

## Opticom™ Infrared and GPS Systems Transit Signal Priority (TSP) Systems

### Benefits of Using Opticom™ Systems:

- ✓ Transit signal priority (TSP) and emergency vehicle preemption (EVP) systems are compatible and can be integrated in your community - one investment benefits multiple agencies
- ✓ Opticom systems for EVP and TSP can be deployed easily within 90-120 days
- ✓ Over 35 years of proven industry and product performance – GTT was formed from 3M's pioneering intelligent transportation systems
- ✓ 1 Job-year creation for every 5 intersections installed (350,000 intersections in the US)

### Benefits of Using Transit Signal Priority:

- ✓ Increases air quality and environmental sustainability – saves fuel consumption (up to 19%), reduces “emissions” (up to 30%) via shortened travel time and reduced number of stops and idle time at signalized intersections
- ✓ Encourages transit system ridership and interconnect communities with faster transit and service consistency
- ✓ Improves on-time arrival on transit vehicles with little impact on cross street traffic
- ✓ Improves travel times on bus routes by as much as 20%
- ✓ Reduces delay by up to 30-40% and queuing time for buses helping maintain schedules and keeping a more consistent travel time and service time for loading and unloading passengers.
- ✓ Reduces operating expenses by saving fuel consumption (by up to 19%) with reduced number of stops (by up to 32%) and idle time at signalized intersections
- ✓ Help maintain current level of transit service as general traffic volumes and congestion grow in a community
- ✓ Vital technology to enable queue-jumping, Bus Rapid Transit Systems and Electronic High Occupancy Vehicle lanes

### References:

"Investment Opportunities for Managing Transportation Performance: Background Information on Candidate ITS Technologies", Published January 16, 2009 by the U.S. Department of Transportation, Intelligent Transportation Systems Joint Program Office

"Transit Signal Priority and Automatic Vehicle Tracking System for Calgary Transit Buses" Published May 2004 by Calgary Transit Planning

"St. Cloud Metropolitan Transit Commission – Transit Priority Operation Analysis" Published January 2002