

NCDOT Transit Asset Management Plan

Johanna Cockburn, Accountable Executive

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Introduction

The North Carolina Department of Transportation (NCDOT) has prepared the following Group TAM plan on behalf of all eligible transit agencies in the state. This plan reflects the data submitted by participating transit agencies serving all counties in the state of North Carolina. Transit agencies may serve multiple counties and some agencies may serve a portion of a county, often in a collaborative effort with another agency(s).

Performance Targets & Measures

Asset Category - Performance Measure	Asset Class	2020 Target
REVENUE VEHICLES		
Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	AB - Articulated Bus	N/A
	AO - Automobile	20%
	BR - Over-the-road Bus	N/A
	BU - Bus	20%
	CU - Cutaway Bus	20%
	DB - Double Decked Bus	N/A
	FB - Ferryboat	N/A
	MB - Mini-bus	20%
	MV - Mini-van	20%
	RT - Rubber-tire Vintage Trolley	N/A
	SB - School Bus	N/A
	SV - Sport Utility Vehicle	N/A
	TB - Trolleybus	N/A
	VN - Van	20%
Custom 1	N/A	
Custom 2	N/A	
Custom 3	N/A	
EQUIPMENT		
Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	Non Revenue/Service Automobile	20%
	Steel Wheel Vehicles	N/A
	Vehicle Technology	20%
	Maintenance Equipment	20%
	Computer Software	20%
	Office Equipment	20%
FACILITIES		
Condition - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	Administration	20%
	Maintenance	20%
	Parking Structures	20%
	Passenger Facilities	20%
	Shelter	20%
	Storage	20%
	Custom 3	N/A

Capital Asset Inventory

Please see Appendix A (Asset Register) for the asset inventory listing.

Asset Inventory Summary

Asset Category	Total Number	Avg Age	Avg Mileage	Avg Value
Revenue Vehicles	1703	5.0	97,604	\$77,197.09
<i>AB - Articulated Bus</i>	0	-	-	-
<i>AO - Automobile</i>	6	15.3	177,015	\$21,835.00
<i>BR - Over-the-road Bus</i>	0	-	-	-
<i>BU - Bus</i>	81	8.4	228,634	\$394,074.26
<i>CU - Cutaway Bus</i>	795	4.3	90,862	\$67,199.29
<i>DB - Double Decked Bus</i>	0	-	-	-
<i>FB - Ferryboat</i>	0	-	-	-
<i>MB - Mini-bus</i>	29	7.1	107,302	\$72,674.90
<i>MV - Mini-van</i>	127	5.3	83,713	\$31,970.28
<i>RT - Rubber-tire Vintage Trolley</i>	0	-	-	-
<i>SB - School Bus</i>	0	-	-	-
<i>SV - Sport Utility Vehicle</i>	0	-	-	-
<i>TB - Trolleybus</i>	0	-	-	-
<i>VN - Van</i>	665	5.1	91,217	\$59,886.31
<i>Custom 1</i>	0	-	-	-
<i>Custom 2</i>	0	-	-	-
<i>Custom 3</i>	0	-	-	-
Equipment	73	8.7	60,990	\$46,651.64
<i>Non Revenue/Service Automobile</i>	53	9.3	60,990	\$28,446.82
<i>Steel Wheel Vehicles</i>	0	-	-	-
<i>Vehicle Technology</i>	11	7.5	N/A	\$101,897.45
<i>Maintenance Equipment</i>	5	8.0	N/A	\$85,327.50
<i>Computer Software</i>	1	2.0	N/A	\$93,770.00
<i>Office Equipment</i>	3	6.0	N/A	\$85,536.33
Facilities	139	16.7	N/A	\$958,342.63
<i>Administration</i>	91	18.7	N/A	\$929,972.41
<i>Maintenance</i>	22	21.1	N/A	\$1,590,118.08
<i>Parking Structures</i>	5	6.4	N/A	\$181,924.40
<i>Passenger Facilities</i>	9	9.1	N/A	\$1,390,779.56
<i>Shelter</i>	9	2.4	N/A	\$5,768.33
<i>Storage</i>	3	8.7	N/A	\$40,328.67
<i>Custom 3</i>	0	-	N/A	-

Condition Assessment

Please see Appendix B (Asset Condition Data) for individual asset condition listing.

Asset Condition Summary

Asset Category	Total Number	Avg Age	Avg Mileage	Avg TERM Condition	Avg Value	% At or Past ULB
Revenue Vehicles	1703	5.0	97,604	N/A	\$77,197.09	16%
<i>AB - Articulated Bus</i>	0	-	-	N/A	-	-
<i>AO - Automobile</i>	6	15.3	177,015	N/A	\$21,835.00	100%
<i>BR - Over-the-road Bus</i>	0	-	-	N/A	-	-
<i>BU - Bus</i>	81	8.4	228,634	N/A	\$394,074.26	21%
<i>CU - Cutaway Bus</i>	795	4.3	90,862	N/A	\$67,199.29	5%
<i>DB - Double Decked Bus</i>	0	-	-	N/A	-	-
<i>FB - Ferryboat</i>	0	-	-	N/A	-	-
<i>MB - Mini-bus</i>	29	7.1	107,302	N/A	\$72,674.90	3%
<i>MV - Mini-van</i>	127	5.3	83,713	N/A	\$31,970.28	22%
<i>RT - Rubber-tire Vintage Trolley</i>	0	-	-	N/A	-	-
<i>SB - School Bus</i>	0	-	-	N/A	-	-
<i>SV - Sport Utility Vehicle</i>	0	-	-	N/A	-	-
<i>TB - Trolleybus</i>	0	-	-	N/A	-	-
<i>VN - Van</i>	665	5.1	91,217	N/A	\$59,886.31	27%
<i>Custom 1</i>	0	-	-	N/A	-	-
<i>Custom 2</i>	0	-	-	N/A	-	-
<i>Custom 3</i>	0	-	-	N/A	-	-
Equipment	73	8.7	60,990	N/A	\$46,651.64	45%
<i>Non Revenue/Service Automobile</i>	53	9.3	60,990	N/A	\$28,446.82	55%
<i>Steel Wheel Vehicles</i>	0	-	-	N/A	-	-
<i>Vehicle Technology</i>	11	7.5	N/A	N/A	\$101,897.45	36%
<i>Maintenance Equipment</i>	5	8.0	N/A	N/A	\$85,327.50	0%
<i>Computer Software</i>	1	2.0	N/A	N/A	\$93,770.00	0%
<i>Office Equipment</i>	3	6.0	N/A	N/A	\$85,536.33	0%
Facilities	139	16.7	N/A	3.8	\$958,342.63	N/A
<i>Administration</i>	91	18.7	N/A	3.8	\$929,972.41	N/A
<i>Maintenance</i>	22	21.1	N/A	3.6	\$1,590,118.08	N/A
<i>Parking Structures</i>	5	6.4	N/A	3.8	\$181,924.40	N/A
<i>Passenger Facilities</i>	9	9.1	N/A	3.9	\$1,390,779.56	N/A
<i>Shelter</i>	9	2.4	N/A	4.8	\$5,768.33	N/A
<i>Storage</i>	3	8.7	N/A	4.3	\$40,328.67	N/A
<i>Custom 3</i>	0	-	N/A	-	-	N/A

Decision Support

Investment Prioritization

Vehicle investment prioritization is administered using the Vehicle Replacement Schedule. This plan shows each agency's NCDOT funded vehicles and calculates based on the spare ratio, the number of vehicles that agency is eligible to replace each year. The tool also calculates the number of vehicles that an MPO will be responsible for funding in the upcoming fiscal year. The Capital Replacement Plan is then created based on each system's vehicle replacement schedule and every vehicle for every system is given a projected replacement year.

Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
STI	Used for Facility Prioritization
Vehicle Replacement Schedule	Used to project vehicle replacement and useful life based on the spare ratio of the agency.
NCDOT_Vehicle_Inventory	Database of NCDOT titled vehicles used to track replacement eligibility and vehicles pending replacement
TERM Scale Condition Worksheet	Worksheet created as an appendix to the TAM Inventory used to assess the TERM Scale Condition of all facilities used in the provision of transit within the NCDOT Group TAM Plan.
TAM Inventory	Excel-based inventory tool used to collect all of the asset data necessary to complete this template including some information that was not necessary in that process.
EAM Asset Management Software (AssetWorks)	Web-based asset maintenance software used to track vehicle mileages and preventative maintenance services. Data from this software was used to populate the vehicle mileages in the TAM Inventory and the TAM Template.

Investment Prioritization

The list of prioritized investment projects is provided in Appendix C.

Appendices

Appendix A	Asset Register
Appendix B1	Revenue Vehicle (Rolling Stock) Condition Data
Appendix B2	Equipment Condition Data
Appendix B3	Facilities Condition Data
Appendix C	Proposed Investment Project List
Appendix D	Fleet Replacement Module Output

Group Plan Contributors:

Agency Name	Accountable Executive
Alamance County Transportation Authority	Ralph E. Gilliam
Albemarle Regional Health Services	Herb Mullen
Alleghany County	Tiffany P. Boyer
Anson County	Scott Rowell
AppalCART	Craig Hughes
Ashe County Transportation Authority, Inc.	Sue Thompson
Avery County Transportation Authority	Debbie Smith
Beaufort County Developmental Center Inc.	Elena Cameron
Bladen County	Kent Porter
Brunswick Transit System, Inc.	Yvonne Hatcher
Buncombe County	Matthew Cable
BURLINGTON	Mike Nunn
Cabarrus County	Robert Wayne Bushey
Carteret County	Randy Cantor
Craven County	Kelly Walker
CARY	Kelly A. Blazey, Transit Administrator
Caswell County	Melissa Williamson
Chatham Transit Network	Anna Testerman
Choanoke Public Transportation Authority	Pamela Perry
Cherokee County	Mike Catuto
City of Rocky Mount	Todd Gardner
Clay County	Marie Gunther
Transportation Administration of Cleveland County	Stephanie Ivie
Columbus County	Joy Jacobs
CONCORD/KANNAPOLIS	L.J. Weslowski
Cumberland County	Ifetayo Farrakhan
Dare County	Don Cabana
Davidson County	Richard M. Jones, Jr.
Duplin County	Rosemarie Oates
Durham County	Linda Thomas
Gaston County	Cheree Wilson
GASTONIA	Vincent Wong
Gates County	Patrice Taylor-Lassiter
Graham County	Juanita Colvard
Greene County	Misty L. Chase
GREENVILLE	Lamont Jackson
Guilford County	Irma Zimmerman
Goldsboro-Wayne Transportation Authority	Don Willis
Harnett County	Larry T. Smith
Hoke County	Nancy Thornton
Hyde County Non-Profit Private Transportation Corp	Beverly Paul
Iredell County	Bradley Johnson
Jackson County	Norma L. Taylor
JACKSONVILLE	Anthony Prinz

Johnston County Council on Aging, Inc.	Neal Davis
Kerr Area Transportation Authority	Rob Brink
Lee County	Deborah P Davidson
Lenoir County	Angela M. Greene
Lincoln County	Kristal Ford
Macon County	Kim Angel
Madison County Transportation Authority	Dee Heinmuller
Martin County	Letecia Loadholt
McDowell County Transportation Planning Bd Inc.	Randall Conley Jr
Mecklenburg County	Masie Jone
Mitchell County Transportation Authority	Sheila Blalock
Moore County	Sue McCormack
Mountain Projects Inc.	Chuck Norris
Onslow United Transit System, Inc.	Carol Hurst Long
Orange County	Theo Letman
Pender Adult Services Inc.	Wesley B. Davis, Executive Director
Person County	Kathy Adcock
Pitt County/Pitt Area Transit System	C. Cameron Coburn
Polk County Transportation Authority	D. Marche Pittman
Randolph County Senior Adults Assoc. Inc.	Tawanna M. Williams
Richmond Interagency Transportation, Inc.	James Neel Peacock
Robeson County	SHARON ROBINSON
Rockingham County Council on Aging Inc.	Meggan Roberts Odell
Rowan County	Franklin Barnes
Rutherford County	Kerry Giles
SALISBURY	Rodney L Harrison
Sampson County	Lorie Sutton
Scotland County	Nancy Pittman
Stanly County	Candice Moffitt
Swain County Focal Point on Aging Inc.	Marlene Vinson
Transylvania County	April Alm
Union County	Joy Mungo
Wake County	Anita Davis-Haywood
Washington County	Lynn R. Swett
Western Carolina Community Action Inc.	Bill Crisp
Wilkes Transportation Authority	Robin Kipp
Wilson City	Gronna Jones
Wilson County	Marvin Sharpe
WPRTA	Camile Sterling
Yancey County Transportation Authority	Lynn Austin
Yadkin Valley Economic Development District Inc.	Jeff Cockerham

Group Plan Agencies Opting Out:

Agency Name	Respondent
Asheville (ART)	Kimille N. Miller
Greensboro	Gray Johnston
High Point	Angela Wynes
GoRaleigh	Cyrstal Odum
WAVE Transit	Megan Matheny
Fayetteville	Tyffany L. Neal
Durham City	Pierre Osei-Owusu
Chapel Hill Transit	In-eligible (>100 vehicles)
Charlotte	In-eligible (>100 vehicles)
GoTriangle	In-eligible (>100 vehicles)
Piedmont Regional Transit Authority	In-eligible (>100 vehicles)
Winston-Salem Transportation Authority	Tomeka Cockerham