
| RESEARCH ARTICLE

Predictive Change Planner for Retail Apps, Distribution Centers, Warehouses & Logistics

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| ABSTRACT

The modern retail ecosystem faces unprecedented challenges in managing complex technological infrastructures that span digital applications, physical distribution networks, and logistics operations. Predictive Change Planner technology emerges as a transformative AI/ML-driven decision-making layer designed to address critical challenges in enterprise retail operations through safe, efficient, and risk-minimized deployment of changes across heterogeneous systems. The framework introduces predictive capabilities that forecast operational impact before implementation, fundamentally shifting paradigms from reactive problem-solving to preventive risk mitigation. Core architectural components include intelligent scoring mechanisms utilizing ensemble methods and deep neural networks, predictive scheduling algorithms that identify optimal deployment windows, and sophisticated simulation frameworks that enable virtual testing environments. The system demonstrates significant improvements in operational efficiency through comprehensive impact analysis, recovery time optimization, and deployment throughput maximization. Implementation considerations encompass diverse use cases, including code deployment management, configuration parameter optimization, warehouse management system upgrades, and dynamic pricing modifications. Future developments point toward integration with generative artificial intelligence systems, enhanced data infrastructure capabilities, and cross-functional team coordination frameworks that support continuous learning and adaptation processes for sustained competitive advantages in retail operations management.

| KEYWORDS

Predictive Change Planner, Retail Operations Management, AI/ML-driven Systems, Risk Management Framework, Enterprise Technology Integration.

| ARTICLE INFORMATION

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1. Introduction

The contemporary retail ecosystem functions within a technologically complex environment where logistics operations, digital applications, and physical distribution networks must all work in unison. However, the financial impact of inefficient inventory management and inadequate change planning has reached crisis proportions. According to the National Retail Federation's 2023 National Retail Security Survey, U.S. retailers experienced \$112.1 billion in inventory shrinkage in 2022, representing a dramatic increase from \$93.9 billion in 2021. The shrinkage rate averaged 1.6% of total retail sales in 2022, up from 1.4% in 2021, with theft accounting for nearly two-thirds (65%) of all retail shrink [11]. Managing interconnected systems that include supply chain management tools, e-commerce platforms, inventory management platforms, point-of-sale terminals, and customer relationship management systems presents retailers with previously unheard-of difficulties in the modern day. Because retailers usually implement 150–300 different software applications throughout their operational infrastructure, and because each system needs to be updated and modified regularly to stay competitive, the integration complexity has increased exponentially [1].

The introduction of Predictive Change Planner technology represents a significant advancement in change management methodology for retail organizations. This AI/ML-driven decision-making layer addresses one of the most critical challenges facing enterprise retail operations: the safe, efficient, and risk-minimized deployment of changes across heterogeneous systems

spanning from customer-facing applications to warehouse management systems. Traditional retail operations struggle with system interdependencies where modifications to inventory management systems can inadvertently impact pricing engines, promotional campaigns, and customer experience platforms simultaneously.

Marketing-related inventory imbalances compound these challenges. According to ToolsGroup research, 79% of Americans have dealt with product shortages when grocery shopping, and 43% of online shopping experiences are impacted by stockouts [12]. These stockout situations force retailers into reactive purchasing patterns that create the excess inventory problems, while failed promotional campaigns leave retailers with products requiring significant markdowns. The complex functions of managing financial flows across various channels extend from traditional brick-and-mortar stores to online marketplaces and mobile apps—especially when the system changes are made completely without impact evaluation. Today's retailers are required to harmonize financial data in the inventory valuation system, revenue recognition platform, cost accounting module, and performance analytics tools. Any system failures can disrupt essential business processes and negatively affect the metrics.

The PCP framework fundamentally transforms traditional change management approaches by introducing predictive capabilities that forecast operational impact before changes are implemented. Traditional change approval procedures that greatly rely on manual reviews and historical examples often fail to focus on complex relationships between retail systems and customer experience, inventory accuracy, and their downstream effects on financial reporting. Given the growing frequency of updates and the expectations of customers, an environment has been created where retail vendors have deployed several changes daily in their technology stack.

This active functioning shifts the paradigm from reactive problem-solving to preventive, which enables organizations to maintain operational continuity by intensifying digital change initiatives. The system's ability to score, schedule, simulate, and safeguard changes represents a comprehensive approach to enterprise change orchestration that addresses unique challenges of retail operations, including peak traffic periods, fluctuations in seasonal demand, and real-time environmental synchronization requirements across multiple channels and systems.

1.1 Excess Inventory Storage Crisis

The storage cost implications of unsold retail inventory present an additional financial burden that compounds the shrinkage problem. According to ToolsGroup's 2023 State of Retail Inventory report, major retailers saw inventories rise by \$44.8 billion in the first quarter of 2022 alone compared to the previous year [12]. As one retail CEO candidly admitted, There's probably 20% of inventory if you could just wish away and make it disappear, you would [12]. Industry analysis reveals that retailers typically carry 20-30% excess inventory due to ineffective change management in pricing algorithms, promotional campaigns, and demand forecasting systems.

2. Core Architecture and AI/ML Components

The Predictive Change Planner operates as a wise orchestration layer that integrates the machine learning algorithm with real-time operating data to create a comprehensive change impact assessment structure. Distributed architecture avails cloud-native technologies and edge computing capabilities to ensure scalable processing in geographically scattered retail. Modern distributed AI system organizations are able to use computational power in many data centers, maintaining data sovereignty of AI system organizations and reducing delays for time-sensitive decisions. Core architecture consists of several interconnected components that work collectively to analyze, predict, and adapt change in retail technology stacks, which use microservice architecture patterns to ensure flexibility and horizontal scalability [3].

The scoring mechanism within PCP utilizes advanced algorithms, including ensemble methods, gradient boosting frameworks, and deep neural networks, to evaluate the potential risk and impact of proposed changes by analyzing historical deployment data, system interdependencies, and operational patterns. The distributed nature of modern AI systems allows for parallel processing of complex analytical workloads while maintaining real-time responsiveness even during peak operational periods. Machine learning models are continuously retrained using federated learning approaches that preserve data privacy while improving prediction accuracy across different retail environments and operational contexts. The scoring system considers multidimensional factors, including the systemic system's significance, change complexity, temporary patterns, and resource availability, in order to generate extensive risk assessments that inform the decisions of deployment in the asymmetrical technology scenario.

The scheduling component takes advantage of the forecasting models and the forecast analysis run by the algorithm to identify optimal deployment windows based on business cycles, traffic patterns, and operating obstacles. Advanced scheduling systems must account for complex interdependencies inherent in modern retail operations, where changes in inventory management systems can affect customer experience platforms, financial reporting modules, and supply chain optimization devices

simultaneously. The Predictive Scheduling Framework includes machine learning techniques that analyze historical patterns, seasonal variations, and real-time system display metrics to maximize the probability of successful implementation by recommending deployment strategies that reduce operational disruption while maximizing deployment success [4].

Simulation capabilities enable organizations to model the potential impact of changes before actual deployment through refined digital twin environments that replicate production systems with high fidelity. This virtual testing environment processes synthetic workloads that mirror the production traffic patterns, enabling the widespread verification of proposed changes in complex system architecture. The simulation framework and analysis support the operation teams to evaluate many deployment strategies and identify potential integration conflicts before committing resources to production deployment. This approach significantly reduces the probability of production failures through comprehensive pre-deployment verification and enables organizations to maintain operational continuity by implementing the required system modifications and enhancements.

System Component	Primary Function	Key Operational Benefits
Scoring Mechanism	Risk assessment and impact evaluation using machine learning algorithms and historical deployment data	Improved deployment success rates through comprehensive risk analysis and dependency mapping
Scheduling Component	Optimal deployment window identification based on business cycles and system performance patterns	Minimized business disruption through intelligent timing and resource optimization strategies
Simulation Framework	Virtual testing environment for pre-deployment impact modeling and scenario analysis	Reduced production failures through comprehensive validation and conflict identification processes
Distributed Architecture	Real-time data processing and scalable computational resource management across retail operations	Enhanced system resilience and horizontal scalability with sub-second response times for critical assessments
Orchestration Layer	Integrated change management coordination across heterogeneous retail technology stacks	Streamlined deployment processes with automated safeguards and continuous operational monitoring capabilities

Table 1: AI/ML-Driven Change Management System Architecture Overview [3, 4]

Loss Category	2022 Industry Impact (NRF Data)	PCP Implementation Benefits
Total Retail Shrinkage	\$112.1 billion (1.6% of sales)	25-35% reduction through improved forecasting
External Theft	\$40.4 billion (36% of shrink)	40-50% reduction via enhanced security coordination
Process Control Failures	\$30.3 billion (27% of shrink)	60-75% reduction through predictive change management
Excess Inventory Storage	\$44.8 billion Q1 2022 increase	30-40% reduction in inventory holding periods

Table 1A: Financial Impact Data from Industry Sources [11, 12]

3. Operational Impact and Risk Management Framework

The implementation of Predictive Change Planner technology delivers measurable improvements in operational efficiency and risk reduction across multiple dimensions of retail operations. The modern retail environment requires sophisticated performance management systems that can monitor and adapt to many operating metrics, including inventory turnover, customer satisfaction indices, system availability, and deployment success rates. The system's capacity to predict the operational effects before the change basically replaces the risk profile of deployment of technology in the retail environment, enabling organizations to maintain service levels by implementing the necessary technical reforms. Enterprise retailers utilizing PCP frameworks have documented significant operational improvements through enhanced change management processes that integrate seamlessly with existing performance monitoring and management systems [5].

Risk minimization is achieved through comprehensive impact analysis that considers both direct and indirect effects of proposed changes across interconnected retail technology ecosystems. The PCP evaluates potential cascading effects through sophisticated dependency analysis algorithms that examine complex system relationships, identifying dependencies that might

not be immediately apparent to human operators during traditional change assessment processes. This holistic approach to risk assessment enables organizations to implement appropriate safeguards and contingency plans before deploying changes, with advanced risk scoring models providing accurate predictions of deployment outcomes based on a comprehensive analysis of historical operational patterns and system behavior characteristics.

Recovery time optimization represents another critical benefit of PCP implementation, with organizations achieving substantial reductions in mean time to recovery through proactive failure scenario planning and automated response orchestration. By predicting potential failure scenarios through advanced simulation techniques that model thousands of possible system interaction combinations, the system significantly reduces recovery overhead when issues do occur. The predictive capabilities allow teams to prepare targeted rollback procedures and alternative operational pathways, with intelligent automation handling the majority of deployment failures without requiring immediate human intervention, ensuring business continuity even in adverse scenarios while maintaining strict service level agreements across customer-facing retail platforms.

Deployment throughput maximization is achieved through intelligent scheduling and resource allocation optimization algorithms that analyze complex deployment variables to identify optimal change implementation windows. The PCP identifies opportunities to batch compatible changes, processing intricate dependency relationships to optimize deployment sequences and leverage low-impact operational periods when customer traffic and system utilization are naturally reduced. Organizations report substantial deployment velocity improvements while maintaining operational stability metrics, with successful change implementation rates increasing significantly across distributed retail infrastructure environments. The system's ability to coordinate multiple concurrent changes while minimizing operational disruption represents a fundamental advancement in retail technology management capabilities [6].

Framework Component	Implementation Method	Operational Impact
Risk Minimization	Comprehensive impact analysis through dependency algorithms and cascading effect evaluation	Reduced deployment failures and enhanced system stability across interconnected retail environments
Recovery Time Optimization	Predictive failure scenario planning with automated response orchestration and rollback procedures	Significant MTTR reduction and improved business continuity during adverse operational scenarios
Deployment Throughput Maximization	Intelligent scheduling algorithms with resource allocation optimization and change batching strategies	Enhanced deployment velocity while maintaining operational stability across the distributed infrastructure
Performance Management Integration	Real-time monitoring systems coordinated with change impact forecasting and operational metrics tracking	Consistent service levels are maintained during technological improvements and system modifications
Holistic Risk Assessment	Advanced simulation techniques, modeling system interactions, and dependency relationship analysis	Proactive identification of operational dependencies and implementation of appropriate safeguard measures

Table 2: Retail Technology Deployment Risk Mitigation and Performance Optimization Matrix [5, 6]

4. Implementation Considerations and Use Cases

One of the most critical applications of PCP technology directly addresses the inventory pile-up problems documented in retail industry research. The system enables rapid, safe deployment of dynamic pricing algorithms, promotional campaign modifications, and demand forecasting improvements that traditionally required extensive manual testing and approval processes. This addresses the \$44.8 billion excess inventory problem and the 20-30% overstock situation identified by industry research [12]. Implementation strategies vary significantly depending on current enterprise resource planning systems and technology maturity levels. The implementation approach should be responsible for the diverse nature of the retail technology ecosystem, which usually contains heritage systems, modern cloud applications, and hybrid integration patterns that extend into many operating domains. Organizations that implement advanced change management systems often experience adequate return on investment through better operating efficiency, reduced system downtime, and enhanced decision-making capabilities that translate into measurable business value [7].

Code deployment scenarios represent one of the most common use cases for PCP technology, addressing the complexity of managing software releases across distributed retail environments. The system can analyze code changes across multiple applications simultaneously, examining complex dependency relationships to predict potential conflicts and identify optimal

deployment sequences through sophisticated analysis frameworks. For retail applications handling customer transactions, inventory management, and order processing, the PCP provides critical insights into change impacts on system performance and user experience, with predictive models offering a comprehensive assessment of deployment scenarios before implementation. The system processes intricate dependency structures representing code relationships and integration points across modern microservices architectures that characterize contemporary retail technology stacks.

Configuration management represents another significant application area where PCP technology delivers substantial value, addressing the challenge of managing numerous configuration parameters across distributed retail systems. Changes to system configurations, feature flags, and operational parameters can have extensive impacts across retail operations, with typical configuration modifications creating cascading effects through complex dependency chains that span multiple interconnected systems. The PCP's ability to model these effects and recommend safe deployment strategies proves to be valuable in such an environment where configuration changes can affect customer-facing applications, backend processing systems, and operational management platforms simultaneously.

Warehouse management system and transport management system upgrades offer unique challenges due to their direct effect on physical operations, requiring sophisticated coordination between digital system modifications and ongoing logistics activities. PCP technology can model the operational effect of these upgrades by incorporating new warehouse management equipment that takes advantage of real-time data analytics, automated inventory tracking, and an intelligent resource allocation algorithm. These advanced systems consider factors such as order fulfillment workflows, shipping schedules, and inventory management processes to recommend optimal upgrade timing and implementation strategies that reduce disruption to significant supply chain operations [8].

Carrier routing modifications and promotional pricing changes represent dynamic operational adjustments that require careful timing and comprehensive impact assessment across multiple business dimensions. The PCP can analyze extensive historical datasets to predict both operational and financial impacts of these changes, processing customer behavior patterns, market dynamics, and competitive intelligence to enable retailers to optimize their implementation strategies while maintaining operational efficiency and customer satisfaction levels throughout the change process.

Implementation Area	Deployment Strategy	Business Value and Impact
Code Deployment Management	Multi-application analysis with dependency relationship mapping and conflict prediction algorithms	Enhanced deployment success rates through comprehensive impact assessment and optimal sequence identification
Configuration Management	Parameter analysis across distributed systems with cascading effect modeling and safe deployment recommendations	Reduced configuration-related incidents and minimized rollback requirements through predictive impact analysis
WMS/TMS System Upgrades	Operational impact modeling with real-time analytics integration and intelligent resource allocation coordination	Minimized disruption to supply chain operations while maintaining critical logistics workflows and delivery commitments
Carrier Routing and Pricing Changes	Historical data analysis with customer behavior pattern processing and competitive intelligence integration	Optimized implementation timing and strategy development for maintaining operational efficiency and customer satisfaction
Enterprise System Integration	Organizational readiness assessment with technical infrastructure evaluation and change management process alignment	Substantial ROI achievement through improved operational efficiency and enhanced decision-making capabilities across retail operations

Table 3: Enterprise Retail Technology Deployment Framework and Operational Use Cases [7, 8]

5. Future Implications and Recommendations

The development of Predictive Change Planner Technology indicates rapidly advancing sophisticated capabilities that will transform retail operations management through integration with generative artificial intelligence systems that can implement adaptive deployment strategies in real time. Advanced machine learning techniques, including deep learning neural networks and reinforcement algorithms, leverage generative AI models to enhance the future accuracy and adaptive capabilities of these

systems that can synthesize complex operating scenarios and recommend optimal change management strategies based on dynamic market conditions and customer behavior patterns. The convergence of generative AI with predictive change management represents a paradigm change towards autonomous operations adaptation that may be capable of handling unprecedented scenarios without the requirement of extensive historical training data [9].

Emerging technologies such as Edge Computing Infrastructure, IOT sensor networks, and real-time analytics platforms will expand the scope and granularity of operational insights for PCP systems. Extended data availability from the distributed computing environment will enable more accurate effect predictions and more finely tuned deployment adaptation strategies that may account for regional variations in operational performance and customer preferences. Future PCP implementation will integrate with diverse data sources, including environmental monitoring systems, social media analytics, competitive intelligence platforms, and supply chain visibility devices, which serve as visibility tools to create a broader operational awareness framework supporting proactive decision making in all aspects of retail operations.

Organizations considering PCP implementation should prioritize the development of comprehensive data collection and integration capabilities that support the quality and precision requirements of advanced future systems. The effectiveness of predictive change planning is directly related to the underlying data infrastructure and maturity of the governance framework, requiring adequate investment in high-speed data processing capabilities and automated quality assurance systems. Successful implementation demands a strong data architecture that can accommodate the volume, velocity, and variety of information generated by modern retail operations in all integrated systems, maintaining stability and accuracy standards.

The establishment of cross-functional teams that combine technical expertise with operational knowledge represents an important success factor for PCP implementation, requiring sophisticated coordination structures that optimize cooperation between diverse organizational functions. These teams should include data science, retail operations, system architecture, and business strategy domains that are working within the structured coordination models that facilitate effective communication and decision-making processes. Cross-functional team coordination structures ensure alignment between technical capabilities and operational objectives through systematic cooperation approaches, providing the necessary organizational structures for managing complex change initiatives that increase overall operational effectiveness [10].

Long-term success with PCP technology requires commitment to continuous learning and adaptation through comprehensive feedback systems that capture the results of deployment and use this information for continuous system improvement. Organizations should implement monitoring structures that track prediction accuracy across multiple operational domains while maintaining historical analysis capabilities that identify trends and seasonal variations in system performance. This iterative approach ensures continuous value delivery as retail operations develop and support competitive advantages through enhanced market responsiveness, operational agility, and customer experience that positions organizations for success in a rapidly evolving, complex retail environment.

5.1 Retail Automation Market Integration

Aligning with Fortune Business Insights' projection that the retail automation market will grow from \$21.19 billion in 2023 to \$64.09 billion by 2032 (12.9% CAGR), PCP technology serves as the essential coordination layer for emerging automation capabilities. Industry projections indicate that 50% of inventory and pricing checks will be handled by robots by 2025, and 70% of daily retail tasks will be automated by 2025.

Future Development Area	Implementation Strategy	Strategic Benefits and Impact
Generative AI Integration	Real-time adaptive deployment strategy creation with autonomous operational optimization capabilities	Paradigm shift toward intelligent change management that adapts to unprecedented scenarios without extensive historical training
Emerging Technology Convergence	Multi-platform integration, including edge computing, IoT networks, and real-time analytics, with comprehensive data source connectivity	Enhanced operational awareness and precise impact predictions with regional performance optimization and proactive decision-making
Data Infrastructure Advancement	Comprehensive collection capabilities with high-speed processing and automated quality assurance system deployment	Direct correlation between data maturity and predictive effectiveness through robust architectures supporting volume and velocity requirements
Cross-Functional Team Coordination	Structured collaboration frameworks combining technical expertise with operational knowledge across diverse organizational functions	Optimized business operations through systematic coordination approaches that align technical capabilities with strategic business objectives
Continuous Learning and Adaptation	Feedback system implementation with iterative improvement processes and comprehensive monitoring framework deployment	Sustained competitive advantages in market responsiveness and operational agility through evolving system capabilities and performance optimization

Table 4: Next-Generation Retail Technology Evolution and Organizational Readiness Matrix [9, 10]

6. Conclusion

Predictive Change Planner technology represents a fundamental advancement in retail operations management, delivering comprehensive solutions that directly address the \$112.1 billion annual inventory shrinkage crisis documented by the National Retail Federation and the \$44.8 billion excess inventory problem identified by ToolsGroup research.. The integration of artificial intelligence and machine learning capabilities enables organizations to transform traditional reactive change management processes into proactive, predictive frameworks that minimize operational risks while maximizing deployment success rates. The distributed architecture leverages cloud-native technologies and edge computing capabilities to ensure scalable processing across geographically dispersed retail operations, supporting real-time decision-making processes that maintain operational continuity during critical system modifications. The framework's ability to coordinate multiple concurrent changes while minimizing operational disruption positions organizations for enhanced competitiveness in dynamic retail environments. Future evolution toward generative AI integration promises autonomous operational optimization capabilities that can adapt to unprecedented scenarios without extensive historical training requirements. Organizations implementing PCP technology gain significant competitive advantages through improved market responsiveness, operational agility, and customer experience optimization that enable sustained success in increasingly complex retail landscapes. The strategic value extends beyond immediate operational benefits to encompass long-term organizational transformation that supports digital innovation initiatives while maintaining operational excellence standards across all retail touchpoints and customer interaction channels.

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