Improving Richmond Area Public Transportation

Findings and Recommendations:

GRTC Comprehensive Operations Analysis (COA)



Background

- I. Short Term Operational Analysis: GRTC Comprehensive Operations Analysis (COA)
 - Focus: Current GRTC Service Area
 - Status: Complete
- II. Long-Range Transit Plan: Richmond MPO Regional Mass Transit Study (RMTS)
 - Focus: Long-Range Plan for Richmond Region
 - Status: Complete May 2008

GRTC COA: Process

Extensive analysis of GRTC's fixed route bus service:

- Demographics
- Historic GRTC trends
- Vehicle fleet
- Peer review
- Ridership
- Customer survey
- Route diagnostics
- Household survey

Developed phased recommendations:

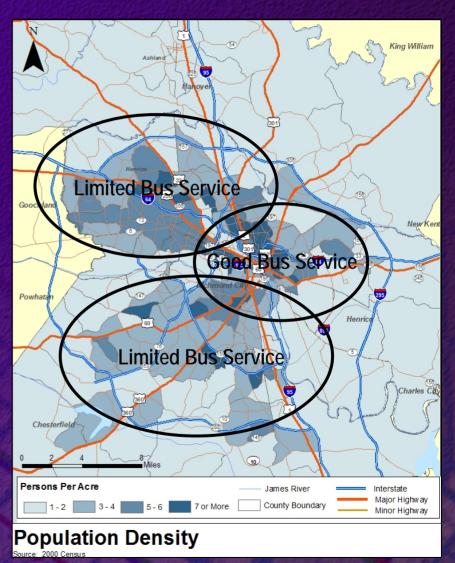
- Phase I: Immediate routing/service improvements
- Phase II: Implement transfer center concept
- Phase III: Develop Bus Rapid Transit line

GRTC COA: Service Area

- Population density greatest in Richmond
- Greatest transit demand in Richmond
- Density radiates in two corridors:

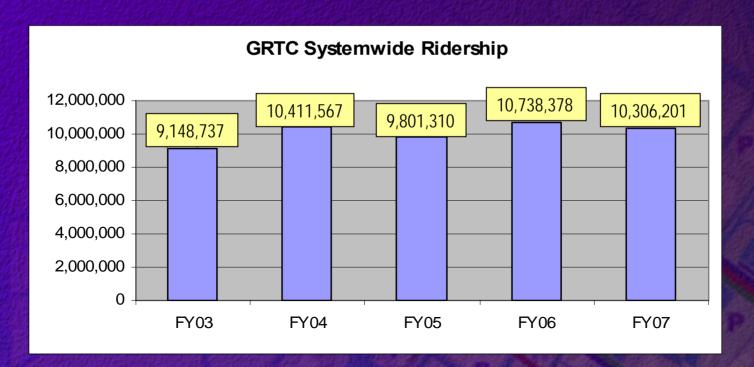
Northwest: I-64/Broad St.

Southwest: Hull St/Midlothian



GRTC COA: Ridership

- Average about 10 million rides per year
- Heaviest passenger loads occur entering or leaving the downtown area
- Broad St., Hull St., and Robinson St. lines have the highest overall ridership
- Five year system wide trend:



GRTC COA: Peer Review

Cost Effectiveness:

Cost Effectiveness								
Total Cost per Trip			Total Revenue per Trip (Average Fare)			Subsidy per Trip		
Tucson, AZ	\$	1.78	Hartford, CT	\$	0.85	Tucson, AZ	\$	1.31
Richmond, VA (GRTC)	\$	2.25	Indianapolis, IN	\$	0.85	Richmond, VA (GRTC)	\$	1.53
Lansing, MI	\$	2.43	Tampa, FL	\$	0.77	Lansing, MI	\$	2.08
Madison, WI	\$	2.87	Richmond, VA (GRTC)	\$	0.71	Madison, WI	\$	2.23
Hartford, CT	\$	3.12	Memphis, TN	\$	0.67	Hartford, CT	\$	2.27
Memphis, TN	\$	3.45	Madison, WI	\$	0.64	Memphis, TN	\$	2.77
Charlotte, NC	\$	3.46	Charlotte, NC	\$	0.60	Charlotte, NC	\$	2.86
Austin, TX	\$	3.48	Dayton, OH	\$	0.58	Indianapolis, IN	\$	2.98
Dayton, OH	\$	3.73	Tucson, AZ	\$	0.47	Tampa, FL	\$	3.07
Indianapolis, IN	\$	3.83	Albany, NY	\$	0.47	Dayton, OH	\$	3.15
Tampa, FL	\$	3.84	Lansing, MI	\$	0.35	Austin, TX	\$	3.30
Albany, NY	\$	3.91	Austin, TX	\$	0.18	Albany, NY	\$	3.44
Average	\$	3.18	Average	\$	0.59	Average	\$	2.58
GRTC	\$	3.84	GRTC	\$	0.71	GRTC	\$	1.53
Percent Difference		21%	Percent Difference		20%	Percent Difference		-41%
Rank	2 (Of 12	Rank	4	of 12	Rank	2	of 12

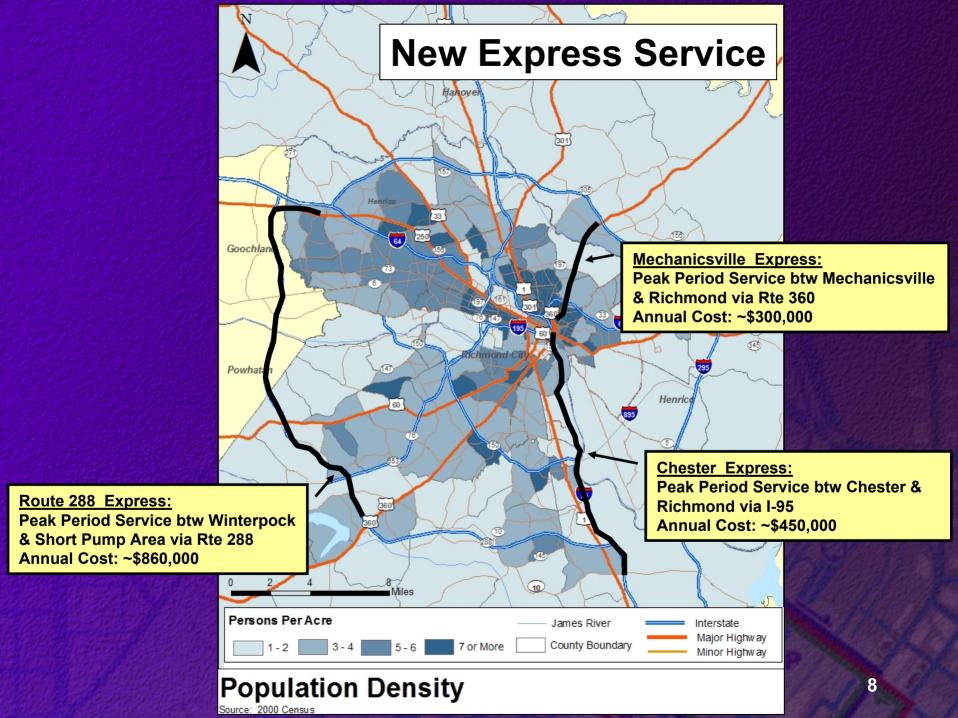
Source: Nation Transit Database - FY2005

Major Recommendations of the COA

- New Service
- Transfer Center
- Bus Rapid Transit





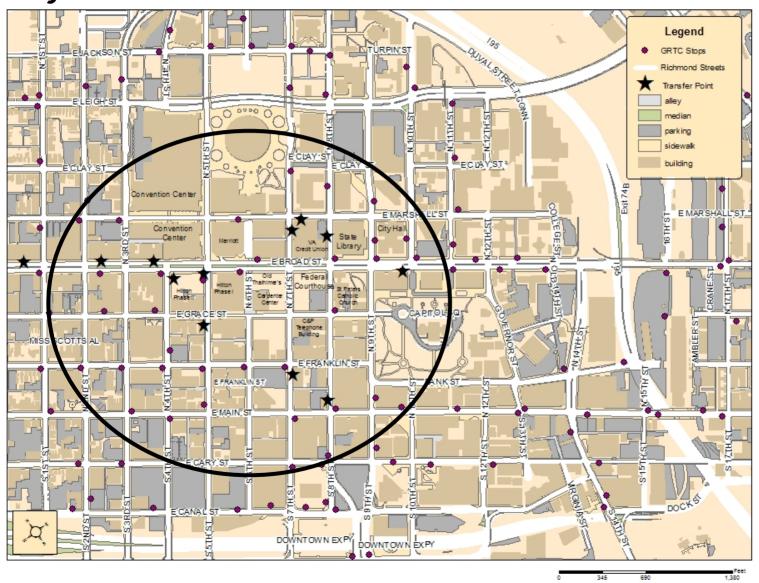


GRTC COA: Transfer Center

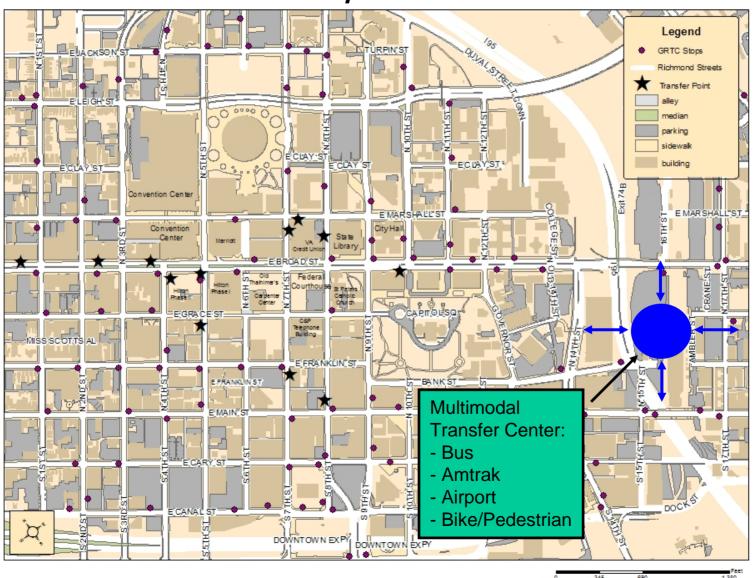
Why introduce a transfer center?

- Many of our riders transfer:
 - GRTC provides about 40,000 trips per day
 - 25% of those trips are transfers
 - This equals about 10,000 transfers a day
- A transfer center can provide:
 - Increased customer convenience
 - Economic development opportunities
 - Multimodal connections

Major Downtown Transfer Locations



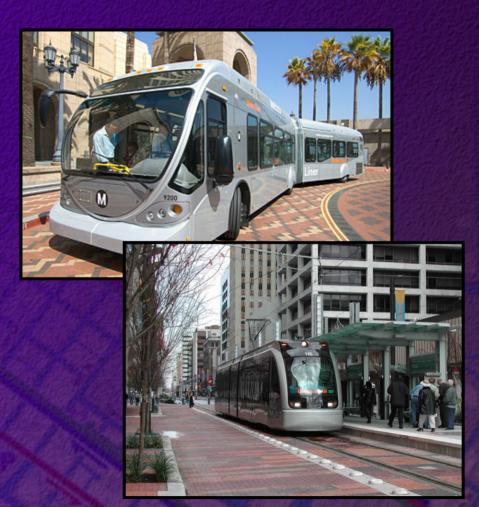
Transfer Center Concept



GRTC COA: What is BRT?

Typical Elements:

- Dedicated Running Ways
- Substantial Stations
- Efficient Fare Collection
- Intelligent TransportationSystem Applications
- Limited-Stop, Frequent, All-Day Service
- Strong Identity and Branding
- Modern, Low-Floor, High Capacity Rubber-Tired Vehicles



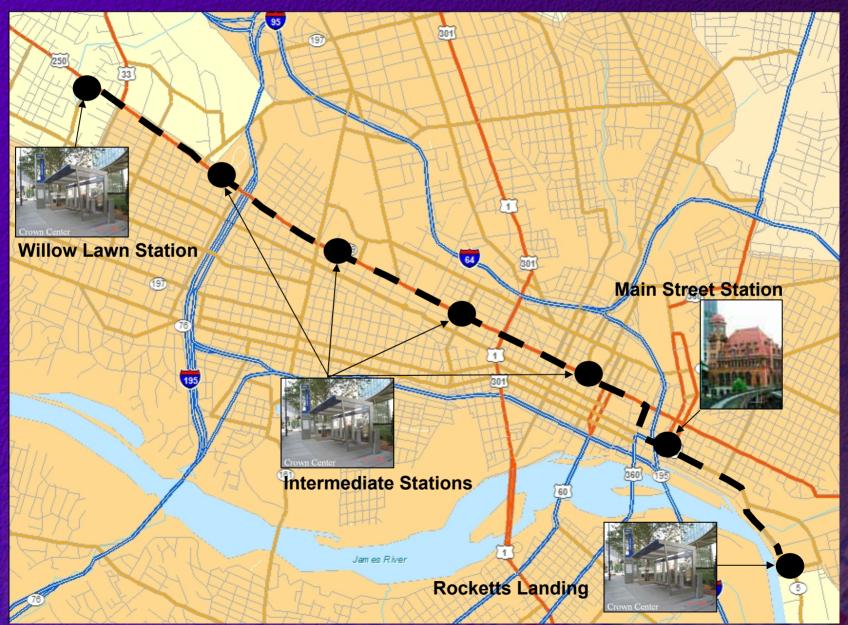
GRTC COA: Fund Source for BRT

Federal Transit Administration Very Small Starts Project Qualifications

- Substantial Transit Stations
- Signal Priority/Pre-emption
- Low Floor / Level Boarding Vehicles
- Special Branding of Service
- Frequent Service 10 min peak/15 min off peak
- Service offered at least 14 hours per day
- Existing corridor ridership exceeding 3,000/day
- Less then \$50 million total cost



GRTC COA: Bus Rapid Transit Plan



Conclusion

Future Funding Needs:

- FY09 Planning/Design work for Broad Street BRT project:
 - Cost: ~\$900,000
 - Complete in time for federal reauthorization in 2009
- Provide FY10 match for Small Starts funding of BRT project
 - Capital Cost ≤ \$50 million
- Funds needed to support all phases of transfer center project:
 - NEPA & 0-30% design = funded via \$1.2 million federal grant with expected completion in Fall 2008
 - Request FY09 state funds to support 30-100% design:
 ~\$3.5 million with expected completion in Summer 2009
 - Request FY10 state funds for construction

Thank you

John M. Lewis, Jr.
Chief Executive Officer, GRTC Transit System
101 South Davis Avenue
Richmond, VA 23220
(804) 358-3871
Jlewis@RideGRTC.com