NCDOT Transit Asset Management Plan

Ryan Brumfield, 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	2023 Target
REVENUE VEHICLES		
	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
Age - % of revenue vehicles	FB - Ferryboat	20%
within a particular asset class	MB - Mini-bus	20%
that have met or exceeded	MV - Mini-van	20%
their Useful Life Benchmark	RT - Rubber-tire Vintage Trolley	N/A
(ULB)	SB - School Bus	20%
	SV - Sport Utility Vehicle	20%
	TB - Trolleybus	N/A
	VN - Van	20%
	EV - Electric Vehicle	20%
	Custom 2	N/A
	Custom 3	N/A
EQUIPMENT		
	Non Revenue/Service Automobile	20%
0 0/ -f hi-l +h+ h	Computer Software	20%
Age - % of vehicles that have	Office Equipment	20%
met or exceeded their Useful	Maintenance Equipment	N/A
Life Benchmark (ULB)	Vehicle Technology	20%
	Custom 1	N/A
FACILITIES		
	Administration	20%
Condition - % of facilities with	Maintenance	20%
a condition rating below 3.0	Parking Structures	20%
on the FTA Transit Economic	Passenger Facilities	20%
Requirements Model (TERM)	Shelter	20%
Scale	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 InventoryPlease see Appendix A (Asset Register) for the asset inventory listing.

Asset Inventory Summary

Asset Category	Total Number	Avg Age	Avg Mileage	Avg Value
RevenueVehicles	1758	5.6	108,587	\$477,592.52
AB - Articulated Bus	0	-	-	-
AO - Automobile	3	5.0	108,360	\$21,391.33
BR - Over-the-road Bus	0	-	-	-
BU - Bus	83	9.1	294,412	\$606,241.20
CU - Cutaway Bus	897	4.9	98,662	\$66,107.07
DB - Double Decked Bus	0	-	-	-
FB - Ferryboat	33	21.0	#DIV/0!	\$20,947,080.33
MB - Mini-bus	3	6.0	68,571	\$63,500.00
MV - Mini-van	133	6.1	70,350	\$26,793.61
RT - Rubber-tire Vintage Trolley	0	-	-	-
SB - School Bus	1	26.0	72,702	\$500,000.00
SV - Sport Utility Vehicle	1	6.0	208,935	\$2,500.00
TB - Trolleybus	0	-	-	-
VN - Van	599	5.2	107,162	\$57,214.09
EV - Electric Vehicle	5	3.0	3,355	\$29,194.00
Custom 2	0	-	-	-
Custom 3	0	-	-	-
Equipment	51	9.3	107,664	\$37,530.89
Non Revenue/Service Automobile	39	10.7	107,664	\$26,869.94
Computer Software	1	6.0	N/A	\$93,770.00
Office Equipment	2	8.0	N/A	\$89,867.50
Maintenance Equipment	0	-	-	-
Vehicle Technology	9	3.8	N/A	\$65,849.22
Custom 1	0	-	-	-
Facilities	233	18.6	N/A	\$1,088,008.38
Administration	104	20.9	N/A	\$910,538.24
Maintenance	43	24.8	N/A	\$1,462,910.32
Parking Structures	3	4.3	N/A	\$550,640.33
Passenger Facilities	17	9.7	N/A	\$4,241,928.47
Shelter	49	10.5	N/A	\$7,916.96
Storage	12	26.8	N/A	\$90,634.75
Admin/Maintenance	5	15.8	N/A	\$4,132,915.80

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
RevenueVehicles	1758	4.6	108,587	N/A	\$477,592.52	8%
AB - Articulated Bus	0	-	-	N/A	-	-
AO - Automobile	3	4.0	108,360	N/A	\$21,391.33	0%
BR - Over-the-road Bus	0	-	-	N/A	-	-
BU - Bus	83	8.1	294,412	N/A	\$606,241.20	17%
CU - Cutaway Bus	897	3.9	98,662	N/A	\$66,107.07	3%
DB - Double Decked Bus	0	-	-	N/A	-	-
FB - Ferryboat	33	20.0	#DIV/0!	N/A	\$20,947,080.33	70%
MB - Mini-bus	3	5.0	68,571	N/A	\$63,500.00	0%
MV - Mini-van	133	5.1	70,350	N/A	\$26,793.61	18%
RT - Rubber-tire Vintage Trolley	0	-	-	N/A	-	-
SB - School Bus	1	25.0	72,702	N/A	\$500,000.00	100%
SV - Sport Utility Vehicle	1	5.0	208,935	N/A	\$2,500.00	0%
TB - Trolleybus	0	-	-	N/A	-	-
VN - Van	599	4.2	107,162	N/A	\$57,214.09	9%
EV - Electric Vehicle	5	2.0	3,355	N/A	\$29,194.00	0%
Custom 2	0	-	-	N/A	-	-
Custom 3	0	-	-	N/A	-	-
Equipment	51	8.3	107,664	N/A	\$37,530.89	45%
Non Revenue/Service Automobile	39	9.7	107,664	N/A	\$26,869.94	56%
Computer Software	1	5.0	N/A	N/A	\$93,770.00	0%
Office Equipment	2	7.0	N/A	N/A	\$89,867.50	50%
Maintenance Equipment	0	-	-	N/A	-	-
Vehicle Technology	9	2.8	N/A	N/A	\$65,849.22	0%
Custom 1	0	-	-	N/A	-	-
Facilities	233	17.6	N/A	3.9	\$1,088,008.38	N/A
Administration	104	19.9	N/A	3.9	\$910,538.24	N/A
Maintenance	43	23.8	N/A	3.7	\$1,462,910.32	N/A
Parking Structures	3	3.3	N/A	5.0	\$550,640.33	N/A
Passenger Facilities	17	8.7	N/A	4.1	\$4,241,928.47	N/A
Shelter	49	9.5	N/A	4.2	\$7,916.96	N/A
Storage	12	25.8	N/A	3.9	\$90,634.75	N/A
Admin/Maintenance	5	14.8	N/A	3.8	\$4,132,915.80	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

Group Plan Contributors:

Group Flan 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
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	Amanda Wilkins
Brunswick Transit System, Inc.	Yvonne Hatcher
Buncombe County	Nathan L. Pennington
BURLINGTON	John Andoh
Cabarrus County	Robert Bushey
Carteret County	Randy Cantor
CARY	Kelly A. Blazey, Transit Administrator
Caswell County	Melissa Williamson
Chatham Transit Network	Anna Testerman
Cherokee County	Jennifer West
Choanoke Public Transportation Authority	Pamela Perry
City of Rocky Mount	Todd Gardner
Clay County	Marie Gunther
Columbus County	Joy Jacobs
CONCORD/KANNAPOLIS	L.J. Weslowski
Craven County	Kelly Walker
Cumberland County	Ifetayo Farrakhan
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	Don Willis
Graham County	Juanita Colvard
Greene County	Misty Chase
GREENVILLE	Kevin Mulligan
Guilford County	Irma Zimmerman
,	
Harnett County HENDERSON COUNTY	Barry Blevins Janna Bianculli
Hoke County	Nancy Thornton
Hyde County Non-Profit Private Transportation Corp	Beverly Mason
Iredell County	Bradley Johnson
Jackson County	April L. Alm
JACKSONVILLE	Anthony Prinz

Johnston County Council on Aging, Inc.	Neal Davis
Kerr Area Transportation Authority	Irene Johnson
Lee County	Debbie Davidson
Lenoir County	Angela Greene
Lincoln County	Kristal Ford
Macon County	
·	Kim Angel
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
Mountain Projects Inc.	Si Simmons
NCDOT Ferry	Catherine Peele
Ocracoke Tram	Sara Brown Teaster
Onslow United Transit System, Inc.	Carol H Long
Orange County	Nishith Trivedi
Pender Adult Services Inc.	James R. Longenbach
Person County	Mitch Fleig
Pitt County/Pitt Area Transit System	Charles Cameron Coburn
Polk County Transportation Authority	Joshua Kennedy
Randolph County Senior Adults Assoc. Inc.	Tawanna M. Williams
Richmond Interagency Transportation, Inc.	Tommy Jarrell
Robeson County	SHARON ROBINSON
Rockingham County Council on Aging Inc.	Meggan Odel
Rowan County	Valerie S. Steele
Rutherford County	Kerry Giles
SALISBURY	Rodney L. Harrison
Sampson County	Rosemarie Oates
Scotland County	April Snead
Stanly County	Randy H. Shank
Swain County Focal Point on Aging Inc.	Marlene Vinson
Transportation Administration of Cleveland County	Stephanie Costner
Transylvania County	Allen S. McNeill
Union County	Theresa Torres
Wake County	Anita Davis
Washington County	Lynn Swett
Western Carolina Community Action Inc.	Jeff Roper
Wilkes Transportation Authority	Michael Johnson
Wilson City	Gronna Jones
Wilson County	Lesley R. Barnes
WPRTA	Kim Angel
Yadkin Valley Economic Development District Inc.	Jeff Cockerham
·	Michael Harris
Yancey County Transportation Authority	IVIICIIdei nairis

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	