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CONTENTS

RECONCEPTUALIZING HIGHER EDUCATION MARKETING IN THE ALGORITHMIC ERA: INSTITUTIONAL GENERATIVE AI AND MULTIDIMENSIONAL UNIVERSITY BRAND EQUITY	10
Nozima Zufarova	
DEVELOPMENT OF WAREHOUSE AND INVENTORY MANAGEMENT IN MANUFACTURING ENTERPRISES	16
Maxmidov Shirinboy Botirovich	
IMPROVING THE MECHANISM FOR ENHANCING THE POTENTIAL OF OIL AND GAS INDUSTRY ENTERPRISES IN UZBEKISTAN	25
Bekmuhamedova Malika Iskandarbekovna	
IMPROVING THE METHODOLOGY OF ARTIFICIAL INTELLIGENCE-BASED MARKETING DECISION-MAKING IN CONSTRUCTION MATERIALS MANUFACTURING ENTERPRISES	30
Uzakova Umida Ruzievna	
ORGANIZATIONAL AND ECONOMIC ASPECTS OF IMPROVING THE QUALITY OF DIGITAL SERVICES IN THE HIGHER EDUCATION SYSTEM	37
Berdiev Sunnatullo Alikulovich	
GLOBAL JUSTICE CODE AND GLOBAL JUSTICE INDEX: A CONCEPTUAL FRAMEWORK FOR GLOBAL GOVERNANCE AND SUSTAINABLE DEVELOPMENT	43
Alimov Nasimjon Hoshimovich	
IMPROVING THE MECHANISMS FOR MANAGING THE PROCESS OF DIVERSIFYING HOTEL SERVICES BASED ON INTERNATIONAL STANDARDS (USING THE FERGANA VALLEY AS AN EXAMPLE)	50
Sevarakhon Dehqonova Fatxitdin qizi	
DOES INVESTMENT SOURCE DIVERSIFICATION IMPROVE FARM PERFORMANCE? EVIDENCE FROM HORTICULTURAL PRODUCERS IN UZBEKISTAN	56
Jalilov Shohruh Zafar o'g'li	
SPECIFIC ASPECTS OF PREPARING AN AUDIT OPINION AND REPORT BASED ON ESG AUDIT RESULTS.....	65
Sayfullayev Mekhroj Sayfullayevich	
THE ROLE AND IMPORTANCE OF THE MULTIFACTOR DEVELOPMENT MODEL IN THE ECONOMIC DEVELOPMENT OF THE INDUSTRIAL SECTOR.....	70
Ne'matov Shokhrukhbek Ma'murjon o'g'li	
IMPROVEMENT OF ACCOUNTING AND AUDITING OF ENVIRONMENTAL ACTIVITIES IN BUILDING MATERIALS INDUSTRY ENTERPRISES	75
Mirzaev Komiljon Abdullajonovich	
THEORETICAL EVOLUTION OF COMPETITIVENESS AND ISSUES OF THE TERRITORIAL COMPETITIVENESS OF SMALL BUSINESSES.....	82
Mamatkulova Kh. N.	
СОВРЕМЕННОЕ СОСТОЯНИЕ И АНАЛИЗ ЭКОНОМИЧЕСКОГО ПОТЕНЦИАЛА АО «УЗБЕКНЕФТЕГАЗ»	87
Бекмухамедова Малика Искандарбековна	
ОЦЕНКА ВЛИЯНИЯ ИННОВАЦИОННОЙ АКТИВНОСТИ НА РАЗВИТИЕ СОЦИАЛЬНОГО СЕКТОРА ЭКОНОМИКИ: ЭКОНОМЕТРИЧЕСКИЙ АНАЛИЗ.....	95
Холмуратов Жахонгир Салимбек ўғли	

FOREIGN EXPERIENCE IN SUPPORTING SMALL BUSINESS ENTITIES AND OPPORTUNITIES FOR ITS APPLICATION	104
Botir Baxtiyorovich Ganiyev	
STRATEGIES FOR THE DIVERSIFICATION OF INDUSTRIAL ENTERPRISES.....	108
Kalimullina Nargiza Vladimirovna	
CURRENT STATE AND CHALLENGES OF USING NATIONAL FASHION ELEMENTS IN UZBEKISTAN'S TOURISM MARKET	112
Yusupova Mokhinur Farkhod qizi	
IMPROVING THE ORGANIZATION, PLANNING, AND METHODOLOGICAL ASPECTS OF THE AUDIT OF BIOLOGICAL ASSETS	120
Akhmetova Salima Seytovna	
FACTORS DETERMINING THE DEVELOPMENT OF SMALL BUSINESS AND ENTREPRENEURSHIP	125
Imomnazarov Khurshid Ozodboevich	
SMART INCLUSIVE UNIVERSITY: A DIGITAL ECOSYSTEM MODEL FOR INCLUSIVE HIGHER EDUCATION.....	129
Kamola Makhkamova	
THEORETICAL FOUNDATIONS OF ORGANIZATIONAL AND ECONOMIC DEVELOPMENT OF THE FOOD INDUSTRY	137
Tleuov Nietulla Rakhmanovich	
SECTORAL ANALYSIS OF WATER RESOURCE USE EFFICIENCY UNDER CIRCULAR ECONOMY PRINCIPLES: EVIDENCE FROM UZBEKISTAN	143
Sotvoldiyeva Muslimaxon G'ayratjon qizi	
MECHANISMS FOR INCREASING THE IMPACT OF USING THE RESOURCES OF INTERNATIONAL FINANCIAL AND CREDIT INSTITUTIONS ON SUSTAINABLE ECONOMIC DEVELOPMENT	149
Qosimov Bobur Sobirovich	
IMPROVING ELECTRONIC SERVICES IN THE B2B AND B2G MARKET SEGMENTS OF THE REPUBLIC OF UZBEKISTAN	154
Otaboyev Nodirbek Oybek o'g'li	
MACROECONOMIC DETERMINANTS OF INDUSTRIAL DEVELOPMENT IN UZBEKISTAN: A TIME-SERIES ECONOMETRIC ANALYSIS AND SCENARIO FORECAST FOR 2026–2027	160
Khusniddin Nuriddin ugli Muydinov	
INSTITUTIONAL CHALLENGES AND DEVELOPMENT CONSTRAINTS IN SERVICE SECTOR MANAGEMENT	166
Dauletmuratov Adilbay Mirzabaevich	
ECONOMETRIC ANALYSIS OF THE FACTORS AFFECTING INTERBANK COMPETITION IN THE DIGITAL BANKING SERVICES MARKET	173
Karimov Odiljon Boqiyevich	
PRIORITY DIRECTIONS FOR ENHANCING FINANCIAL INCLUSION THROUGH INNOVATIVE BANKING SERVICES IN THE DIGITAL ECONOMY	185
Azlarova Aziza Axrorovna	
INTEGRATED INSTITUTIONAL MECHANISM OF FORMATION AND MANAGEMENT OF NATIONAL CRAFT CLUSTER.....	192
Yakhshilikov Sardor Rustam ugli	
IMPROVING THE METHODOLOGY OF PUBLIC AUDIT IN THE SYSTEM OF STATE FINANCIAL CONTROL.....	203
B. Sh. Mirzoyev	

PROSPECTS FOR THE DIGITAL TRANSFORMATION OF LOCAL GOVERNMENT AUTHORITIES	208
Achilova Firuza Kurbanovna	
Nurmurodov Zafarjon Nurmurod ugli	
A STUDY OF HOUSING STOCK MANAGEMENT ISSUES IN THE CONTEXT OF URBANIZATION BASED ON SWOT ANALYSIS.....	212
Mamanazarov Oybek Shomurodovich	
DETERMINING THE FORECAST PARAMETERS OF INDICATORS REPRESENTING AGRO-SERVICES AND THE POSSIBILITIES FOR POVERTY REDUCTION.....	217
Pardaev Mamayunus Karshibaevich	
Abilov Feruz Nematullaevich	
EVOLUTION OF PRODUCTION MANAGEMENT MODELS IN TEXTILE ENTERPRISES AND DIGITAL DIRECTIONS FOR IMPROVING EFFICIENCY.....	223
Kodirova Xurshida Ismoilovna	
DIRECTIONS FOR REDUCING POVERTY THROUGH THE USE OF DIGITAL TECHNOLOGIES IN THE SERVICE SECTOR	228
Saparov Murod Irgashovich	
FOREIGN EXPERIENCE IN HANDICRAFT MANAGEMENT AND OPPORTUNITIES FOR ITS APPLICATION IN UZBEKISTAN.....	233
Yakhshilikov Sardor Rustam Ugli	
REGIONAL INTERDEPENDENCIES AND CROSS-BORDER DYNAMICS: ASSESSING THE INFLUENCE OF NEIGHBOURING COUNTRIES ON THE DEVELOPMENT OF UZBEKISTAN'S TOURISM SECTOR	238
Khusniddin Egamnazarov	
THEORETICAL ISSUES OF DETERMINING THE QUALITY AND EFFICIENCY INDICATORS OF AGRO-SERVICES.....	246
Abilov Feruz Nematullaevich	
THE THREE-STEP INTERNAL QUALITY CONTROL MODEL FOR THE PREPARATION OF FINANCIAL STATEMENTS IN JOINT-STOCK COMPANIES IN ACCORDANCE WITH IFRS AND ITS IMPLEMENTATION MECHANISMS.....	251
Lutfullaev Sardorbek Utkur o'g'li	
CONCEPTUAL MODEL OF AN INTEGRATED ORGANIZATIONAL AND ECONOMIC MECHANISM FOR THE DEVELOPMENT OF RAILWAY INDUSTRIAL ENTERPRISES.....	260
Baymatov Atxam Axmadaliyevich	
INNOVATIVE MECHANISMS FOR THE STATISTICAL ASSESSMENT OF POPULATION QUALITY OF LIFE AND LIVING STANDARDS IN THE REPUBLIC OF UZBEKISTAN AND DIRECTIONS FOR THEIR IMPROVEMENT UNDER CONDITIONS OF SUSTAINABLE ECONOMIC GROWTH	266
Ostonaqulov Dilshod Ismatilla o'g'li	
THE IMPORTANCE OF CORPORATE CULTURE IN IMPROVING THE MANAGEMENT OF JOINT-STOCK COMPANIES	272
Nazokat Israilovna Akramova	
THE CURRENT STATE AND DEVELOPMENT PROSPECTS OF SPECIAL ECONOMIC ZONES IN UZBEKISTAN	280
Toshtemirova Malika Turg'un qizi	
IMPROVEMENT OF MECHANISMS FOR INCREASING THE EFFICIENCY OF FINANCIAL MANAGEMENT IN JOINT-STOCK COMPANIES.....	287
Abdubodiyev Muxammad Sharofitdinovich	
ANALYSIS OF THE CURRENT STATE AND ASSESSMENT MECHANISMS FOR THE DEVELOPMENT OF INTELLECTUAL AND TECHNOLOGICAL POTENTIAL IN THE KASHKADARYA REGION	294
Uralov Elshod Sirojiddin o'g'li	

IMPROVING MECHANISMS FOR CONTENT PLACEMENT AND MANAGEMENT BASED ON ARTIFICIAL INTELLIGENCE.....	303
Khujamatova Shakhlo Abdusalom qizi	
STATISTICAL MODEL FOR DETERMINING SAMPLE SIZE IN THE AUDIT OF BUDGETARY ORGANIZATIONS BASED ON AUDIT RISK, MATERIALITY, AND EXPECTED MISSTATEMENT	309
Jasur Bosimovich Muqumov	
ЭКСПЕРГООЭКОНОМИЧЕСКАЯ И ЭКСПЕРГООЭКОЛОГИЧЕСКАЯ ОЦЕНКА СОЛНЕЧНО-АККУМУЛЯТОРНОГО ХОЛОДОСНАБЖЕНИЯ ПРИ ДЛИТЕЛЬНОМ ХРАНЕНИИ ЯБЛОК	318
Мирзабаев Акрам Махкамovich	
Матчанов Нураддин Азадович	
Кулматов Хайрулло Хабибуллаевич	
Шодиев Бобур Тоир угли	
THE ESSENCE, SIGNIFICANCE, AND IMPORTANCE OF THE INTERCONNECTIVITY BETWEEN CENTRAL AND SOUTH ASIA, AND UZBEKISTAN'S ROLE IN DEEPENING REGIONAL COOPERATION WITH SOUTH ASIA	330
Yuldashev Anvar Ergashevich	
INTERNATIONAL EXPERIENCE IN STATE SUPPORT FOR FOOD INDUSTRY ENTERPRISES AND ITS ADAPTATION TO THE CONDITIONS OF UZBEKISTAN.....	341
Mamatojjeva Sarvinoz Dilshodjon qizi	
ОСОБЕННОСТИ ЭКОЛОГИЧЕСКОГО ТУРИЗМА ТАШКЕНТСКОЙ ОБЛАСТИ КАК ОСНОВЫ ЕЁ УСТОЙЧИВОГО ЭКОНОМИЧЕСКОГО РАЗВИТИЯ	346
Ахмедходжаев Равшан Темурович	
THE ROLE OF FOREIGN TRADE IN SHAPING SUSTAINABLE REGIONAL DEVELOPMENT: EVIDENCE FROM THE REGIONS OF UZBEKISTAN	352
Dilnoza Ochilova Ismoil qizi	
METHODOLOGICAL ASPECTS OF ACCOUNTING FOR CONSTRUCTION AND RENOVATION EXPENDITURES IN BUDGET ORGANIZATIONS: INTERNATIONAL PUBLIC SECTOR EXPERIENCE.....	364
Azizova Zilola Lochinovna	
ENDOGENOUS GROWTH FACTORS IN THE SUSTAINABLE ECONOMIC DEVELOPMENT OF THE REGIONS OF UZBEKISTAN: A CONCEPTUAL MODEL AND EMPIRICAL ASSESSMENT	369
Yuldashov Abdullo Abdugapparovich	
PROSPECTS FOR IMPLEMENTING STRATEGIC MANAGEMENT IN ENTERPRISES.....	377
Abdullaev Farkhod Ozodovich	
METHODOLOGICAL IMPROVEMENT OF LABOR MARKET STATISTICS IN UZBEKISTAN BASED ON INTERNATIONAL STATISTICAL STANDARDS	381
Abrayev Sherzod Xurromovich	
A COMPREHENSIVE METHODOLOGY FOR ASSESSING THE EFFICIENCY OF FINANCIAL INVESTMENTS AND CONDUCTING FORWARD-LOOKING ANALYSIS	391
Jumamurodov Tolibai Eldashbaevich	
CURRENT STATE OF INTERNAL AUDIT IN COMMERCIAL BANKS OF UZBEKISTAN: AN EMPIRICAL ANALYSIS OF SYSTEMIC CHALLENGES	396
Narziev Khayotjon Azamatovich	
VISUALIZATION OF RISKS IN PUBLIC FINANCIAL CONTROL: RISK MAP, RISK REGISTER AND ANALYSIS OF INTERZONAL MIGRATION	403
Gayimov Abdumalik Norbekovich	

ORGANISATIONAL AND METHODOLOGICAL MECHANISM FOR IMPLEMENTING CONTINUOUS AUDIT TOOLS IN THE INTERNAL AUDIT OF COMMERCIAL BANKS.....	408
Ismailov Azizbek Madaminovich	
IMPROVING THE RISK-BASED METHODOLOGY FOR PREPARING ANNUAL INTERNAL AUDIT PLANS IN THE PUBLIC SECTOR	415
Ismatillayev Baypolat Khushvaktovich	
ASSESSING THE MULTIDIMENSIONAL ECONOMIC POTENTIAL OF A TEXTILE ENTERPRISE: EVIDENCE FROM “YUSTEX” LLC (2021–2025)	424
Yuldashev Golibjon Turgunovich	
A DATA-DRIVEN APPROACH TO THE DIGITALIZATION OF PUBLIC PROCUREMENT AUDITING	431
Rajabov Shukhrat Ismayilovich	
CLASSIFICATION OF LIGHT INDUSTRY CHARACTERISTICS AND SECTOR-SPECIFIC RISKS FOR INTERNAL AUDIT PURPOSES	437
Tojjeva Shahlo Mahmatmurodovna	
THEORETICAL ASPECTS OF APPLYING ANALYTICAL PROCEDURES IN FINANCIAL STATEMENT AUDITS	445
Botirov Lazizbek Botirovich	
СИСТЕМА КЛЮЧЕВЫХ ПОКАЗАТЕЛЕЙ ЭФФЕКТИВНОСТИ ИННОВАЦИОННОГО РАЗВИТИЯ ЖЕЛЕЗНОДОРОЖНОГО ТРАНСПОРТА	451
Мурадов Бахром Акрамжанович	
DEVELOPING A MULTI-CRITERIA DECISIONMAKING MODEL FOR INVESTMENT PROJECT SELECTION IN TEXTILE ENTERPRISES	457
Jasurbek Pozilovich Qurbonov	
THE RELEVANCE OF INTRODUCING CENTRAL BANK DIGITAL CURRENCY.....	463
Yuldoshev Obbos Amonovich	
ASSESSING THE IMPACT OF MACROECONOMIC FACTORS ON LIQUIDITY RISK IN UZBEKISTAN'S COMMERCIAL BANKS: AN EMPIRICAL ANALYSIS USING THE SVAR MODEL	467
Rahmatilla Rahmonovich Tojiyev	
Nasiba Ganijon qizi Sattorova	
MECHANISMS FOR MANAGING ENTREPRENEURIAL ACTIVITIES IN THE PHYSICAL EDUCATION AND SPORTS SECTOR	477
Sherzod Dilshodovich Ismoilov	
ECONOMIC MECHANISMS FOR THE EFFICIENT UTILIZATION OF ALTERNATIVE ENERGY RESOURCES IN UZBEKISTAN'S ENERGY INDUSTRY AND THEIR IMPROVEMENT DIRECTIONS.....	485
Shukurov Khurshid Shakhobidinovich	
ECONOMETRIC ASSESSMENT OF RESOURCE USE EFFICIENCY IN THE AGRICULTURE OF THE REPUBLIC OF KARAKALPAKSTAN.....	493
Shixiyev Raxim Muhammedovich	
ЭКОНОМЕТРИЧЕСКОЕ МОДЕЛИРОВАНИЕ ЭФФЕКТИВНОСТИ АГРОПРОДОВОЛЬСТВЕННОЙ ЦЕПОЧКИ ПОСТАВОК РЕСПУБЛИКИ УЗБЕКИСТАН	500
Бекжанов Дилмурад Юлдашович	
ASSESSMENT OF INTERNAL AUDIT EFFICIENCY IN TEXTILE INDUSTRY ENTERPRISES AND DIGITAL TRANSFORMATION OF AUDIT	509
Babakulova Matluba Kurbannazarovna	
GLOBAL TRENDS IN THE DEVELOPMENT OF THE FINANCIAL PERFORMANCE OF E-COMMERCE PLATFORMS.....	514
Amankulova Mukhlisa Narsafar qizi	

TOURISM AS A BRIDGE: HOW TRAVEL FOSTERS INTERCULTURAL PEACE AND SOCIAL COHESION.....	521
Sirojiddinova Shahrizoda Davronovna	
DEVELOPING AN INTEGRATED INDICATOR SYSTEM FOR ASSESSING ARTIFICIAL INTELLIGENCE-BASED MANAGEMENT EFFICIENCY IN ENTERPRISES.....	527
Anvarova Lobarxon Sherzod qizi	
IMPROVING MANAGEMENT STRATEGIES FOR THE DEVELOPMENT OF CONSTRUCTION MATERIALS INDUSTRY ENTERPRISES.....	534
Ubaydullayev Mukhammadjon Abdusamad o'g'li	

IMPROVING MANAGEMENT STRATEGIES FOR THE DEVELOPMENT OF CONSTRUCTION MATERIALS INDUSTRY ENTERPRISES

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Abstract. This article examines the need to improve management strategies in construction materials industry enterprises, their theoretical foundations, distinctive characteristics, and the main directions for enhancing strategic management under contemporary economic conditions. The study analyzes the role of strategic management in strengthening enterprise competitiveness, improving production efficiency, fostering innovation, and ensuring sustainable development. Based on the findings, conclusions and practical recommendations are proposed for the effective implementation of modern management strategies in construction materials manufacturing enterprises.

Keywords: construction materials industry, enterprise, construction materials manufacturing enterprise, strategic management, management strategy, enterprise development, competitiveness, innovation, sustainable development.

Аннотация. В данной статье рассматривается необходимость совершенствования стратегий управления на предприятиях промышленности строительных материалов, их теоретические основы, отличительные особенности, а также основные направления совершенствования стратегического управления в современных экономических условиях. Исследуется роль стратегического управления в повышении конкурентоспособности предприятий, эффективности производства, развитии инновационной деятельности и обеспечении устойчивого развития. По результатам исследования сформулированы выводы и разработаны практические рекомендации по эффективному внедрению современных стратегий управления на предприятиях промышленности строительных материалов.

Ключевые слова: промышленность строительных материалов, предприятие, предприятие по производству строительных материалов, стратегическое управление, стратегия управления, развитие предприятия, конкурентоспособность, инновации, устойчивое развитие.

INTRODUCTION

The construction materials industry is one of the strategic sectors of the national economy, playing a vital role in industrial development, infrastructure expansion, urbanization, and sustainable economic growth. The growing demand for modern construction materials, rapid technological advancements, globalization, and intensifying market competition require construction materials enterprises to continuously improve their management systems and strategic decision-making processes.

In the current economic environment, improving management strategies has become one of the key factors determining the long-term competitiveness and sustainable development of construction materials enterprises. Effective strategic management enables enterprises to optimize production processes, enhance resource utilization, strengthen innovation capacity, reinforce market positions, and respond promptly to changes in both domestic and international markets. Moreover, modern management strategies facilitate digital transformation, organizational flexibility, and sustainable business growth while reducing operational risks and improving overall enterprise performance.

In recent years, Uzbekistan's construction materials industry has undergone significant structural reforms. Government initiatives aimed at industrial modernization, investment promotion, production localization, and export expansion have created favorable conditions for the development of construction materials manufacturing enterprises. Nevertheless, many enterprises continue to face challenges related to ineffective

strategic planning, limited innovation capacity, insufficient digitalization, inefficient resource management, and increasing competitive pressure.

Therefore, improving management strategies is regarded as one of the fundamental prerequisites for ensuring sustainable development, increasing productivity, enhancing financial performance, and strengthening the competitive advantages of construction materials enterprises. The effective implementation of strategic management practices contributes not only to enterprise development but also to the sustainable growth of the industrial sector and the broader diversification of the national economy.

LITERATURE REVIEW

Numerous studies have examined strategic management practices in manufacturing enterprises, particularly within industrial production sectors. According to many scholars, strategic management is a comprehensive process that enables enterprises to achieve long-term competitive advantages through effective planning, efficient resource allocation, organizational coordination, and continuous adaptation to changing business environments. In this context, strategic management serves as a critical instrument for enhancing enterprise performance, strengthening innovation capacity, and ensuring sustainable development.

Several researchers have explored various strategic management models applied in manufacturing industries. These studies emphasize the importance of strategic planning, competitive positioning, organizational flexibility, and continuous innovation in enhancing enterprise competitiveness. Furthermore, they advocate integrating strategic management with modern digital technologies, organizational learning, and knowledge management systems to improve operational efficiency and market responsiveness.

Other studies suggest that the effective implementation of management strategies enables industrial enterprises to enhance productivity, optimize production costs, strengthen financial stability, and increase investment attractiveness. From this perspective, the continuous review and adaptation of enterprise strategies are essential in response to technological advancements, globalization, digital transformation, and rapidly evolving customer demands.

Recent research also highlights that the effectiveness of management strategies should be evaluated not only in terms of financial performance but also through operational efficiency, innovation capability, organizational resilience, customer satisfaction, and sustainable development indicators. Consequently, contemporary strategic management increasingly incorporates multidimensional performance evaluation tools, including the Balanced Scorecard (BSC), Key Performance Indicators (KPIs), SWOT analysis, and PESTEL analysis.

Furthermore, numerous scholars emphasize that digital transformation has become an essential component of strategic management in construction materials enterprises. The integration of Enterprise Resource Planning (ERP), Building Information Modeling (BIM), Artificial Intelligence (AI), the Internet of Things (IoT), Big Data Analytics, and Business Intelligence (BI) systems significantly enhances managerial decision-making, production planning, quality control, supply chain integration, and overall enterprise performance.

Several studies focusing specifically on the construction materials industry indicate that effective management strategies contribute to improving production efficiency, enhancing product quality, strengthening export potential, optimizing resource utilization, and achieving sustainable competitive advantages. These studies demonstrate that enterprises adopting innovation-oriented and digitally enabled management strategies are better positioned to respond to market uncertainty and sustain long-term business growth.

Finally, previous research suggests that construction materials enterprises should continuously refine their management strategies by considering both internal organizational capabilities and external environmental factors. Strategic management should integrate innovation, digital transformation, sustainable manufacturing, and competitive positioning into a unified managerial framework that supports long-term enterprise development. However, despite the growing body of international literature, empirical studies on the strategic management practices of construction materials enterprises in Uzbekistan, particularly those operating in the Fergana region, remain limited. Therefore, this study seeks to address this research gap by evaluating the effectiveness of management strategies implemented in construction materials manufacturing enterprises during the period 2020–2025 and by proposing practical recommendations to enhance their sustainable development and competitive performance.

RESEARCH METHODOLOGY

This study is based on a qualitative research approach supported by descriptive, comparative, and analytical methods. Relevant scientific literature, international publications, and official statistical sources were systematically reviewed to examine management strategies for the development of construction materials

industry enterprises. The study also employs logical analysis and synthesis to identify the key factors influencing strategic management and sustainable enterprise development. Approximately 10% of artificial intelligence (AI)-assisted tools were used exclusively to improve language quality, grammar, and academic writing style. The research design, analysis, interpretation of findings, and final conclusions were developed independently by the author.

ANALYSIS AND RESULTS

Strategic management has become one of the most important determinants of sustainable development in the construction materials industry. In today's highly competitive business environment, enterprises are required not only to expand their production capacity but also to continuously improve management systems capable of responding effectively to technological, economic, and market changes.

Construction materials manufacturing enterprises create competitive advantages through continuous technological modernization, efficient utilization of production resources, innovation management, digital transformation, and customer-oriented production strategies. Consequently, strategic management is no longer confined to long-term planning; rather, it has evolved into an integrated management system that combines production, financial, innovation, marketing, and digital management practices.

The analysis of construction materials enterprises operating in the Fergana region during 2020–2025 indicates that enterprises implementing comprehensive strategic management practices achieved higher production efficiency, improved product quality, greater investment attractiveness, and stronger export performance than enterprises relying on traditional management approaches.

The study identified several key strategic management approaches that are widely implemented in construction materials enterprises.

Cost Leadership Strategy. The cost leadership strategy focuses on reducing production costs while maintaining product quality. Construction materials enterprises achieve this objective through the efficient utilization of raw materials, the adoption of energy-efficient technologies, the automation of production processes, and the optimization of logistics systems.

For example, enterprises that introduced modern energy-efficient equipment and digital production control systems significantly reduced manufacturing costs while improving operational efficiency.

Differentiation Strategy. The differentiation strategy enables construction materials enterprises to establish competitive advantages by producing innovative, environmentally friendly, and high-quality construction materials.

This strategy includes:

- the development of new construction materials;
- the implementation of environmentally sustainable technologies;
- the improvement of product quality standards;
- certification in accordance with international standards;
- customer-oriented product development.

Through continuous innovation, enterprises strengthen their market position and enhance customer satisfaction.

Digital Transformation Strategy. Digital transformation has become one of the most influential strategic directions in the construction materials industry.

Construction materials enterprises are increasingly implementing:

- Enterprise Resource Planning (ERP);
- Building Information Modeling (BIM);
- Artificial Intelligence (AI);
- the Internet of Things (IoT);
- Business Intelligence (BI);
- Big Data Analytics.

These technologies enhance production planning, inventory management, quality control, predictive maintenance, and strategic decision-making.

Digital transformation also increases organizational flexibility and enables enterprises to respond more effectively to changing market conditions.

Innovation Strategy. Innovation-oriented enterprises continuously invest in research and development (R&D), advanced production technologies, and workforce competencies.

An innovation strategy includes:

- modernization of production equipment;
- development of new construction materials;

- implementation of environmentally friendly production technologies;
- collaboration with research institutions;
- continuous technological improvement.

The empirical analysis indicates that enterprises with stronger innovation capabilities achieve superior financial performance and greater competitive advantages.

Sustainability Strategy. Sustainable development has become an integral component of strategic management in construction materials enterprises.

Sustainability strategies focus on:

- the efficient utilization of natural resources;
- the reduction of industrial waste;
- the recycling of construction materials;
- the reduction of greenhouse gas emissions;
- the implementation of environmentally sustainable manufacturing technologies.

These practices contribute to strengthening long-term enterprise competitiveness while supporting environmental sustainability objectives. The successful implementation of management strategies in construction materials industry enterprises requires a comprehensive assessment of both internal organizational capabilities and external environmental factors. As illustrated in Figure 1.

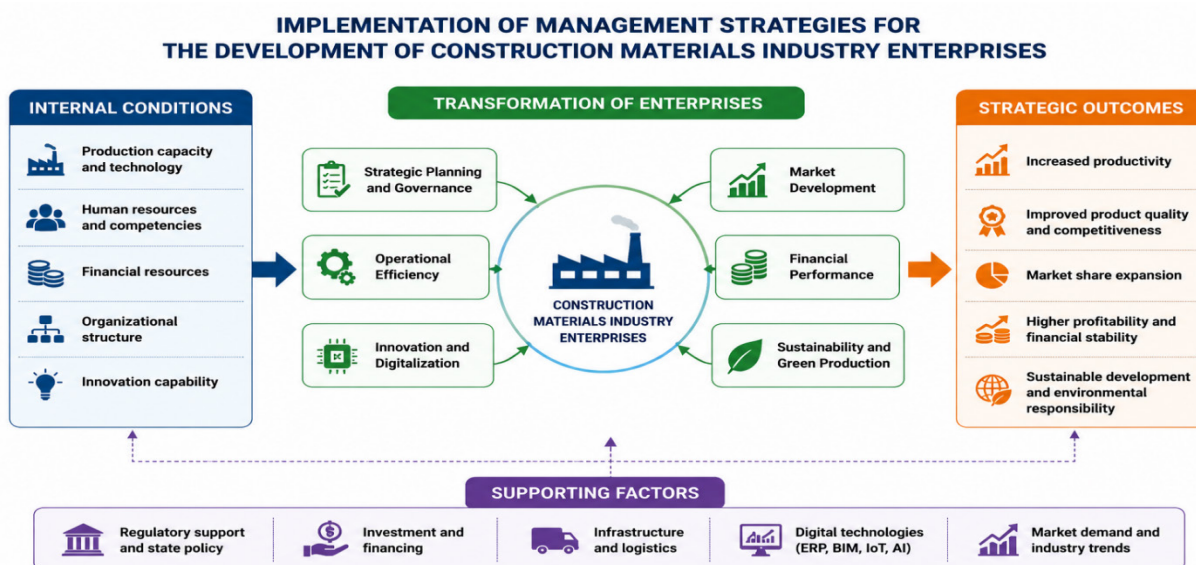


Figure 1. Implementation of Management Strategies for the Development of Construction Materials Industry Enterprises

Figure 1. Conceptual Framework for the Implementation of Management Strategies in the Development of Construction Materials Industry Enterprises¹

Strategic management begins with an evaluation of the enterprise's internal conditions, including production capacity, technological capabilities, human resources, financial resources, organizational structure, and innovation potential. These factors determine the enterprise's capacity to formulate and implement effective development strategies.

The transformation of construction materials enterprises is achieved through several interconnected strategic management dimensions. Strategic planning and corporate governance provide the foundation for long-term decision-making and organizational development. Operational efficiency focuses on optimizing production processes, reducing manufacturing costs, and improving resource utilization. At the same time, innovation and digital transformation facilitate the adoption of advanced technologies such as Enterprise Resource Planning (ERP), Building Information Modeling (BIM), Artificial Intelligence (AI), and the Internet of Things (IoT), significantly enhancing managerial decision-making and production performance.

Market development and financial performance are equally important components of strategic management. Construction materials enterprises continuously seek to expand their market share, diversify customer segments, and strengthen their financial stability through investment attraction, export promotion, and effective

¹ Developed by the author

cost management. Furthermore, sustainability and green production have become key strategic priorities in response to evolving environmental regulations and the growing market demand for environmentally friendly construction materials.

The effective implementation of these strategic management components depends on several supporting factors. Government industrial policies, investment incentives, infrastructure development, logistics systems, digital technologies, and market demand collectively create favorable conditions for enterprise development. These external factors enhance the effectiveness of strategic initiatives and improve enterprises' adaptability to changing market conditions.

Accordingly, construction materials enterprises implement management strategies to achieve several important objectives.

Enhancing competitive advantage. Effective strategic management enables enterprises to strengthen their market position through technological innovation, improved product quality, operational excellence, and customer-oriented production. By continuously enhancing organizational capabilities, enterprises can develop sustainable competitive advantages that are difficult for competitors to replicate.

Improving productivity and operational efficiency. Modern management strategies facilitate the optimization of production processes, the efficient utilization of raw materials and energy resources, the automation of manufacturing operations, and continuous performance monitoring. These improvements contribute directly to higher productivity and lower operating costs.

Supporting innovation and digital transformation. Strategic management encourages enterprises to invest in digital technologies, automation systems, intelligent manufacturing, and innovation activities. The integration of ERP, BIM, AI, and IoT technologies enhances organizational flexibility, accelerates decision-making, and improves production efficiency.

Ensuring sustainable development. Contemporary management strategies integrate environmental responsibility with economic performance. The adoption of green production technologies, waste recycling, energy-efficient manufacturing systems, and sustainable resource management supports long-term enterprise development while ensuring compliance with international environmental standards.

Increasing profitability and financial stability. Strategic planning enables enterprises to allocate financial resources more efficiently, improve investment performance, optimize production costs, and expand export opportunities. Together, these factors enhance financial performance and strengthen enterprise resilience in a dynamic market environment.

Responding to changes in the business environment. The construction materials industry is significantly influenced by fluctuations in raw material prices, technological advancements, environmental regulations, and changing customer demand. Effective management strategies enable enterprises to respond promptly to these changes, mitigate business risks, and capitalize on emerging market opportunities.

Strengthening organizational capabilities. Continuous strategic improvement enhances managerial competencies, employee skills, organizational learning, and corporate governance. These capabilities provide a solid foundation for sustainable competitiveness and long-term enterprise growth.

As presented in Figure 1, the integration of internal organizational capabilities, strategic management processes, supporting external factors, and performance-oriented strategic outcomes forms a comprehensive framework for advancing the development of construction materials industry enterprises. This integrated approach enables enterprises to achieve higher productivity, stronger competitiveness, improved financial performance, expanded market opportunities, and sustainable industrial development throughout the 2020–2025 period.

CONCLUSION AND RECOMMENDATIONS

The sustainable development of construction materials industry enterprises largely depends on the effectiveness of their management strategies and their ability to respond to rapidly evolving economic, technological, and competitive environments. Modern strategic management has become an essential instrument for improving enterprise performance, enhancing competitiveness, strengthening innovation capabilities, and ensuring long-term sustainable growth.

The findings of this study indicate that the integration of strategic planning, operational efficiency, digital transformation, innovation management, financial management, and sustainability initiatives creates a comprehensive management framework that significantly contributes to enterprise development. Construction materials enterprises that continuously improve their strategic management systems demonstrate higher production efficiency, stronger market competitiveness, greater investment attractiveness, and improved financial performance.

Furthermore, the study confirms that effective management strategies should focus not only on maximizing short-term financial performance but also on promoting innovation, organizational learning, environmental sustainability, and digital transformation. The adoption of advanced management technologies and approaches—including Enterprise Resource Planning (ERP), Building Information Modeling (BIM), Artificial Intelligence (AI), the Internet of Things (IoT), and data-driven decision-making—significantly enhances managerial effectiveness, operational flexibility, and overall organizational performance.

The analysis also demonstrates that construction materials enterprises should continuously assess both their internal organizational capabilities and the external business environment when formulating strategic plans. Internal resources—including human capital, technological capability, financial strength, innovation potential, and organizational culture—should be effectively aligned with external opportunities such as government industrial policies, investment incentives, market demand, technological progress, and environmental requirements.

Based on the findings of this research, the following recommendations are proposed to improve management strategies in construction materials industry enterprises:

- Develop comprehensive long-term strategic management systems that integrate strategic planning, risk management, innovation, and sustainable development objectives into a unified management framework.
- Accelerate digital transformation by implementing advanced digital technologies such as ERP, BIM, Artificial Intelligence (AI), the Internet of Things (IoT), Business Intelligence (BI), and Big Data Analytics to improve decision-making quality and operational efficiency.
- Strengthen innovation management through continuous investment in research and development, technological modernization, employee training, and collaboration with universities and research institutions.
- Improve production efficiency by introducing energy-efficient technologies, optimizing production processes, reducing resource consumption, and implementing the principles of Lean Manufacturing and Total Quality Management (TQM).
- Enhance environmental sustainability by adopting green manufacturing technologies, promoting circular economy practices, reducing industrial waste, increasing resource efficiency, and complying with internationally recognized environmental standards.
- Strengthen strategic performance evaluation by implementing the Balanced Scorecard (BSC), Key Performance Indicators (KPIs), and continuous performance monitoring systems to ensure the effective implementation of enterprise strategies.
- Increase export competitiveness by improving product quality, obtaining internationally recognized certifications, diversifying export markets, and strengthening customer-oriented marketing strategies.
- Improve corporate governance and human resource management by developing leadership competencies, promoting strategic thinking, encouraging employee participation in decision-making, and fostering a culture of continuous organizational improvement.

Improving management strategies should be regarded as a continuous and dynamic process rather than a one-time managerial initiative. Construction materials industry enterprises operating in Uzbekistan, particularly those in the Fergana region, should continuously adapt their strategic management systems to evolving market conditions, technological advancements, and sustainability requirements. The integrated strategic management framework proposed in this study provides practical guidance for enhancing enterprise competitiveness, improving operational performance, attracting investment, expanding export potential, and supporting the sustainable development of the construction materials industry.

The proposed recommendations may serve as a practical reference for enterprise managers, policymakers, and researchers seeking to strengthen strategic management practices within the construction materials industry. Furthermore, the findings provide a solid theoretical foundation for future empirical studies examining the relationships among strategic management, digital transformation, innovation capability, and sustainable enterprise performance in manufacturing industries.

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