



Project Name: City of Philadelphia Citywide Traffic Signal Retiming Initiative
Owner/Client: City of Philadelphia
Type of Project: Traffic Engineering
Location: Philadelphia, PA
Completion Date: June 2014

Project Description

The City of Philadelphia seeks to improve mobility and the flow of traffic along 21 major corridors within the City. There are a total of 612 traffic signals along these corridors. Ineffective traffic signal timing could account for a significant percentage of delay along arterial streets. Retiming the traffic signals remains one of the most cost effective ways to improve traffic flow, increase capacity, and reduce congestion.

KMJ's Approach

KMJ has completed all aspects of the project including data collection, Synchro analysis, travel time and delay studies, user delay cost analysis, and reports.

KMJ initiated use of BlueTOAD™ devices (using anonymous Bluetooth technology) to measure travel times along the corridors. Bluetooth provides a rich 24/7 data set that enables the project team to determine changes in travel time and speed by time of day and day of week. This provides additional valuable information relative to setting traffic signal timing and coordination patterns to improve mobility.



Client Benefit

KMJ introduced the City to the Bluetooth™ approach; thereby saving significant time and money for the before and after studies.

*"Karen's team does an excellent job of advising us and guiding the project to a successful conclusion where everyone comes out a winner."
– Darin L. Gatti, PE, Chief Transportation Engineer, City of Philadelphia Department of Streets*

Client Contact/Reference

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