

Can CPEC Boost Pakistan's Manufacturing and Trade?

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The China-Pakistan Economic Corridor (CPEC) is often viewed as a collection of infrastructure projects, but its real potential lies in transforming Pakistan's industrial landscape. This article explores how productivity improvements drive economic growth, how CPEC can serve as a catalyst for such improvements, and how Pakistan can integrate itself more effectively into global trade networks.

1. PRODUCTIVITY AND ECONOMIC GROWTH: A THEORETICAL PERSPECTIVE

Productivity—the efficiency with which inputs like labor and capital are converted into outputs—is a fundamental driver of economic growth. Recent economic theories emphasize innovation, technology diffusion, and human capital as key determinants of productivity enhancement in developing countries. Endogenous Growth Theory, for instance, highlights how investment in knowledge, research

and development (R&D), and human capital accumulation fuels long-term growth. Similarly, Solow model underscores the role of technological progress in driving productivity beyond mere capital accumulation.

For Pakistan, low productivity has been a major impediment to industrial expansion. The country's manufacturing sector is characterized by inefficiencies, outdated technology, and skill gaps in the labor force. To compete in global markets, Pakistani industries must adopt productivity-enhancing measures such as automation, digitalization, and supply chain optimization. Here, CPEC presents a unique opportunity to integrate modern industrial practices, reduce operational inefficiencies, and boost competitiveness.

2. PRODUCTIVITY, OUTPUT, AND TRADE: THE LINKAGES

There exists a strong theoretical linkage between productivity, output, and trade. Higher productivity leads to increased output at lower costs, making industries more competitive in both domestic and international markets. Countries that enhance their industrial productivity typically experience a rise in exports due to cost efficiencies and quality improvements.

Take the case of China, which leveraged its productivity improvements to become the world's manufacturing hub. Through industrial policies, investment in infrastructure, and supply chain integration, China significantly reduced production costs and enhanced global trade participation. Pakistan can follow a similar trajectory by focusing

Technology Adoption: Integrating automation and artificial intelligence (AI) in manufacturing can improve efficiency and reduce waste.

Labor Productivity: Upskilling the workforce through vocational training programs tailored to industrial needs can enhance output quality.

Supply Chain Efficiency: Strengthening logistics and reducing transportation infrastructure bottlenecks can facilitate smoother trade flows.

With CPEC's transport networks and energy projects already underway, Pakistan has a foundation to capitalize on these linkages. The challenge now is to align policy reforms with these infrastructure developments to maximize economic dividends.

3. CPEC'S ROLE IN ENHANCING PRODUCTIVITY AND TRADE

A. Special Economic Zones (SEZs) and Industrial Clusters

One of CPEC's key features is the development of Special Economic Zones (SEZs) across Pakistan. SEZs have historically played a crucial role in boosting industrial productivity in countries like China, Vietnam, and Malaysia. These zones attract foreign direct investment (FDI), facilitate technology transfer, and provide a conducive environment for high-value manufacturing.

Pakistan's government has identified priority SEZs, including Rashakai (Khyber Pakhtunkhwa), Dhabeji (Sindh), M3 Allama Iqbal (Punjab), and Bostan (Balochistan). These zones aim to create industrial clusters that drive economies of scale and encourage backward and forward linkages in manufacturing supply chains. To make SEZs successful, Pakistan must ensure:

- Business-friendly regulatory frameworks to attract multinational corporations.
- Infrastructure readiness with reliable electricity, transportation, and digital connectivity.
- Sector-specific incentives tailored to industries having backward and forward linkages in Chinese and Pakistani supply chains.

B. Infrastructure Upgrades and Supply Chain Efficiency

CPEC's investments in roads, railways, and ports directly contribute to improving Pakistan's trade competitiveness. The expansion of Gwadar Port, for instance, offers an alternative trade route that reduces dependency on traditional transport channels. The reduction in logistics costs can enhance the price competitiveness of Pakistani exports, making them more attractive in regional and global markets.

Efficient infrastructure also reduces lead times in supply chains. For example, improved road networks between industrial hubs and ports ensure faster delivery of goods, thereby reducing inventory holding costs for manufacturers. If complemented by digital trade facilitation measures such as e-customs and automated clearance systems, Pakistan can significantly improve its ease of doing business ranking.

Technology Transfer and Human Capital Development

CPEC is not just about physical infrastructure; it is also about knowledge exchange. Chinese firms investing in Pakistan bring technological know-how and expertise that can be leveraged to modernize industries. Joint ventures, technology licensing agreements, and training programs can facilitate this transfer.

A prime example is China's success in upgrading its workforce through vocational training centers linked to industrial zones. Pakistan must adopt a similar model by establishing:

- Technical training institutes within SEZs to equip workers with relevant skills.
- Public-private partnerships (PPPs) to encourage knowledge-sharing between academia and industry.
- Innovation hubs to foster R&D collaboration between Pakistani and Chinese firms.

4. A WIN-WIN FOR PAKISTAN, CHINA, AND BEYOND

CPEC's impact extends beyond Pakistan and China. As part of the Belt and Road Initiative (BRI), CPEC is positioned to serve as a trade corridor connecting South Asia, Central Asia, and the Middle East. This opens opportunities for regional economic integration and global value chain participation.

For China, Pakistan's industrial growth means a more reliable trading partner and a stable market for Chinese exports. For Pakistan, integration into China's manufacturing ecosystem can provide sustained demand for its industrial products, particularly in sectors like textiles, agro-processing, and engineering goods.

Furthermore, CPEC enhances Pakistan's attractiveness as an investment destination. The introduction of financial instruments such as CPEC bonds and Islamic financing mechanisms like Sukuk can deepen capital markets and attract diversified funding sources.

5. POLICY RECOMMENDATIONS FOR MAXIMIZING CPEC'S BENEFITS

To ensure that CPEC delivers maximum productivity dividends, the following policy measures should be prioritized:

Industrial Policy Reforms: Streamlining regulatory procedures and reducing bureaucratic hurdles to attract investment in SEZs.

Export Diversification Strategies: Encouraging high-value-added industries such as information technology, pharmaceuticals, and precision engineering.

Public-Private Collaboration: Facilitating joint ventures between Pakistani firms and Chinese counterparts to accelerate technology transfer.

Infrastructure Sustainability: Ensuring that CPEC infrastructure projects are maintained effectively to prevent bottlenecks in trade and production.

China-Pakistan Free Trade Agreement (FTA): Leveraging CPEC to enhance dividends from FTA.

6. CONCLUSION

CPEC has the potential to be a game-changer for Pakistan's manufacturing sector and trade

competitiveness. However, infrastructure alone will not automatically lead to industrial growth. Productivity-enhancing strategies—ranging from technology adoption and workforce upskilling to supply chain optimization—are critical to realizing the full benefits of CPEC.

Alongside infrastructure and productivity improvements, governance reforms are essential for Pakistan to fully capitalize on CPEC's potential. Transparent regulatory frameworks, efficient policymaking, and institutional accountability can enhance investor confidence, reduce bureaucratic inefficiencies, and facilitate smoother trade and industrial operations. Strong governance fosters economic stability, ensuring that CPEC-driven into long-term industrial growth translates competitiveness, higher exports, and sustainable economic progress.

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Picture courtesy of Tetra Pak