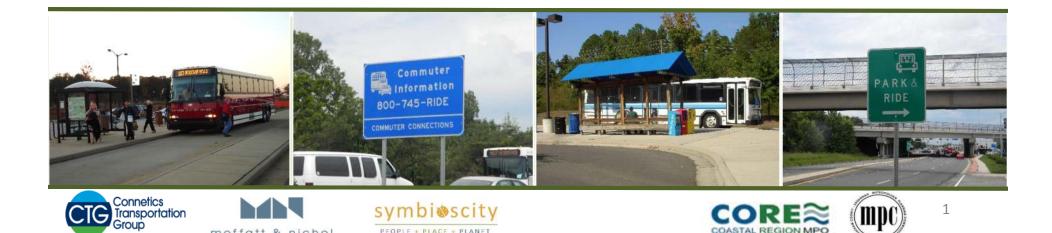
Chatham County–Savannah MPC Stakeholder Committee Meeting #2

January 23, 2013

COASTAL REGION MPC





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Agenda

- 1. Introductions
- 2. Task 2 Tech Memo
 - Conclusions
 - Comments/Discussion
- 3. Stakeholder Outreach Activities
- 4. Proposed Park and Ride Site Evaluation Process
- 5. Travel Demand Analysis Approach
- 6. Next Steps
- 7. Questions and Discussion



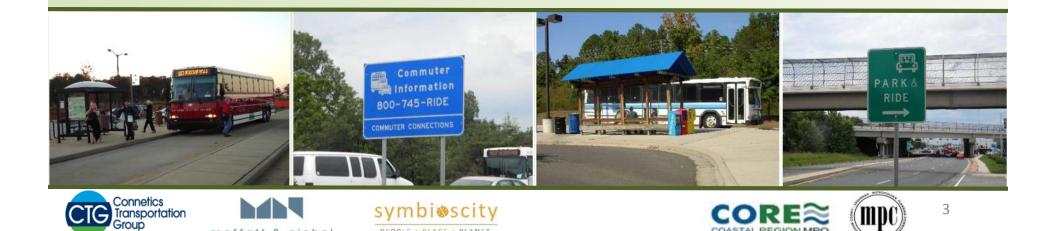


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TASK 2 TECH MEMO REVIEW



COASTAL REGION MPO

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Tech Memo 2 Review

Analysis Completed

- Existing and 2040 Demographics
 - Population growth and densities
 - Employment growth and densities
- American Community Survey County-to-County Travel Patterns
- LEHD Analysis of 10 Employment Activity Centers
- Analysis of Employer-Supplied Data
 - ✓ Gulfstream
 - Crossroads Home Depot Distribution Center
 - Hunter Army Airfield and Fort Stewart
 - Georgia Southern
- Existing Park and Ride Lots





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Tech Memo 2 Review

Findings and Conclusions

- Highest population growth rates are for Effingham and Bryan Counties
- Significant population and employment growth along and west of I-95 corridor
- Over 2/3's of work trips from Effingham and Bryan Counties are leaving those counties for work elsewhere
- Areas with significant employment and densities are:
 - Downtown Savannah
 - ✓ Gulfstream/Airport/Crossroads area
 - ✓ Hospitals area
 - Hunter Army Airfield
 - ✓ Oglethorpe Mall and Southside areas





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Tech Memo 2 Review

Findings and Conclusions

- Analysis of demographics and work trip travel patterns suggest primary long-distance commuter corridors to focus efforts on are:
 - ✓ Northwest (Highway 21)
 - ✓ West (US 80 and I-16)
 - ✓ South (US 17 and I-95)











STAKEHOLDER OUTREACH EFFORTS







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Stakeholder Outreach Efforts

Stakeholder Interviews

- Gulfstream
- Chatham Area Transit
- Coastal Regional Commission
- Memorial Hospital
- SEDA and Crossroads Business Park
- Hunter Army Airfield and Fort Stewart
- Bryan County
- Effingham County





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PARK AND RIDE LOT SITE EVALUATION PROCESS







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Site Selection Process

Area Considerations

- Informal park-and-ride activity
- Density of residential areas
- Intensity and concentration of employment
- Distance between major residential areas and employment centers; and,
- Current and future levels of service on pertinent roadways.





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Suitability Assessment Criteria

- Geographic Factors
- Area Roadway Factors
- Site Location Factors
- Site Access Factors
- Transit Factors











Geographic Factors

- Relative Distance to Major Employment/Activity Centers
- Number of Employment Centers Served
- Others?











Area Roadway Factors

- Proximity to Major Commuter Corridors
- Proximity to Local Arterials
- Highway Corridor Level of Service
- Highway Corridor Average Annual Daily Traffic Volumes
- Others?













Site Location Factors

- Visibility
- Residential Dwellings
- Safety and Security
- Others?









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Site Access Factors

- Trail and/or Bike Access
- Sidewalk Access
- Available Right-of-Way
- Others?











Transit Service Factors

- Express transit routes
- Fixed-route transit service
- Circulator service at the lot
- Circulator service at the destination
- Others?







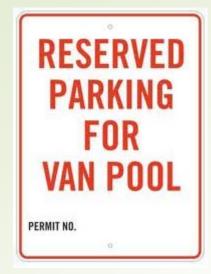




Other Park-and-Ride Lot Considerations

- Lot Size
- Internal Lot Design
 - Handicapped Parking
 - Kiss-and-Ride Parking
 - Short-Term Parking
 - Standard Park-and-Ride Parking
- Access
- Traffic Control Devices









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Other Park-and-Ride Lot Considerations

- Signage
- Amenities
- Landscaping
- Maintenance
- Boundary Identification
- Expansion Potential











Lot Naming and Addresses

- Address Signs
- Lot Naming

















TRAVEL DEMAND ANALYSIS APPROACH







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2011 Base Year Work Person Trip Data

Data Sources and General Limitations

- American Commuter Survey data:
 - Represents <u>all</u> work travel
 - County-level geography (i.e., too few zones)
- ➤ LEHD data:
 - Represents <u>most</u> work travel (no federal employees or sole proprietors)
 - Census block geography (nearly 25,000 blocks)
- Local Employer data:
 - Most exact
 - Various geographies (zip codes and county)





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Study Area

Georgia Counties

- Chatham
- Effingham
- Bryan
- Liberty
- Bulloch

South Carolina Counties

- Jasper
- Beaufort







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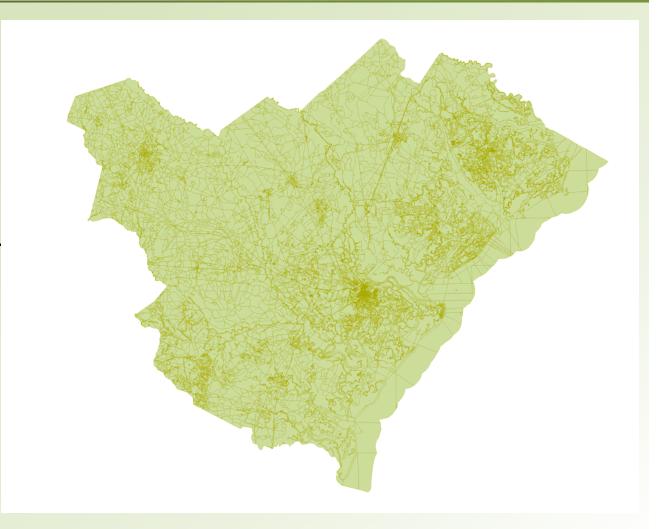




Geography of LEHD Data

Block-Level Geography

- Nearly 25,000
 Census Blocks
- Some 200,000 Hometo-Work records
- Needs practical consolidation









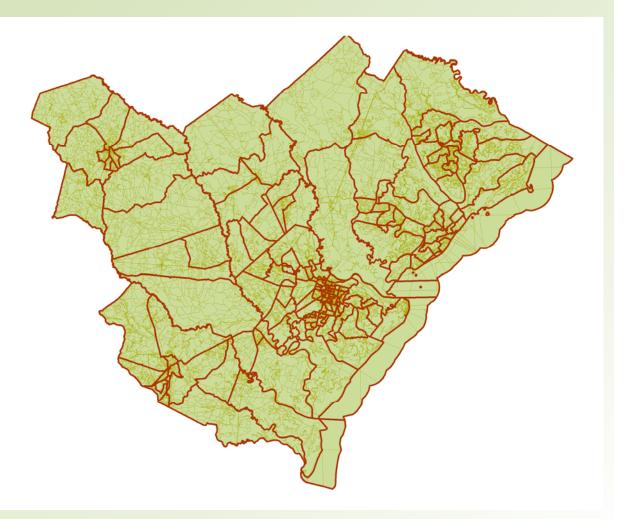




Analytical Geography

Merged Geography

- 166 Total zones or districts
- 10 by Employment Area
- 156 by Census Tract or portions of Census Tracts











Simplified LEHD Expansion Strategy

- ACS county-level data assumed to be best representation of <u>all</u> work flows
- LEHD data provides needed detail *BUT* is missing federal/military employment and sole proprietors
- Assume most of "missing" LEHD trips is related to military bases
- Rest of missing trips distributed based on LEHD trip distribution
- So: ACS = (LEHD x Factor) + Military

166 x 166 matrix









2040 Horizon Year Work Trip Expansion

- Expansion based on TAZ population and employment
- 2011 Base Year Work Trips = 291,974
- 2040 Future Year Work Trips = 376,457
- +29% Increase





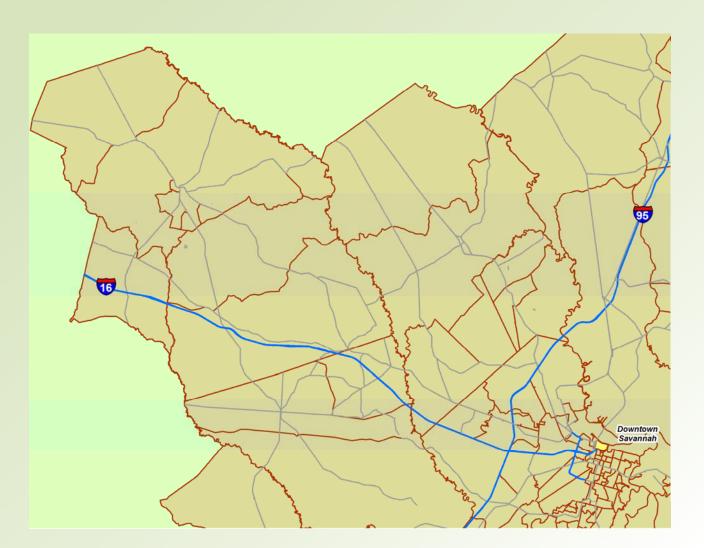






Downtown Destination

Red Boundaries are Analytical Areas (i.e., Census Tracts)





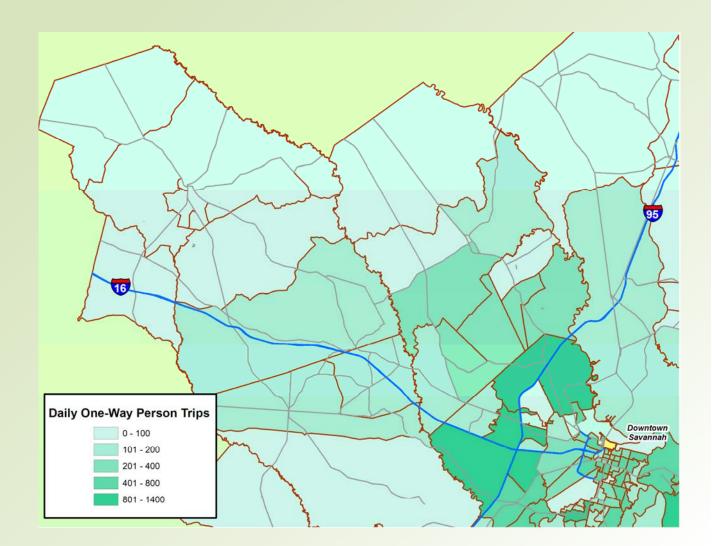






Downtown Destination

Daily One-Way Person Trips by Analytical Area







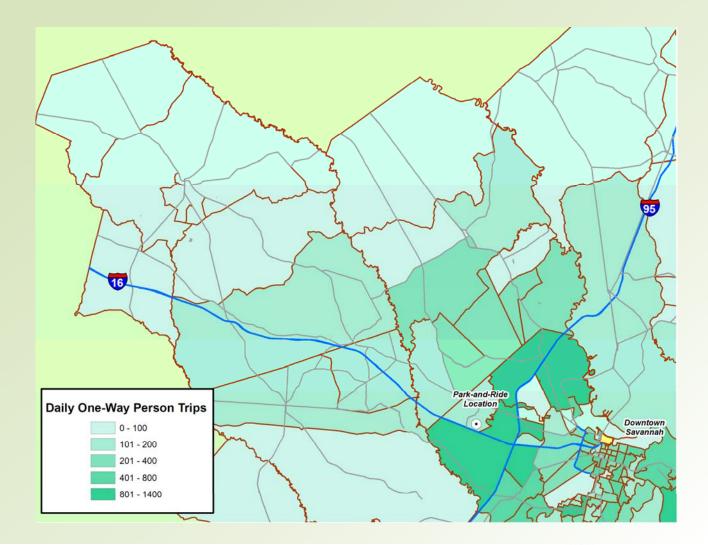
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Downtown Destination

Add a New Park-and-Ride





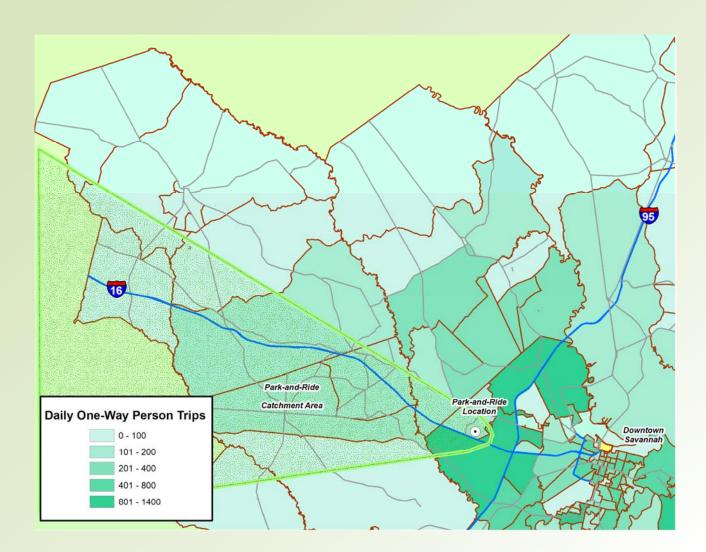


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Downtown Destination

Draw a Catchment Area for the New Park-and-Ride





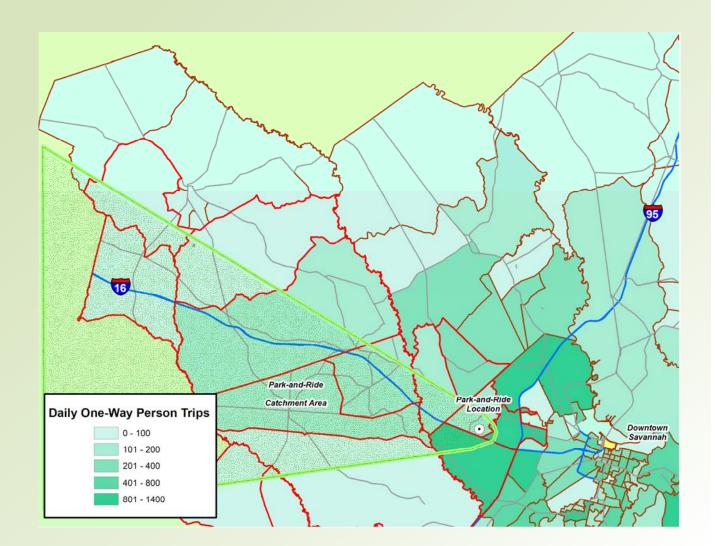






Downtown Destination

Isolate Tracts in the Park-and-Ride's Catchment Area







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- Approach results in:
 - ✓ 946 Base Year (2011) trips
 - ✓ 1,475 Future Year (2040) trips
- This represents potential park-and-ride lot market from this corridor to downtown Savannah

	One-Way Work Person Trips to Downtown Savannah Base Year Year 2040		Growth			<u>Adjustments</u>	Catchment Area Person Trips to Downtown	
Catchment Tracts			Person Trips	Overall Percent	Annual Percent	% of Tract in Catchment Area		nnah Year 2040
13029920101	103	147	44	43%	1.4%	10%	10	15
13029920102	91	134	43	47%	1.6%	20%	18	27
13029980000	1	1	0	0%	0.0%	50%	1	1
13031110300	12	15	3	25%	0.8%	90%	11	14
13031110700	42	57	15	36%	1.2%	80%	34	46
13031110800	4	9	5	126%	4.2%	30%	1	3
13031110900	114	174	60	53%	1.8%	50%	57	87
13051010801	162	168	6	4%	0.1%	25%	41	42
13051010802	467	845	378	81%	2.7%	30%	140	253
13051010803	710	1,128	418	59%	2.0%	75%	533	846
13103030401	113	184	71	63%	2.1%	20%	23	37
13103030402	156	208	52	33%	1.1%	50%	78	104
13179010102	2	3	1	56%	1.9%	50%	1	2
Totals	1,977	3,073	1,096	55%	1.8%		946	1,475











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NEXT STEPS

