

A vertical image of a traffic light on the left side of the slide. The light is partially visible, showing the red, yellow, and green lenses. The background is a clear blue sky.

Traffic Responsive Coordinated System

- Requires System Detectors
- System Detection Calibration Required to Determine Plan Selection Thresholds
- Library of Coordinated Plans to match Common Historical Congestion Patterns
- Common Cycle Length Throughout the System during each Plan
- Can Cause Plan Transition Issues



Traffic Responsive Systems (Cont'd.)

- Uses Closed Loop, On Street Master Controller for Plan Selection
- OSM has Limited Processing Capabilities, so System Detection is Limited
- Autonomous
- Low Cost
- TransSuite Central System can also perform Traffic Responsive Functions



Fully Adaptive Systems

- Real Time Adjustment of Split, Cycle Length, and Offset
- Based on Degree of Saturation for Multiple Approaches Throughout the System
- Requires Off-Street Central Server and Associated Communications Network for Increased Processing Power Requirements
- Server to Signal Communication is Critical



Fully Adaptive Systems (Cont'd)

- Central Server Monitors Network Wide Traffic Flow and Adjusts all Traffic Signals in the Network to Match the Current Traffic Flow
- Newer Systems (InSync) Use Real Time Micro simulations Populated With Real Time Data to Generate Signal Timing
- Highest Cost

