

Managed Lanes Concept

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What are Managed Lanes?

- A lane or group of lanes with a combination of operating and design strategies
 - ✓ Maximize person moving capacity
 - ✓ Provide travel options & increase flexibility
 - ✓ Achieve corridor and community goals
- Designed for flexibility so that service options can be modified over time



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Operational Goals

- Based on providing services that are not available
 - ✓ Design alternatives
 - ✓ Operational impacts
 - ✓ Performance data
 - ✓ Desirability to users



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Strategies

- User groups served
 - ✓ HOV, SOV, Truck, ILEV
- Period-based options
 - ✓ Time-of-day, day-of-week
- Pricing
- Physical control
 - ✓ Continuous barriers, gates
- Operational control
 - ✓ Lane assignment, reversible lanes, driver information



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Examples

- HOV lanes
- HOT lanes
- Value priced lanes
- Express lanes
- Separation and bypass lanes
- Dual facilities
- Lane restrictions



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Managed Lanes Policy

- What is community's and agency's policy regarding mobility?
- Helps determine how to proceed with managed lanes



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User Groups

Who will use the facility?

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TxDOT Managed Lanes Research

... to develop a better understanding of how managed lanes can improve mobility for people and freight.

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Project Objectives

- ... to investigate the complex and interrelated issues surrounding the safe and efficient operation of managed lanes.
- ... to develop a manual to help TxDOT make informed decisions.

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Completed & Ongoing Tasks

Literature Review

Symposium
Geometric Design **Traffic Modeling**
Design Guides Rewrite
Concept Marketing
Legislation **Funding and Financing** **AASHTO**
Enforcement

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Upcoming Tasks

Traveler Information Needs

Incident Management

Interoperability

Evaluation and Monitoring

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Stakeholder Input

- Gather input from stakeholders to ensure needs and issues are addressed
- External committee to meet annually
- Members from municipalities, transit, MPOs, TMTA, Greyhound TxDOT, FHWA, FTA, toll authorities, and others

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Final Remarks

- Managed lanes a complex issue
- Allow people to decide trip "value" and plan accordingly
- Planning critical to successful operations



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More Information

- <http://managed-lanes.tamu.edu>
 - ✓ Research reports
 - ✓ Links to managed lane projects and resources
 - ✓ Quarterly newsletter and e-mail list



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Questions

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