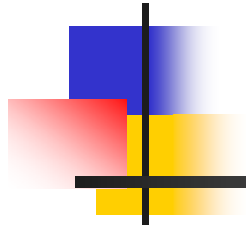


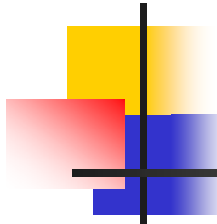
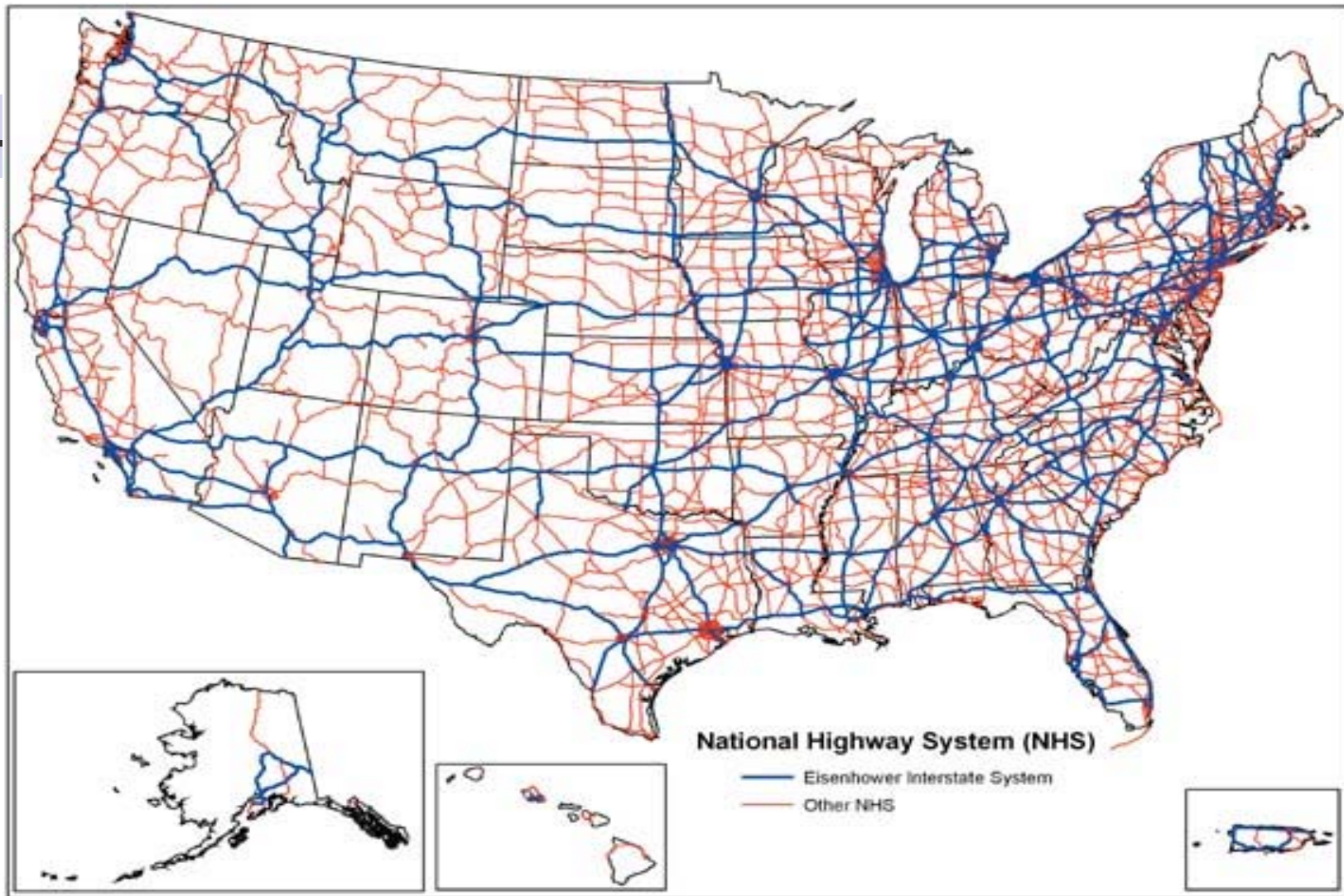
Improving Mobility & Managing Congestion – Future Directions in the U.S.



1st International Symposium on Freeway &
Tollway Operations

Jon Obenberger
U.S. DOT Federal Highway Administration
June 2006

Interstate Highway System 50th Anniversary



U.S. Department of Transportation
Federal Highway Administration





U.S. Challenges:

- Unrestrained travel demand resulting in congestion
- Price of highway travel – little relationship to congestion
- Enhancing safety
- Changing business trends
- Limited ability to expand highway capacity
- Insufficient funding from highway trust fund
- Improve improvement project efficiency & effectiveness
- Reach timely decisions - good for environment & for transportation

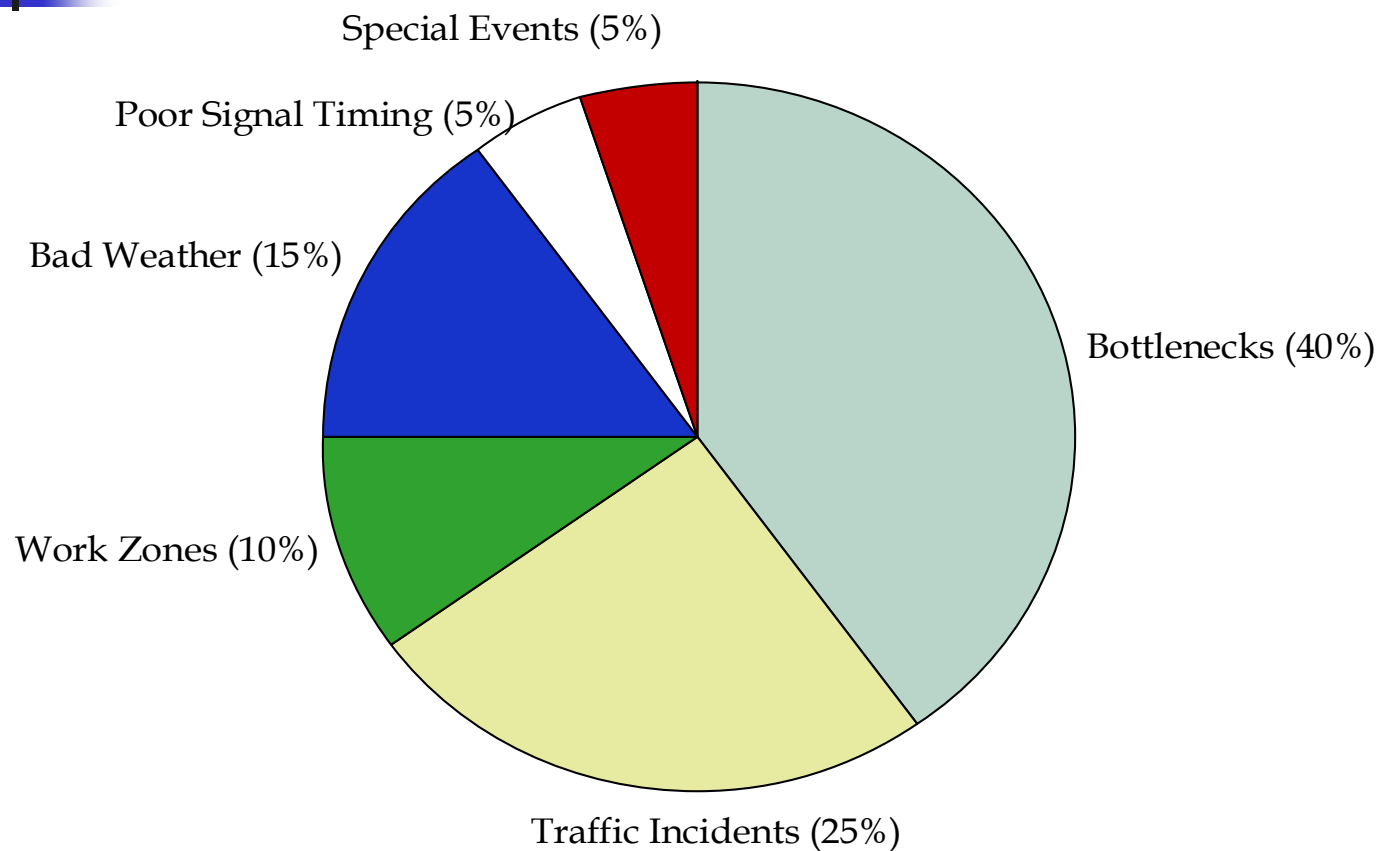


U.S. Opportunities:

- Reduce fatalities & traffic crashes
- Manage existing capacity to improve traffic operations
- Improve freight mobility
- Target highway bottlenecks & expand capacity
- Pursuing context sensitive solutions (CSS)
- Enhance community livability – collaborative planning & environmental stewardship
- Pursue private sector partnerships & financing

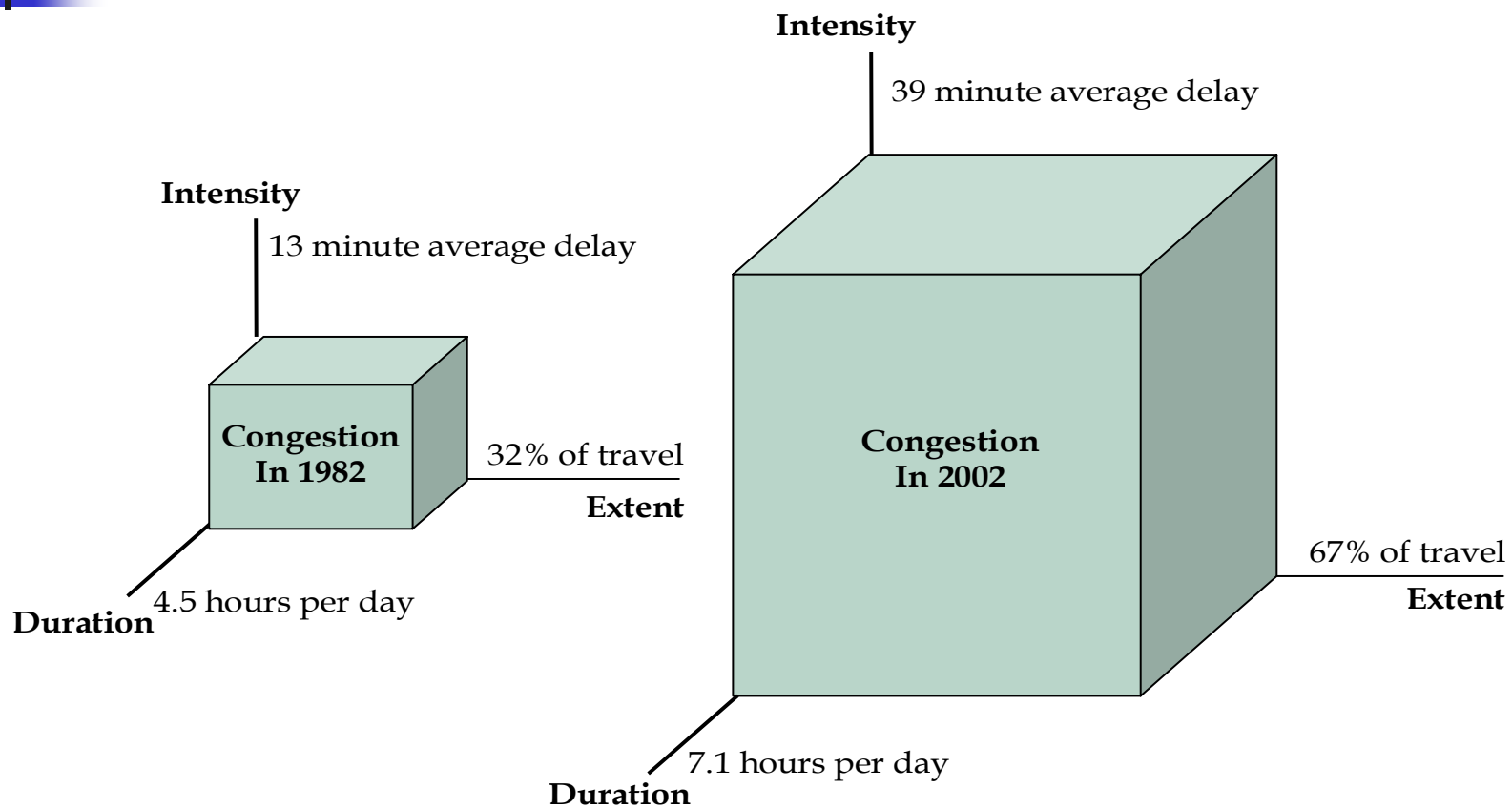


Sources of Congestion:



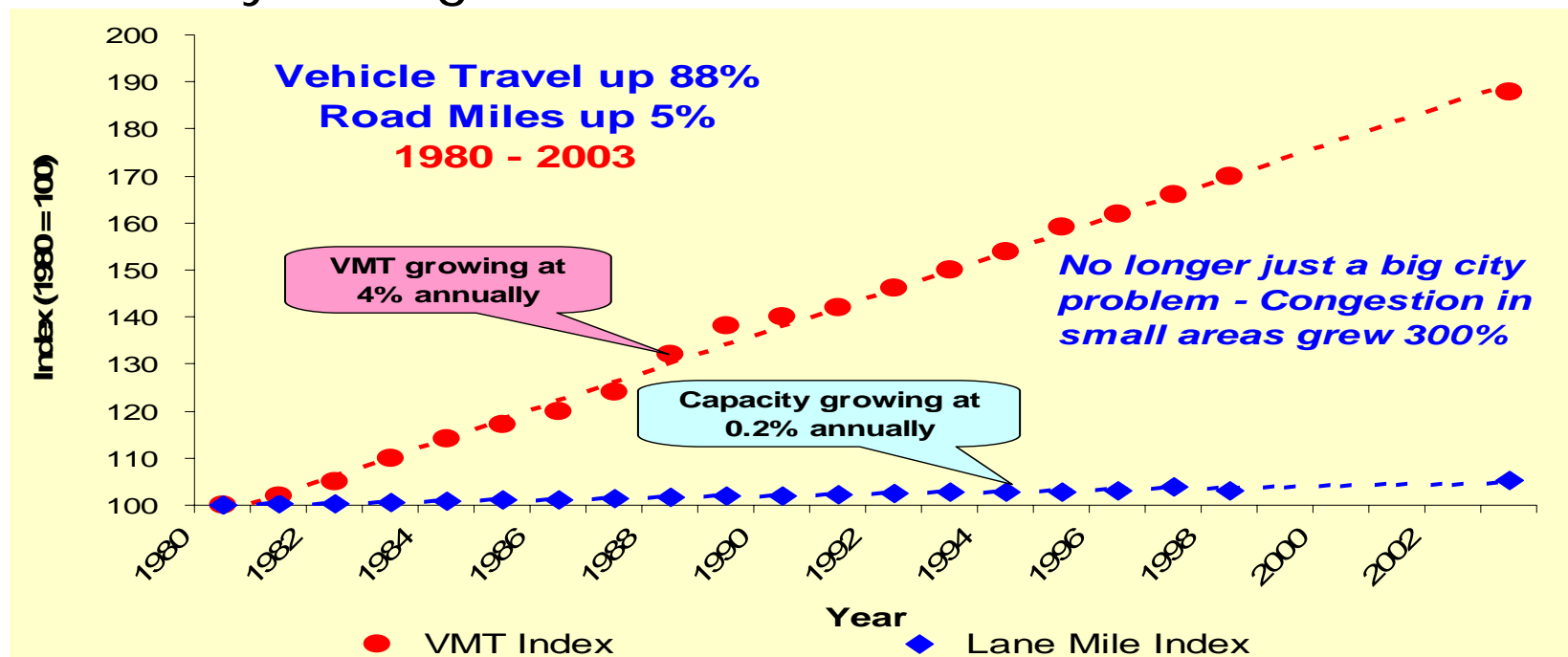


Congestion Getting Worse:



Traffic & Capacity Imbalance:

Interstate Highway System comprises ~1% of USA's total roadway mileage but carries almost 25% of all traffic.





National Congestion Initiative:

U.S. DOT National Strategy to Reduce Congestion on America's Transportation Network

- 7-point Plan - tackle highway, freight & aviation congestion
- Blueprint for federal, state & local officials
- Focus resources, funding, staff & technologies on:
 - Cutting traffic jams
 - Relieve freight bottlenecks
 - Reduce flight delays



7-Point Congestion Plan:

1. Relieve urban congestion
2. Unleash private sector investment resources
3. Promote operational & technological improvements
4. Establish a “corridors of the Future” competition
5. Target major freight bottlenecks & expand freight policy outreach
6. Accelerate major aviation capacity projects & provide funding framework
7. Focus data & research resources



Relieve: Urban Congestion:

- Advocate Policies for:
 - Congestion pricing /high occupancy toll (HOT) lanes
 - Bus rapid transit
 - Telecommuting & flexible scheduling
 - Expedite completion of capacity projects
- Urban Partnership Agreements:
 - Open Roads Pilot Program - \$100 million/year
 - Value Pricing Pilot Program



Unleash Private Sector Investment:

- Encourage States enact enabling legislation to enter into agreements w/ private sector
- Overcome institutional resistance to change:
 - Education & outreach
 - Demonstration projects
- Utilize existing Federal Programs to encourage formation of public-private partnerships



Operational & Technology Improvements:

- Dissemination of real-time information
- Emphasize congestion in ITS program initiatives
- Promote best practices:
 - Traffic incident management
 - Managed lanes
 - Freeway management & operations
 - Intersection management & traffic control



Corridors of Future Program:

- Accelerate development multi-state, multi-use transportation facilities
- Support corridor development by:
 - Compete & select 3-5 corridors in need of long term investment
 - Convening multi-state process to advance project development
 - Fast track development of corridor projects



Target Major Freight Bottlenecks:

- Intermodal team to assist convening stakeholders to forge consensus in metro areas
- Engage freight shippers in developing national freight policy framework
- Establish US DOT – DHS border congestion team to prioritize operational & infrastructure improvements @ border crossings

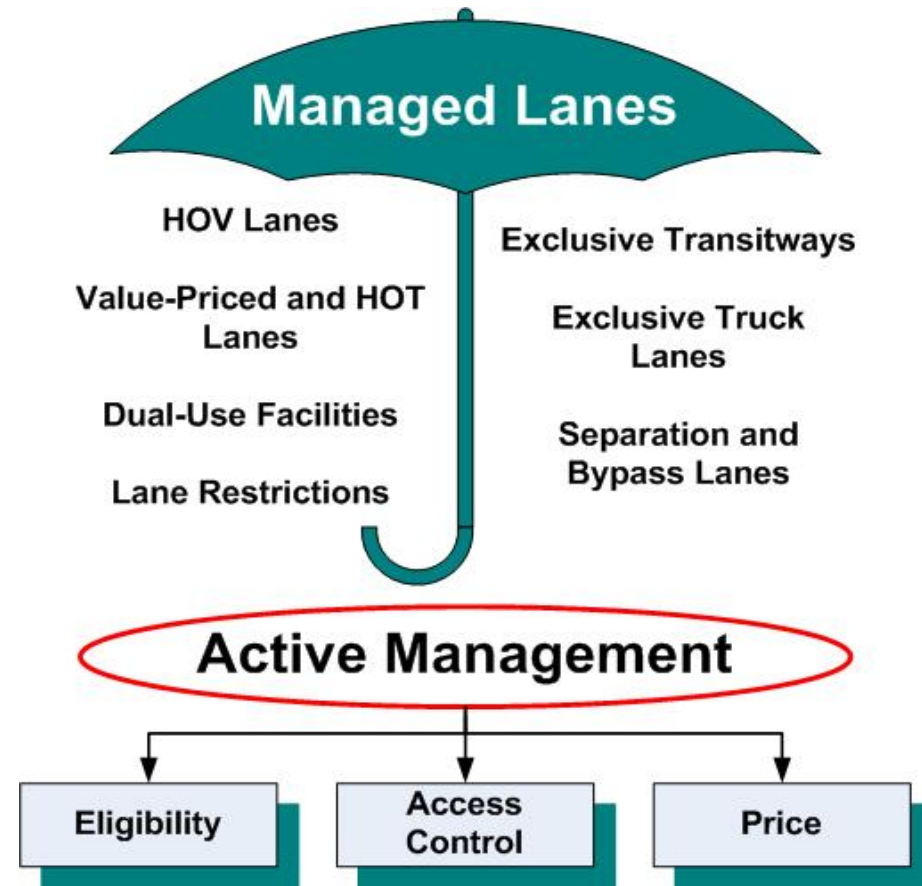


Study - Identify Future Needs:

- National Surface Transportation Policy & Revenue Study Commission
- Report back to U.S. Congress
- Charge: to develop plan w/ recommendations:
 - Raise revenue for highway & transit projects
 - Reduce cost of congestion
 - Vision for transportation system
 - Basis for future transportation legislation

What are managed lanes?

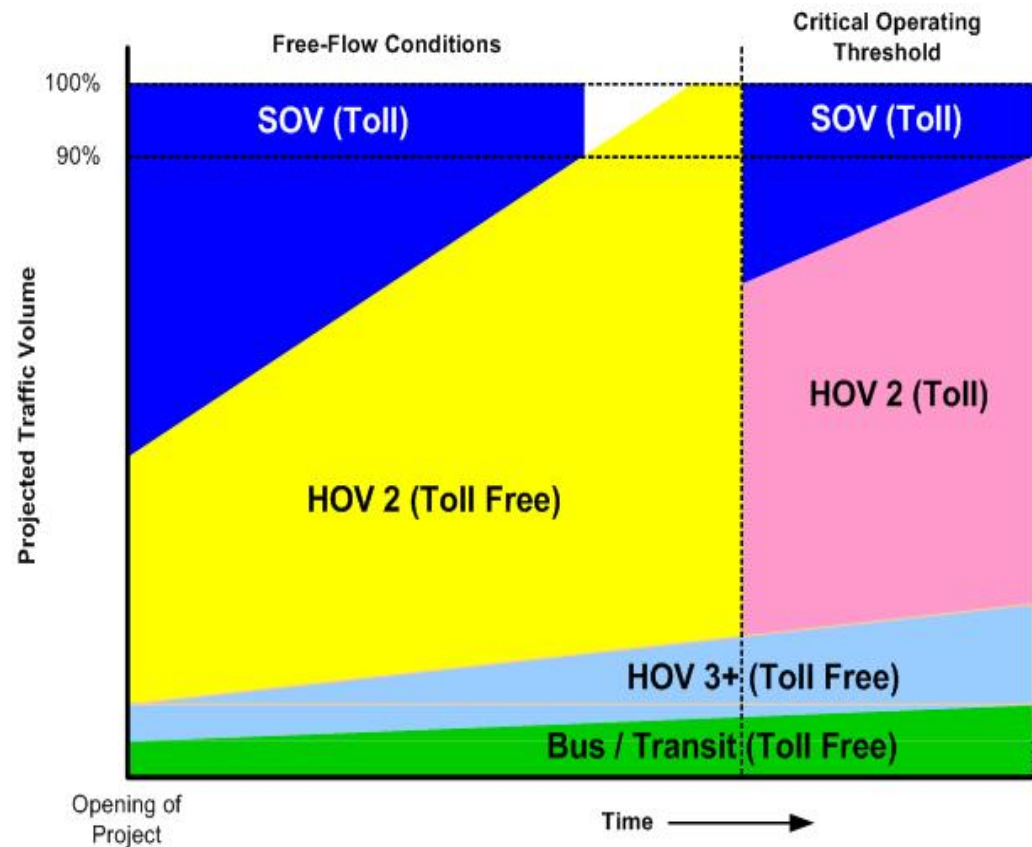
- Operational strategies proactively implemented & managed in response to changing conditions
- Typically:
 - "freeway-within-a-freeway"
 - Highway or set of lanes





Managed Lanes: Vehicle Eligibility

- Eligibility varies based on demand & conditions:
 - Based on: time of day, day of week or congestion level
 - Adjustments based on changing conditions
- Examples:
 - HOV lanes
 - Truck lanes
 - Bus lanes



Managed Lanes: Access Control

- Limit entry to a facility based upon congestion levels or operational conditions
- Example: New Jersey Turnpike:



Managed Lanes: Pricing

- Price per trip varied to manage demand:
 - Peak-period surcharge
 - Discounts
- Examples: express toll & HOT (HOV & priced) lanes:
 - SR 91 Orange County, CA
 - I-15 San Diego, CA
 - I-394 Minneapolis, MN





Thank you!



U.S. Department of Transportation
Federal Highway Administration

