

Intelligent Transport Infrastructure Development, Leadership Governance, and Economic Growth: A Case Study on Ethiopia*

¹BADADA Bayissa, ²RAMASWAMY Krishnaraj and ³GNANADHAS Delina

^{1, 3}Kalasalingam Academy of Research and Education (Deemed to be University),
Krishnankoil, Srivilliputhur- 626126, Tamil Nadu, India

²Dambi Dolo University, Dembi Dollo 000260, Ethiopia

Correspondence should be addressed to: BADADA Bayissa, bayissabadada@yahoo.com

* Presented at the 43th IBIMA International Conference, 26-27 June 2024, Madrid, Spain.

Abstract

Ethiopia, a landlocked country in sub-Saharan Africa has given high priority to intelligent transport infrastructure. This study assesses the economic impact of intelligent transport infrastructure, and the moderating effect of leadership governance environments. To find the impact of intelligent transport infrastructure, the co-integration between intelligent transport infrastructure and economic growth is determined by performing F-test using the autoregressive distributed lag bound test model and then, the elasticity of economic growth is estimated using Ordinary Least Square estimation techniques. The results show that intelligent transport infrastructure has a significant long-term positive impact on economic growth and the short-term dynamics shows the speed of adjustment is 10% adjusted each year toward the long-run path. The moderating effect of the leadership governance environment examined using hierarchical multiple regression model yielded results about its substantial moderating effect on the relationship between intelligent transport infrastructure and economic growth.

Keywords: intelligent transport Infrastructure, Economic Growth, Leadership Governance, GDP,