

AccraIQ Municipal Transit Optimization

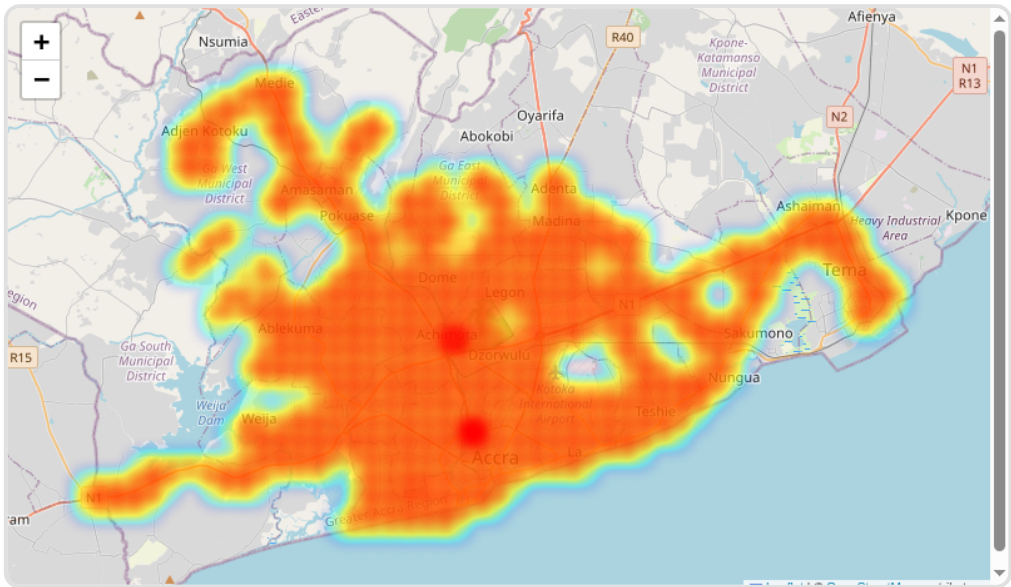
Comprehensive Analysis Report

Generated: July 13, 2025

Executive Summary

<div>ROUTE REDUCTION</div> <div>38.9%</div> <div>253 of 651 routes</div>	<div>COVERAGE RETAINED</div> <div>92.0%</div> <div>4,328 km maintained</div>	<div>ANNUAL CO₂ SAVED</div> <div>6,049</div> <div>tonnes per year</div>	<div>ANNUAL SAVINGS</div> <div>¢39,383,561</div> <div>total economic benefit</div>
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Transit Stop Density Heatmap

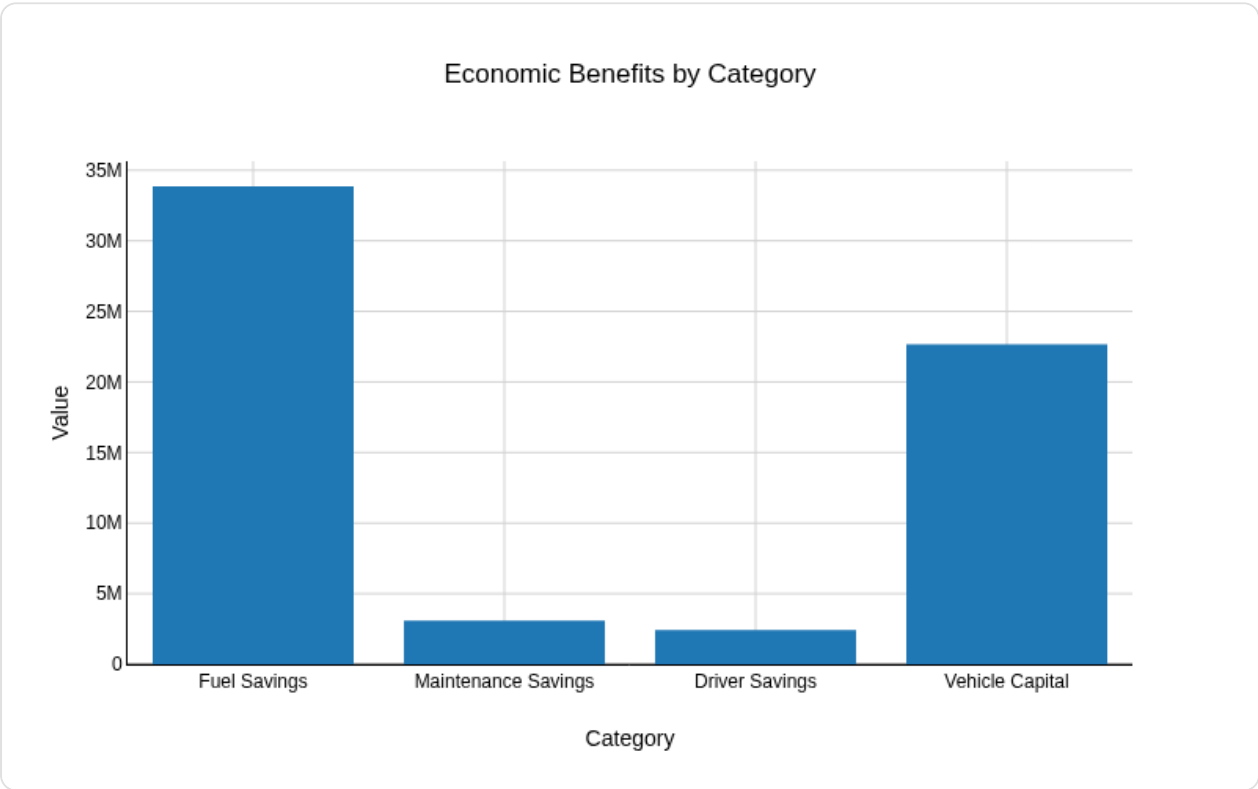


High-density areas indicate clusters of transit stops across Accra.

Economic Impact Analysis

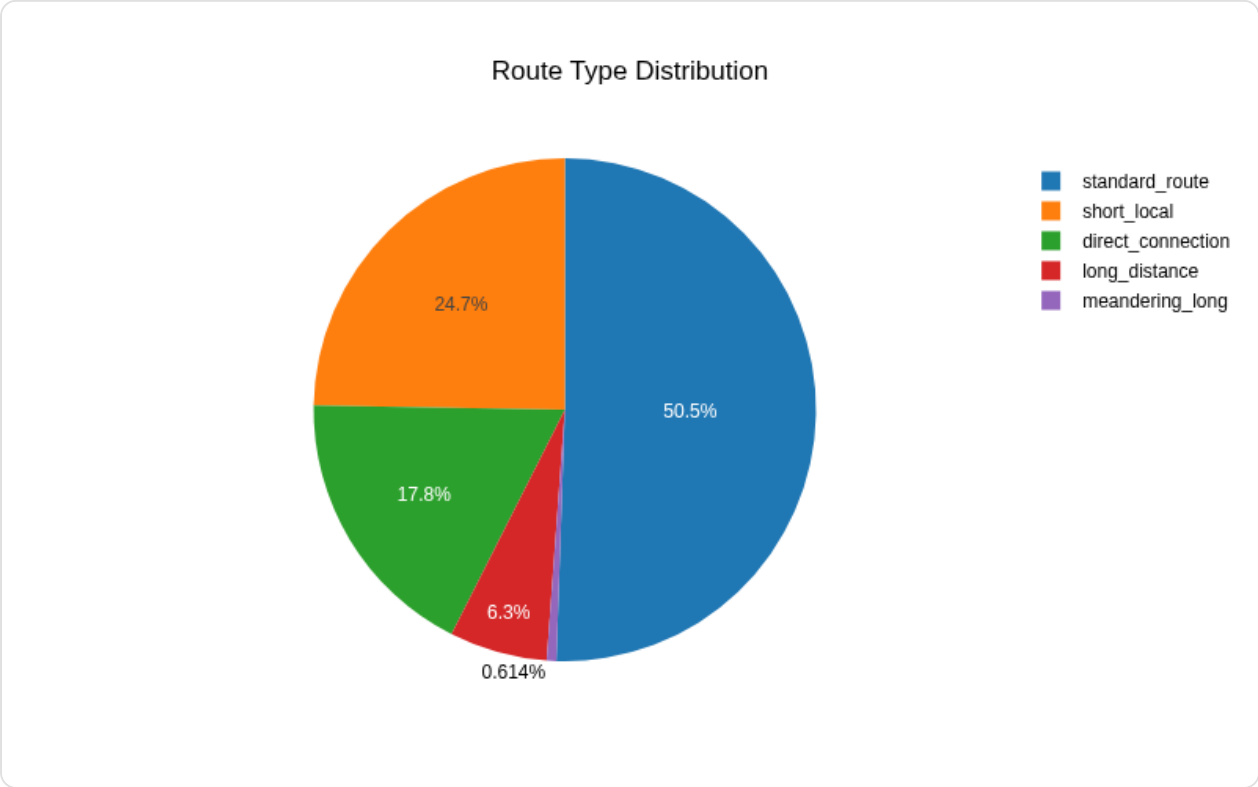
- **Fuel Savings:** ₺33,859,074
- **Maintenance Savings:** ₺3,095,686
- **Driver Savings:** ₺2,428,800
- **Total Annual:** ₺39,383,561

Economic Benefits by Category



Network Analysis

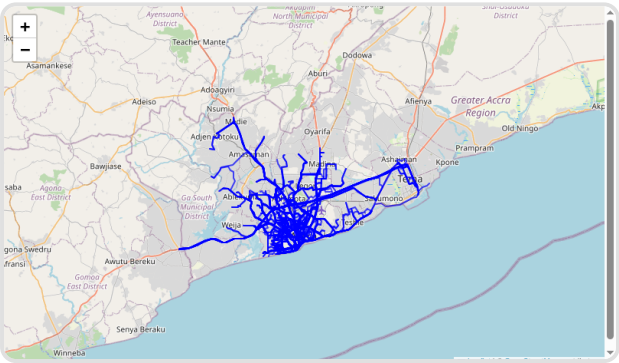
Route Type Distribution



- **Original Network:** 651 routes, 6537 km
- **Optimized Network:** 398 routes, 4329 km
- **Length Reduction:** 33.8%

Network Visualization Comparison

Original Network



All 651 routes (6537 km total)

Optimized Network



398 selected routes (4329 km retained)