

Quantifying Long-Haul Trucks on Florida's Highways

EXECUTIVE SUMMARY

- *Planners needed data for highway trucks passing by 10 different exits.*
- *Big Data analysis separated local truck trips from long-haul trips.*
- *Analysis captured where trucks were entering and exiting highway.*

The Florida Department of Transportation needed to determine whether long-haul truck trips were a significant percentage of I-75 traffic. They turned to Big Data to separate long-haul from short-haul truck traffic.



Mission

FDOT has permanent highway sensors that capture truck volume data for a targeted stretch of highway. The volume sensors indicated that more trucks used I-75 than I-95 or other north-south corridors. They also indicated that heavy- and medium-duty trucks contributed a significant 15-20% of the total vehicle volume on I-75.

What sensors didn't capture was data on what percentage of those I-75 trucks were short-haul traffic (entering at one of the 10 ramps and exiting a few ramps later) versus long-haul traffic (moving through the entire corridor).

This data was critical because planners knew that shifting 18-wheeler trucks off the main highway could free up a lot of car space. But trucks entering at one ramp and exiting a few ramps later could be more difficult to shift with traffic mitigation, and shifting short-haul freight ultimately wouldn't make as much of an impact.

FDOT needed to understand how much of the total truck traffic was long-haul to determine if truck mitigation measures made sense.

"StreetLight Data is the most efficient way for us to differentiate if the truck traffic was long-haul or short-haul."

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