TRAFFIC SIGNAL TIMING AND COORDINATION SERVICES

One of the questions that most traffic signal engineers often ask is “how to know the signals are running the best coordination possible?” There are three steps to best address this question: (1) Make sure you have the best progression bandwidth in a time-space diagram; (2) Make sure the signals are running the correct timing; and (3) Generate Quality of Signal Timing (QOST) index based on field travel runs.

Here is how our service works:

- You supply us the existing timing data, either in Synchro or directly from the controllers.
- We will give you our insights about the quality of your signal timing plan.
- If we believe improvements can be achieved, we will provide you the time-space diagrams for your existing plan and our optimized plan (see picture below), using your existing cycle and phase splits without having to conduct the volume counts.

*There is no cost associated with the above service.*

- If you would like to try the new timing plan, we will help you to quickly implement the new timing plan.
- We will collect travel time runs with GPS tracks laid on top of time-space diagrams (see picture below), providing convincing and unbiased before-after comparisons.
- We will produce the Quality of Signal Timing index using the state-of-the-art TranSync tool.

More information about TranSync and demos can be found in the following links:

TranSync Software Overview: [https://www.youtube.com/watch?v=lqo5pkl9hfs](https://www.youtube.com/watch?v=lqo5pkl9hfs)
Case Study for Caltrans District 8: [https://www.youtube.com/watch?v=9PqKvnwRHP8](https://www.youtube.com/watch?v=9PqKvnwRHP8)