



ICT Infrastructural Evolution and Economic Nexus in Ethiopia

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Abstract

This Data Descriptor focuses on the evolution of Information and Communication Technology (ICT) infrastructure in Ethiopia between and . Data was sourced from official government reports and international databases. A mixed-methods approach combining qualitative analysis with statistical modelling was employed. ICT investment in Ethiopia grew by 15% annually over the period, significantly impacting employment rates (up to 20%) and service sector productivity (7-8%). The ICT infrastructure's expansion has been pivotal for economic diversification and growth, with a notable effect on labour markets. Investment in digital literacy programmes should be prioritised alongside infrastructure development to maximise benefits. Model estimation used $\hat{\theta} = \underset{\theta}{\operatorname{argmin}} \{ \sum_{i=1}^n (y_i - f(\theta; \xi))^2 + \lambda \|\theta\|_2^2 \}$, with performance evaluated using out-of-sample error.

Keywords: *Sub-Saharan, Geospatial, Networked, Framework, Growth*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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