

Chatham County–Savannah MPC Stakeholder Committee Meeting #3

March 27, 2014



COASTAL REGION MPO

REGIONAL PARK + RIDE INITIATIVE

park. ride. relax.



Agenda

1. Introductions
2. Park-and-Ride Location Analysis
4. Travel Demand Analysis
5. Group Discussions
6. Next Steps

PARK-AND-RIDE LOCATION ANALYSIS



Park-and-Ride Location Analysis

Process

- ✓ Define evaluation methodology
- ✓ Weight factors based on stakeholder committee input
- ✓ Recommend locations for further consideration
- ✓ Document in Tech Memo #3
(being reviewed by MPC staff)

Park-and-Ride Location Analysis

Candidate Park-and-Ride Lot Sites

Northwest Corridor Locations

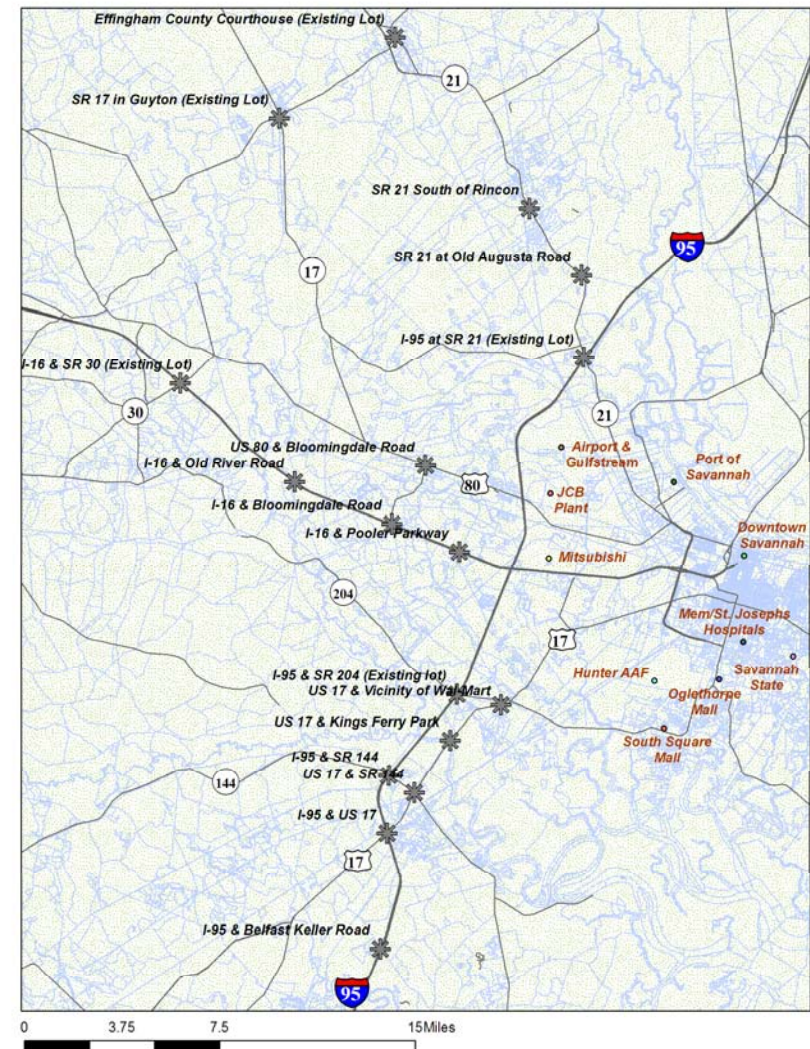
- I-95 at SR 21 (Existing Lot)
- SR 21 at Old Augusta Road
- SR 21 South of Rincon
- Effingham County Courthouse (Existing Lot)
- SR 17 in Guyton (Existing Lot)

South Corridor Locations

- US 17 & Vicinity of Wal-Mart
- I-95 & SR 204 (Existing lot)
- US 17 & Kings Ferry Park
- US 17 & SR 144
- I-95 & SR 144
- I-95 & US 17
- I-95 & Belfast Keller Road

West Corridor Locations

- I-16 & Pooler Parkway
- I-16 & Bloomingdale Road
- US 80 & Bloomingdale Road
- I-16 & Old River Road
- I-16 & SR 30 (Existing Lot)



Park-and-Ride Location Analysis

Suitability Measures

- Relative distance to major employment/activity center
- Number of employment centers served
- Proximity of major commuter ramps
- Proximity to local arterials
- Visibility from major travel routes
- Adjacent highway corridor level of service
- Adjacent highway corridor Annual Average Traffic Volume (AADT)

Park-and-Ride Location Analysis

Suitability Measures (Continued)

- Residential dwelling units within two miles of lot
- Type(s) of transit services serving the facility
- Safety and security of the facility
- Availability and access to pedestrian trails and bike lanes
- Availability and access to sidewalks
- Right-of-way availability

Park-and-Ride Location Analysis

Park-and-Ride Location Score Results

Corridor	Location	County	Score
Northwest	SR 21 South of Rincon	Effingham	6.65
	I-95 & SR 21	Chatham	6.50
	SR 17 in Guyton	Effingham	5.85
	SR 21 & Old Augusta Road	Chatham	5.55
	Effingham County Courthouse	Effingham	4.65
South	I-95 & SR 204	Chatham	6.75
	I-95 & US 17	Bryan	6.55
	US 17 near Wal-Mart	Chatham	6.40
	I-95 & Belfast Keller Road	Bryan	6.15
	US 17 & SR 144	Bryan	5.95
	I-95 & SR 144	Bryan	5.50
	US 17 & Kings Ferry Park	Chatham	4.45
West	US 80 & Bloomingdale Road	Chatham	6.35
	I-16 & SR 30	Bryan	6.00
	I-16 & Old River Road	Effingham	5.90
	I-16 & Bloomingdale Road	Chatham	5.85
	I-16 & Pooler Parkway	Chatham	4.80

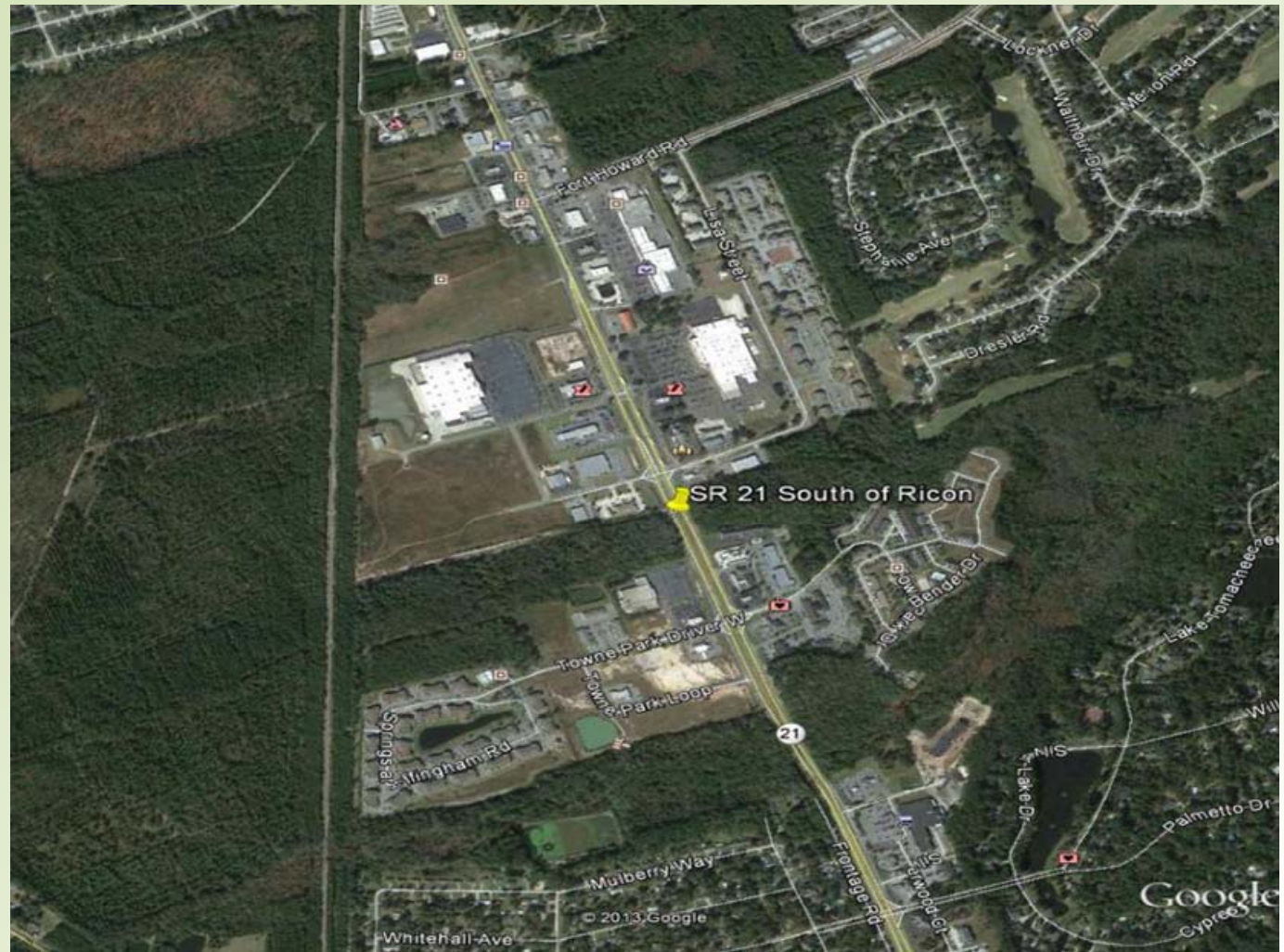
Park-and-Ride Location Analysis

Park-and-Ride Location Score Results: *6.0 or Better Score*

Corridor	Location	County	Score
Northwest	SR 21 South of Rincon	Effingham	6.65
	I-95 & SR 21	Chatham	6.50
	SR 17 in Guyton	Effingham	5.85
	SR 21 & Old Augusta Road	Chatham	5.55
	Effingham County Courthouse	Effingham	4.65
South	I-95 & SR 204	Chatham	6.75
	I-95 & US 17	Bryan	6.55
	US 17 near Wal-Mart	Chatham	6.40
	I-95 & Belfast Keller Road	Bryan	6.15
	US 17 & SR 144	Bryan	5.95
	I-95 & SR 144	Bryan	5.50
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	I-16 & SR 30	Bryan	6.00
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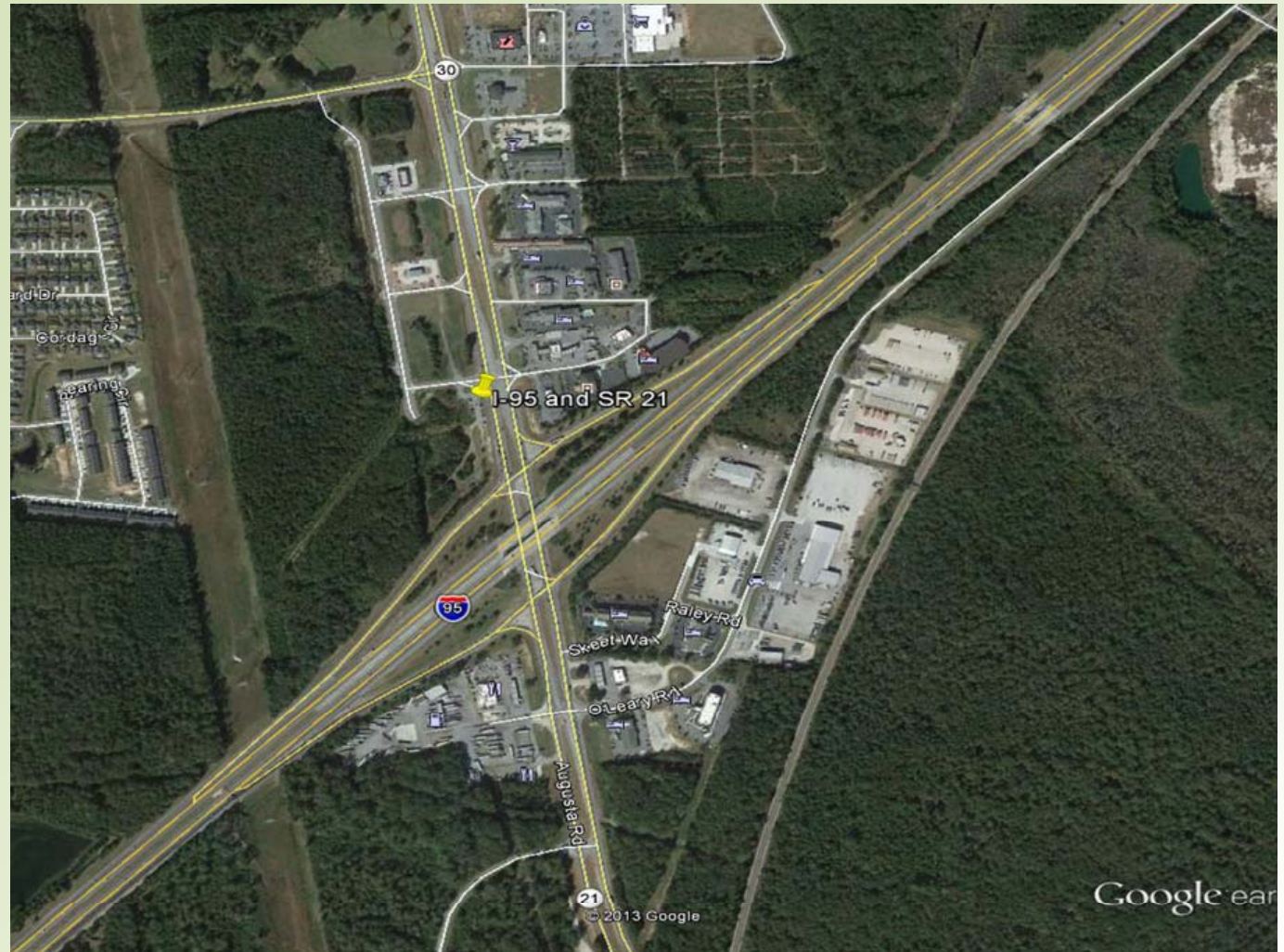
Park-and-Ride Location Analysis

Northwest:
SR 21, South of
Rincon



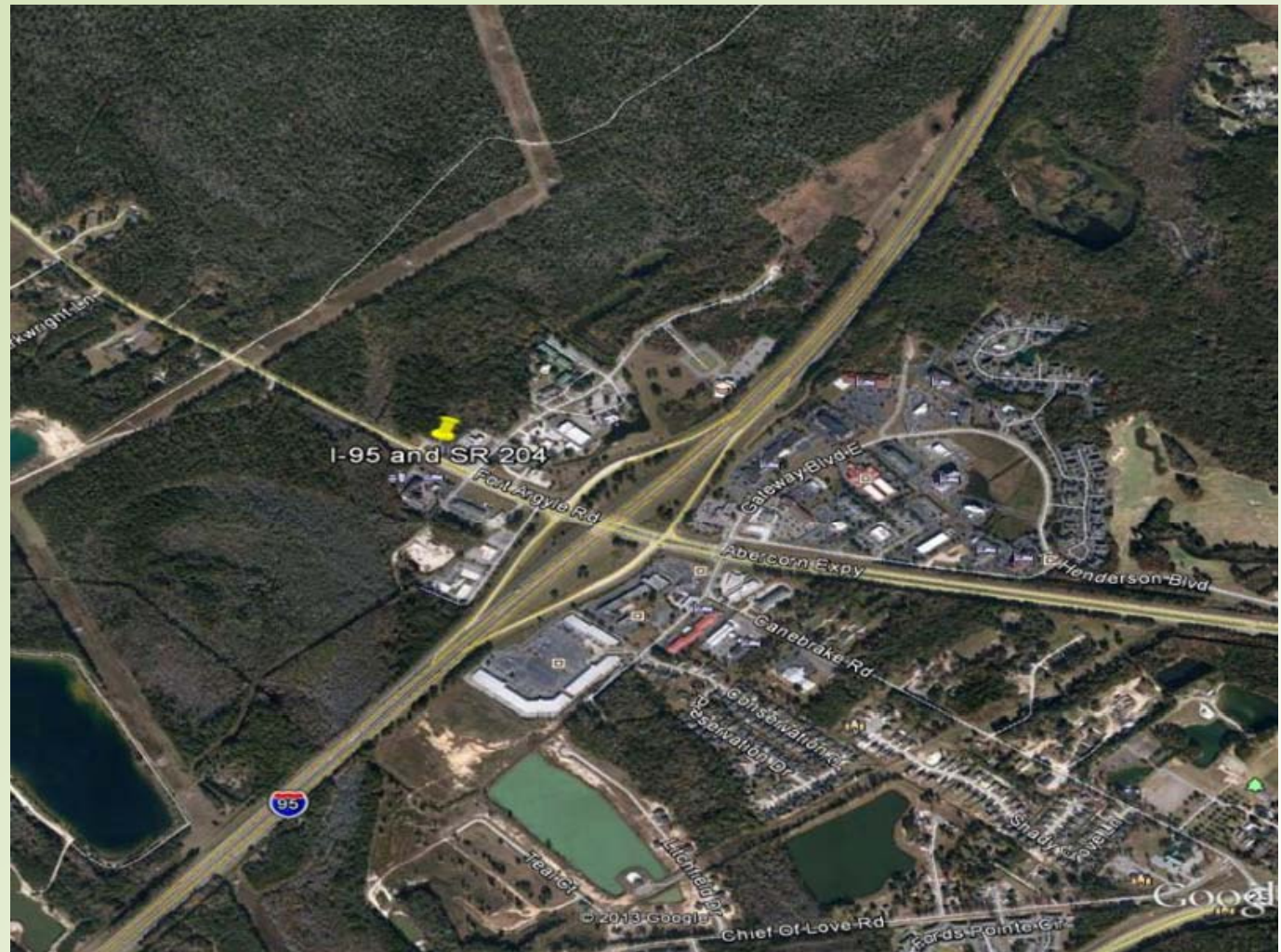
Park-and-Ride Location Analysis

Northwest:
I-95 & SR 21



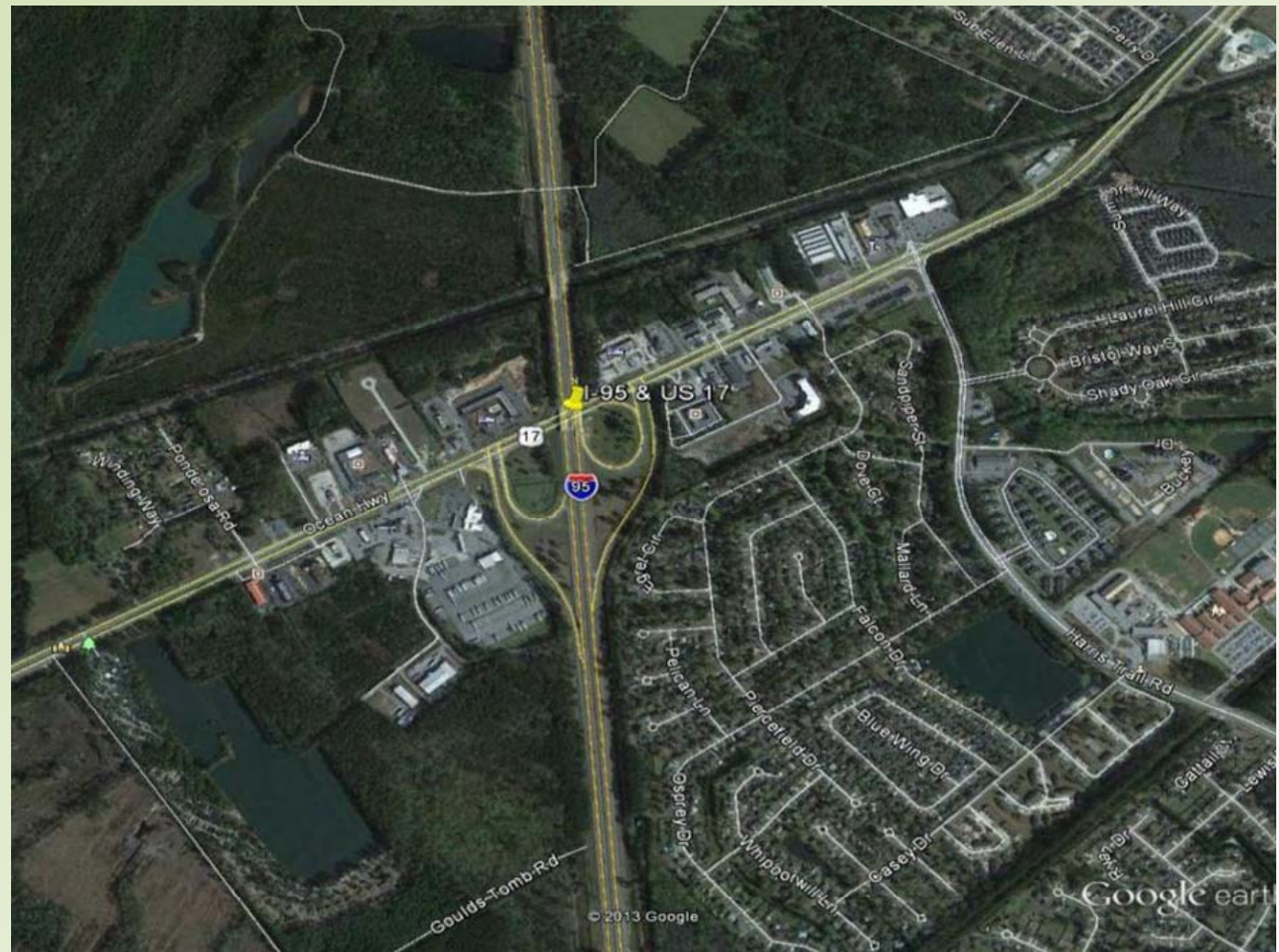
Park-and-Ride Location Analysis

South:
I-95 and SR 204



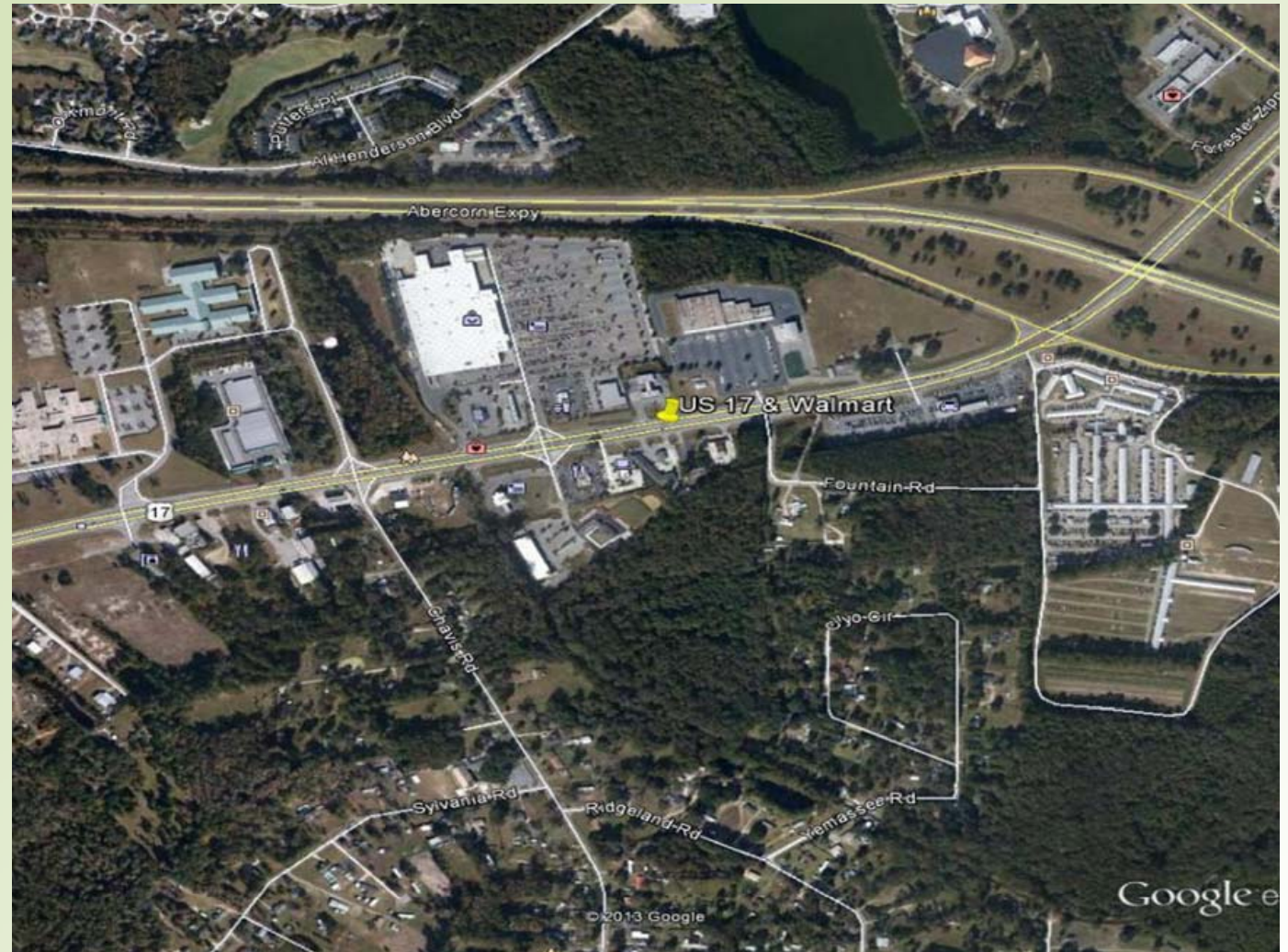
Park-and-Ride Location Analysis

South:
I-95 and US 17



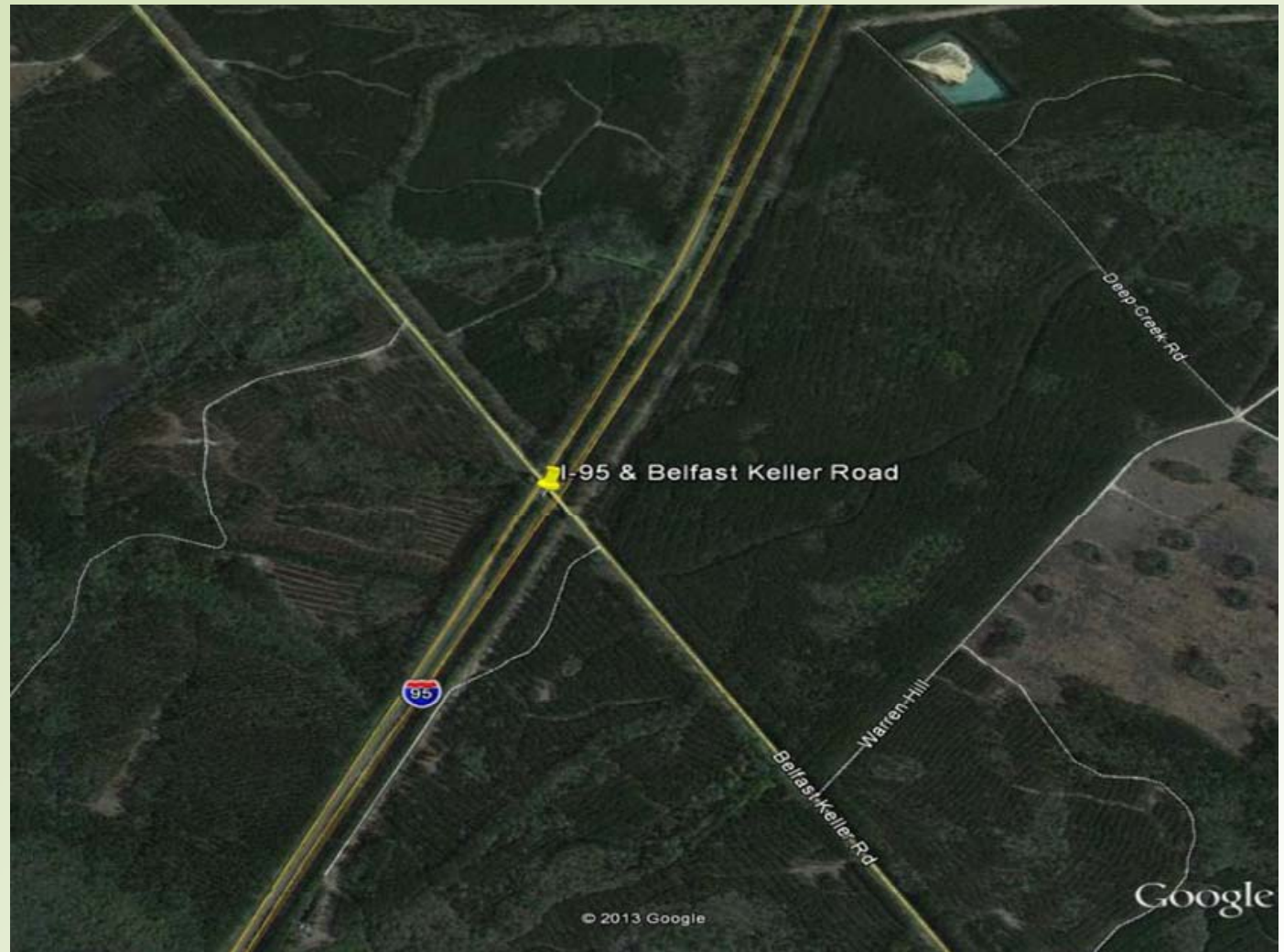
Park-and-Ride Location Analysis

**South:
US 17 & Vicinity
of Walmart**



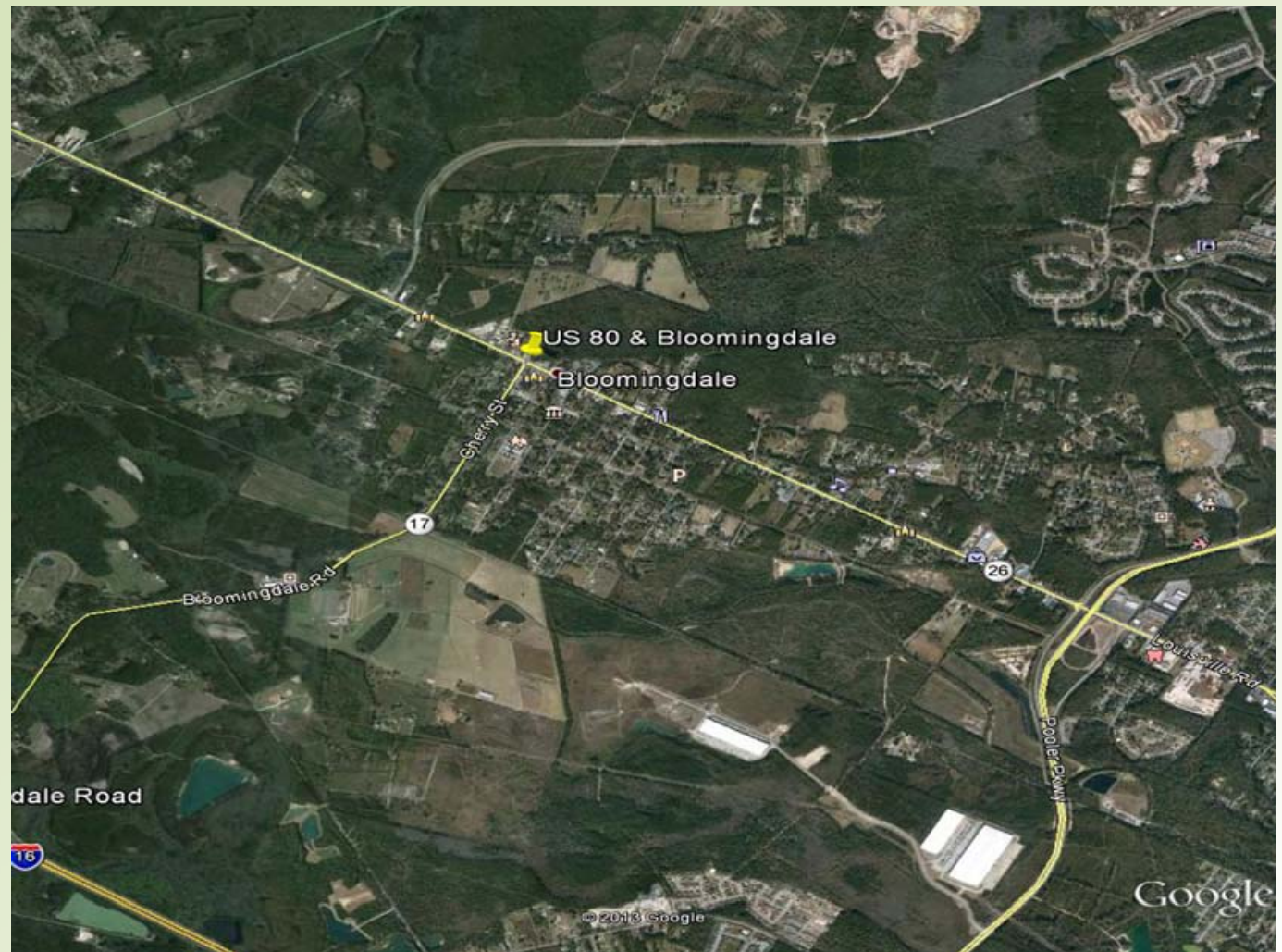
Park-and-Ride Location Analysis

South:
I-95 &
Belfast Keller
Road



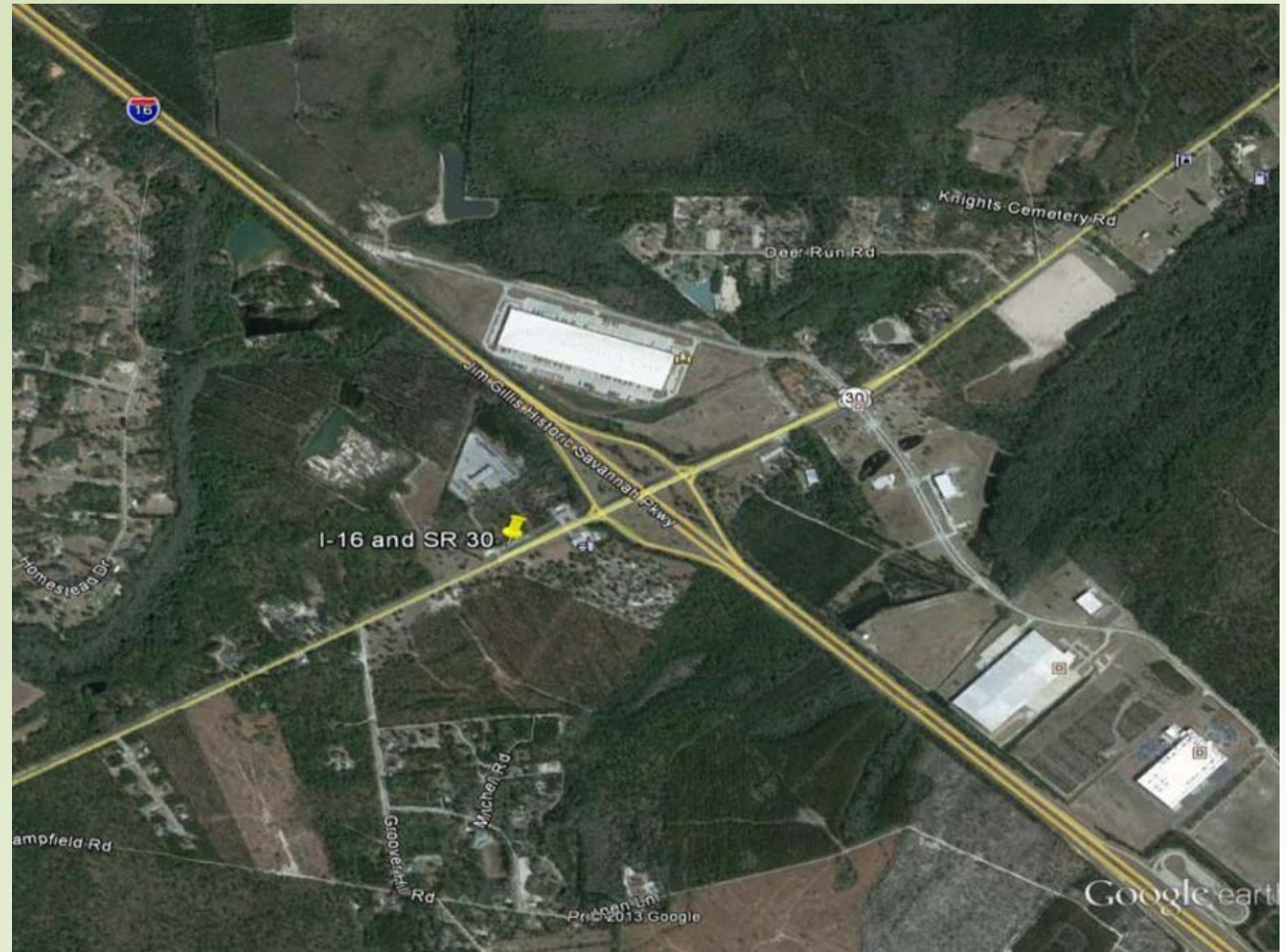
Park-and-Ride Location Analysis

West:
US 80 &
Bloomingdale
Road



Park-and-Ride Location Analysis

West:
US I-16 & SR 30



TRAVEL DEMAND ANALYSIS

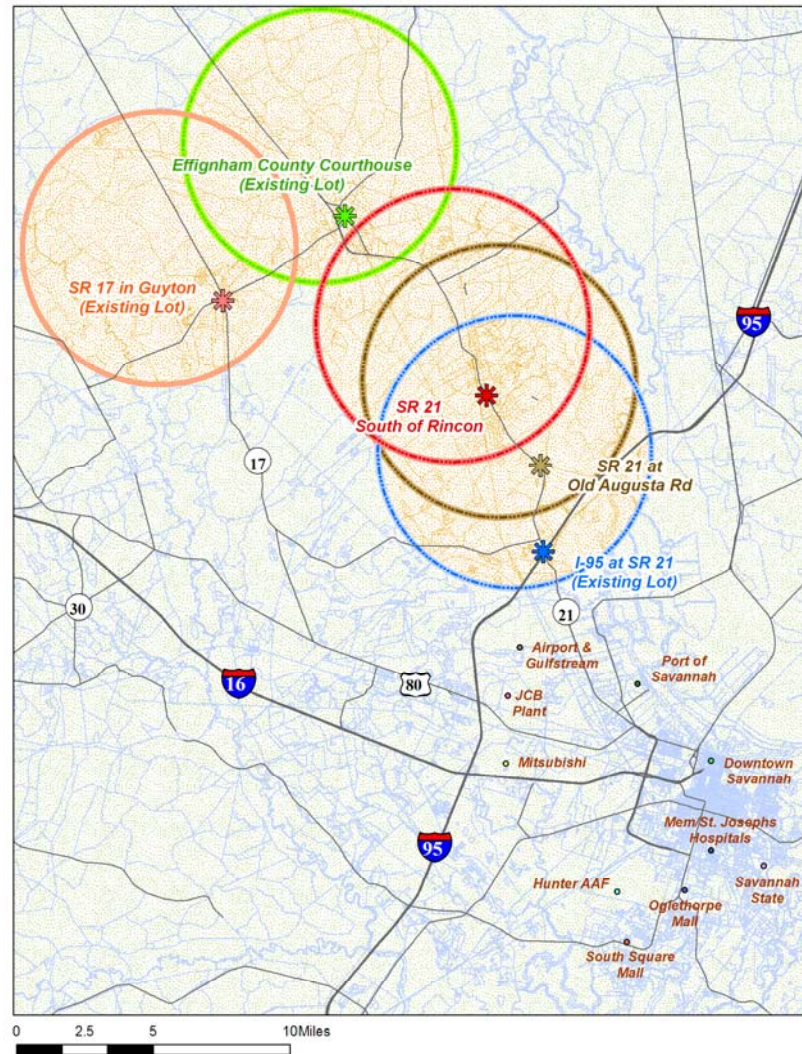


Travel Demand Analysis

Process

- Used American Community Survey and Census Longitudinal Employer Household Dynamics (LEHD) information to estimate home-to-work trips in 7-county study area
- Drew 10-mile diameter catchment areas for all 17 locations
- Estimated work trips from each catchment area to major employment centers (2011 and 2040)

Travel Demand Analysis

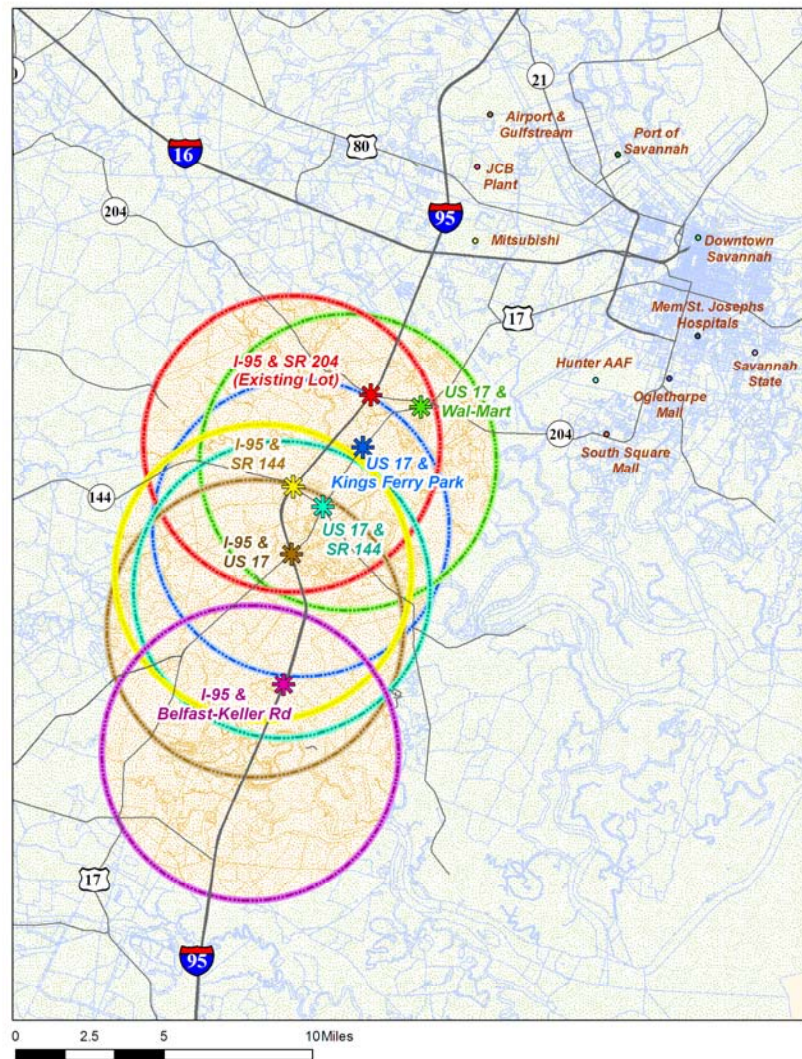


Northwest Corridor

Location	Score	Downtown Trips		Distance to Downtown
		2011	2040	
SR 21 South of Rincon	6.65	838	1,108	15.70
I-95 & SR 21	6.50	1,847	2,502	9.82
SR 17 in Guyton	5.85	380	505	24.57
SR 21 & Old Augusta Road	5.55	1,950	2,635	12.49
Effingham County Courthouse	4.65	355	462	24.04

Location	Score	Airport/Gulfstream Trips		Distance to Gulfstream
		2011	2040	
SR 21 South of Rincon	6.65	1,473	1,960	9.30
I-95 & SR 21	6.50	2,023	2,743	3.61
SR 17 in Guyton	5.85	633	820	16.72
SR 21 & Old Augusta Road	5.55	2,289	3,087	6.70
Effingham County Courthouse	4.65	672	873	17.05

Travel Demand Analysis



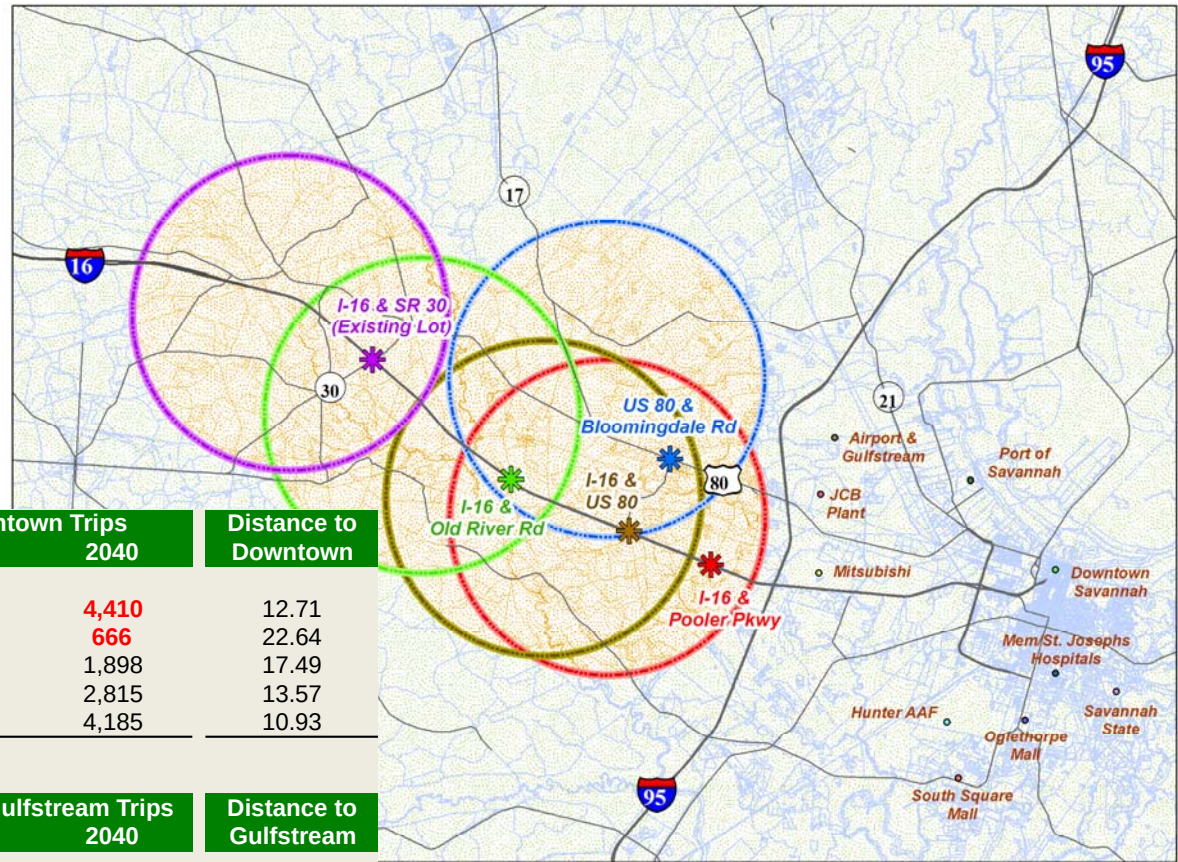
South Corridor

Location	Score	Downtown Trips		Distance to Downtown
		2011	2040	
I-95 & SR 204	6.75	1,934	2,841	12.24
I-95 & US 17	6.55	737	1,023	17.37
US 17 near Wal-Mart	6.40	3,233	4,331	10.96
I-95 & Belfast Keller Road	6.15	419	639	20.57
US 17 & SR 144	5.95	1,654	2,234	15.59
I-95 & SR 144	5.50	2,050	2,995	17.37
US 17 & Kings Ferry Park	4.45	1,995	2,908	13.33

Location	Score	Airport/Gulfstream Trips		Distance to Gulfstream
		2011	2040	
I-95 & SR 204	6.75	948	1,416	10.30
I-95 & US 17	6.55	506	699	16.29
US 17 near Wal-Mart	6.40	1,319	1,840	10.16
I-95 & Belfast Keller Road	6.15	319	479	20.48
US 17 & SR 144	5.95	800	1,090	14.42
I-95 & SR 144	5.50	1,008	1,491	14.24
US 17 & Kings Ferry Park	4.45	987	1,458	12.04

Travel Demand Analysis

West Corridor



Location	Score	Downtown Trips		Distance to Downtown
		2011	2040	
US 80 & Bloomingdale Road	6.35	2,939	4,410	12.71
I-16 & US 280	6.00	480	666	22.64
I-16 & Old River Road	5.90	1,265	1,898	17.49
I-16 & Bloomingdale Road	5.85	1,803	2,815	13.57
I-16 & Pooler Parkway	4.80	2,792	4,185	10.93

Location	Score	Airport/Gulfstream Trips		Distance to Gulfstream
		2011	2040	
US 80 & Bloomingdale Road	6.35	2,346	3,486	5.27
I-16 & US 280	6.00	584	782	14.85
I-16 & Old River Road	5.90	1,158	1,654	10.34
I-16 & Bloomingdale Road	5.85	1,289	1,981	7.14
I-16 & Pooler Parkway	4.80	2,075	3,070	5.61

GROUP DISCUSSIONS



Group Discussions

- What is/are the appropriate number of park-and-ride lot(s) in each corridor?
- Trade-off considerations between:
 - location analysis (scoring based on suitability criteria)
 - travel demand analysis (trip volumes to destinations)how important is each in selection?
- What park-and-ride locations would **YOU** suggest for further consideration?

NEXT STEPS

