Oconee County Transit Feasibility Study

Implementation Plan Presentation

May 29, 2014

DRAFT



Overview

- Original Study Completed in December 2008
- Goals of Update
 - Re-engage public
 - Integrate 2010 Census data
 - Review current transit service
 - Benchmark peer communities
 - Recommended next steps
 - Expand service to Walhalla, Westminster, and other parts of Oconee County



Review of Current Transit Service in Oconee County

- Clemson Area Transit (CAT)
- Began operating in Oconee County in 2006
 - Three routes
 - 50% in City of Seneca
 - 50% in unincorporated
 Oconee County



Path Forward

- Form Transit Advisory Task Force
- Perform an origin-destination study
- Begin dialogue with the City of Seneca and CAT concerning expanded service
- Identify funding
- Finalize service plan
- Finalize financial plan
- Implement new services



Study Elements

- Develop and administer survey of key area employers (O & D Study also)
- Develop a Service Implementation Plan
- Estimate operational, maintenance, and capital costs
- Determine capital equipment and facility requirements
- Prepare Financial Plan
- Conduct meetings with Transit Advisory Task Force Committee



Key Area Employer Survey

- Designed key employer survey and initiated survey website
- The Greater Oconee County Chamber of Commerce sent an electronic link for survey to their membership in an e-newsletter
- Conducted telephone interaction with area employers to encourage them to participate in employer survey
- Three responses to date
 - Low interest from employers



Commute Patterns (O&D Analysis)

- Utilized US Census Bureau's Longitudinal Employer-Household Dynamics (LEHD)
 Origin-Destination Employment Statistics (LODES)
- Describes geographic patterns of jobs by employment locations and residential locations as well as the connections between the two locations

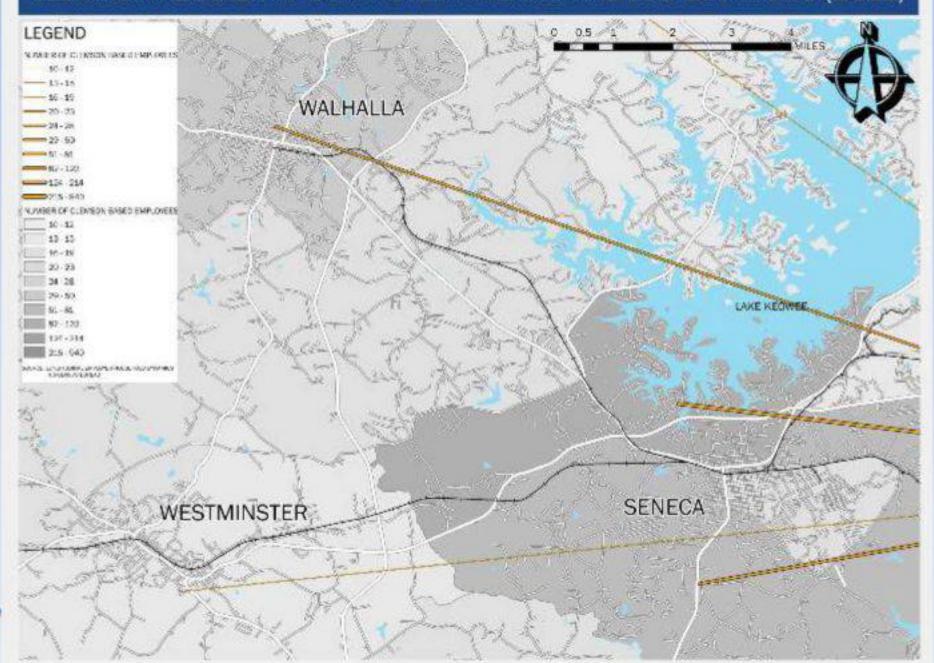


Commute Patterns (O&D Analysis)

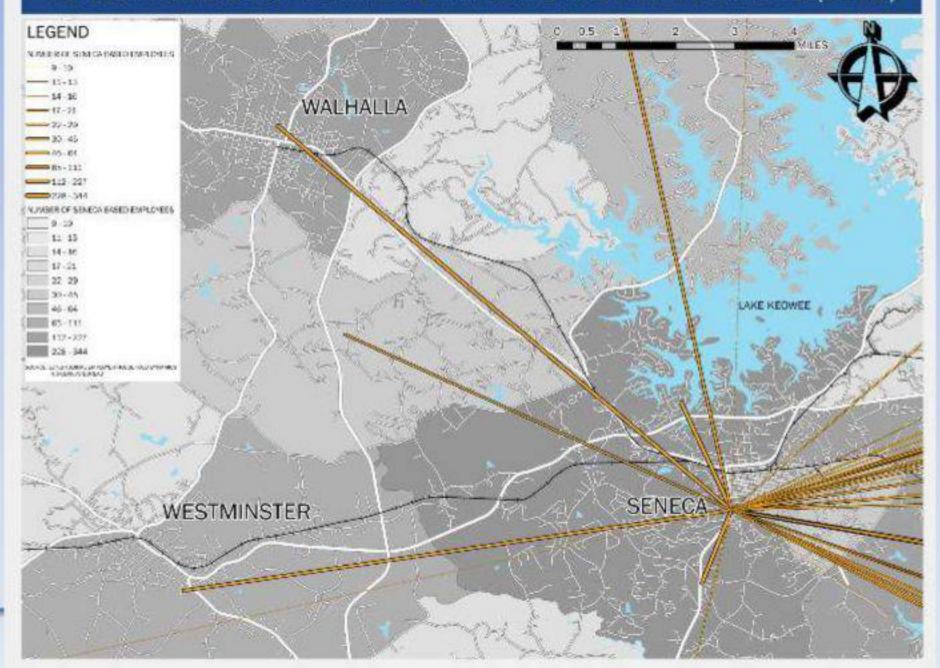
 LEHD data was analyzed to determine the census tract location of employees residing in the communities of Clemson, Seneca, Walhalla, and Westminster



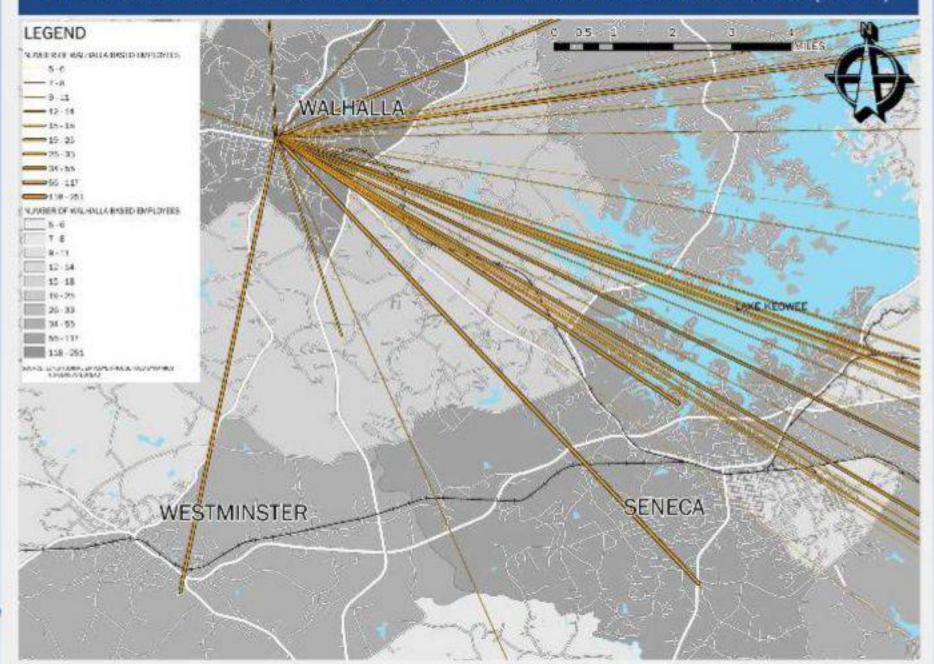
CLEMSON RESIDENTS' COMMUTE PATTERNS AND JOB LOCATIONS (2011)



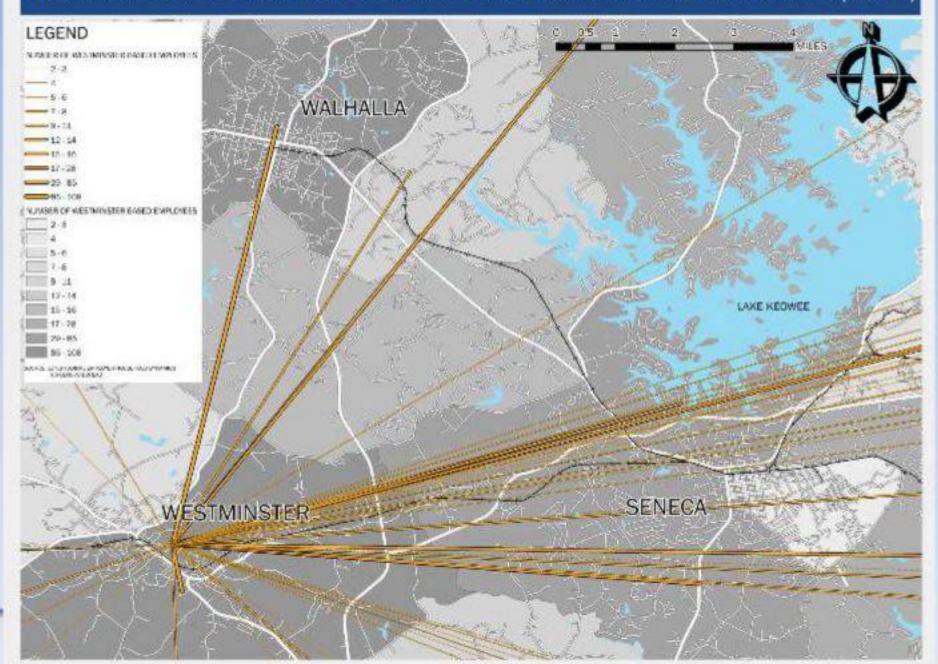
SENECA RESIDENTS' COMMUTE PATTERNS AND JOB LOCATIONS (2011)



WALHALLA RESIDENTS' COMMUTE PATTERNS AND JOB LOCATIONS (2011)



WESTMINSTER RESIDENTS' COMMUTE PATTERNS AND JOB LOCATIONS (2011)



Commute Patterns (O&D Analysis)

- Findings:
 - Many Oconee County residents commute in direction of Anderson or Greenville
 - Fairly significant interaction between all four communities that were analyzed
 - More people than expected traveling between Walhalla and Westminster



Service Implementation Plan

- Purple Route: Seneca to Walhalla
- Green Route: Seneca to Westminster
- Gold Route: Walhalla to Westminster
- Re-charge at Medical Center



SENECA AREA EXISTING AND POTENTIAL NEW TRANSIT SERVICE LEGEND EXISTING SENECA ROUTES SENECA BUSINESS LOOP WALHALLA SENECA EXPRESS SENECA RESIDENTIAL LOOP POTENTIAL NEW SERVICE SENECA - WALHALLA SENECA - WESTMINSTER WALHALLA - WESTMINSTER POINTS OF INTEREST DIVIC EDUCATION LIBHARY LAKE KEOWEE MEDICAL. SHOPPING SENECA WESTMINSTER

- Assumptions
 - Operating 12 hours/day for 255 weekdays/year
 - Low ridership assumes 10 passengers per revenue hour; Moderate ridership assumes 20 pax/rev hour; High ridership assumes 30 pax/rev hour
 - Note: Seneca service has ~ 35 pax/rev hour based on 28,000 passengers per month / 792 revenue hours per month (36 hours per day x 22 weekdays per month)
 - O&M costs based on \$65.32 operating cost per revenue hour based on City of Seneca data

Purple Route - Seneca to Walhalla

Annual Service Statistics	60 Minute Frequency	120 Minute Frequency	
Peak Vehicles	1	0.5	
Fleet Vehicles	2	1	
Vehicle Revenue Hours	3,060	1,530	
Vehicle Revenue Miles	67,300	33,700	
Estimated Low Ridership 1	30,600	15,300	
Estimated Moderate Ridership	61,200	30,600	
Estimated High Ridership	91,800	45,900	
Annual O&M Cost 2	\$199,879	\$99,940	
Estimated Cost per Revenue Hour	\$65.32	\$65.32	



Green Route - Seneca to Westminster

Annual Service Statistics	60 Minute Frequency	120 Minute Frequency	
Peak Vehicles	1	0.5	
Fleet Vehicles	2	1	
Annual Vehicle Revenue Hours	3,060	1,530	
Annual Vehicle Revenue Miles	58,100	29,100	
Estimated Low Ridership 1	30,600	15,300	
Estimated Moderate Ridership	61,200	30,600	
Estimated High Ridership	91,800	45,900	
Annual O&M Cost 2	\$199,879	\$99,940	
Estimated Cost per Revenue Hour	\$65.32	\$65.32	



Gold Route - Walhalla to Westminster

Annual Service Statistics	30 Minute Frequency		
Peak Vehicles	1		
Fleet Vehicles	2		
Annual Vehicle Revenue Hours	3,060		
Annual Vehicle Revenue Miles	91,800		
Estimated Low Ridership 1	30,600		
Estimated Moderate Ridership	61,200		
Estimated High Ridership	91,800		
Annual O&M Cost 2	\$199,879		
Estimated Cost per Revenue Hour	\$65.32		



O&M and Capital Cost Estimates Summary

Annual Service Statistics	Purple and Green Routes		Purple Route Only	Gold Route Only
	60 Minute Frequency	120 Minute Frequency	60 Minute Frequency	30 Minute Frequency
Peak Vehicles	2	1	1	1
Fleet Vehicles	4	2	2	2
Annual Vehicle Revenue Hours	6,120	3,060	3,060	3,060
Annual Vehicle Revenue Miles	125,400	62,800	67,300	91,800
Estimated Low Ridership 1	61,200	30,600	30,600	30,600
Estimated Moderate Ridership	122,400	61,200	61,200	61,200
Estimated High Ridership	183,600	91,800	91,800	91,800
O&M Cost 2	\$399,758	\$199,879	\$199,879	\$199,879
Estimated Cost per Revenue Hour	\$65.32	\$65.32	\$65.32	\$65.32



- Capital Requirements
 - One to three buses
 - Nine to eleven shelters
- Capital Cost Estimates
 - Dependent on type of bus, shelters and signage



Financial Plan

- Finalizing operating and maintenance cost element
- Determining the capital cost estimate
- Reviewing potential funding sources



Discussion





Next Steps

- Summarize and consider TATFC comments
- Refine conceptual transit service alternatives and phases
- Finalize Financial Plan
- Prepare final Implementation Plan

