

Excellence Delivered As Promised

The Next Step in Managed Lanes Going Beyond Creating Choices to Changing Behavior

15th International Conference on Managed Lanes

May 6, 2016





Going Beyond Creating Choices

- Managed lanes can create new capacity
- Managed lanes optimize traffic operations & lane use
- Managed lanes add finite capacity to the network
- Managed lanes currently have limited impact on travel behavior in the aggregate











Trends in Regional Transportation

New Roads



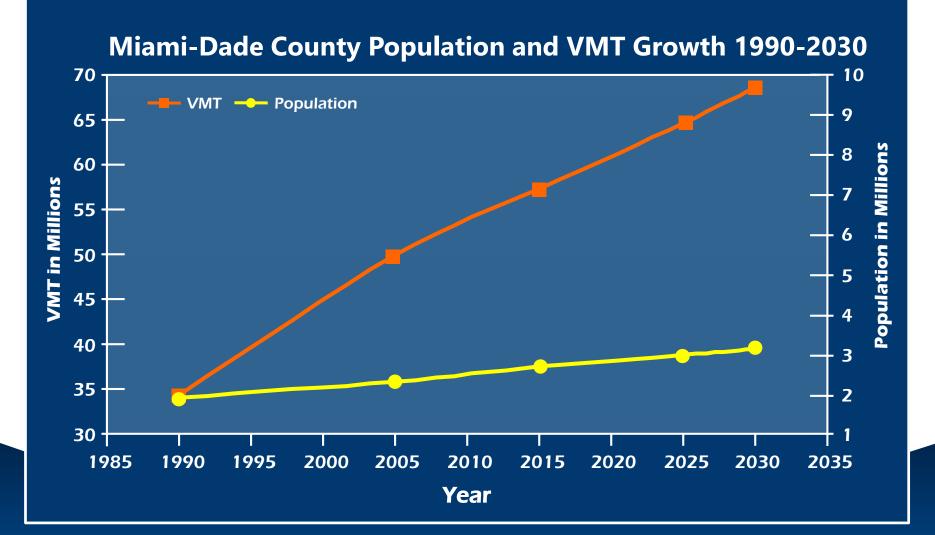
- Widening Existing Highways
- Converting Lanes for High-Occupancy Vehicles
- Converting HOV to High-Occupancy Toll Lanes

- End of the interstate system
- Era of interstate widening
- Abandonment of interstates in urban centers (I-95 through Overtown, promise not to widen I-95 in Miami and I-66 in Virginia)
- HOV as the answer poor track record in South Florida low use and high violation rate
- SR-91 and the age of managed lanes





Growth in Population and Travel



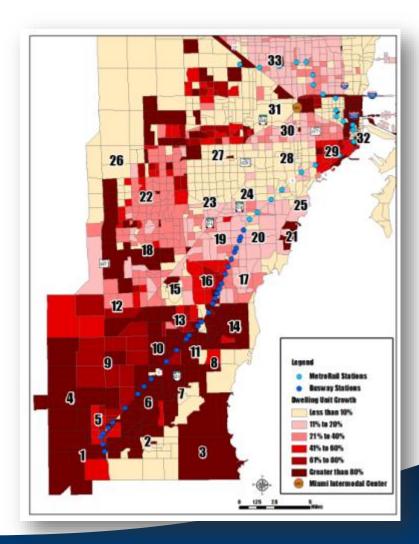




Changes in Population and Employment

Growth over the next 20 years

- Population: 83%
- Employment: 45%
- Transportation system: 7%
- Funding for transit: limited

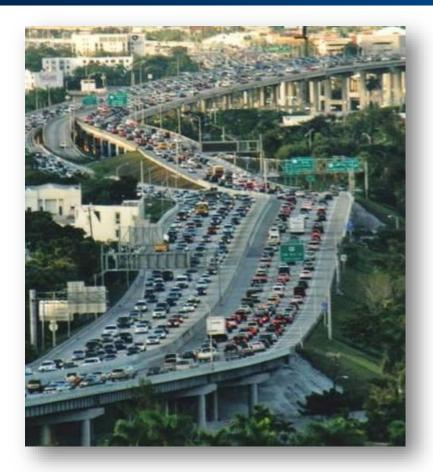






The Promise of Managed Lanes

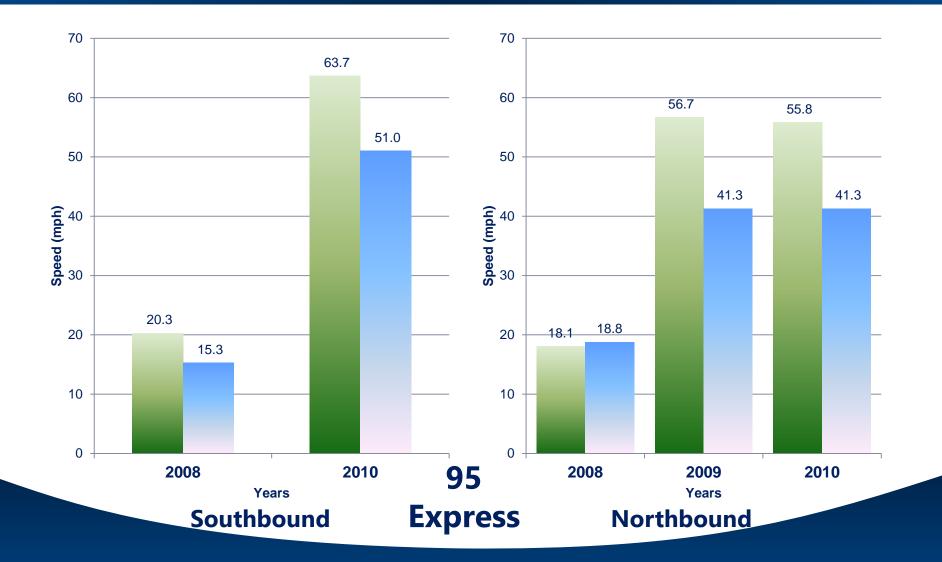
- A way to bypass congestion
- Not for every day
- Diverts long distance trips
- Reduces weaving
- Creates guideway for express bus service
- New source of revenue







Speeds Increase in All Lanes

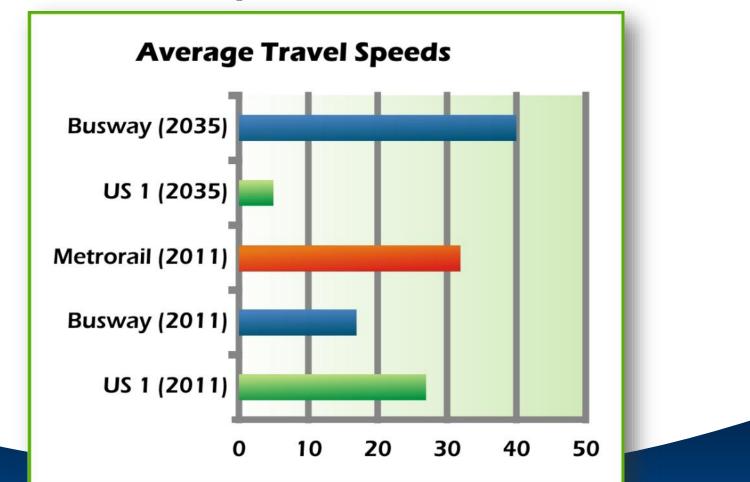






The Promise of Managed Lanes

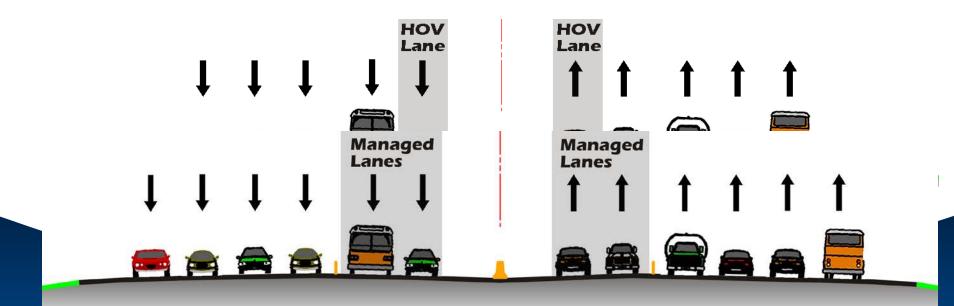
Increased travel speeds



🎽 Gannett Fleming



HOV-HOT Conversion with Capacity



Gannett Fleming



Transit Service

Expanded transit with 95 Express

- Express bus routes
- Eliminate County-line transfer
- New passenger amenities
- Signal priority





How Successful is 95 Express?

Final Report

95 Express Annual Report

A.25

Covering July 1, 2010 through June 30, 2011

Project Status for Urban Partnership Agreement (Phase 1 Complete)

🎽 Gannett Fleming

prepared by Florida Department of Transportation District Six 1001 NW 111th Avenue Miami, FL 33172

date February 17, 2012





95 Express Managed Lanes **Consolidated Analysis Technical Report** FOOT DISTRICT SIX INTELLIGENT TRANSPORTATION SYSTEM Weekdays Travel Times by Time of Day* November 2011 FDOT District 4 Prepared by Cambridge Systematics, Inc 95 CAMBRIDGE 10.4 10.4 10.4 10.4 10.4 10.4 35

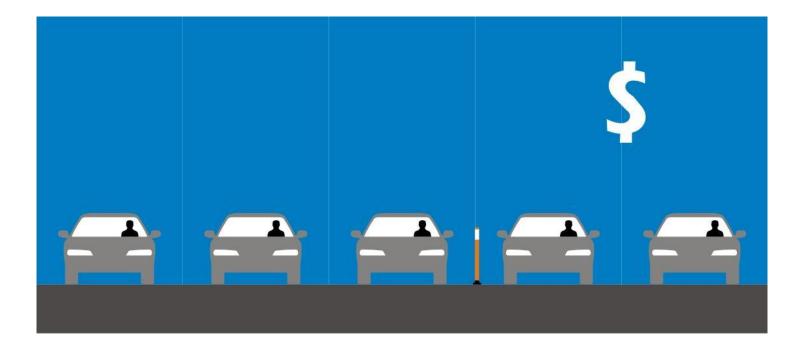
www.SunGuide.org



- Golden Glades chokepoint Northbound
- Delineators and lane diving
- HOV enforcement
- Hybrid use the last 200 vehicles of capacity
- Political limits to maximum toll

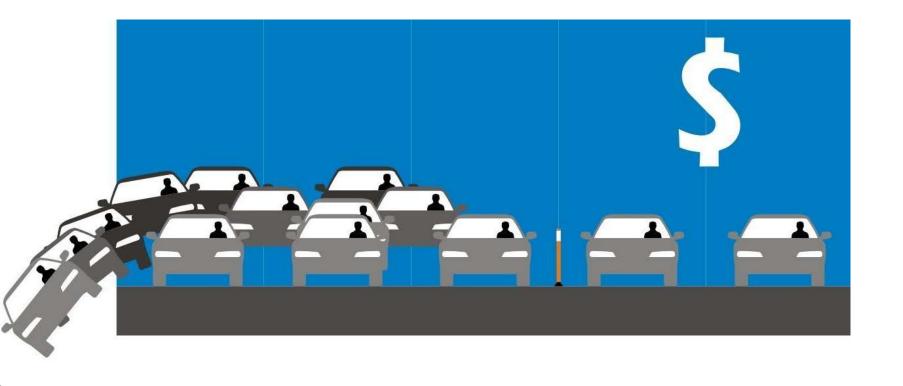










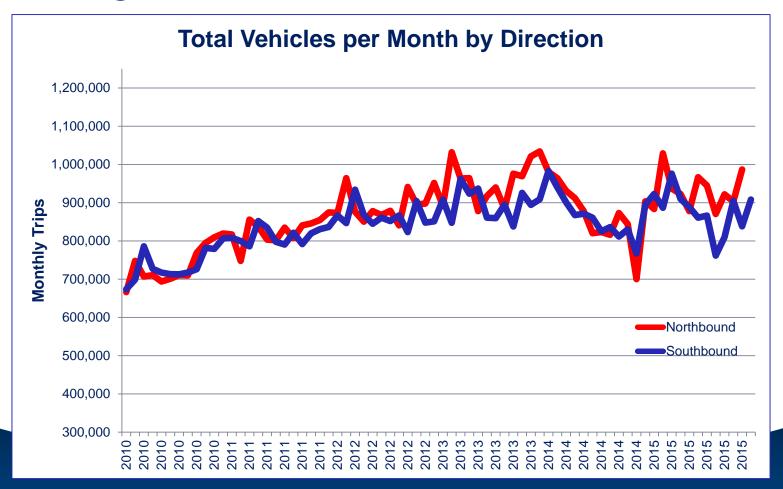






95 Express Eight Years Later

Growing demand



🎽 Gannett Fleming

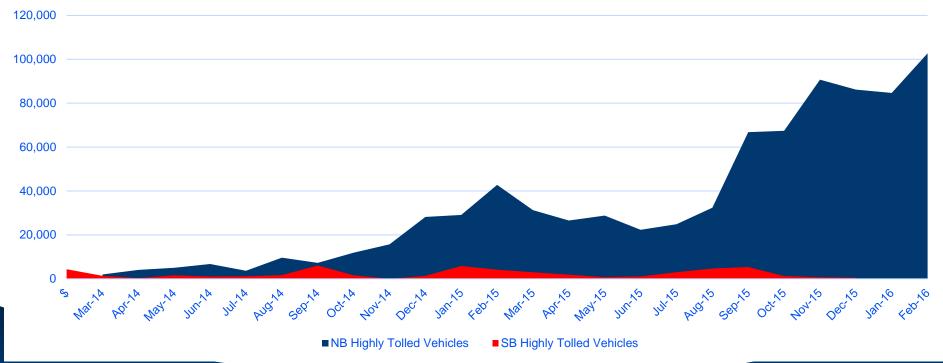


95 Express Eight Years Later

Growing demand

• Increasing tolls

Vehicles Charged \$9 or more per Month Since Toll Increase (March 2014)

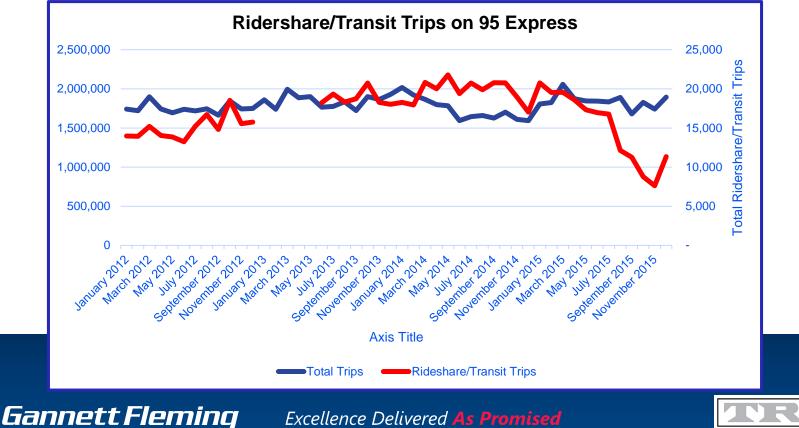






95 Express Eight Years Later

- Growing demand
- Increasing tolls
- Marginal change in high occupancy travel

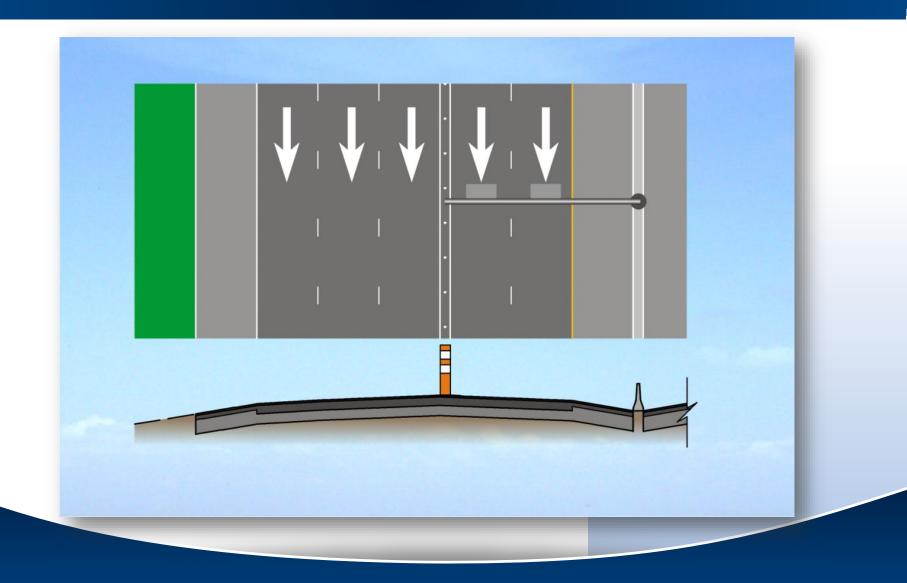


Supply & /Demand Side Incentives

- Increasing Park & Ride lots most Broward transit riders access transit by auto
- Adding routes most routes stop at only one or two P&R lots to minimize travel time
- Expand registered carpooling to those sharing common lots
- Low transit fares

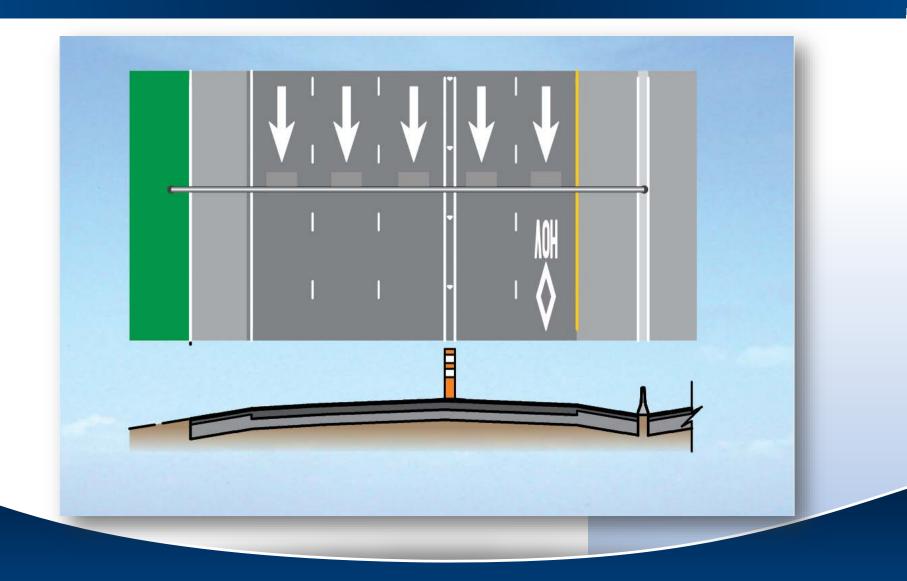






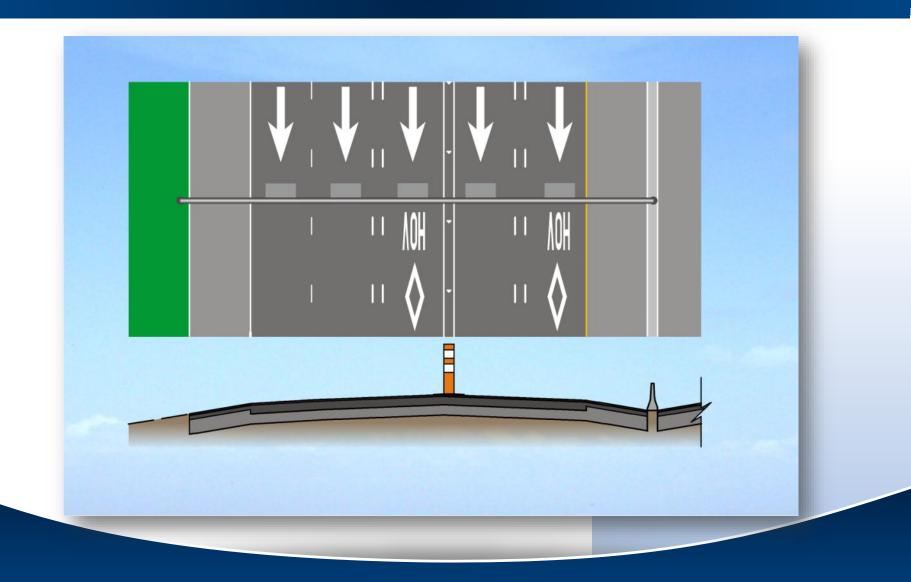






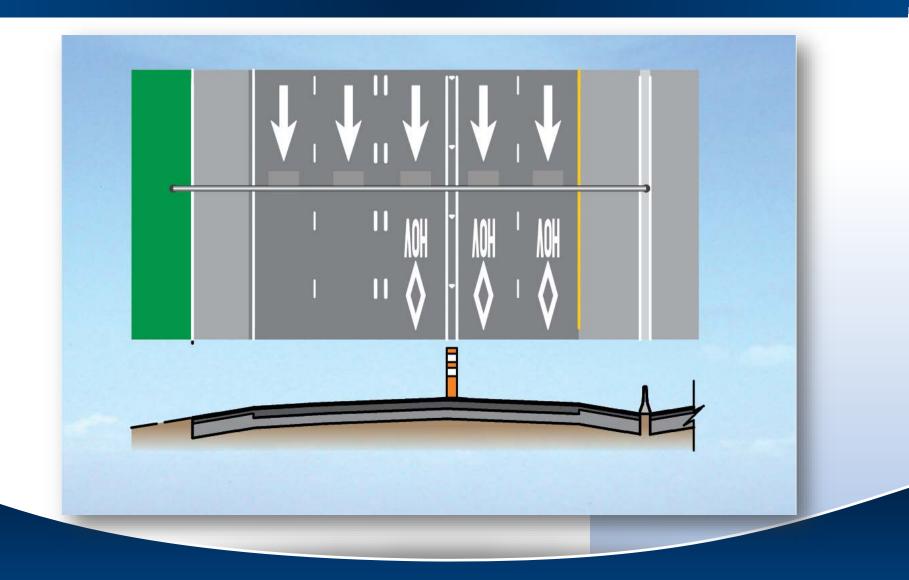
















Conclusions

Regional network with ridesharing & express bus network

- Increases vehicle throughput
- Minimizes costs
- Keeps tolls reasonable
- Something for everyone
- Maximizes existing capacity
- Sustainable







Excellence Delivered As Promised

The Next Step in Managed Lanes Going Beyond Creating Choices to Changing Behavior

15th International Conference on Managed Lanes

May 6, 2016

