

### Added Capacity -HOT Lane Workshop National Road Pricing Conference June 4, 2010

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# Workshop Purpose

Provide hands-on practice in applying lessons learned and best practice from implemented projects across the country

- Understand the challenges in implementing pricing projects
- Move pricing forward in your area

# Workshop Agenda

- Review of Project
- Break into groups for exercises
- Five subject areas covered
  - 5-10 minute overview of subject area
  - 20-25 minutes to complete exercise
  - Break for lunch after second round of exercises
- Group reports

# **Subject Areas**

- Planning
- Operations
- Design
- Funding and Finance
- Outreach

No specific order, all have overlapping elements

### **Our Project**

Length: 15 miles

6 lanes with full shoulders

165,000 AADT and growing

Peak period speeds as low as 30 mph

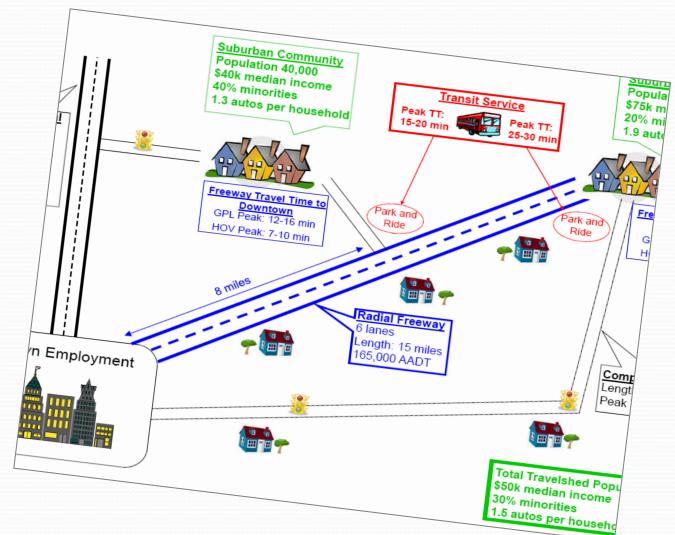
**Competing Facilities** 

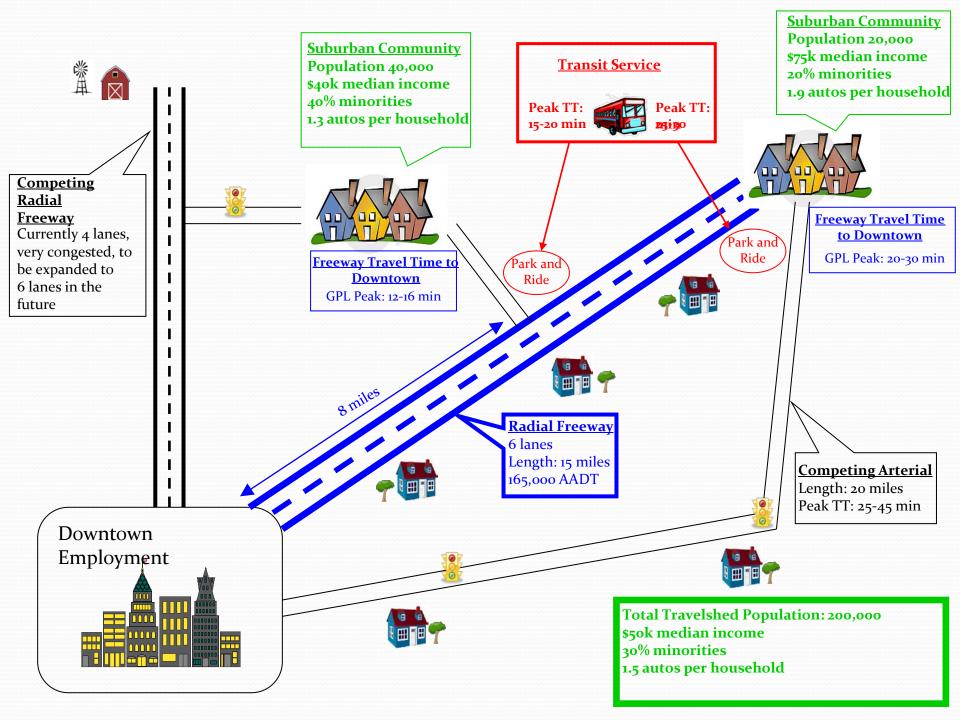
Arterial servers suburban community at the end of the study corridor

Nearby radial freeway to be expanded in the near future

Transit Facilities Serves entire corridor

2 Park and Ride lots



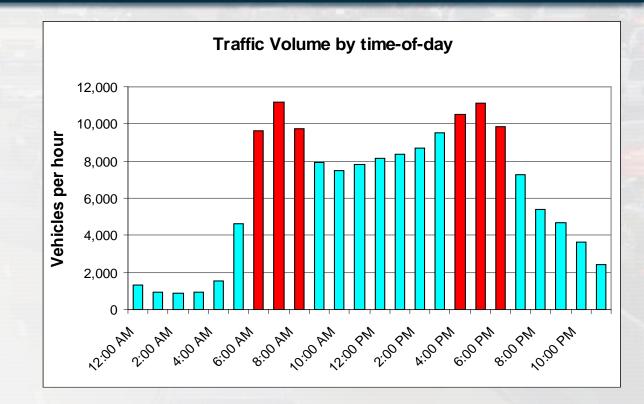


### • Corridor History

- Congestion worsening
- Downtown businesses seeking alternatives to bring more commuters downtown
- Opposition to capacity improvements on adjacent radial corridor from environmental interests
- Corridor demographics
  - Varies by sub-area
  - Total travelshed population = 200,000
  - \$50,000 median income
  - 30% minorities
  - 1.5 autos per household

General Purpose Lanes

- 6 lanes with 10' shoulders
- 165,000 AADT and growing

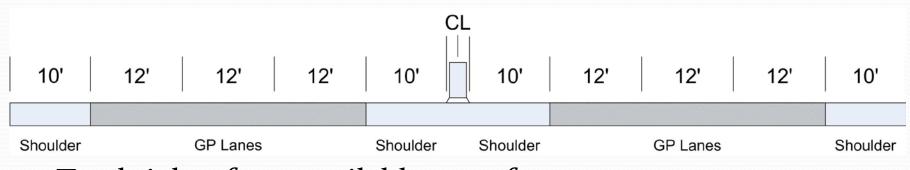


### **Project Partners**

- State DOT
  - Owner of lanes and ROW
  - Operator of freeway
- Transit authority
  - Operator of express bus service and park-and-ride facilities
- Regional toll authority
  - Operates one toll road in region
    - Cash and transponder-based electronic tolling
- Metropolitan Planning Organization

- Legal authority HOT and express allowed by state statute
- Regional policies No policies on toll rate setting, occupancy, etc.
- Project partners state DOT (owner of ROW), transit authority, regional toll authority, state police
- Toll authority currently operating one toll road in region with ETC (transponder) and cash
- Environmental clearance FONSI expected

Cross section



- Total right of way available: 200 feet
- Access
  - Location and method of access undetermined
- Enforcement
  - Subject to design and location

- Estimated project costs
  - Capital costs: \$ 50,000,000
  - Annual operating costs: \$ 1,000,000
- Available funding
  - State is committed to contributing \$ 28,000,000
- Traffic and revenue studies none
- Revenue sharing potential Regional toll authority, private partner
- Possible funding partners Regional toll authority, private partner

# Planning

- Establish goals and objectives and clearly communicate a vision
- Take advantage of opportunities
- Maintain flexibility
- Engage project partners and encourage agency cooperation

### **Planning Exercise**

Planning Group Exercise Develop an Action Plan that identifies the steps necessary in the planning process to support the project. What are the sequential steps to plan the project?

What are the project goals?

Who are the players and what are their roles?

# Operations

- Develop a Concept of Operations to guide the process
- Establish Operational Policy
- Leverage technology and operational strategies
- Implement and maintain stakeholder group
- Identify design and legislative impacts of operational goals
- Enforcement strategies

#### **Operations Exercise**

**Operations Group Exercise** Develop an Action Plan that identifies critical operational issues that need to be addressed What are the roles and responsibilities of partner agencies? How will the facility integrate into existing systems? What are the appropriate measures of effectiveness and thresholds for performance?

# Design

- Identify user groups for the HOT lanes
- Provide safe and efficient design
- Provide enforcement areas
- Communicate to the public at the roadside

### **Design Exercise**

Design Group Exercise

Develop an action plan that addresses critical design elements. Identify user group(s) for the HOT lanes.

What is the preferred typical section?

What are the roles and responsibilities of partner agencies?

# **Funding and Finance**

- Consider any and all funding and/or financing mechanisms
- Available assistance through federal programs
- Stakeholders
- Revenue sharing

#### **Finance Exercise**

Finance Group Exercise Develop a financial plan that will allow for the successful design, construction, Who owns the lane(s) and right-of-way (ROW)?

Were FTA funds used for the HOV project?

Is the project eligible for an urban partnership agreement grant or a value pricing pilot program grant?

# Outreach

- Identify project champions
- Conduct market research and identify issues
- Develop clear and concise messages
- Communicate project goals
- Continue from project development through operations
- Create brand awareness

#### **Outreach Exercise**

**Outreach Group Exercise** Develop a communication/marketing plan that will support project implementation and operation. Outline sequential steps in outreach plan.

Who are the stakeholders?

What are the most appropriate communication methods? Will they vary throughout the corridor? If yes, how so?

# **Breakout Group Reports**

