

Unveiling Urban Dynamics: A Bidirectional Analysis of Resilience and Logistics Performance In The Face Of Global Challenges

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ABSTRACT

The research investigates the intricate interplay between urban resilience and logistics performance, focusing on the Resilient Cities Index and the Logistics Performance Index (LPI) for the year 2023. As cities globally grapple with unprecedented environmental and geopolitical challenges, understanding the relationship between their resilience and logistical efficiency becomes crucial. The study employs regression analysis to explore how components of the Resilient Cities Index impact the LPI and vice versa, utilizing data from 25 cities. Noteworthy findings include Critical Infrastructure and Socio-Institutional factors significantly influencing logistics performance, highlighting the bidirectional relationship between urban resilience and logistics efficiency. The analysis provides valuable insights for policymakers, suggesting that strengthening critical infrastructure, improving socio-institutional frameworks, and addressing specific logistics components can enhance both urban resilience and logistics performance. The research contributes to informed policy decisions and strategic urban planning, emphasizing the need for an integrated approach to foster sustainable and adaptive urban environments.

Keywords: Urban Resilience; Logistics Performance; Resilient Cities Index; Logistics Performance Index; Bidirectional Relationship; Critical Infrastructure; Socio-Institutional Frameworks; Regression Analysis; Sustainable Urban Development.