AccraIQ Municipal Transit Optimization

Comprehensive Analysis Report Generated: July 18, 2025

Executive Summary

ROUTE REDUCTION

38.9% 253 of 651 routes

COVERAGE RETAINED

92.0%

4,337 km maintained

ANNUAL CO₂ SAVED

2,065

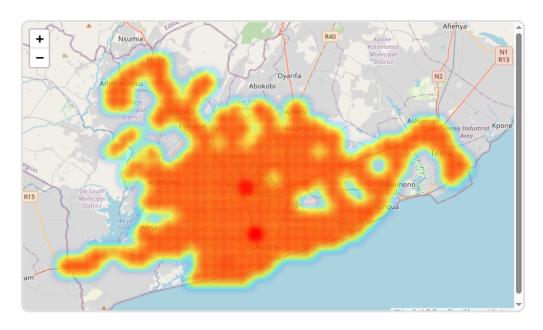
tonnes per year

ANNUAL SAVINGS

¢15,786,9 87

> total economic benefit

Transit Stop Density Heatmap



High-density areas indicate clusters of transit stops across Accra.

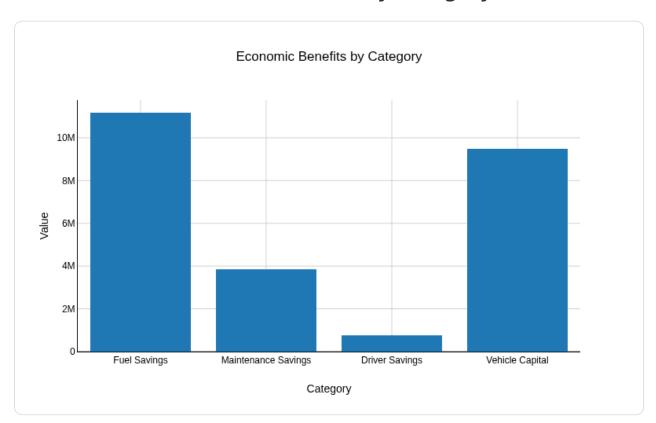
Economic Impact Analysis

• Fuel Savings: ¢11,174,657

• Maintenance Savings: ¢3,853,330

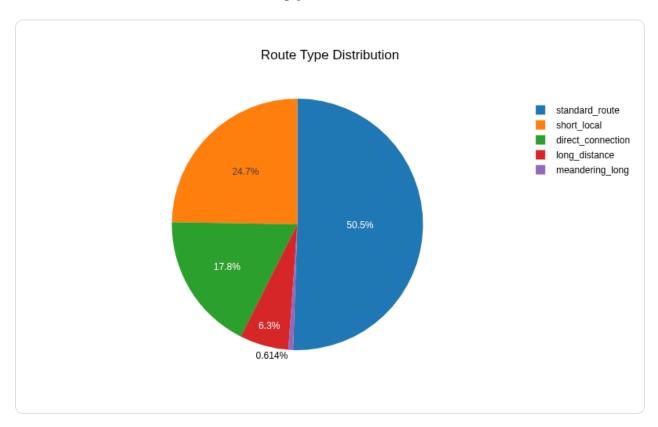
Driver Savings: \$\psi_759,000Total Annual: \$\psi_15,786,987

Economic Benefits by Category



Network Analysis

Route Type Distribution



Original Network: 651 routes, 6537 km
 Optimized Network: 398 routes, 4338 km

• Length Reduction: 33.6%

Network Visualization Comparison

Original Network

New Carrier New C

All 651 routes (6537 km total)

Optimized Network



398 selected routes (4338 km retained)