Urban Mobility Report Congestion & Some Ideas to Fix It

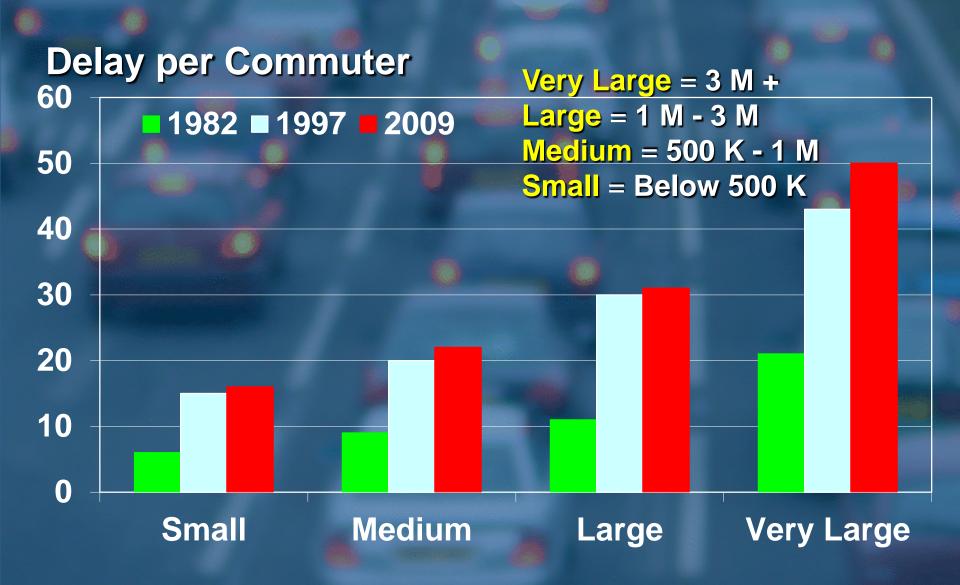
Louisiana Transportation Research Center Seminar Series: Congestion Management September 2011

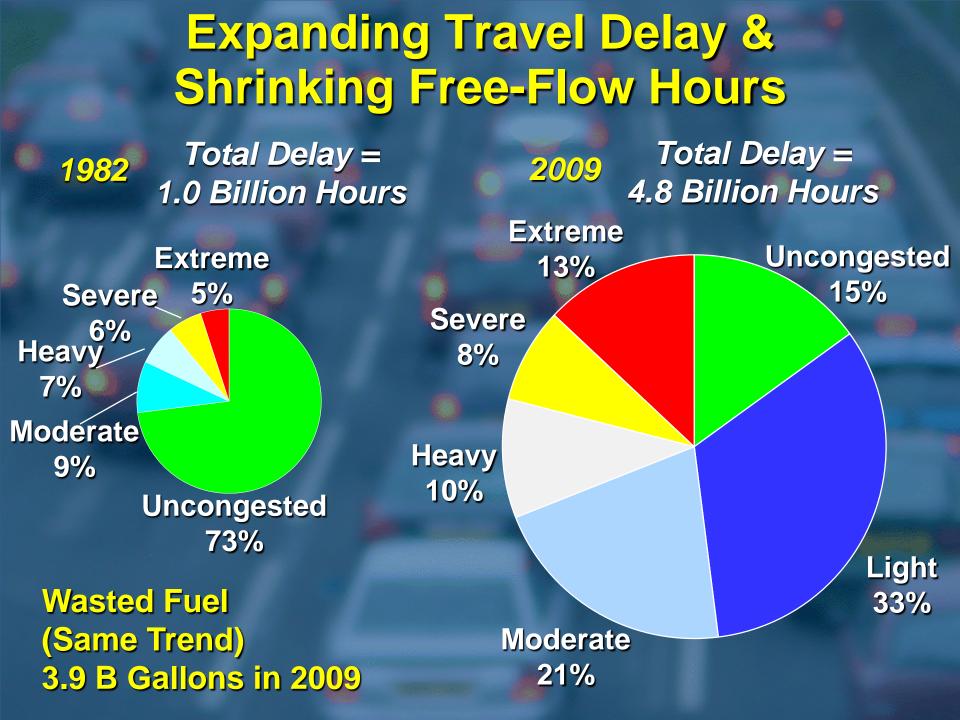
Tim Lomax Texas Transportation Institute University Transportation Center for Mobility http://mobility.tamu.edu

Congestion Headlines

Congestion has grown... ... in cities of all sizes It has spread to more: ..times of the day, roads, buses & trains The recession has reduced congestion ...but is coming back with the recovery There are a lot of solutions, - ...but new decisions and processes are needed ..and we need new data & messages to communicate with the public

Congestion is Worse in Cities of All Sizes – But the Recession Has Caused a "Reset"





Congestion Trends in Baton Rouge Measure Delay per Commuter **Fuel per** Commuter \$1030 \$410 \$1390 \$970 Cost per \$180 Commuter

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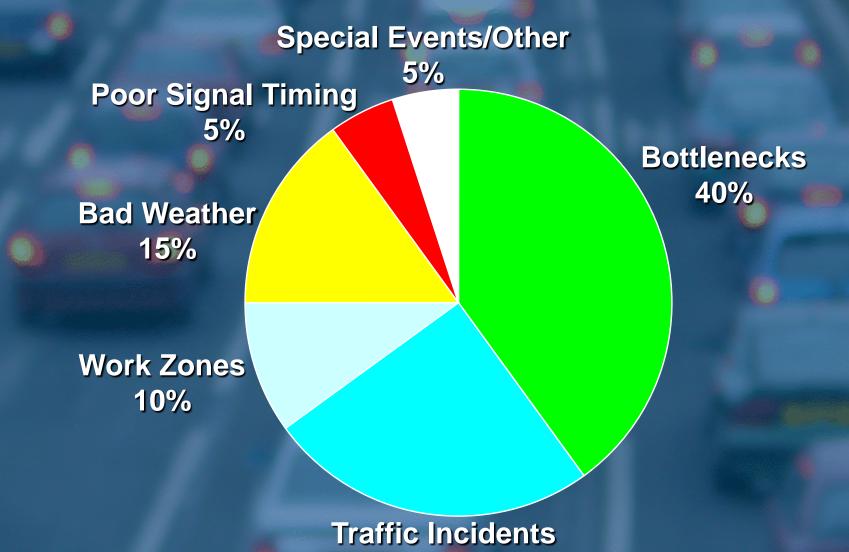
Freight Congestion A Key Element of the 21st Century Economy

- U.S. urban truck delay

 315 million truck hours
 \$33 billion
- In addition...
- Inventory costs
- Just-in-time operations
- Fleet productivity
- Distribution centers
- Public & private sector decision structures



Congestion Has Many Causes



25%

...But No Single Solution

100%

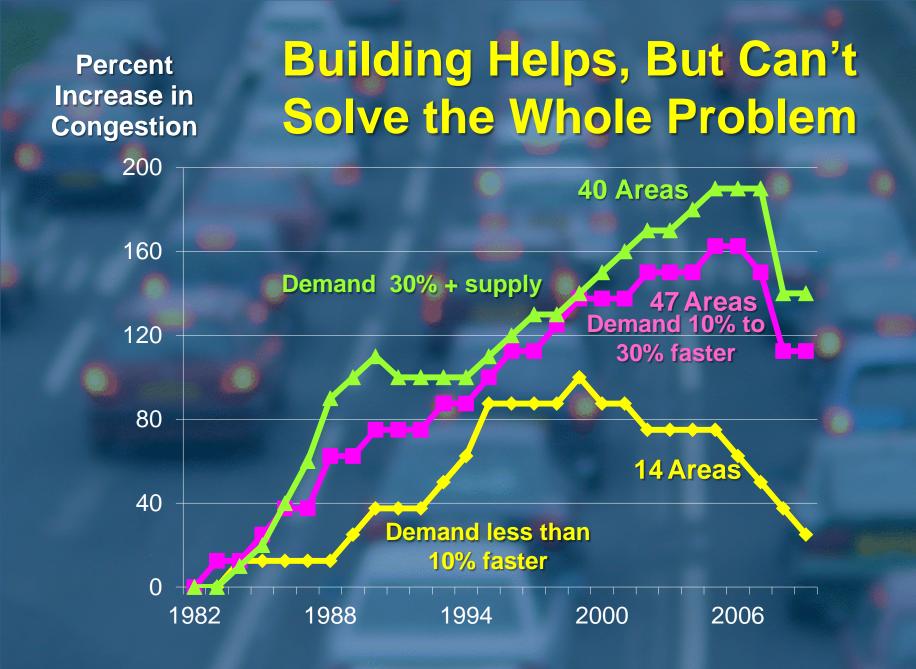
0%

Accept Some Congestion Diversified Development Patterns Less Construction Delay Commute & Travel Options

Improve System Efficiency

Build More Capacity

...And the Solution Mix Will **Be Different Within Regions Outer Loop** Capacity Efficiency Options Capacity Efficiency Options Add Capacity Capacity Efficiency Options Greater Efficiency **Inner Loop** Travel **Options**

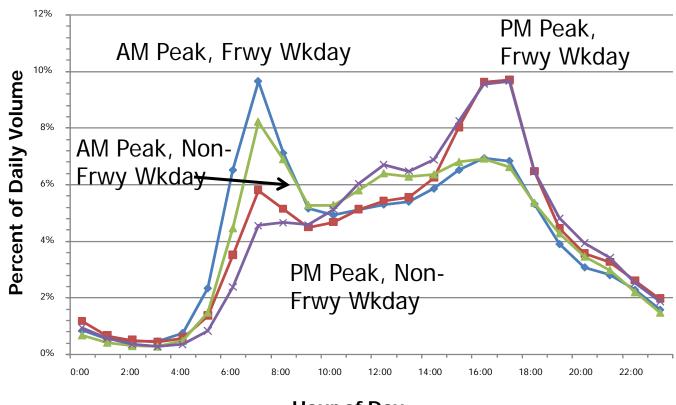


The Solution Picture

- There are solutions; need them all & need new ones
- Solutions involve agencies, businesses and travelers
- Addressing the problem can provide huge benefits
- Transportation has more support where:
 - Agencies doing a good job
 - Clear and understood objectives
 - Have a good plan
 - Accountable for spending and schedule

A Word About Detailed Data INRIX is Mobility Report speed data supplier Fleet vehicles and crowd-sourced data Improved understanding of problems Locations defined - #18 bottleneck in the US • Baton Rouge – I-12 Eastbound Essen to O'Neal – 29 minutes for 5 mile trip • 5 to 6 p.m. Use data to identify problems, examine solutions and communicate with public

Still Need Volumes! Even if You Have to Estimate Them



Hour of Day

What's the Long-Term Strategy?

- Aggressively operate what you have
 Install better processes

 operations, planning, design & construction
 - Add capacity and service strategically
- Tell the public!
 - Performance reports & targets
 - Link deployment, events and actions
 - What can travelers & businesses do?
- Reliable operations and project delivery are part of the next funding request
- Everyone has a role in reducing congestion (http://mobility.tamu.edu)