300 Traffic Signals, One Retiming Project: Lessons Learned
26 corridors

281 traffic signals

4 times of day
Scope Definition

- identify the major corridors
- define the corridor limits
- recognize signals to be excluded
  - isolated signals (near the city fringes, neighborhood school signals)
  - non-system signals
Schedule and Team

- larger project = longer schedule
- everything from data collection to implementation takes more time and resources
- team continuity is essential
Data Collection

- clarify what data is needed
  - think ahead!
- pinpoint locations
- consider the community
  - multiple school districts
  - atypical peak hours
Timing Parameters

- understand the existing timing parameters thoroughly
  - what to keep
  - what to change
- adhere to the relevant standards
Cycle Length Selection

- accommodate all timing parameters
- per corridor vs. entire network
- differing cycle lengths
  - fractional cycles (½, ⅔, ¾)
  - discontinuous boundaries
Fine-Tuning

- consider crossing corridors
- if problem spots appear,
  - find an innovative solution
  - without disrupting the rest of the network
  - that still adheres to the overall goal of the project
Implementation

- focus on bite-sized pieces
- keep the schedule flexible
- rely on constant communication
Creativity involves breaking out of established patterns in order to look at things in a different way.

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