ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW
ISSN: 2319-2836
IMPACT FACTOR: 8.071
Vol 14, Issue 06, 2025

GLOBAL ECONOMIC GROWTH AND INTERNATIONAL TRADE

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Abstract: Global economic growth and international trade are deeply interconnected components of the modern economic system. Trade liberalization, technological advancement, and economic integration have significantly reshaped global production and consumption patterns, enabling countries to specialize, expand markets, and increase productivity. This paper explores the dynamic relationship between international trade and economic growth, analyzing how trade openness, export diversification, foreign direct investment (FDI), and global supply chains influence GDP growth across developed and developing economies. Empirical evidence shows that while trade acts as a powerful engine of growth, its benefits are not distributed evenly, and trade-dependent economies remain vulnerable to external shocks such as geopolitical tensions, pandemics, and global inflation. The paper also discusses recent challenges to multilateralism, the impact of protectionist policies, and the shifting nature of trade in the digital era. Policy recommendations focus on strengthening trade infrastructure, enhancing regional cooperation, and ensuring inclusive growth through equitable trade policies.

Keywords: Global economic growth; international trade; trade openness; foreign direct investment; export diversification; supply chains; trade policy; globalization; inclusive development; trade liberalization.

Introduction

Global economic growth and international trade represent two of the most influential and interrelated forces shaping the modern world economy. Economic growth refers to the sustained increase in a nation's production of goods and services over time, typically measured by the rise in gross domestic product (GDP), while international trade encompasses the exchange of goods, services, and capital across borders. These phenomena are deeply intertwined: trade drives growth by expanding markets, improving resource allocation, and fostering innovation; conversely, growth generates new demand, spurring trade expansion. Together, they form a dynamic cycle that supports economic development, job creation, and poverty reduction in both developed and developing countries.

Historically, periods of robust global economic expansion have often coincided with an increase in international trade flows. The post-World War II era, for example, witnessed unprecedented growth rates across many economies, facilitated by multilateral trade liberalization under institutions like the General Agreement on Tariffs and Trade (GATT)

ISSN 2319-2836 (online), Published by
ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW.,
under Volume: 14 Issue: 06 in June-2025
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and later the World Trade Organization (WTO). Globalization, characterized by the freer movement of goods, capital, and labor, has deepened economic interdependence, making international trade not just a byproduct of growth, but a strategic driver of economic performance. The global trade-to-GDP ratio increased from about 25% in 1960 to over 60% by 2020, underscoring the growing importance of trade in national economic planning.

The theoretical foundations of the trade-growth nexus can be traced to classical economic theories such as Adam Smith's absolute advantage and David Ricardo's comparative advantage, which argue that countries benefit from specializing in the production of goods they can produce more efficiently. Modern trade theories, such as the Heckscher-Ohlin model, the New Trade Theory, and endogenous growth models, have expanded this understanding by incorporating factors like economies of scale, technological diffusion, and human capital development. These frameworks consistently highlight that openness to trade enables countries to benefit from access to larger markets, increased competition, foreign direct investment (FDI), and knowledge spillovers—all of which contribute to economic growth.

Empirical studies generally support the theoretical proposition that international trade stimulates economic growth. Countries that have pursued outward-oriented trade policies—such as Singapore, South Korea, and Vietnam—have often achieved sustained high growth rates, rapid industrialization, and improved standards of living. Conversely, economies that have remained relatively closed—whether due to policy decisions, geographic constraints, or political instability—have typically experienced slower growth, inefficient resource allocation, and higher poverty levels. For instance, a study by Sachs and Warner (1995) found that open economies grew at an average annual rate of 4.5%, compared to 0.7% for closed economies during the 1970s and 1980s.

However, the relationship between trade and growth is neither automatic nor uniformly positive. Trade can also exacerbate inequality, contribute to environmental degradation, and expose economies to global shocks such as financial crises or supply chain disruptions. The 2008 global financial crisis and the COVID-19 pandemic both demonstrated how deeply integrated economies can suffer from external vulnerabilities. In these cases, trade-dependent nations faced sharp declines in exports, volatile capital flows, and widespread job losses, raising concerns about over-reliance on global markets. Moreover, rising protectionism, the weaponization of tariffs, and the erosion of multilateral trade agreements have cast doubt on the sustainability of globalization as a driver of inclusive growth.

These developments underscore the need to examine the changing contours of global trade and its implications for economic growth in a more nuanced way. Contemporary trade patterns are increasingly shaped by global value chains (GVCs), where production is

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fragmented across countries and coordinated by multinational corporations. While GVCs allow countries to participate in global trade by specializing in specific tasks or components, they also increase interdependence and require significant infrastructure, regulatory harmonization, and institutional capacity to function effectively. Developing countries, in particular, face challenges in upgrading within value chains and capturing a larger share of value-added activities.

In addition, the digitalization of the global economy has introduced new dimensions to international trade. The rise of e-commerce, digital services, cross-border data flows, and digital platforms has transformed the way trade is conducted, opening new growth avenues for tech-enabled firms and digitally savvy economies. However, this transformation also raises complex questions regarding data governance, digital protectionism, and regulatory asymmetries that can hinder equitable participation in the digital economy. Countries lacking digital infrastructure or digital literacy risk being left behind, thereby creating a digital divide within the global trading system.

Regional trade agreements (RTAs) and trade blocs—such as the European Union (EU), the African Continental Free Trade Area (AfCFTA), the Regional Comprehensive Economic Partnership (RCEP), and the United States–Mexico–Canada Agreement (USMCA)—have become important mechanisms for promoting trade-led growth. These arrangements not only reduce tariff and non-tariff barriers but also foster regional integration, investment flows, and knowledge sharing. For many countries, especially those in Asia, Africa, and Latin America, regionalism offers a strategic alternative to multilateralism, particularly in light of growing geopolitical rivalries and the paralysis of the WTO's dispute resolution mechanisms.

Another critical factor influencing the trade-growth relationship is the role of foreign direct investment (FDI). FDI serves as a vehicle for technology transfer, managerial expertise, and capital accumulation—contributing to both export performance and domestic productivity. Countries that have successfully attracted FDI—such as China, Ireland, and the United Arab Emirates—have often experienced export-led industrialization and GDP expansion. However, maximizing the benefits of FDI requires sound macroeconomic policies, transparent legal frameworks, and a skilled workforce. Otherwise, FDI can result in enclaves of foreign production with limited spillover effects on the broader economy.

In the case of landlocked or resource-constrained countries, the benefits of trade-led growth are often contingent on improvements in trade logistics, customs procedures, and trade facilitation infrastructure. The World Bank's Logistics Performance Index (LPI) and Doing Business indicators highlight that without efficient ports, border management, and transport networks, the gains from trade are significantly diminished. Thus, for trade to drive sustainable economic growth, it must be underpinned by comprehensive policy

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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW
ISSN: 2319-2836
IMPACT FACTOR: 8.071
Vol 14, Issue 06, 2025

support that includes investment in infrastructure, education, innovation, and institutional reform.

Environmental sustainability is also becoming an integral part of the global trade and growth discourse. The increasing awareness of climate change, coupled with the implementation of carbon border adjustment mechanisms, green supply chains, and ESG (environmental, social, and governance) compliance, is reshaping trade incentives and market access. Countries that integrate environmental concerns into their trade and industrial policies are likely to gain a competitive edge in emerging green markets. On the other hand, countries dependent on fossil fuel exports or environmentally intensive industries may face significant adjustment costs as global demand shifts toward sustainable products and practices.

Another important consideration is the political economy of trade. Trade liberalization, while beneficial at the macro level, often creates winners and losers at the micro level. Regions and industries exposed to foreign competition may experience job losses, wage stagnation, or business closures. If not addressed through compensatory mechanisms such as retraining programs, social safety nets, or targeted industrial policies, such dislocations can fuel social unrest and political backlash against globalization. The rise of populist movements, anti-trade rhetoric, and "economic nationalism" in parts of Europe and the United States highlights the urgency of designing trade policies that are both growth-enhancing and socially inclusive.

For policymakers, this complexity presents both a challenge and an opportunity. While trade remains a powerful engine of economic growth, harnessing its benefits requires deliberate policy choices tailored to national contexts. These include ensuring macroeconomic stability, investing in human capital, facilitating trade infrastructure, negotiating favorable trade agreements, and addressing inequality. International cooperation is also essential, especially in an era of global crises that require coordinated responses—from pandemic preparedness to climate mitigation and digital regulation.

In summary, the relationship between global economic growth and international trade is multifaceted, evolving, and highly context-dependent. While trade has historically played a central role in expanding economic opportunities and lifting millions out of poverty, its impact is shaped by a range of structural, institutional, and geopolitical factors. Understanding and navigating this complex relationship is crucial for countries seeking to leverage trade as a catalyst for sustainable and inclusive growth. As the global economy continues to transition toward digitalization, green innovation, and multipolarity, the strategies for aligning trade policy with growth objectives must be revisited and reimagined to meet the challenges of the 21st century.

Literature Review

ISSN 2319-2836 (online), Published by
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The relationship between international trade and economic growth has been a subject of long-standing theoretical and empirical investigation. Classical economists such as Adam Smith (1776) and David Ricardo (1817) laid the foundations of trade theory by demonstrating that nations could benefit from specialization and exchange. Smith's notion of absolute advantage and Ricardo's principle of comparative advantage underscored the gains from trade rooted in productive efficiency. In Ricardo's model, even less efficient countries benefit from trade by focusing on their relative strengths.

Subsequent theories, such as the Heckscher-Ohlin model, expanded this framework by incorporating factor endowments (labor, capital) into trade patterns, while New Trade Theory (Krugman, 1979) introduced economies of scale and product differentiation as drivers of trade among similar nations. Later still, Endogenous Growth Theories (Romer, 1990; Grossman & Helpman, 1991) emphasized how trade fosters innovation, technology transfer, and human capital development—all crucial for sustained economic growth.

In these theoretical constructs, trade is not merely an outcome of growth, but a driver of productivity, investment, and structural transformation. These ideas remain highly relevant in the 21st century, as economies grapple with rapid globalization, digitalization, and shifting geopolitical landscapes.

Empirical studies largely support the notion that trade openness leads to higher economic growth. Dollar and Kraay (2004), using cross-country panel data, found that countries with outward-oriented policies experienced faster growth and greater poverty reduction. Similarly, Frankel and Romer (1999) demonstrated that trade positively influences income levels, independent of other factors such as geography or institutions.

A widely cited study by Sachs and Warner (1995) showed that open economies grew 2–3 percentage points faster annually than closed ones. Moreover, countries like China, Singapore, and South Korea exemplify how strategic integration into global markets—through export-led growth and participation in global value chains (GVCs)—can rapidly accelerate GDP and human development indicators.

However, literature also highlights caveats. Rodrik (1998) cautioned against assuming automatic growth benefits from trade, arguing that domestic institutional quality, macroeconomic stability, and complementary policies are critical in mediating outcomes. Likewise, Stiglitz (2002) emphasized that poorly managed liberalization can lead to deindustrialization, inequality, and vulnerability to global shocks.

Recent research has shifted towards analyzing trade's impact on inclusive growth, environmental sustainability, and resilience. For example, OECD (2020) explored how trade affects labor markets, showing that while aggregate incomes may rise, regional disparities and job displacements may intensify if not addressed by redistribution policies.

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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW
ISSN: 2319-2836
IMPACT FACTOR: 8.071
Vol 14, Issue 06, 2025

While much of the global literature is rooted in cross-national or high-income country studies, research on Uzbekistan's experience provides valuable insights into how trade policy reforms and export diversification affect growth in transition economies.

During the 1990s and early 2000s, Uzbekistan maintained a relatively closed economy with strict currency controls, import substitution policies, and limited private sector engagement. However, the post-2017 reforms under President Shavkat Mirziyoyev marked a significant shift toward trade liberalization, tariff simplification, and integration into global markets. These structural changes have prompted Uzbek researchers to explore trade-growth dynamics in more detail.

For instance, Tursunov B.O. (2020) conducted a sectoral analysis of Uzbekistan's industrial exports and found a positive correlation between export growth and sectoral productivity, especially in textiles and agribusiness. He emphasized that cluster-based industrial policy (such as textile clusters) has enhanced value-added exports and supported rural economic growth.

Similarly, Shavkatov F. (2021) analyzed Uzbekistan's participation in regional trade agreements (e.g., CIS Free Trade Area, preferential deals with South Korea and China), concluding that trade openness improved foreign direct investment inflows and expanded access to capital and technologies. However, he warned that the trade balance remains vulnerable due to heavy import dependence on machinery, vehicles, and high-tech goods.

Rasulov M.M. (2022) used time series econometric models (ARDL and Johansen co-integration tests) to examine the causal link between Uzbekistan's exports, imports, and GDP growth between 2000 and 2020. His findings confirmed a long-run relationship between trade expansion and GDP growth, but highlighted the need for greater export diversification beyond raw cotton, gold, and gas.

Other Uzbek scholars, such as Abdurahmonov Q.X. (2020), have explored how trade policy impacts employment and regional development. His work suggests that while trade liberalization boosts national growth, urban-rural inequalities may widen unless accompanied by skills development and infrastructure investment.

a) Trade Openness and Growth

A consistent theme in the literature is that openness to trade, measured by lower tariffs, trade-to-GDP ratios, or liberalization indices, is associated with faster growth. However, the sequencing and design of liberalization matter. Greenaway, Morgan, and Wright (2002) emphasized that premature liberalization without institutional readiness can lead to capital flight and balance-of-payments crises.

In Uzbekistan's case, researchers such as To'laganov I.N. (2021) advocate for phased liberalization, arguing that early trade reforms must be accompanied by customs reform,

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exchange rate unification, and support for import-substituting industries to avoid structural shocks.

b) Export Diversification

Many studies emphasize that not just trade volume, but trade composition affects growth. Lederman and Maloney (2003) found that export diversification—especially into high-tech or manufacturing sectors—leads to more stable and robust growth. Export concentration in volatile commodities can increase economic fragility.

In Uzbekistan, Soliev A.T. (2022) examined export diversification trends and noted moderate progress in textile, fertilizer, and food processing sectors, but warned that over-reliance on gold and energy exports limits structural transformation. He called for deeper integration into global value chains through quality infrastructure and trade facilitation.

c) Global Value Chains (GVCs)

The rise of GVCs has transformed the nature of trade and growth. Participation in GVCs enables countries to industrialize by specializing in intermediate goods or assembly functions. However, GVC benefits are not automatic. As Baldwin (2013) points out, countries must upgrade technologically and institutionally to move up the value chain.

Uzbekistan's engagement with GVCs remains limited but growing, especially in textiles (e.g., through Better Cotton Initiative standards) and agro-processing. Scholars like Sodiqov U. (2021) stress the need for logistics hubs, customs digitalization, and standards harmonization to improve competitiveness.

d) Trade and FDI Linkages

Foreign direct investment often complements trade by enabling technology transfer, managerial know-how, and export expansion. Studies by Borensztein et al. (1998) and Alfaro (2003) show that countries with better financial systems and human capital gain more from FDI inflows.

In Uzbekistan, Khasanov R.B. (2021) analyzed FDI inflows post-liberalization and observed increased foreign investor interest in export-oriented sectors like chemicals and machinery. He emphasized that regulatory transparency, legal reform, and investment incentives are essential to sustain this momentum.

While the literature confirms a generally positive relationship between trade and growth, several critical issues remain:

- Unequal distribution of trade gains: Without complementary redistribution policies, trade can exacerbate inequality, particularly in regions dependent on vulnerable sectors.
- Environmental costs of trade: Few Uzbek or global studies integrate ecological indicators into trade-growth models. With rising carbon tariffs and green finance, this is a key area for future research.

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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW.,
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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW
ISSN: 2319-2836
IMPACT FACTOR: 8.071
Vol 14, Issue 06, 2025

- Digital trade and services: The role of digital platforms, data flows, and e-commerce in driving trade-led growth is under-researched in Uzbekistan.
- Geopolitical risks: Increasing geopolitical fragmentation, sanctions, and trade wars are creating new uncertainty around trade-based growth strategies.

The literature clearly supports the notion that international trade plays a significant role in fostering economic growth through mechanisms such as specialization, scale, competition, technology transfer, and investment flows. Both global and Uzbek studies demonstrate that trade liberalization, export diversification, and regional integration contribute to GDP growth and structural transformation.

However, realizing these benefits requires sound macroeconomic management, institutional reform, investment in infrastructure and skills, and policies aimed at mitigating trade-induced inequalities. In the case of Uzbekistan, ongoing trade reforms have created substantial momentum, but challenges remain in terms of diversifying exports, engaging in global value chains, and ensuring inclusive, sustainable growth.

The literature provides a strong foundation for further empirical investigation into how Uzbekistan and similar economies can optimize their trade strategies to achieve long-term development goals.

Methodology

This study employs a quantitative research design supported by descriptive and econometric analysis to examine the relationship between global economic growth and international trade. The primary objective is to investigate the strength, direction, and causality between international trade indicators (exports, imports, trade openness) and economic growth (GDP growth) across a selected group of countries, with a particular focus on Uzbekistan as a case study within the context of developing and transition economies.

The design combines cross-country panel data analysis and time-series analysis to allow both international comparison and a deep dive into Uzbekistan's trade-growth dynamics from 2000 to 2023.

A sample of 25 countries, including high-income, middle-income, and transition economies (e.g., China, USA, Germany, Brazil, Uzbekistan, Vietnam), is used to estimate the following model:

$$GDPG_{it} = \alpha + \beta_1 TO_{it} + \beta_2 FDI_{it} + \beta_3 GCF_{it} + \beta_4 HCI_{it} + \varepsilon_{it}$$

Where:

- ii represents countries
- tt represents time (years 2000–2023)
- ε_{it} is the error term

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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW.,
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Vol 14, Issue 06, 2025

Both fixed effects and random effects models will be estimated, and the Hausman test will be applied to determine the most appropriate specification.

For Uzbekistan specifically, the study applies:

- Augmented Dickey-Fuller (ADF) and Phillips-Perron (PP) tests for stationarity
- Johansen Co-integration Test to identify long-run relationships between trade variables and GDP growth
- Vector Error Correction Model (VECM) if co-integration is present
- Granger Causality Test to determine the direction of influence between trade and growth variables

The time-series model for Uzbekistan is specified as:

$$GDPG_t = \alpha + \beta_1 EXPT_t + \beta_2 IMPT_t + \beta_3 FDI_t + \beta_4 TO_t + \beta_5 INF_t + \varepsilon_t$$

This mixed-method econometric approach allows for a broader understanding of the trade-growth relationship at both global and national levels. Panel data increases the degrees of freedom and reduces multicollinearity, while country-specific time-series analysis for Uzbekistan ensures the policy relevance of the findings.

The inclusion of FDI, capital formation, and human capital is supported by prior studies such as Sachs & Warner (1995), Dollar & Kraay (2004), and Uzbek researchers including Shavkatov F. (2021) and Rasulov M. (2022) who identified these as significant mediators in the trade-growth linkage.

Dual econometric approach—panel data regression and country-specific time series analysis—to investigate the impact of international trade on economic growth. By integrating macroeconomic indicators with trade-specific metrics, and combining global and Uzbek-specific analysis, the methodology provides both empirical rigor and policy relevance. This comprehensive approach aims to contribute to the academic literature and offer actionable insights for governments, development institutions, and policy-makers in emerging economies.

Results and Discussion

The results of the panel data regression and time-series analysis confirm a statistically significant and positive relationship between international trade and economic growth. The empirical findings support both classical and modern theories of trade-led growth, although with notable variations across countries and over time. In particular, the analysis demonstrates that:

- Trade openness (measured as the ratio of trade to GDP) has a strong positive impact on GDP growth.
- Export performance contributes more significantly to growth than import expansion.

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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW.,
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ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW
ISSN: 2319-2836
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- Foreign direct investment (FDI) enhances the trade-growth nexus by facilitating technology transfer and increasing productivity.
- In the case of Uzbekistan, while exports are positively associated with GDP growth, the relationship is weaker due to concentration in a few primary commodities.

Variable	Coefficient	Significance	Interpretation
Trade Openness (TO)	+0.43	$p < 0.01$	A 1% increase in trade openness is associated with a 0.43% increase in GDP growth.
FDI (% of GDP)	+0.21	$p < 0.05$	FDI contributes to growth directly and indirectly via export performance.
Gross Capital Formation (GCF)	+0.39	$p < 0.01$	Investment complements trade in promoting growth.

Uzbekistan is making progress through reforms in vocational education, cluster development, and energy exports, but must expand these to include R&D, green economy integration, and digital trade platforms.

Indicator	Uzbekistan Finding	Global Panel Comparison
Export-GDP Link	Positive, but weak due to low diversification	Strong and significant
Import-GDP Link	No significant effect	Mixed results
FDI-GDP Link	Positive, especially post-2017 reforms	Significant driver of growth
Trade Openness Effect	Moderate, increasing since 2018	High impact, especially in Asia-Pacific
Human Capital Interaction	Underdeveloped	Strongly enhances trade-growth nexus
Institutional Quality Factor	Improving but still a constraint	Crucial determinant

Conclusion

This study confirms that international trade remains a vital engine of global economic growth, with consistent empirical evidence showing that trade openness, export performance, and foreign direct investment contribute significantly to GDP growth across countries. The panel data regression supports classical and modern trade-growth theories, reinforcing the importance of strategic integration into global markets, especially for developing and transition economies.

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The case of Uzbekistan illustrates both the opportunities and constraints of trade-led growth. Since initiating comprehensive trade liberalization and economic reforms after 2017, Uzbekistan has experienced improvements in export volumes, FDI inflows, and regional trade engagement. However, its export structure remains narrow, dominated by primary commodities, limiting the broader benefits of trade integration. Institutional weaknesses, limited logistics infrastructure, and underdeveloped human capital continue to constrain the effectiveness of trade policy as a growth lever.

The analysis also shows that while trade has the potential to accelerate growth, it is not a panacea. Without complementary investments in education, industrial upgrading, and infrastructure, the gains from trade can be short-lived or unequally distributed. Moreover, trade-dependent economies are increasingly vulnerable to global shocks, such as pandemics, geopolitical conflicts, or shifts in commodity prices, underscoring the need for resilience strategies through diversification and innovation.

For policymakers, the findings suggest a dual approach: strengthen integration into global trade systems while building internal capacities to produce high-value, exportable goods and services. In the case of Uzbekistan, aligning trade reforms with institutional modernization, digital trade facilitation, and green transition policies will be key to leveraging international trade for long-term, inclusive, and sustainable economic growth.

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ISSN 2319-2836 (online), Published by
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ISSN 2319-2836 (online), Published by
ASIA PACIFIC JOURNAL OF MARKETING & MANAGEMENT REVIEW.,
under Volume: 14 Issue: 06 in June-2025
https://www.gejournal.net/index.php/APJMMR

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