High Occupancy Vehicle (HOV)/ High Occupancy Toll (HOT)/ Managed Lane







Presentation to Mecklenburg/Union Metropolitan Planning Organization

November 14, 2007

WHAT ARE MANAGED LANES?







- Separate Dedicated Lane System
- One or More User Groups
- Strategies used to Preserve Lane Operating Capacity
- Unimpeded travel during Periods of Peak Demand

BEFORE

Orange County, SR-91

AFTER





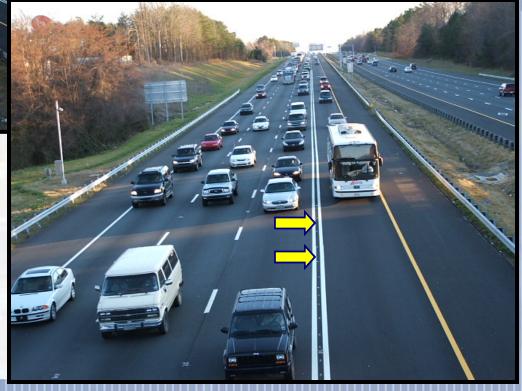
Types of HOV/ Managed Lanes



EXAMPLE FROM I-77
CHARLOTTE, NC

Access Prohibited 6-inch (painted) buffer





Types of HOV/ Managed Lanes







Buffer Separated I-405 HOV, Orange Co.





Barrier Separated US 59, Houston, TX.

WHAT ARE HOT/ MANAGED LANES



- Managed priced lanes giving preference to HOVs.
- Highest HOVs are typically free.
- Offers unimpeded travel and reliability benefits during peak periods



SR 91, Orange County



MANAGED LANE BENEFITS

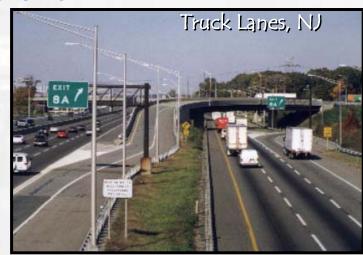


System Benefits

- Greater throughput
- Opens up mainline capacity
- Encourages transit & carpool use
- Preserves options in corridor
- Decreased fuel consumption
- Improved air quality
- Revenue generation

User Benefits

- Reliable travel time
- Reduced delay
- More Choices



FORMS OF LANE MANAGEMENT



- ♦ Eligibility/Occupancy
- Access Restrictions
- ♦ Pricing





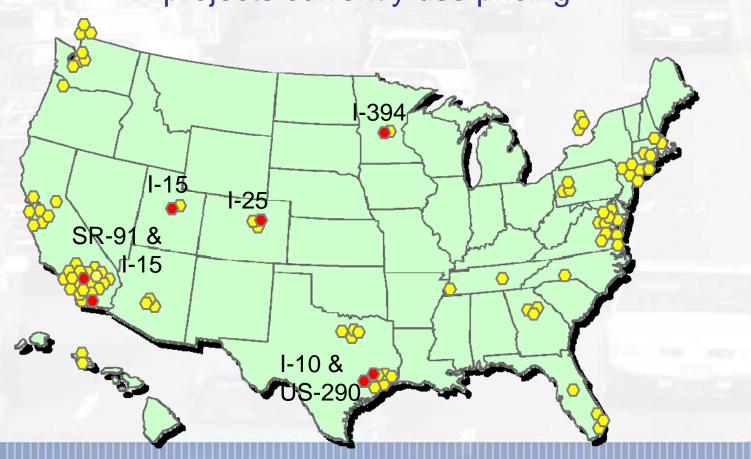


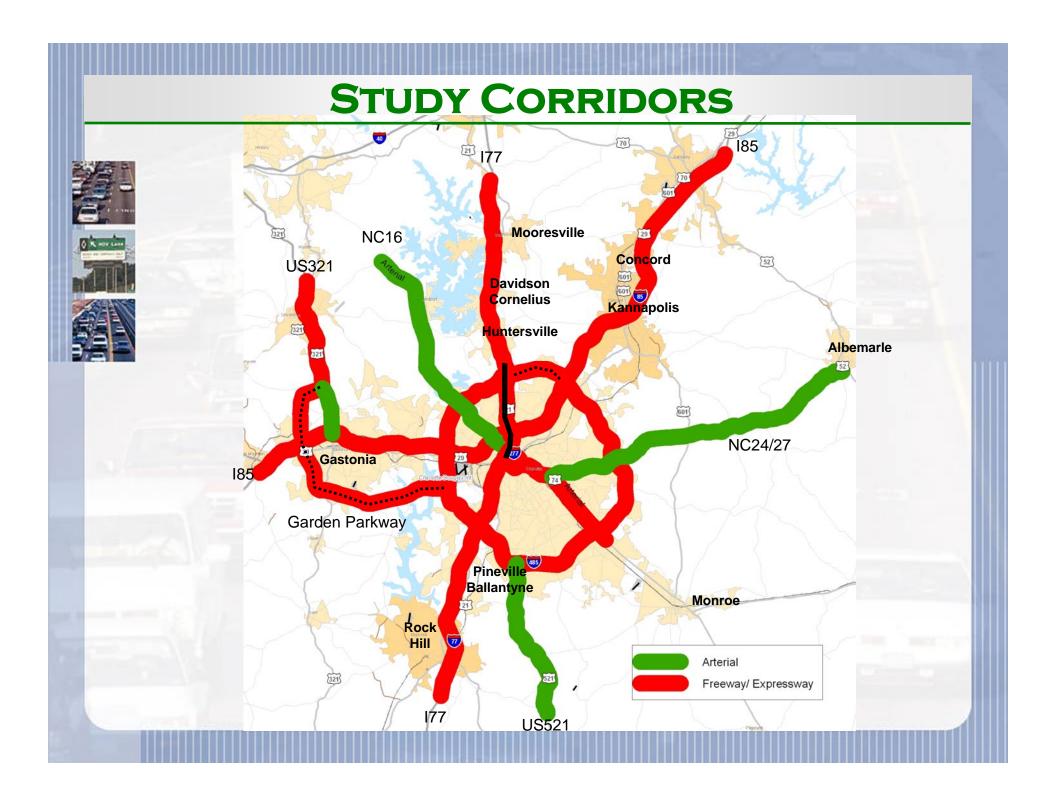
WHERE HOV AND HOT LANES ARE

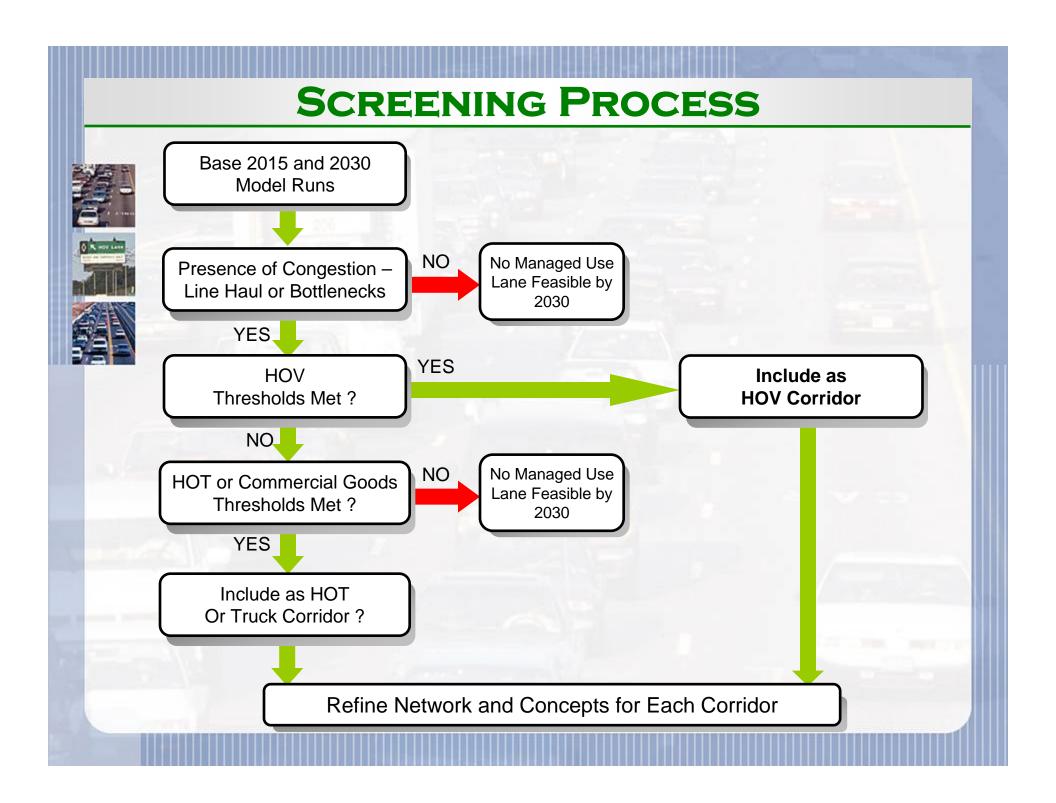
OPERATING?



-7 projects currently use pricing







SCREENING CRITERIA



- Presence of Congestion
 - Travel Speeds
 - Volume-Capacity Ratio
- HOV Demand
 - Persons & Vehicles
 - Travel Patterns
- ♦ HOT/TOT Demand
 - Vehicle
 - Travel Patterns
 - Revenue Potential
- Physical Attributes

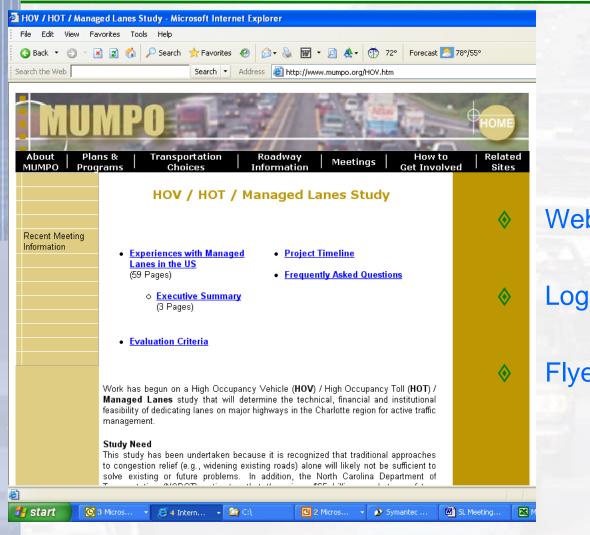
Not good Less than Average Average Above Average Excellent

2 3

SCHEDULE

Developmer	nt of a	Regior	nal HO\	//HOT I	Manag	ed I an	o Anal	eic.					
		Development of a Regional HOV/HOT Managed Lane Analysis 2007 2008											
	2007							2008					
Description	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
Project Management													
Research		7	7	7									
Data Compilation		7											
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Revenue Forecasts													
Corridor & Network Analysis													
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Market Outreach		\									_		
HOV/HOT Workshops		_	<u></u>										
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		Propo		\bigvee	7 Delive	erable (D	raft/Final)	CD	OT Task	Work		
1	Progress Meetings/Workshop Review Periods Minimum review period is									wool			
1	Project Management Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 1) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts	Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 I) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops	Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 1) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings	Project Management Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 (1) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings	Project Management Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings	Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1)) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings	Project Management Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 (1) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings Propo Deliverable (D	Project Management Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 (1) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings Propo Deliverable (Draft/Final	Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening To be determined following Phase 1 Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings Propo Propo Deliverable (Draft/Final) Progress Meetings/Workshop R	Project Management Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1 (1) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings Propo Progress Meetings/Workshop Review Perpores Review Perpores	Research Data Compilation Evaluation Criteria Travel Demand Forecasts Corridor Screening to be determined following Phase 1)) Installation Improvements Connections Analysis Mobility Improvements Cost Estimates Revenue Forecasts Corridor & Network Analysis Findings & Recommendations Market Outreach HOV/HOT Workshops RTT Meetings Propo Deliverable (Draft/Final) CDOT Task		

ITEMS IN PROGRESS



Website

Logo

Flyer/Information Sheet