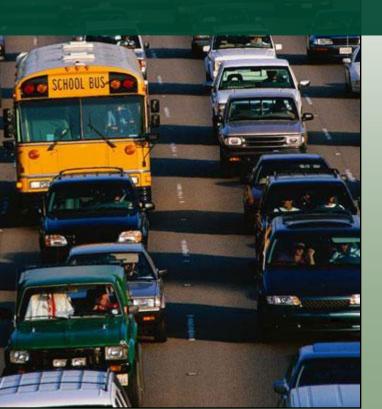


Congestion Pricing Institutional Issues



FHWA Webinar Series:
Overcoming the Challenges
of Congestion Pricing

Donald Samdahl, Fehr & Peers

Background



- Successful Congestion Pricing Projects blend several features:
 - Location
 - Modes
 - Technology
 - Funding
 - Partnerships
- Institutional relationships are key to moving the projects into implementation



Institutional Topics

Topic	Examples
Intra-agency	Roles and responsibilitiesProject championsResources
Inter-agency	Project ManagementRevenue sharingAgreements
Legislative	Enabling legislationPolitical supportPublic consensus
Implementation	Project deliveryDaily operations

FEHR & PEERS

Webinar Purpose

 Identify institutional lessons learned from Congestion Pricing Projects

- Presentations:
 - Atlanta- I-85- Patrick Vu
 - Los Angeles- Stephanie Wiggins
 - Miami- I-95- Jeff Weidner and Jim Udvardy
 - Federal Perspective- Patrick DeCorla-Souza



UPA/CRD Atlanta Institutional Lessons Learned to Date



Presented by: Patrick Vu, P.E. Georgia State Road and Tollway Authority April 19, 2011



Overview

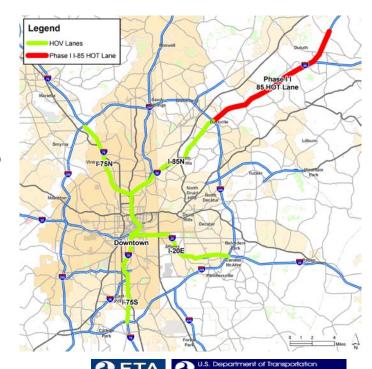
- Atlanta I-85 CRD Background
- Determining Needs and Solution
- Roles and Responsibility
- Interagency Relationship
- Project Delivery
- > Financial Issues





USDOT CRD Grant for I-85

- \$110 million USDOT Congestion Reduction Demonstration (CRD) grant awarded on November 21, 2008
- I-85 Express Lanes, \$60 million
 - ~16 miles long, from Chamblee Tucker near I-285 to Old Peachtree Road
 - Existing HOV2+ lane conversion to HOT3+
 - GDOT civil construction, SRTA tolling system implementation and operations
 - Open August 2011
- Regional transit improvements, \$122 million
 - New Xpress Park and Ride Lots including 3 along I-85
 - New Xpress commuter coaches
 - Georgia Regional Transportation Authority construction and operations of Xpress
 - Transit completion in 2012
- Total cost \$182 million















Determining Needs and Solution

- ➤ Finding the common ground, "Transportation Choice" to address regional congestion
 - "Can't build your way out of it"
 - ➤ Holistic transportation solution approach
 - Tolling, transit, technology, not mode transportation biased
- ➤ UPA/CRD program galvanized local partners
 - ➤ "New" money, not taking away from existing transportation initiatives
 - Opportunity from the Federal level, demonstration with Federal funding
 - Ultimately had to make commitment to implement instead of doing another study
 - ➤ Tight time schedule need to make decision quickly, visible results wanted quickly





Roles and Responsibilities

- "Who is in charge of the project?" is an important question to answer early on
 - ➤ Agency/authority lead roles
 - ➤ Operators/designers (DOT, Toll Authority, Transit Authority, Dept. of Public Safety)
 - Regulators (MPO, Dept. Natural Resources, EPA, FHWA, FTA)
 - > Project champions at all levels, elected officials to staff levels
- > Teams with were created based on essential disciplines
 - ➤ Policy
 - > Finance
 - ➤ Public Outreach
 - > Environmental

- ➤ Civil design
- Tolling design/Traffic Management Center
- > Enforcement
- > Transit





Interagency Relationships

- ➤ 3 lead agencies proposed on the grant together (DOT, Tolling, Transit), but engaged partners from the beginning during grant writing
- Strong support from elected officials, particularly the Governor
- Educating agency leaders, boards, elected officials, and staff on pricing
 - One-on-one briefings
 - ➤ Workshops, as part of transportation retreat
 - Expert panels/Peer-exchanges
 - ➤ Many listening sessions to hear concerns
- ➤ Coordination of project messaging, staying on message
 - Press releases, public outreach, environmental outreach, marketing
- ➤ Same people have been actively involved from grant writing, project development, procurements, through to implementation. Thus preserves institutional knowledge and provides project continuity.





Project Delivery

- ➤ With the accelerated time schedule, the agency partners needed to figure out how to do some things differently
- > Procurements
 - Design-build, design-bid build, potential outsourcing of operations
 - ➤ Reducing technology procurement risks by partnering with vendors during RFP proposal submittal process
 - Open protocols/standards and multi award contracting for technology
- Permitting
 - Projects in the TIP and STIP
 - ➤ Air quality permitting (PM 2.5/NOx, Transportation Control Measures, Non-attainment area)
 - NEPA Environmental Assessment





Financial Issues

- "Who is in charge of keeping track of fund?" Need official budget keeper
- Managing multi-agency financial committed and funding sources
 - Multiple funding sources: General Obligation Bonds, Motor Fuel Tax, RITA grant, FTA toll revenues, etc
 - Multiple MOUs and procurements
 - Complex flows of funds and expenses
- ➤ Toll revenue policy considerations
 - ➤ Anticipated revenue based on Traffic and Revenue study
 - ➤ Address potential revenue shortfalls during ramp up
 - ➤ Long term operational costs
 - > Existing formula funding and original fund sources for the facility
 - > Regional vs corridor policy
 - > FHWA vs FTA vs regional policies and statues
 - > Funding for system build out, transit, etc

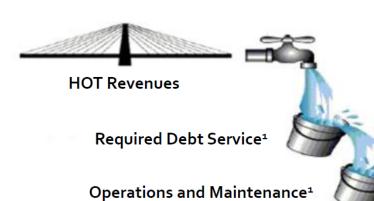




Financial Issues

> Flow of revenue funds considerations

HOT Revenue Expenditure Diagram



Contributions to Reserve Accounts¹

(Reconstruction, Resurfacing, Restoration, & Rehabilitation)

Reimbursement for state contributions to cover costs above due to insufficient revenues

Reimburse state entities for planning, design, construction or installation of the HOT lanes for non-borrowed state funds







QUESTIONS?

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Metro ExpressLanes

Institutional Lessons Learned, April 19, 2011



Program Overview

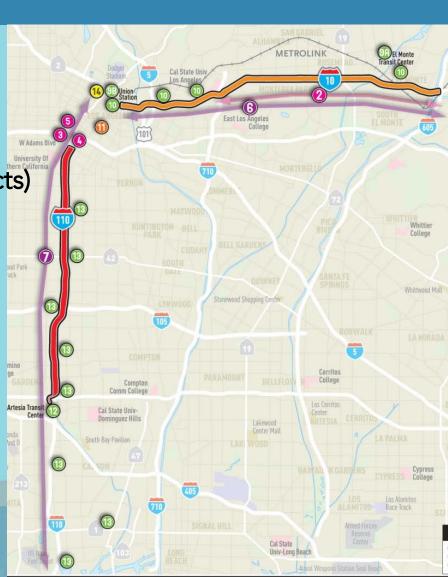
 Conversion of HOV lanes to HOT lanes on I-10 and I-110

> Multi-modal Integrated Corridor Emphasis (15 individual projects)

1 of 6 Nationwide
 Federal Demonstration Projects
 for Congestion Pricing

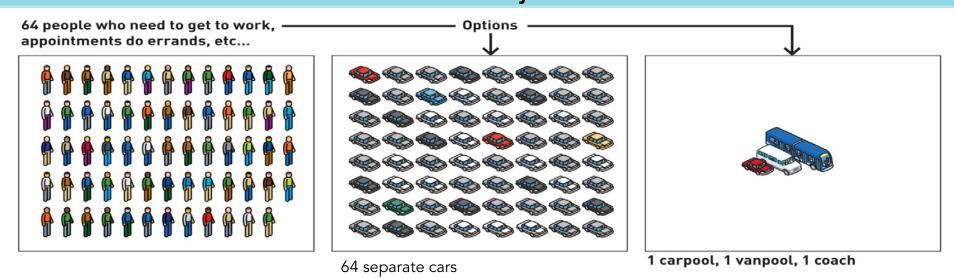
> Tolling Begins Fall 2012





Project Goals

- >Move More People, Not More Vehicles
- >Increase Throughput of HOT Lanes
- >Effectiveness (Mode Shift)
- >Efficiency (Cost of Project Relative to Benefits)
- >Equity (Address Impact on Low Income Commuters)
- >Educate Community (Extensive Community Outreach)
- >Execute as a 1-Year Demonstration Project



20+ Intra-Agency Partners

Funding & Program/Project Oversight

> FHWA & FTA

Project Partners

Metro & Caltrans

Mobility Partners

Foothill Transit, Gardena Transit, Los Angeles Department of Transportation, Metrolink, Torrance Transit

Interoperability (California Toll Operators Committee)

> SBX, TCA, OCTA, BATA, SANDAG, RCTC, ACCMA

Regulatory (Enforcement, Design-Build, RTP, Utilities)

> CHP, CTC, SCAG, SCE, DWP, County of Los Angeles, Caltrans





Overcoming Intra-Agency Hurdles

Identify Subject Matter Experts (SME) within all partner agencies EARLY in the process and obtain buy-in to the project at both the Executive and SME level to avoid delays in the schedule.

Establish an Executive Committee of Project Partners to address time sensitive issues.

Hold Lessons Learned Workshops at key project milestones rather than waiting until the completion of the entire project.

Formal Partnering Sessions also help build team cohesiveness.





Overcoming Project Management Hurdles

CEO as Internal Champion is a Must.

Integrated Project Status Reporting is Key.

Ensure Adequate Staffing Resources.





Addressing Legislative Hurdles

A Political Champion is a Must

Net Revenues to Be Reinvested in the Corridor Where Generated for Transit & Carpool lane improvements

Address Equity Issues Early in the Planning Process

Identify Performance Measurements Early in the Planning Process

Substantial Federal Grant Funding





Project Schedule

Description	2009	2010	2011	2012	2013
Toll Policy	•				
Low Income Commuter Assessment		•			
Environmental Documents Approved		•			
Preliminary Engineering		•			
Privacy Policy		•			
Award Design-Build-Operate-Maintain Contract		•			
TO BE COMPLETED					
Launch Marketing Campaign					
Begin Construction			•		
ExpressLanes Open to Traffic					







Florida Department of Transportation

Miami Urban Partnership Agreement FDOT Institutional Issues/Lessons Learned FHWA Webinar April 19, 2011





Presentation Outline

Background

Institutional Issues

- Tolling Statute
- Multi-modal O&M

Lessons Learned

- What we did right
- What we still need to improve





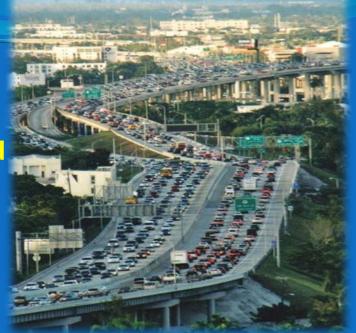
95 Express Project Scope

- 21 miles from Miami to Ft. Lauderdale
- HOT Conversion of 2 HOV Lanes plus 2 New Express Lanes
- Registered 3+ Carpools , Vanpools
- Dynamically Priced Tolls
- Express Bus/Bus Rapid Transit
- Increased Effective Capacity with Minimal Construction Disruption



Institutional Issues - Opportunities

- Major Congestion, No benefit for HOV and Transit
- Cost Intensive Improvements Planned
- Aggressive Multi-Modal Element
 - Transit
 - Carpool ,Vanpool
 - Transit Signal Priority and Branding





Florida Statutes: 338.166 High-occupancy toll lanes or express lanes.

 The department may continue to collect the toll on the high-occupancy toll lanes or express lanes after the discharge of any bond indebtedness related to such project. All tolls so collected shall first be used to pay the annual cost of the operation, maintenance, and improvement of the high-occupancy toll lanes or express lanes project or associated transportation system.

Contract Budget			
Operator	1 Full Time operator 24/7		
Engineering Support	900 Hrs for engineering support		
software	900 Hrs for software support		
PM	900 Hrs for proj. mngmt/sr egnr. support		
Clerical	900 Hrs for clerical support		
IT support	450 Hrs for IT support		
Public Information	Lump Sum		
Toll & Revenue Updates	Lump Sum		
Survey/Reports UPA etc	Lump Sum		
Commuter Services	2 Full time employees		
Road Ranger Support			
Road Ranger Tow Truck	24/7 @ \$45 per hour (8760 hours)		
Road Ranger Flatbed Towtruck	24/7 @ \$50 per hour (8760 hours)		
Incident Response, FHP			
Incident Response Vehicle	@\$350k/each/year		
FHP - Enforcement	@ \$16000/mile/year		
Equip Maint & Repair			
Detector	@ \$300/year		
Cameras	@ \$750/year		
Variable Message Signs (VMS)	@ \$1800/year		
Toll Buildings	@ \$9000/year		
Sunguide & Misc Software Development			
Sunguide Software Support/enhance	@ 150k/district/year		
Litility Locates	ര \$2500/mile/vear		

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Expense

Communication absorbed Staff supplies absorbed

TME

Electricity

@ \$2300/Yr
@ \$2300/Yr *.75 factor
@ \$4000/year
@ \$2300/Yr

Equipment Replacement/Upgrades/parts - (devices inventory)(device cost)(15%)/Yr

Detectors	@ (\$5000/device)(15%)/Yr
Cameras	@ (\$5000/device)(15%)/Yr
VMSs	@ (\$50000/device)(15%)/Yr

Fiber Optics & Power Repairs

Recurring Annual Budget

Signs, Delineators, Maintenance

Cantilever signs (inspection and maintenance)

Delineators

Maintenance Of Traffic (MOT) for Toll Repairs

Sound wall maintenance

Transit Budget

Miami-Dade Transit	15 buses, 13 hours service by 2013
	7 buses, 2, 3 hour peak periods service by
Broward County Transit	2013

Operating and Maintenance by Budget Item

	2009/	2010/	2011/ 2012/		2013/
BUDGET ITEM	2010	2011	2011 2012 2013		2014
Contract Budget	48%	42%	36%	41%	41%
Operating Budget	5%	6%	6%	7%	7%
Recurring Annual Budget	21%	15%	12%	13%	13%
Transit Budget	26%	37%	45%	39%	39%
Total O&M Budget	100%	100%	100%	100%	100%



Institutional Challenges: Multiple Jurisdictions

2 Counties, 2 MPOs, 3 Transit Agencies, 2 FDOT Districts
Different levels of congestion
Different Transit Fare Systems
Incident Management Protocols
Limited Vehicle Branding



Lessons Learned, What we did right?: Development of the Toll Rule

- State of Florida Administrative Code 14-100-.004
- Toll Free Users:
 - 3+Carpools
 - Hybrid Vehicles
 - South Florida Vanpools
 - Over the Road Motor Coaches
 - 95 Express Transit Vehicles
 - Public School Buses



Registered Users of 95 Express

- Register 3+Carpool, Vanpool, and Hybrid Vehicles
- SFCS Web-based data transfer to SunPass
- Receive 95 Express Decal
- Place decal in windshield
- Utilize lanes as "toll-free users"
 All SunPass devices must be shielded to avoid charges
- SunPass verifies registration against the photographed license plate
- User is not charged
- Renewal process



Lessons Learned, What we still need to improve: Enforcement Florida Highway Patrol monitors both HOV and managed lanes

- **Paid User Violations:**
 - **Using the lanes without a SunPass**
- **Toll Free User Violations:**
 - 3+ Carpool with less than 3 people
 - Violation \$149 + toll amount



Safety (Narrow shoulder, no monitoring space)





Questions & Discussion

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Congestion Pricing Institutional Issues

FHWA's Webinar Series on Overcoming the Challenges of Congestion Pricing

April 19, 2011

Federal Highway Administration
Office of Operations & Office of Innovative Program Delivery

Federal Requirements to Address

- Long Range Plan (LRP):
 - funded tolling and non-tolling projects
- Transportation Improvement Program (STIP and/or TIP)
- NEPA review:
 - may not apply to non-toll projects
- Tolling authority (for toll projects only)

Integrating Transit into Tolling Proposals

- UPA/CRD projects presented in this webinar:
 - Transit funding came from a one-time program
- Other pricing projects operating/planned:
 - Converting existing HOV lanes to HOT I-394, MN.
 - New HOT lanes Capital Beltway, Northern Virginia
 - New express lanes Northwest Corridor, Atlanta
- Potential options for the future:
 - Full-facility pricing -- SR 520, Seattle
 - Converting existing regular lanes to HOT-3 lanes
- Issue: Ability and willingness to use toll revenue for transit

Federal Tolling Authority

- For construction or reconstruction:
 - Section 129 non-Interstate facilities and Interstate bridges/tunnels only
 - Interstate toll pilots
- For demand management:
 - Section 166 (HOT lanes) -- unlimited projects
 - Express Lanes Demonstration 15 projects
 - Value Pricing 15 slots, each with unlimited projects
- For more information:
 - http://www.fhwa.dot.gov/ipd/revenue/index.htm

Federal Role

- Technical assistance:
 - Selecting the tolling program to use, tolling agreement
 - Other analysis tools, etc.
- Outreach:
 - Congestion Pricing webinars and Workshops
 - Outreach products:

FHWA Office of Operations:

http://ops.fhwa.dot.gov/tolling_pricing/index.htm

FHWA Office of Innovative Program Delivery:

www.fhwa.dot.gov/ipd

Institutional Issues - Next Steps

Peer Exchange on Institutional Issues

- -Bring together pricing experts to discuss strategies used to address challenges in implementing both tolling and non-tolling projects
- -Prepare a white paper

Develop Primer

-Based on material gathered from various outreach efforts such as outcomes from the webinar, face-to-face peer exchange and white paper.