

# City of Lakewood Colorado

## Advanced Traffic Management System

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# Background

- The City of Lakewood is on the west edge of the Denver metro area
- Two major freeways go east/west through the city
- Incidents on the freeways reroute traffic onto city surface streets

## In the Beginning.....

- Traffic management was becoming more difficult with a 20 year old computer system
- The city wanted to replace the old system with a new system that was scalable and modular in design
- Implement the items in the National ITS Architecture that applied to Lakewood

# In the Beginning.....

- Use the National Transportation Communications for ITS Protocol (NTCIP) for communications
- Incorporate as much Commercial off the Shelf (COTS) software as possible
- Design a system that will communicate on leased lines and fiber optic cable

## What Happened??

- Lakewood chose a TransCore Series 2000 traffic signal computer system
- Controls 1600 devices
- Communicates using NTCIP over leased lines and fiber optic cable

## Video – Video - Video

- Installed 5 locations using video for vehicle stop bar and system detection
- Two surveillance cameras in place
- Panasonic video switch and cameras in use

# Is There Fiber in your Life?

- Public/Private partnership for the installation of fiber optic cable
- 12 of the unlit fibers for traffic signal system use
- Currently have 9 intersections and two cameras on fiber

# Talking to “Big Brother”

- Center to center project between Lakewood and the Colorado Department of Transportation (CDOT)
- Fiber optic connection between the two centers
- CDOT control after hours

# Low Tech Incident Management

- Trailblazer signs made “in – house”
- Dial up system for turning on the trailblazer similar to existing systems for school flashers
- Electric power only ongoing cost – Looking at solar power for future installations

## Where Do We Go From Here ?

- Changing out 130 controllers and cabinets by 2003
- 22 more surveillance cameras by 2003
- 16 more locations with video detection by 2002

## Questions ??

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