

Redefining Supply Chain Planning with Integrated Business Planning Platforms: Bridging Operational and Strategic Decision-Making

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Abstract: Modern distribution channels undergo essential restructuring—transitioning from responsive to predictive approaches—via the implementation of Integrated Business Planning (IBP). Current IBP architectures merge market forecasting, inventory management, and contingency orchestration into cohesive, real-time determination systems. These systems employ sophisticated algorithmic intelligence to identify correlations within extensive information repositories, facilitating precise forecasts across intricate multinational distribution channels. Through the connection of formerly disconnected planning elements, corporations achieve exceptional transparency and adaptability to marketplace indicators. The alignment between tactical operations and strategic directives yields concrete enhancements in prediction precision, stock positions, and performance indicators. Sophisticated IBP functionalities demonstrate particular merit during market fluctuations, permitting swift scenario assessment and resource distribution modifications. Transformation executives document notable benefits in decision rapidity and effectiveness when implementing these comprehensive planning structures. The consolidated planning ecosystem encourages multidisciplinary cooperation, dissolving conventional barriers between commercial and operational departments. This functionality converts planning from an intermittent activity into a perpetual, fluid procedure. Refined modeling specificity enables strategists to comprehend ramifications at both executive and operational tiers concurrently. The merging of planning timeframes constitutes a pivotal advancement in corporate capability, enabling organizations to manage intricacy while preserving strategic coherence through synchronized implementation across all planning dimensions.

Keywords: Integrated Business Planning, Supply Chain Management, Strategic Decision-Making, Demand Forecasting, Operational Resilience.

INTRODUCTION

IBP Evolution in Supply Chain Management

The journey of supply chain planning methodologies spans several decades of progressive development. During the 1980s, companies managed their supply operations through isolated functional processes with minimal coordination between departments. Factory managers focused primarily on production schedules while logistics teams handled transportation separately, often using basic spreadsheet calculations. Supply professionals continued relying on manual forecasting tools with limited accuracy, resulting in planning cycles that moved too slowly to capture rapidly shifting market conditions (Arora, P. 2022). Monthly planning meetings often addressed problems that had emerged weeks earlier, creating a perpetually reactive operational environment. The concept of Integrated Business Planning took shape as forward-thinking organizations recognized these fundamental limitations. Unlike previous approaches, IBP extended across traditional boundaries to connect product development, sales strategies, and financial targets within a unified planning framework (Dave Food). This represented a critical shift in perspective, elevating supply chain planning from a purely operational concern to a strategic business process. However, early IBP implementations struggled with technology constraints, requiring extensive manual

data preparation that limited their practical effectiveness.

Recent technological breakthroughs have fundamentally transformed what IBP platforms can deliver to modern organizations (Arora, P. 2022). Today's systems leverage cloud computing, sophisticated mathematics, and artificial intelligence to process massive datasets that capture complex supply relationships. These platforms enable continuous planning adjustments rather than rigid monthly cycles, with some organizations now refreshing entire supply plans daily or even hourly as new information becomes available. Digital supply networks now generate virtual simulations of physical operations, allowing planners to test decisions before implementation (Dave Food). The business value delivered by modern IBP platforms extends throughout the organization. Strategic leadership gains visibility into how operational decisions impact financial performance, while frontline managers understand how their daily choices support broader company objectives (Arora, P. 2022). During volatile periods, these systems enable rapid scenario evaluation across operational, commercial, and financial dimensions simultaneously. Cross-functional teams collaborate through shared digital workspaces that break down traditional information barriers (Dave Food). Perhaps most importantly, organizations develop

the ability to sense early warning signals and adjust course before competitors can respond. This evolution transforms supply chain planning from

an administrative requirement into a genuine competitive advantage that drives business performance.

Table 1: Evolution of Supply Chain Planning Approaches (Arora, P. 2022; Dave Food)

Time Period	Key Development	Impact Metric	Industry Adoption Rate
1980-1985	Material Requirements Planning (MRP)	32% inventory reduction	17% of manufacturers
1990-1995	Enterprise Resource Planning (ERP)	24% planning cycle time reduction	38% of global enterprises
2000-2005	First-generation IBP	45% forecast accuracy improvement	12% of Fortune 500 companies
2010-2015	Cloud-based planning platforms	61% reduction in planning cycle time	27% of large enterprises
2020-2025	AI-enhanced IBP solutions	78% scenario modeling speed increase	53% of industry leaders
2023-Present	Digital twin supply networks	83% faster disruption response time	22% implementation rate

THEORETICAL FOUNDATIONS OF INTEGRATED PLANNING FRAMEWORKS

The conceptual base supporting Integrated Business Planning comes from several management fields that have developed through years of organizational practice. Cross-functional thinking gained attention when business experts noticed problems with department isolation during the 1980s. This perspective highlighted how walls between business units create knowledge gaps and delay decisions, hurting company results. Researchers discovered that uncertain business conditions require stronger connections between specialized teams. Their key findings showed that successful companies build specific tools to work as one while keeping necessary expertise in each area (IBP, 2023). This helps explain why disconnected planning creates poor outcomes despite having talented people in individual departments.

The need to connect extends outside company boundaries to include suppliers and customers throughout the value chain. Current thinking recognizes that planning must link material sources and customer needs to create coordinated market responses. The strength of these connections directly impacts how well operations perform, particularly when disruptions occur. Businesses using formal connection methods achieve better results than those relying on casual coordination. These formal methods include structured information sharing, aligned performance measures, and joint planning sessions

that create visibility across traditional company boundaries (Spooner, M. 2024).

Technology supporting integrated planning has transformed from simple information systems to sophisticated platforms handling complex business scenarios. Early systems mainly looked at past data with little ability to predict future needs. Current technologies use advanced computing to both forecast trends and suggest optimal actions (IBP, 2023). This shift represents a fundamental change from systems that simply process information to platforms that enhance human decision-making. As these technologies advanced, planning approaches became more sophisticated, evolving from basic forecasting to comprehensive business planning, connecting money, operations, and sales considerations.

Developmental frameworks provide structured ways to evaluate planning capabilities and create improvement roadmaps. Industry experts have created stage-based models showing progress from reactive to proactive, orchestrated, and finally intelligent planning capabilities. Moving through these stages requires improvements in processes, organization, and technology working together. Various business researchers offer frameworks establishing benchmarks for measuring planning improvement (Spooner, M. 2024). These models show that mature integrated planning requires synchronized advancement across multiple areas rather than just implementing new software.

These theoretical foundations collectively show that planning integration delivers business value by speeding up information flow, improving

decisions through diverse input, and creating flexible response systems for changing conditions (IBP, 2023). These benefits become most obvious during market disruptions when integrated companies consistently outperform those with

fragmented planning approaches (Spooner, M. 2024). The theoretical understanding continues to develop as organizations implement increasingly sophisticated systems that challenge traditional organizational structures.

Table 2: Maturity Model for Integrated Business Planning Capabilities (IBP, 2023; Spooner, M. 2024)

Maturity Level	Process Characteristics	Technology Enablers	Organizational Elements	Planning Outcomes
Level 1: Reactive	Siloed planning activities	Disconnected spreadsheets and basic ERP	Functional leadership with limited collaboration	35% forecast accuracy, 8-week planning cycles
Level 2: Anticipatory	Cross-functional planning meetings	Specialized planning tools with manual integration	Defined cross-functional teams with scheduled interactions	57% forecast accuracy, 4-week planning cycles
Level 3: Integrated	Synchronized planning processes	Unified planning platforms with automated data flows	Dedicated IBP roles and formal governance structure	72% forecast accuracy, 2-week planning cycles
Level 4: Intelligent	Continuous planning capabilities	AI-augmented planning with prescriptive analytics	Enterprise-wide planning culture with aligned incentives	89% forecast accuracy, continuous planning cycles
Level 5: Autonomous	Self-adjusting planning networks	Cognitive computing with minimal human intervention	Organizational boundaries redefined around value streams	94% forecast accuracy, real-time adjustment capabilities

CORE COMPONENTS OF ADVANCED IBP PLATFORMS

Contemporary planning platforms incorporate sophisticated functional elements operating within unified frameworks that orchestrate decision processes across organizational territories. These systems transcend conventional planning divisions by establishing synchronized environments addressing supply network complexities from customer demand through physical delivery. The modular construction permits phased implementation approaches while preserving integrated functionality, enabling businesses to sequence capability deployment based on specific operational priorities (Teneva, M. & Zhelyazkova, K. 2025). Despite technical variations between commercial solutions, several fundamental building blocks consistently appear within mature planning platforms, establishing essential capabilities necessary for comprehensive process integration.

Information consolidation architectures provide critical foundations for synchronized planning environments, combining disparate data streams into coherent decision contexts. These frameworks harmonize elements from diverse origins—operational systems, market indicators, partner signals, and organizational structures—creating

comprehensive visibility spanning end-to-end supply networks. Sophisticated implementations incorporate both structured performance data and unstructured contextual insights, enriching quantitative figures with qualitative perspectives explaining numerical patterns. Continuous integration mechanisms establish uninterrupted information exchanges between planning frameworks and execution systems, maintaining alignment between planning parameters and operational realities (Montanari, S. 2024). This bidirectional synchronization transforms planning from calendar-driven exercises into continuous adjustment processes responding to performance variations while preserving strategic direction.

Predictive algorithms represent significant evolution within forecasting components, surpassing traditional statistical techniques through recognition capabilities that identify complex relationships within temporal data. These computational methods automatically detect cyclical patterns, directional shifts, promotional impacts, and external correlations without manual model specification. Learning techniques leverage confirmed outcome data to continuously improve predictive precision through automated feedback cycles (Teneva, M. & Zhelyazkova, K. 2025). Decomposition approaches separate baseline

demand patterns from promotional effects, product introductions, and extraordinary events, enabling sophisticated forecast construction reflecting multiple causal factors. Combined prediction methods integrate various algorithmic techniques, weighted according to demonstrated accuracy within specific product categories. The resulting prediction improvements directly enhance subsequent planning processes dependent upon demand projections, generating multiplied benefits throughout decision ecosystems.

Stock optimization components establish methodical approaches, balancing inventory investments against service commitments across distribution networks. Multi-location optimization capabilities recognize interdependencies between inventory positions at different network points, enabling coordinated stocking strategies that minimize total investment while fulfilling service promises (Montanari, S. 2024). Adaptive safety calculations continuously recalibrate protection levels reflecting demand variability, supply reliability, and performance requirements. Classification frameworks establish differentiated stocking strategies aligned with product attributes and market expectations rather than applying uniform approaches across diverse portfolios. Replenishment mechanisms incorporate limitations, including production capacities, transportation constraints, and financial parameters, when generating order recommendations, ensuring executable planning

outputs rather than theoretical ideals requiring manual intervention.

Network modeling capabilities establish digital representations of production and distribution systems, enabling scenario evaluation and boundary-conscious planning. These models incorporate capacity limitations, resource requirements, cost structures, and timing parameters defining feasible operational boundaries (Teneva, M. & Zhelyazkova, K. 2025). Constraint identification functionality recognizes limiting factors affecting plan execution while proposing mitigation strategies when requirements exceed available capacities. Alternative scenario capabilities allow planners to evaluate different approaches before selecting specific pathways, quantifying potential outcomes across performance indicators. Exception identification frameworks automatically highlight planning conditions requiring intervention, focusing limited planning resources on critical decision points rather than routine transactions. Advanced platforms maintain continuous alignment between digital models and physical operations through automated synchronization mechanisms that detect configuration changes and update representations accordingly (Montanari, S. 2024). This alignment ensures planning decisions reflect current operational conditions rather than outdated assumptions, potentially leading to unworkable recommendations.

Table 3: Evolution of Machine Learning Algorithms in Demand Forecasting (Teneva, M. & Zhelyazkova, K. 2025; Montanari, S. 2024)

Algorithm Type	Primary Application	Accuracy Improvement	Implementation Complexity	Data Requirements
Time Series Decomposition	Seasonal Pattern Detection	15-25%	Low	12-24 Months Historical
Multiple Regression	Promotional Impact Modeling	20-35%	Medium	18-36 Months Historical
Classification Trees	Product Segmentation	10-20%	Low	6-12 Months Historical
Neural Networks	Complex Pattern Recognition	25-40%	High	24+ Months Historical
Random Forest	External Factor Correlation	15-30%	Medium	12+ Months Historical
Gradient Boosting	New Product Forecasting	30-45%	High	Similar Product History
Long Short-Term Memory	Intermittent Demand	35-50%	Very High	24+ Months Historical
Prophet Algorithm	Trend Change Detection	20-30%	Medium	18+ Months Historical
Ensemble Methods	Cross-Category Forecasting	25-45%	High	Varied by Implementation

Bayesian Networks	Causal Factor Modeling	30-40%	High	Multiple Data Sources
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BRIDGING OPERATIONAL AND STRATEGIC DECISION DOMAINS

Organizations historically struggle with connecting daily operations to long-range business goals. Most companies maintain entirely separate planning processes—weekly production scheduling occurs independently from annual strategic planning exercises. This division creates situations where short-term decisions frequently work against long-term company priorities. Modern IBP systems tackle this problem by building direct connections between different planning timeframes. Instead of maintaining isolated planning activities, these platforms create clear linkages showing how production choices impact quarterly targets and strategic initiatives. This connected approach ensures that manufacturing and logistics decisions actively support company-wide objectives rather than pursuing conflicting targets (Niels, 2015).

The financial dimension provides crucial measurements that connect operational activities to strategic outcomes. Traditional approaches typically keep financial projections separate from supply chain plans, resulting in parallel processes that rarely match in practice. Current IBP technologies embed financial calculations directly within operational planning screens, giving managers immediate visibility into how scheduling decisions affect profit margins. This capability transforms decision-making by showing precise financial impacts of inventory strategies, production batch sizes, and transportation choices. Financial departments gain substantially improved forecasting ability based on detailed operational plans rather than simplified estimates disconnected from actual supply capabilities (Niels, 2015).

Market uncertainty demands the ability to quickly evaluate multiple potential business directions. Older planning methods typically produced single forecasts with minimal flexibility to assess alternatives. Today's IBP platforms enable planners to create and compare multiple scenarios across both operational details and financial results, helping companies determine optimal responses to changing conditions. These tools prove especially valuable during supply disruptions when rapid assessment of options determines which companies succeed. Forward-looking businesses build libraries of pre-configured scenarios addressing common market

shifts, allowing faster response when disruptions occur. The capability to swiftly model alternatives across both tactical details and strategic implications creates business flexibility impossible with traditional planning methods (Niels, 2015).

Connecting operational and strategic planning delivers concrete business improvements through several pathways. Enterprises implementing unified planning architectures demonstrate notable enhancements in prediction reliability, inventory efficiency, and client experience metrics.

IMPLEMENTATION FRAMEWORKS AND SUCCESS FACTORS

Organizations contemplating integrated business planning transitions must establish structured implementation methodologies addressing both technical and organizational dimensions. Successful implementations recognize that technology deployment represents only partial transformation requirements, with organizational adaptation frequently determining ultimate success levels. Implementation frameworks provide systematic approaches for navigating complex transitions while maintaining operational continuity throughout transformation sequences (Niels, 2015). These frameworks establish clear progression paths from current operational models toward integrated planning environments, creating measurable milestones that sustain implementation momentum across extended timelines. By decomposing comprehensive transformations into manageable components, organizations reduce implementation risks while accelerating value realization through incremental capability deployment rather than awaiting complete implementation.

Institutional readiness evaluation constitutes a critical preliminary phase, establishing a baseline understanding regarding organizational capabilities, process maturity, and technology foundations relevant to integration initiatives. These assessments examine current planning processes, identifying fragmentation points, redundant activities, and coordination gaps addressed through integration efforts. Data quality evaluations determine whether existing information assets provide a sufficient foundation for integrated planning functions or require remediation before supporting advanced capabilities. Governance structure assessments identify decision authority patterns, determining

whether existing frameworks support cross-functional decision processes required within integrated environments. Skills assessments evaluate whether current personnel possess capabilities necessary for operating within integrated planning contexts or require development interventions addressing capability gaps (Dumitrescu, E. *et al.*, 2022). Technology infrastructure evaluations determine whether existing systems provide adequate foundations for integration initiatives or require enhancement, addressing performance, scalability, or integration limitations. Comprehensive readiness findings establish realistic implementation expectations while identifying specific preparation requirements addressing organizational limitations before initiating transformation activities.

Behavioral adaptation frameworks establish systematic approaches for managing organizational transitions accompanying technological implementations. These frameworks recognize that process changes, responsibility redistributions, and decision model modifications frequently generate resistance without appropriate change management interventions.

Executive sponsorship mechanisms establish leadership support essential for resolving cross-functional conflicts inevitably arising during boundary-spanning implementations (Niels, 2015). Performance measurement frameworks track adoption progress beyond technical deployment, ensuring organizations achieve behavioral changes necessary for realizing integration benefits rather than reverting to previous operational patterns despite technology availability.

Technology selection methodologies establish systematic evaluation approaches, ensuring selected platforms align with organizational requirements while providing sustainable foundations for future capability expansion. These methodologies balance immediate functional requirements against strategic considerations, including vendor stability, technology direction, and ecosystem viability affecting long-term implementation success. Integration architecture decisions determine whether organizations implement comprehensive platforms from single providers or integrate specialized components from multiple vendors based on specific capability requirements. Implementation phasing strategies establish deployment sequences prioritizing high-value capabilities, addressing critical business requirements, while managing implementation complexity. Legacy system transition approaches

determine whether organizations maintain existing systems operating alongside new capabilities or execute comprehensive replacements based on system limitations and organizational readiness (Dumitrescu, E. *et al.*, 2022). Data migration strategies establish mechanisms for transferring historical information into new planning environments while maintaining data integrity throughout transition processes. These technology considerations significantly influence implementation complexity, timeframes, and resource requirements, determining whether organizations achieve sustainable planning transformations or create fragmented environments failing to deliver integration benefits.

MEASURABLE BUSINESS OUTCOMES AND PERFORMANCE METRICS

Companies adopting sophisticated IBP frameworks report meaningful performance gains in several key areas. The duration of the planning process shrinks dramatically, with top performers converting month-long cycles into week-long activities through streamlined data flows and standardized procedures. This efficiency allows for more frequent plan adjustments, creating responsive networks that adapt quickly to shifting market needs. Prediction quality rises substantially with IBP maturity as team collaboration and enhanced modeling eliminate traditional forecasting weaknesses (Integrated Business Planning). These accuracy improvements directly affect inventory performance, with mature programs achieving stock reductions while maintaining customer service targets. Financial benefits appear through better cash utilization, lower emergency shipping expenses, and improved sales capture during product shortages. Notably, organizations develop new measurements to track their capability to rapidly assess alternatives and implement strategic shifts. These metrics reflect how successfully companies convert high-level strategy into practical execution—an increasingly valuable skill in today's volatile business landscape and competitive markets.

PROGRESSIVE DEVELOPMENTS AND STRATEGIC IMPERATIVES

The evolution of IBP technology continues to reshape organizational decision frameworks with each passing quarter. Planning tools now break past conventional boundaries, merging analytics with practical modeling in ways that deliver tangible business value. Systems increasingly handle complex calculations without constant

oversight, suggesting future versions will autonomously adjust to changing market dynamics (Moore, C. 2025).

When day-to-day operations align perfectly with long-term goals through these platforms, companies overcome execution barriers that plagued earlier approaches. Businesses using comprehensive planning tools navigate uncertainty with greater confidence, bouncing back faster from supply disruptions while pivoting business models when opportunities arise.

Unifying previously siloed planning activities creates efficiency while enabling deeper scenario analysis. Organizations embracing these integrated methods secure lasting advantages through planning capabilities spanning all timeframes - from immediate needs to strategic horizons. This synchronization builds adaptability essential for navigating today's interconnected commercial landscape, where change happens faster than ever before.

Table 4: Strategic Benefits and Implementation Considerations of Next-Generation IBP Platforms (Moore, C. 2025)

Dimension	Current Capability	Future Trajectory	Strategic Implication
Decision Autonomy	Semi-automated decision support with human oversight	AI-driven autonomous optimization within defined parameters	Faster response times to market signals with reduced manual intervention
Planning Horizon Integration	Synchronized short and mid-term planning cycles	Seamless integration across operational, tactical, and strategic horizons	Elimination of planning silos and improved strategic-operational alignment
Cross-functional Collaboration	Structured collaboration through defined workflows	Dynamic, real-time collaborative decision processes	Enhanced organizational agility and reduced decision latency
Data Utilization	Structured data integration from multiple systems	Intelligent pattern recognition across structured and unstructured data	More accurate forecasting and proactive risk identification
Scenario Planning	Limited what-if scenario modeling	Continuous multi-dimensional scenario evaluation	Improved strategic optionality and disruption readiness
User Experience	Role-based interfaces with moderate complexity	Intuitive, adaptive interfaces with personalized insights	Broader adoption across organizational layers and improved decision quality
Implementation Approach	Technology-first implementations	Balanced technology and organizational change management	Higher success rates and accelerated value realization
Value Measurement	Process efficiency metrics	End-to-end business outcome measurement	Clear demonstration of strategic impact and investment justification
Risk Management	Reactive risk identification	Proactive risk sensing and mitigation planning	Reduced impact from supply chain disruptions and market volatility
Competitive Advantage	Operational efficiency gains	Strategic differentiation through superior responsiveness	Sustainable market leadership and business model innovation

CONCLUSION

Comprehensive Business Planning systems profoundly revolutionize supply network administration by connecting operational and executive domains through consolidated planning infrastructures. The progression from disjointed planning functions toward integrated frameworks allows corporations to harmonize practical

execution with strategic vision. Documented results reveal considerable performance gains across numerous parameters—planning interval reduction, prediction quality improvement, and inventory efficiency. Forward-thinking enterprises deploying these platforms demonstrate enhanced flexibility during disruption. Progressive organizations implementing these integrated

systems exhibit superior resilience during unexpected events and elevated ability for directional pivots. The evolution of underlying technologies points toward continuous advancement in self-regulating coordination frameworks able to independently refine operations within established parameters. Effective deployment requires corporate preparedness evaluation, stakeholder coordination, and calibrated technological integration. The most significant advantages emerge when organizations simultaneously address both technological and organizational transformation aspects. Multifunctional coordination remains essential to value maximization, necessitating purposeful governance frameworks and redefined responsibilities. Information integrity emerges as a decisive success element, requiring dedicated initiatives to ensure planning validity. Computational transparency becomes progressively crucial as decision authority shifts toward automated systems. By adopting these comprehensive planning methodologies, corporations establish themselves for enduring competitive advantage through superior adaptability, functional efficiency, and strategic implementation across increasingly sophisticated global distribution networks. The synchronization of planning activities across temporal horizons generates unparalleled organizational intelligence and adaptive potential.

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