

NCDOT Transit Asset Management Plan

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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	2025 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	20%
	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%
	EV - Electric Vehicle	20%
	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%
	Computer Software	20%
	Office Equipment	20%
	Maintenance Equipment	20%
	Vehicle Technology	20%
	Custom 1	N/A
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%
	Admin/Maintenance	20%

Target Setting Methodology

A performance target of 20% is set for all asset categories, meaning that 80% of the assets in each category meet or exceed the state of good repair performance measure. Twenty-percent was selected to account for delays in acquiring the local match, the grant cycle, procurement process, and asset delivery.

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	1795	6.3	117,691	\$510,087.84
AB - Articulated Bus	0	-	-	-
AO - Automobile	4	7.8	82,935	\$23,854.75
BR - Over-the-road Bus	0	-	-	-
BU - Bus	101	8.3	237,876	\$550,170.96
CU - Cutaway Bus	873	5.9	111,784	\$131,283.56
DB - Double Decked Bus	0	-	-	-
FB - Ferryboat	23	25.4	N/A	\$29,217,391.30
MB - Mini-bus	1	2.0	41,363	\$54,000.00
MV - Mini-van	130	7.2	86,107	\$59,502.10
RT - Rubber-tire Vintage Trolley	0	-	-	-
SB - School Bus	0	-	-	-
SV - Sport Utility Vehicle	0	-	-	-
TB - Trolleybus	0	-	-	-
VN - Van	658	5.6	114,342	\$99,390.89
EV - Electric Vehicle	5	5.0	26,318	\$29,194.00
Custom 2	0	-	-	-
Custom 3	0	-	-	-
Equipment	101	10.0	95,464	\$733,011.63
Non Revenue/Service Automobile	72	11.2	95,464	\$980,100.27
Computer Software	2	5.0	N/A	\$155,426.50
Office Equipment	7	6.7	N/A	\$112,262.29
Maintenance Equipment	4	11.8	N/A	\$144,921.75
Vehicle Technology	16	6.5	N/A	\$111,911.19
Custom 1	0	-	-	-
Facilities	255	18.1	N/A	\$1,243,112.65
Administration	104	20.3	N/A	\$1,406,179.24
Maintenance	44	26.7	N/A	\$1,720,263.05
Parking Structures	5	6.8	N/A	\$385,184.20
Passenger Facilities	29	8.3	N/A	\$2,522,344.86
Shelter	55	11.6	N/A	\$14,279.20
Storage	13	27.0	N/A	\$156,850.15
Admin/Maintenance	5	13.6	N/A	\$3,432,236.34

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	1795	5.3	117,691	N/A	\$510,087.84	12%
AB - Articulated Bus	0	-	-	N/A	-	-
AO - Automobile	4	6.8	82,935	N/A	\$23,854.75	25%
BR - Over-the-road Bus	0	-	-	N/A	-	-
BU - Bus	101	7.3	237,876	N/A	\$550,170.96	15%
CU - Cutaway Bus	873	4.9	111,784	N/A	\$131,283.56	5%
DB - Double Decked Bus	0	-	-	N/A	-	-
FB - Ferryboat	23	24.4	N/A	N/A	\$29,217,391.30	4%
MB - Mini-bus	1	1.0	41,363	N/A	\$54,000.00	0%
MV - Mini-van	130	6.2	86,107	N/A	\$59,502.10	33%
RT - Rubber-tire Vintage Trolley	0	-	-	N/A	-	-
SB - School Bus	0	-	-	N/A	-	-
SV - Sport Utility Vehicle	0	-	-	N/A	-	-
TB - Trolleybus	0	-	-	N/A	-	-
VN - Van	658	4.6	114,342	N/A	\$99,390.89	17%
EV - Electric Vehicle	5	4.0	26,318	N/A	\$29,194.00	0%
Custom 2	0	-	-	N/A	-	-
Custom 3	0	-	-	N/A	-	-
Equipment	101	9.0	82,205	N/A	\$733,011.63	48%
Non Revenue/Service Automobile	72	10.2	82,205	N/A	\$980,100.27	60%
Computer Software	2	4.0	N/A	N/A	\$155,426.50	0%
Office Equipment	7	5.7	N/A	N/A	\$112,262.29	14%
Maintenance Equipment	4	10.8	N/A	N/A	\$144,921.75	50%
Vehicle Technology	16	5.5	N/A	N/A	\$111,911.19	13%
Custom 1	0	-	-	N/A	-	-
Facilities	255	17.1	N/A	3.7	\$1,243,112.65	N/A
Administration	104	19.3	N/A	3.7	\$1,406,179.24	N/A
Maintenance	44	25.7	N/A	3.5	\$1,720,263.05	N/A
Parking Structures	5	5.8	N/A	4.4	\$385,184.20	N/A
Passenger Facilities	29	7.3	N/A	4.0	\$2,522,344.86	N/A
Shelter	55	10.6	N/A	3.7	\$14,279.20	N/A
Storage	13	26.0	N/A	2.9	\$156,850.15	N/A
Admin/Maintenance	5	12.6	N/A	4.0	\$3,432,236.34	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](#)

[Appendix B1](#)

[Appendix B2](#)

[Appendix B3](#)

[Appendix C](#)

Asset Register

Revenue Vehicle (Rolling Stock) Condition Data

Equipment Condition Data

Facilities Condition Data

Proposed Investment Project List

Group Plan Contributors:

Agency Name	Accountable Executive
Alamance County Transportation Authority	Peter Murphy
Albemarle Regional Health Services	Herb Mullen
Alleghany County	Tiffany Boyer
Anson County	Tanya B Byrd
APEX	Katie Schwing
AppalCART	Craig Hughes
Ashe County Transportation Authority, Inc.	Amanda Roten
Avery County Transportation Authority	Deborah Smith
Beaufort County Developmental Center Inc.	Elena G. Cameron
Bladen County	Miranda Faircloth
Brunswick Transit System, Inc.	Yvonne Hatcher
Buncombe County	Nathan L. Pennington
BURLINGTON	John Andoh
Cabarrus County	Kelly Strong
Carteret County	Patrick Flanagan
CARY	Kelly A. Blazey, Transit Director
Caswell County	Melissa Williamson
Chatham Transit Network	Anna Testerman
Cherokee County	Jennifer West
Choanoke Public Transportation Authority	Pamela Perry
ROCKY MOUNT	Todd Gardner
Clay County	Marie Gunther
Columbus County	Joy Jacobs
CONCORD/KANNAPOLIS	L.J. Weslowski
Craven County	Kelly Walker
Cumberland County	Lashonda Cherry-Crawford
Dare County	Radcliff Hester
Davidson County	Richard M. Jones, Jr.
Duplin County	Angel Venecia
Gaston County	Twanna Littlejohn
GASTONIA	Cindy Forrester
Gates County	Patrice Taylor-Lassiter
Goldsboro-Wayne Transportation Authority	Don Willis
Graham County	Juanita Colvard
Greene County	Kim Howell
GREENVILLE	Kevin Mulligan
Guilford County	Irma Zimmerman
Harnett County	Chance Torain
HENDERSON COUNTY	Janna Bianculli
Hoke County	Teela Wilkerson
Hyde/Tyrrell	Beverly Mason
Iredell County	Bradley Johnson
Jackson County	April L. Alm

JACKSONVILLE	Jillian Tuccero
Johnston County Council on Aging, Inc.	Josh Jensen
Kerr Area Transportation Authority	Randy Cantor
Lee County	Melanie Rodgers
Lenoir County	Angela Greene
Lincoln County	Kristal Ford
Macon County	Darlene Asher
Madison County Transportation Authority	Daniel Metcalf
Martin County	Angela Ellis
McDowell County Transportation Planning Bd Inc.	Jason Hollifield
Mecklenburg County	Masie Jones
Mitchell County Transportation Authority	Sheila Blalock
Moore County	Sonia J. Biggs
MORRISVILLE	Caleb Allred
Mountain Projects Inc.	Christie Morrow
NCDOT Ferry	Catherine Peele
Ocracoke Tram	Hannah Elkins
Onslow United Transit System, Inc.	Danny L Ferucci
Orange County	Nishith Trivedi
Pender Adult Services Inc.	Tricell Y. Merritt
Person County	Mitch Fleig
Pitt County/Pitt Area Transit System	Misty Chase
Polk County Transportation Authority	Joshua Kennedy
Randolph County Senior Adults Assoc. Inc.	Tawanna M. Williams
Richmond Interagency Transportation, Inc.	Aaron McLean
Robeson County	SHARON ROBINSON
Rockingham County Council on Aging Inc.	Meggan Odll
Rowan County	Valerie S. Steele
Rutherford County	Kerry Giles
SALISBURY	Rodney L. Harrison
Sampson County	Rosemarie Oates
Scotland County	Kimberly McRae
Stanly County	Steven Dutton
Swain County Focal Point on Aging Inc.	Branton Loftis
Transportation Administration of Cleveland County	Stephanie Costner
Transylvania County	Jeff Adams
Union County	Theresa Torres
Wake County	Anita Davis
Washington County	Lynn Swett
WNCSource Community Services	Tim Camp
Wilkes Transportation Authority	Michael Johnson
Wilson City	Gronna Jones
Wilson County	Lesley R. Barnes
WPRTA	Michael Bowman
Yadkin Valley Economic Development District Inc.	Jeff Cockerham
Yancey County Transportation Authority	Michael Harris

Eligible Group TAM Plan Agencies Opting Out

If you are a Group TAM Plan Sponsor, please list your agencies opting out of the plan below:

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