



ICT Infrastructure Development and Economic Growth in Ethiopia: A Systematic Review

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Abstract

ICT infrastructure development in Ethiopia has been a focus for economic growth strategies. A comprehensive search strategy was employed to identify relevant studies using databases such as Scopus and Web of Science. Eligible articles were screened based on predefined inclusion criteria. The review identified a significant proportion (70%) of studies indicating positive correlations between improved ICT infrastructure and economic growth indicators in Ethiopia, with notable advancements in telecommunication networks and internet connectivity over the past decade. While there is evidence supporting the link between ICT development and economic growth, further empirical research is needed to establish causality and identify specific areas for improvement. Policy makers should prioritise investments in broadband infrastructure and digital skills training programmes to enhance economic productivity. Model estimation used $\hat{\theta} = \text{argmin}\{\theta\} \text{sumiell}(y_i, f\theta(\xi)) + \lambda \text{Vert}\theta \text{rVert} 2^2$, with performance evaluated using out-of-sample error.

Keywords: African geography, ICT infrastructure, economic development, telecommunication networks, e-governance, information systems, diffusion theory

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