# City of Minneapolis
# Traffic and Parking Services

## Traffic Signal Retiming Projects
## May 17, 2011

# Traffic Signal Retiming Projects

- Retime all of the traffic signals in the City over the next 3 years
  - Three project areas - Central Business District, South and North

- Identified in Capital Improvement Program TR010 (Traffic Management Systems)

- Federally funded through Congestion Mitigation Air Quality (CMAQ)
  - Applied for funding in 2005 and 2007
  - 80% federal funds, 20% local (County State Aid, Municipal State Aid, NDB)
  - Total funding for all retiming projects = $1,838,000 ($1,470,400 is federal and $367,600 is matching.

## Project Goals

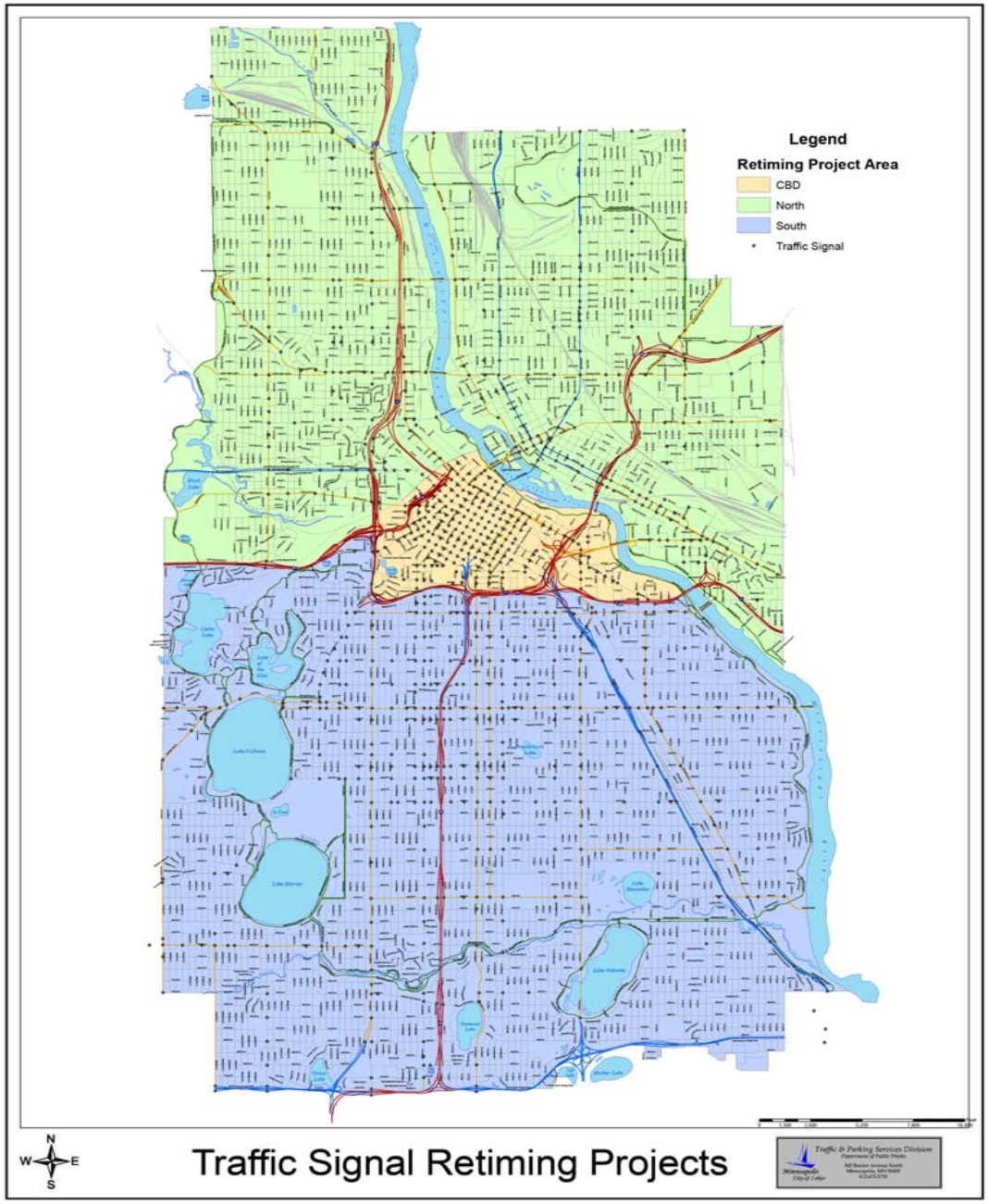
- Minimize delay and congestion for all modes of transportation

- Reduce fuel consumption and vehicle emissions

- Identify operational improvements ( i.e. adding left turn phases or switching existing left turn phasing from lead to lag, etc.)

## Project Timeline

- Central Business District Area
  - Start – March 2011
  - End – July 2012
- South Area
  - Start – June 2011
  - End – January 2013
- North Area
  - Start – January 2012
  - End – July 2013



# Traffic Signal Retiming Projects

- Each traffic signal retiming project involve the following tasks:
  - Collect traffic turning movement and roadway volume counts, including bikes and pedestrians.
  - Collect transit data (bus stop locations, avg. ridership, bus volumes, etc)
  - Conduct travel time runs of several corridors (before and after)
  - Field observations and collection of existing geometrics of intersections
  - Build and evaluate a traffic model of existing conditions and compare to field observations
  - Determine new signal timing parameters and create new plans for each peak period
  - Build a traffic model with new timing plans and compare to the model of existing conditions
  - Implement new timing plans, field verify and adjust as needed

## Questions?