes — both to correct the course of ongoing initiatives and to refine the estimation methodology for future projects.

The seventh step is the Institutionalization of an Integrated Culture. Integrated financial analysis cannot be a one-off project — it must become a permanent mode of operation. This requires the incorporation of tools and practices into regular management processes, the continuous development of the team's multidisciplinary competencies, and the maintenance of leadership commitment to continuous improvement.



Table 3 – Integrated Financial Analysis implementation framework

Step	Core Action	Deliverable	Main Responsible
1	Financial-Operational Diagnosis	Baseline report	CFO + COO
2	VSM-F and SIPOC-F Mapping	Process maps with costs	Multidisciplinary team
3	Opportunity prioritization	Prioritization matrix	Executive Committee
4	Business case construction	Approved business cases	Finance + Operations
5	Implementation with governance	Integrated KPI dashboard	Project leaders
6	Measurement and learning	Results report	Controlling
7	Culture institutionalization	Continuous training program	HR + Leadership

Source: prepared by the author (2024).

## FINAL REMARKS

We reach the end of this chapter with renewed conviction that the integration between financial analysis and operational and logistics processes is not a passing trend — it is a structural and irreversible transformation in the way organizations create and deliver value. In a business environment where margins are compressed, where supply chain complexity grows, and where customers simultaneously demand greater agility, more customization, and more sustainability, silo-based functional management is a recipe for mediocrity and, in extreme cases, irrelevance.

The path this chapter has traveled — from financial diagnosis to process mapping, from integrated inventory management to transportation and warehousing optimization, from cross-functional alignment to application cases and the implementation framework — is not linear in practice. Real organizations face resistance, contradictions, and setbacks. The success of financial-operational integration projects depends less on the sophistication of the tools used and more on the quality of the leadership that guides them.

The multidisciplinary leadership this text advocates is not born ready. It is built through deliberate experiences, through the willingness to learn beyond the boundaries of one’s own specialty, with the humility to recognize that no isolated perspective is sufficient to understand the complexity



of organizational systems. It is, ultimately, the scarcest and most valuable competence an organization can cultivate.

The invitation that remains is this: question the numbers of your operation with the curiosity of someone who knows that behind every line of the cost report lies a human decision that can be improved. Build bridges between areas of your organization with the persistence of someone who knows that the greatest improvement opportunities almost always live at the boundaries between departments. And lead by example — someone who not only proclaims continuous improvement, but practices it — every day, in every decision.

Operational excellence with integrated financial analysis is not a destination. It is a journey. And transformative journeys only begin when someone decides to take the first step.

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