

An Analytical Study of the Impact of Logistics Services on the Trade Dynamics of the Algerian Economy

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Abstract

This study examines the impact of logistic services on Algeria's trade dynamics, focusing on export growth and competitiveness. Using data from the World Bank's Logistics Performance Index (LPI) from 2007 to 2023, the objective is to analyze how logistics dimensions—specifically customs efficiency, infrastructure quality, and timeliness—affect export volumes, a key trade performance indicator. Through econometric modeling in R software, including correlation, multiple regression, the study assesses the relationship between LPI scores and export volumes.

Results show that improvements in customs efficiency, infrastructure quality, and timeliness significantly enhance Algeria's exports, while logistics competence and tracking remain areas needing improvement. These findings underscore the need for targeted infrastructure investments and logistics reforms to strengthen Algeria's trade competitiveness and support economic diversification beyond hydrocarbons.

Keywords

Logistics Performance, Algeria, Trade Dynamics, Export Competitiveness, Infrastructure Quality.

