



Alabama Department of Transportation

Group-Sponsored Transit Asset Management Plan



What is Transit Asset Management?

“Transit Asset Management (TAM) is a business model that uses the condition of assets to guide the optimal prioritization of funding at transit properties in order to keep our transit networks in a State of Good Repair (SGR).”

Benefits of TAM

- Improved transparency and accountability
- Optimized capital investment and maintenance decisions
- More data-driven maintenance decisions
- Potential safety benefits

(Source: FTA Transit Asset Management Workshop on September 14, 2016)

TAM Plan Requirements

FTA prescribes that a TAM Plan for small providers have four sections:

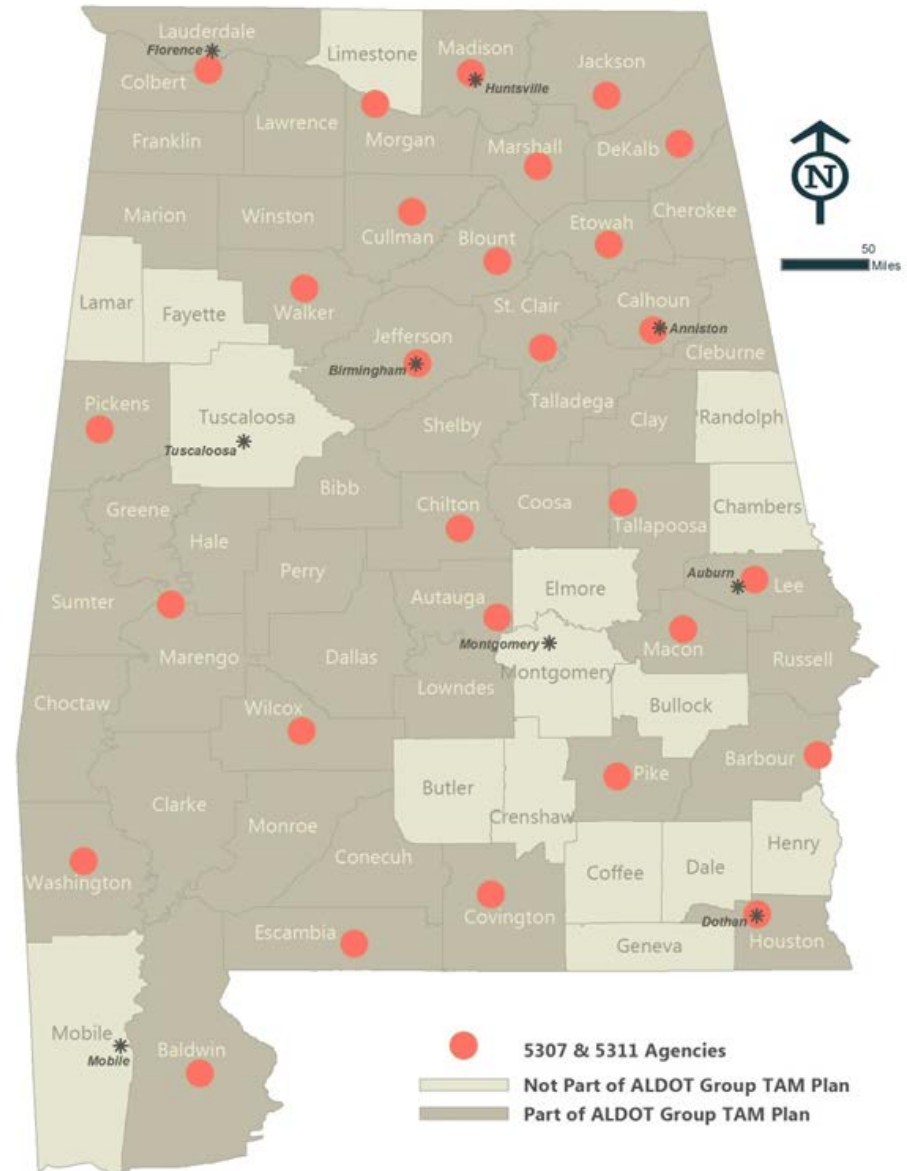
- Asset inventory
- Condition assessments of inventoried assets
- Decision support tools
- Prioritized list of investments to improve the SGR of capital assets



INTRODUCTION & BACKGROUND

ALDOT Tier II Subrecipients (FTA Sections 5307 & 5311)

- 28 Agencies are covered by the ALDOT Group TAM Plan
- Each agency has an Accountable Executive designated who is responsible for approving the group TAM Plan



INTRODUCTION & BACKGROUND

Transit Program Vision, Mission, & Goal

Vision

Public transit – connecting people and places through multiple-passenger, land or water- based means – will contribute to the State’s continued economic growth through a dedicated and sound investment approach into viable mobility options accessible to all Alabama residents and visitors.

Mission

To provide a safe, efficient, environmentally sound intermodal transportation system for all users

Goal

To enhance the quality of life for Alabama’s citizens by providing passenger transportation service, where desirable and feasible, and to facilitate greater access to goods and services

INTRODUCTION & BACKGROUND

ALDOT Performance Measures & Targets as of January 2017

Asset Category	Performance Measures	Performance Targets	Comments
Rolling Stock (all Revenue Vehicles)	Age: % of Revenue Vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark	Vans: Overall reduction of current inventory that exceeds ULB by 10%; Cutaway Buses: Overall reduction of current inventory that exceeds ULB by 10%; Body-on-Chassis Overall reduction of current inventory that exceeds ULB by 10%; Full Size Buses: Overall reduction of current inventory that exceeds ULB by 10%	ALDOT establishes minimum useful life standards and benchmarks to ensure that vehicles and other equipment are maintained for transit use for their normal service lives and to ensure that the vehicles and equipment purchased are necessary for public transit service.
Equipment	Age: % of vehicles that have met or exceeded their Useful Life Benchmark	Overall reduction of current inventory that exceeds ULB by 10%	Definition: Nonexpendable, tangible property having a useful life of at least one year that is purchased with FTA funds. Includes non-revenue vehicles and equipment valued over \$50,000
Facilities	Conditions: % of facilities with a condition rating below 3.0 on a FTA Transit Economic Requirements Model (TERM) Scale	No more than 20% of FTA funded facilities with a condition rating below 3.0 (Good)	Only FTA funded facilities



Adopted ALDOT Useful Life Benchmarks (ULBs)

Category	Years	Mileage
Vans (Standard, raised roof, modified)	4	100,000
Small Buses (Cut Away Type, 16-21 passengers)	5	150,000
Small Buses (Body-in-Chassis, 24-27 passengers)	7	200,000
Full Size (Transit Coaches, 28+ passengers)	10	300,000



ALDOT Section 5307 & 5311 Base-Year Performance Analysis

Vehicle Category	Total	Exceed ULB Age	Percentage of Fleet Exceeding ULB Age
Vans	269	214	80%
Small Cutaway Buses (16-21 passengers)	41	27	66%
Small Body-On-Chassis Buses (24-27 passengers)	123	36	29%
Full Size Buses (28+ passengers)	21	0	0%
Over 10 years old	55	55	100%
Overall Fleet Total	509	332	65%
Unknown	16		

Asset Categories

- Rolling Stock: Revenue Vehicles
- Equipment: Non-revenue Service Vehicles
- Facilities

FTA Capital Asset Inventory Tracking Recommendations

- Asset Category
- Asset Class
- Asset Name
- Make
- Model
- Count
- ID/Serial No.
- Asset Owner
- Acquisition Year
- Vehicle Mileage
- Replacement Cost/Value

ALDOT Asset Inventory Data Sources

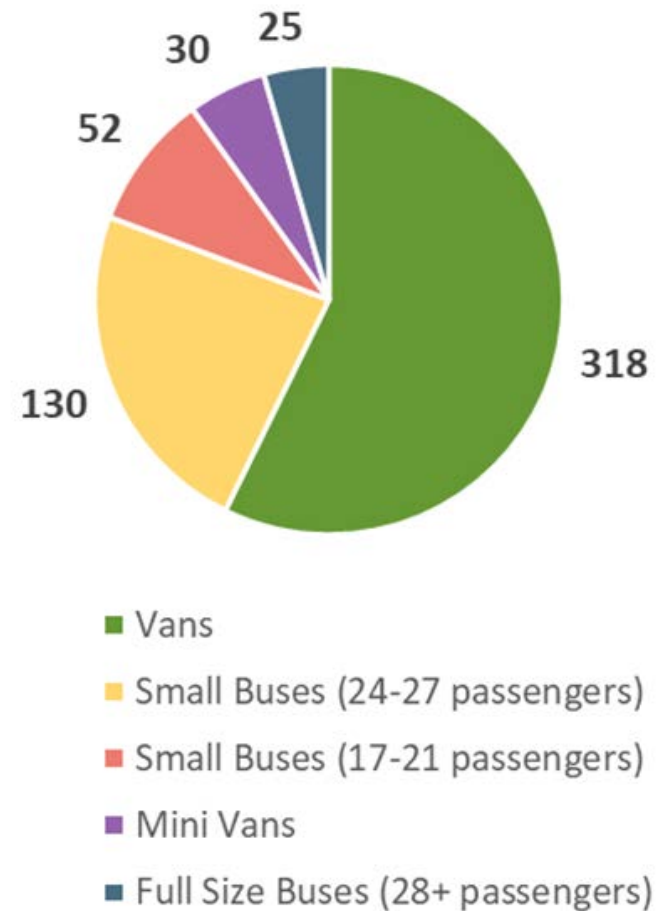
- 2016 Useful Life Analysis
- ALDOT Transit Reporting System: 2017 Vehicle Inventory Forms, 2017 Vehicle Profile Forms, & Section 5311 Quarterly Reports
- New Vehicle Purchases
- Vehicle Dispositions

ASSET INVENTORY

Rolling Stock: Revenue Vehicles

Fleet Composition

Vehicle Class	Number	Percentage
Mini Vans	30	5%
Vans	318	57%
Small Buses (17-21 passengers)	52	9%
Small Buses (24-27 passengers)	130	23%
Full Size (28+ passengers)	25	5%
Total	555	100%



Rolling Stock: Revenue Vehicles

Revenue Vehicles by Class, Mileage, and Age

Vehicle Class	Vehicles	Average Mileage	Average Annual Mileage	Average Age
Mini Vans and Vans	348	121,267	17,649	7
Small Buses 17-21 passengers	52	104,345	21,470	5.8
Small Buses 24-27 Passengers	130	82,036	21,290	4.9
Full Size Buses 28+ passengers	25	93,664	19,092	6.4
Total Fleet	555	109,249	18,925	6.4

ASSET INVENTORY

Equipment: Non-revenue Service Vehicles

ALDOT Section 5307 & 5311 Service Vehicle Inventory

Make & Model	Asset Owner	Model Year	Vehicle Mileage	Replacement Cost/Value*	ULB Mileage	ULB Age	Condition
International 4600	Alabama-Tombigbee Regional Commission	2010	23,623	\$86,000	100,000	4	Good
Ford F250	Covington County Commission	2003	86,810	\$15,099	100,000	5	Fair
Ford Edge	West AI Health Services, Inc.	2014	6,900	*	100,000	4	*
Ford Transit	West AI Health Services, Inc.	2013	7,600	*	100,000	4	*
Ford F150	NARCOG Regional Transit Agency	2011	28,342	\$45,000	100,000	4	*

*Information was not provided for these vehicles

ASSET INVENTORY

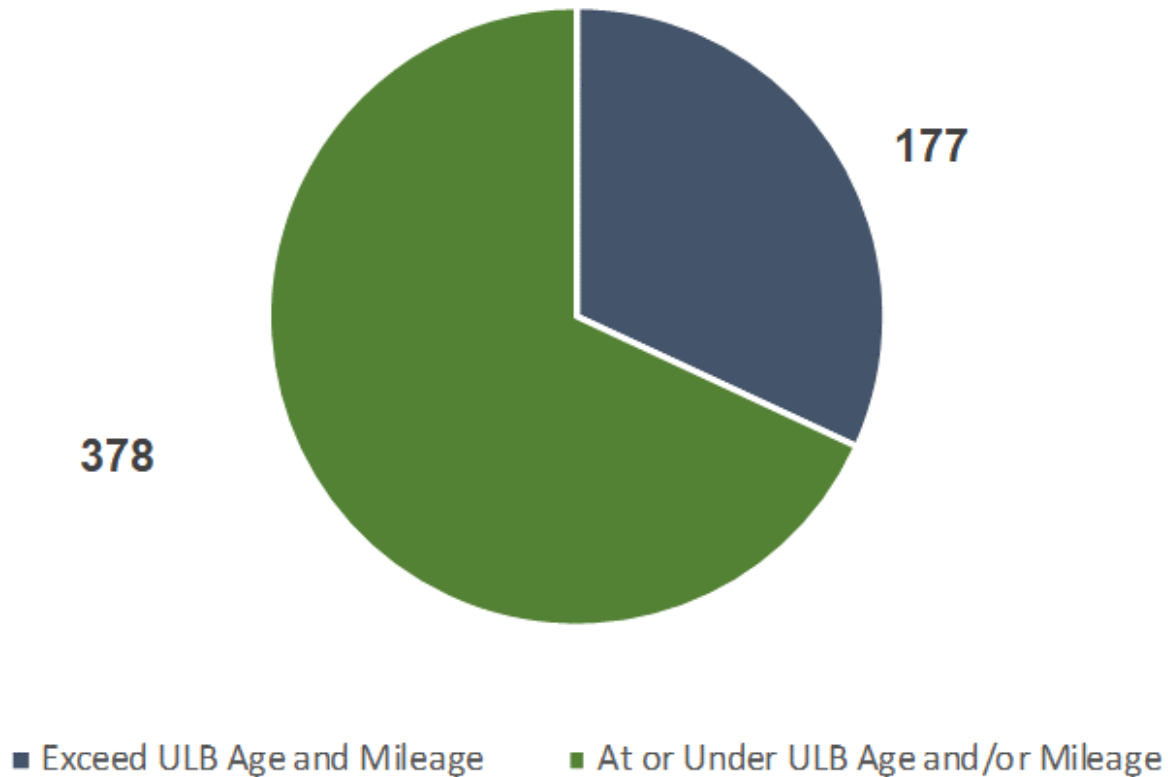
Facilities

ALDOT Section 5307 & 5311 Facilities Inventory

Asset Class	Asset Name	Asset Owner	Acquisition Year	Age (Yrs)	Replacement Cost/Value	Address	Square Footage
Building	Dixie Depot	Wiregrass Transit Authority	2008	111	\$1,041,000	201 Depot Street, Dothan, AL 36303	6000
Building	ATRC Transportation Building	Alabama Tombigbee Regional Commission	2010	8	\$260,100	108 Claibourne Street, Camden, AL 36784	2200
Building	Pike Area Transit System Office	Pike Area Transit System	2007	11	\$143,000	113 Segars Street, Troy, AL	28178
Building	Etowah County Rural Transportation Bus Facility	Etowah County Commission	2010	8	\$150,000	Etowah County Maintenance Department, 741 1St Street Avenue, Gadsden, AL 35901	1200
Building	Robertsdale BRATS Office	Baldwin County Rural Area Transportation System	2012	6	\$329,400	18100 County Road 54, Robertsdale, AL 36567	5070
Building	Robertsdale BRATS Maintenance Facility	Baldwin County Rural Area Transportation System	1994	24	\$334,365	18100 County Road 54, Robertsdale, AL 36567	2500
Building	Fairhope BRATS Transit Hub	Baldwin County Rural Area Transportation System	2013	5	\$353,702	918 Fairhope Avenue, Fairhope, AL 36532	748
Storage Yard	East Alabama Regional Planning and Development Commission Transit Parking Lot	East Alabama Regional Planning and Development Commission	2011	7	\$529,722	1130 Quintard Avenue Anniston, Alabama 36202	39900

Rolling Stock: Revenue Vehicles

**2017 Revenue Vehicles
ULB Age and Mileage**



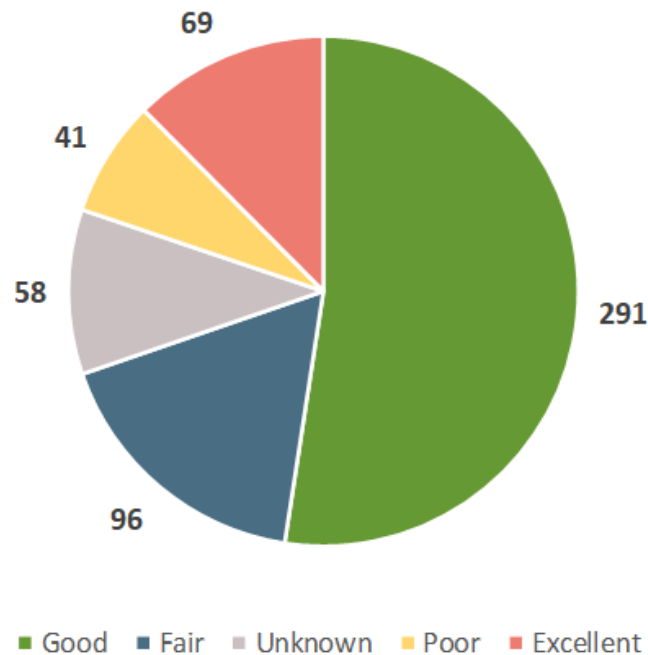
TERM Vehicle Condition Ranking

Condition	Rating Scale	Description
Excellent	4	Low mileage in relation to age and no visible mechanical flaw.
Good	3	Average mileage in relation to the age and only minor mechanical flaws.
Fair	2	High mileage and/or noticeable mechanical flaws.
Poor	1	High mileage and major mechanical flaws. Major repairs, such as engine or transmission overhaul, etc. are needed to keep the vehicle in service.

CONDITION ASSESSMENT

Condition Ranking by Vehicle Category

Condition	Number	Percent of Total	Percent of Total Known Condition (496)
Excellent	69	12%	14%
Good	291	52%	59%
Fair	96	17%	19%
Poor	41	7%	8%
Unknown	58	10%	N/A



CONDITION ASSESSMENT

2017 Performance Target Progress

Vehicle Type	Percentage of Fleet Exceeding ULB Age	2017 Performance Target	2017 Actual	Progress
Vans	80%	70%	72%	Did Not Meet
Small Buses (17-21 passengers)	66%	56%	62%	Did Not Meet
Small Buses (24-27 passengers)	29%	19%	23%	Did Not Meet
Full Size (28+ passengers)	0%	0%	16%	Did Not Meet
Over 10 Years Old				
Total	65%	55%	57%	Did Not Meet

CONDITION ASSESSMENT

Equipment: Non-revenue Service Vehicles

Make & Model	Asset Owner	Model Year	Vehicle Mileage	Replacement Cost/Value	ULB Mileage	ULB Age	Condition	Condition Status
International 4600	Alabama-Tombigbee Regional Commission	2010	23,623	\$86,000	100,000	4	Good	Exceeds For Age
Ford F250	Covington County Commission	2003	86,810	\$15,099	100,000	5	Fair	Exceeds For Age
Ford Edge	West AI Health Services, Inc.	2014	6,900		100,000	4		Meets For Age
Ford Transit	West AI Health Services, Inc.	2013	7,600		100,000	4		Meets For Age
Ford F150	NARCOG Regional Transit Agency	2011	28,342	\$45,000	100,000	4	Good	Exceeds For Age

While a performance measure was set for Non-revenue Service Vehicles, no target was established. The 2017 Non-revenue Service Vehicle Condition Analysis showed that 60% (3 out of 5 vehicles) exceeded their ULB for age.

CONDITION ASSESSMENT

Facilities

Transit Economic Requirements Model (TERM) Condition Rating Scale

Rank	Category	Description
5	New/Excellent	New asset; no visible defects
4	Good	Some slightly defective/deteriorated component(s)
3	Adequate	Some moderately defective/deteriorated component(s)
2	Marginal	Increasing number of defective/deteriorated component(s) & maintenance needs
1	Poor	In need of immediate repair or replacement; item is a safety hazard and may have critically damaged component(s)

CONDITION ASSESSMENT

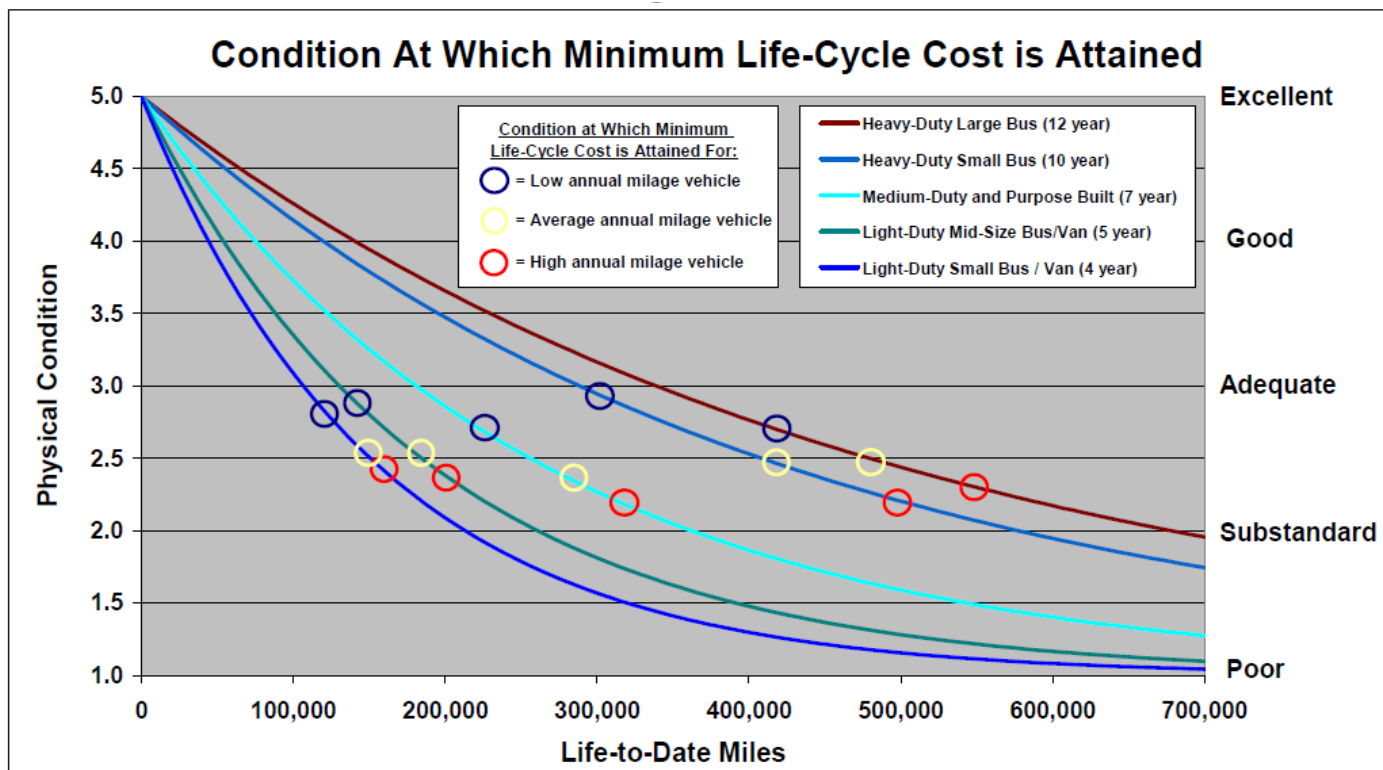
ALDOT Section 5307 & 5311 Facilities Condition Analysis

Asset Class	Asset Name	Asset Owner	Acquisition Year	Age (Yrs)	Replacement Cost/Value	Address	Square Footage	TERM Condition Rating
Building	Dixie Depot	Wiregrass Transit Authority	2008	111	\$1,041,000	201 Depot Street, Dothan, AL 36303	6000	4
Building	Transportation Building	Alabama Tombigbee Regional Commission	2010	8	\$260,100	108 Claibourne Street, Camden, AL 36784	2200	4
Building	Transit System Office	Pike Area Transit System	2007	11	\$143,000	113 Segars Street, Troy, AL	28178	4
Building	Rural Transportation Bus Facility	Etowah County Commission	2010	8	\$150,000	Etowah County Maintenance Department, 741 1st Street Avenue, Gadsden, AL 35901	1200	4
Building	Robertsdale BRATS Office	Baldwin County Rural Area Transportation System	2012	6	\$329,400	18100 County Road 54, Robertsdale, AL 36567	5070	5
Building	Robertsdale BRATS Maintenance Facility	Baldwin County Rural Area Transportation System	1994	24	\$334,365	18100 County Road 54, Robertsdale, AL 36567	2500	5
Building	Fairhope BRATS Transit Hub	Baldwin County Rural Area Transportation System	2013	5	\$353,702	918 Fairhope Avenue, Fairhope, AL 36532	748	5
Storage Yard	Transit Parking Lot	East Alabama Regional Planning and Development Commission	2011	7	\$529,722	1130 Quintard Avenue Anniston, Alabama 36202	39900	4

Decision Support Methodology National Benchmarks

Condition at Which Minimum Lifecycle Cost is Attained

(Source: FTA Useful Life of Transit Buses and Vans, April 2007, Report No. FTA Va-26-7229-07)

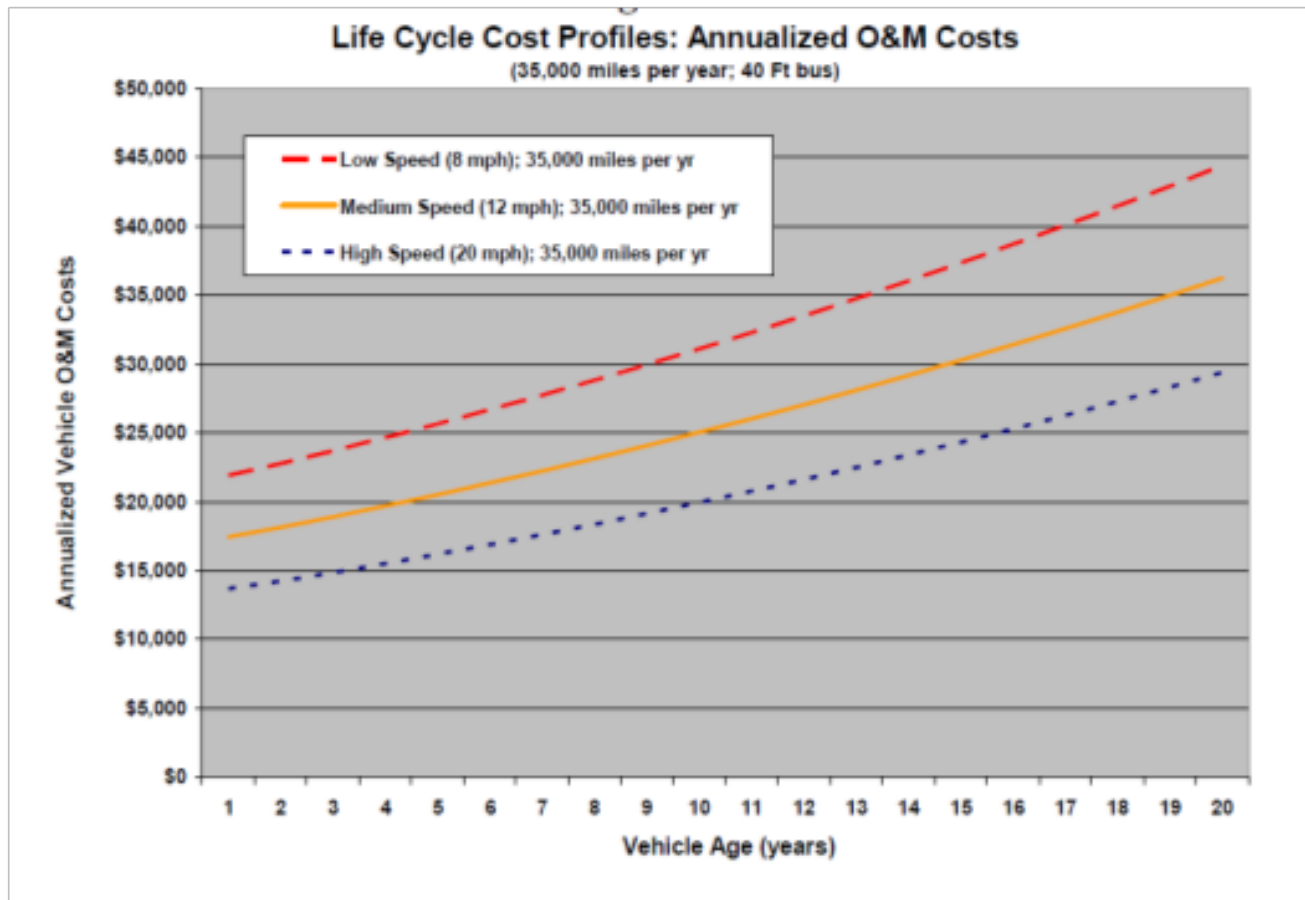


ASSET REPLACEMENT & DECISION SUPPORT ANALYSIS

Decision Support Methodology National Benchmarks

Lifecycle Cost Profiles: Annualized O&M Costs

(Source: FTA Useful Life of Transit Buses and Vans, April 2007, Report No. FTA Va-26-7229-07)





Asset Replacement for Rolling Stock (Revenue Vehicles)

Standard Practice

- Deterioration Model – Mean Distance Between Failures
- Vehicle Maintenance Costs and Failures Reporting
- Road Calls
- Age Rating
- Mileage Rating
- Condition Rating

Data Availability

Incomplete

Incomplete

Incomplete

Complete

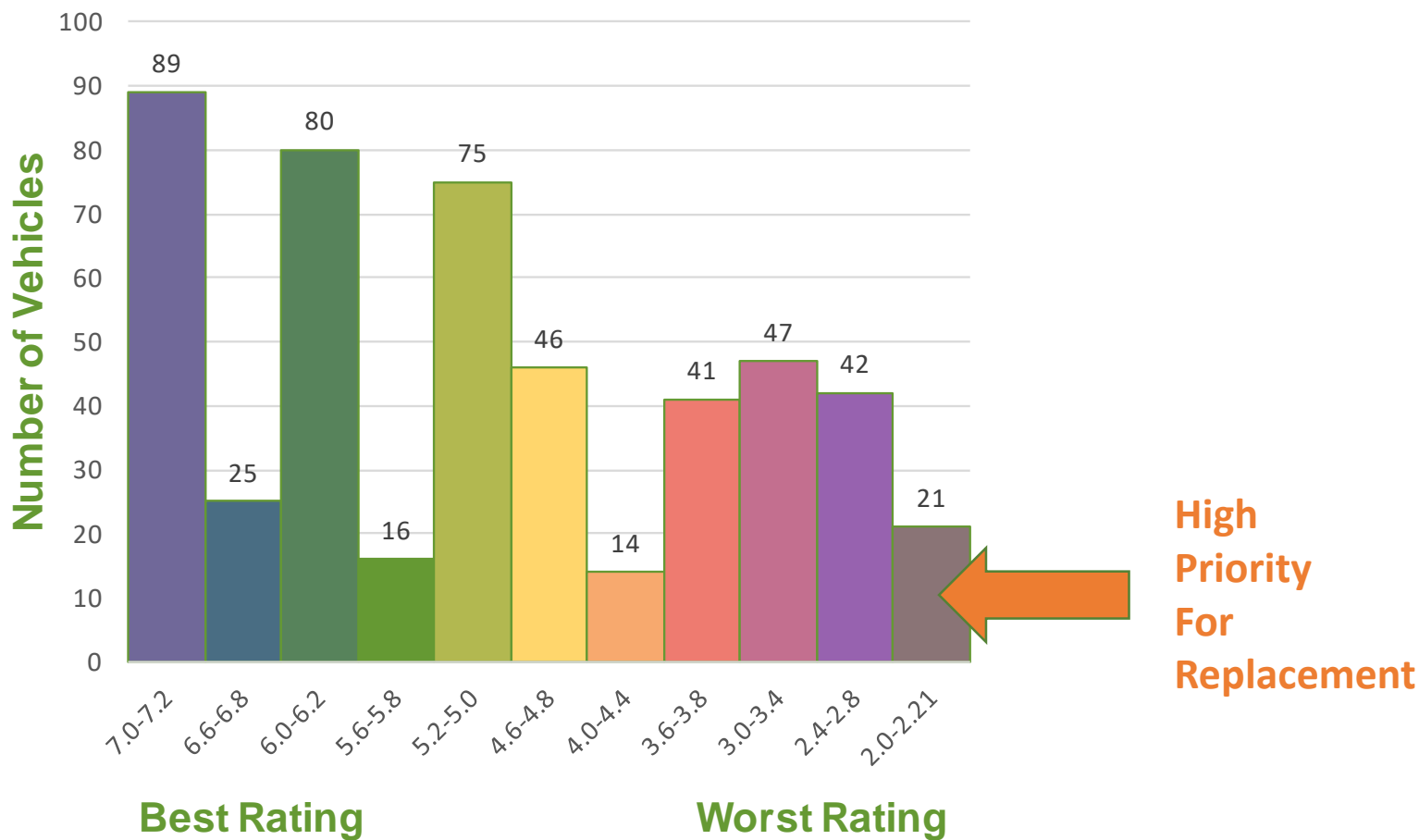
Complete

90% Complete

ASSET REPLACEMENT & DECISION SUPPORT ANALYSIS



Weighted Ranking
Revenue Vehicles Rated and Grouped by Age, Mileage and Condition
(Excludes Vehicles Where Condition is Unknown)
(Age 40%/ Mileage 40%/ Condition 20%)





Prioritized Revenue Vehicle Replacements

21 Identified High Priority Replacement Vehicles



18 High Mileage Vehicles (250,000 or more miles over ULB)



39 Vehicles Prioritized for Replacement

Notes

- Assumes annual replacements at approximately \$2 million
- Replacement contingent on availability and allocation of Federal and local funding
- Some vehicles may be Out of Service

ASSET INVESTMENT ANALYSIS & PRIORITIZATION

Impact of Prioritized Replacements

Age	2017		2018		2019	
	Number of Vehicles	Percent of Vehicles	Number of Vehicles	Percent of Vehicles	Number of Vehicles	Percent of Vehicles
At or under ULB Age	238	43%	248	45%	235	42%
Over ULB Age	317	57%	307	55%	320	58%
Total	555	100%	555	100%	555	100%

ASSET INVESTMENT ANALYSIS & PRIORITIZATION

Investment Analysis

ALDOT Section 5307 & 5311 Vehicle Expenditures 2013-2017

Investment Year	Number of Vehicles Purchased	Total	Federal Share	Local Share	Average Cost Per Vehicle
2013	57	\$2,963,069.55	\$2,370,455.64	\$592,613.91	\$51,983.68
2014	22	\$1,217,462.60	\$973,970.08	\$243,492.52	\$55,339.21
2015	46	\$2,623,858.52	\$2,099,086.82	\$524,771.70	\$57,040.40
2016	34	\$1,820,581.20	\$1,456,464.96	\$364,116.24	\$53,546.51
2017	38	\$2,051,690.95	\$1,641,352.76	\$410,338.19	\$53,991.87
TOTAL	197	\$10,676,662.82	\$8,541,330.26	\$2,135,332.56	\$54,196.26
5 Year Average	39	\$2,135,332.56	\$1,708,266.05	\$427,066.51	\$54,380.33

ASSET INVESTMENT ANALYSIS & PRIORITIZATION

Preferred Investment Scenario

Year	Maintain Existing Investment					
	2018	2019	2020	2021	2022	2023
Useful Life Expired - Total Vehicles (beginning of year)	317	307	320	311	333	314
Vehicles whose Useful Life Expires in calendar year	29	52	30	61	20	12
Total Vehicles, Useful Life Expired	346	359	350	372	353	326
Replacement Vehicles Added	39	39	39	39	39	39
Net Total, Total Vehicles remaining (year end), Useful Life Expired	307	320	311	333	314	287
Total Fleet Vehicles* (includes 3 unclassified vehicles)	555	555	555	555	555	555
Percent of Total, Useful Life Expired	55%	58%	56%	60%	57%	52%

IMPLEMENTATION PLAN



ACTION 1: IMPLEMENT TERM CONDITION RATINGS FOR FACILITIES

Timeframe: Summer 2018

Status: Complete

BRATS Facility Maintenance Plan
For Robertsdale Office and Fairhope Transit Hub

The purpose of this plan is to maintain property in good operating order and in compliance with any applicable Federal regulations.

5/3/2012

PATS FACILITY MAINTENANCE PLAN

Pike Area Transit System

PATS Facility Maintenance Plan for Pike Area Transit System Office

The purpose of this plan is to preserve PATS property in excellent operating order and in compliance with any applicable Federal regulation

Revised on June 30, 2016

Alabama Tombigbee Regional Commission
Rural Transportation Program
Facility Maintenance Guide

TRC Transportation Building
108 Claiborne Street
Camden, AL 36784

Appendix C: Sample Administrative/Maintenance Facility Condition Assessment Form

Inspection Date: 04/26/2018

Inspector Name: Brooke Wheeler

Facility Name: Robertsdale BRATS Office and Maintenance Facility

Address/Location: 18100 County Road 54, Robertsdale, AL 36567

ID #	Asset Quantity	Unit of Measure	Percent of Asset Quantity by Condition					
			5 Excellent	4 Good	3 Adequate	2 Marginal	1 Poor	
A.	Substructure		✓					
B.	Shell		✓					
C.	Interiors		✓					
D.	Conveyance		✓					
E.	Plumbing		✓					
F.	HVAC		✓					
G.	Fire Protection		✓					
H.	Electrical		✓					
I.	Equipment		✓					
J.	Site		✓					

IMPLEMENTATION PLAN



ACTION 1: IMPLEMENT TERM CONDITION RATINGS FOR FACILITIES

Who: Agencies with Facilities

Next Steps: Continue to Review Facility Maintenance Plans
Continue to Rate the Condition of Each Facility
Use the Transit Economic Requirements Model (TERM)
Maintain Each Facility in Accordance with Its Facility Maintenance Plan

Transit Economic Requirements Model (TERM) Condition Rating Scale

Rank	Category	Description
5	New/Excellent	New asset; no visible defects
4	Good	Some slightly defective/deteriorated component(s)
3	Adequate	Some moderately defective/deteriorated component(s)
2	Marginal	Increasing number of defective/deteriorated component(s) & maintenance needs
1	Poor	In need of immediate repair or replacement; item is a safety hazard and may have critically damaged component(s)

IMPLEMENTATION PLAN

ACTION 2: REDUCE OUT-OF-SERVICE VEHICLES

Timeframe: 2018-2019

Status: Ongoing



Out of Service Vehicles are still reported as assets.

IMPLEMENTATION PLAN

ACTION 2: REDUCE OUT-OF-SERVICE VEHICLES

Who: All Agencies

Next Step: Identify and Properly Dispose of Out-of-Service Vehicles through Disposals or Transfers

ALDOT
BUREAU OF
TRANSPORTATION PLANNING
AND MODAL PROGRAMS
TRANSIT SECTION

POLICY AND PROCEDURE MANUAL
FOR
FEDERAL TRANSIT ADMINISTRATION
TRANSPORTATION PROGRAMS
5307, 5309, 5310 AND 5311



IMPLEMENTATION PLAN

ACTION 3: REVISE DATA COLLECTION

Timeframe: 2018-2022

Status: In Review

FTA Final Rule on TAM included new and expanded reporting requirements for the National Transit Database (NTD):

- ALDOT Urbanized Area Formula Program (5307) and Rural Formula Program (5311) recipients are required to submit a report to the NTD on their progress toward meeting their FY2018 internal performance targets by January 31, 2019.
- Reporting for FY2019 is due January 31, 2020.
- Reports on the condition of vehicles are required for Reporting Year 2018.
- Reports on the condition of facilities are phased in from 2019 through 2021.
- FTA recommends aggregation level, performance measures, and reporting frequency by asset types.

IMPLEMENTATION PLAN

Data Collection Recommendations

- Review existing data collection methods and collection schedules.
- Modify existing reporting forms to include additional data points and vehicle specific information.
- Create new forms and collection methods where necessary.
- Consider an enterprise-level asset management system to collect, manage, aggregate, and report Subrecipient information on inventories and performance of Revenue Vehicles, Non-revenue Service Vehicles, Equipment, and Facilities.

FTA Report Recommendations

Asset Type	Aggregation Level for Calculations	Performance Measure	Calculation Frequency
Facilities	Facility	Backlog of investment needs	Annual
Facilities	Facility	Average Age	Annual
Vehicles	Sub Fleet	Backlog of investment needs	Annual
Vehicles	Sub Fleet	Mean distance between failures	Monthly
Vehicles	Sub Fleet	Average accumulated mileage	Monthly

IMPLEMENTATION PLAN



ACTION 3: REVISE DATA COLLECTION FOR REVENUE AND SERVICE VEHICLES

Who: All Agencies

Next Step: Revise Revenue and Service Vehicle Data Collection

When: NTD Report January 31, 2019

Current Data Collected on Vehicle Inventory Form (Collected Annually)

- Vehicle Description
- Vehicle ID Number
- Grant #
- Start Date
- Cost
- % Federal
- Title Holder
- Location/Condition/Use
- Useful Life
- Disposal Date

Recommended Additions/Alterations to Vehicle Inventory Form (Collected Annually)

- Asset Category
 - Revenue Vehicle
 - Service Vehicle
- Asset Class
 - Mini Van
 - Van
 - Small Bus (17-21 passengers)
 - Small Bus (24-27 passengers)
 - Full Size Bus (28+ passengers)
- Vehicle
 - Make
 - Model
 - Mileage
 - Replacement Cost/Value
- Separate Fields
 - Location
 - Condition
 - Use
- Useful Life Age
- No. Years Past Useful Life Age
- Useful Life Mileage
- No. Years Past Useful Life Mileage

IMPLEMENTATION PLAN

Recommended Additional Data Collection (Collected Quarterly)

- Agency Backlog of Investment Needs
- Average Accumulated Mileage Per Vehicle

Recommended Agency Road Call Detail (Collected Quarterly)

- Asset Category
- Asset Class
- Vehicle Make/Model/Model Year
- VIN
- Vehicle Mileage
- Road Call Date
- Road Call Details
- Annual Mean Distance between Failures/
Road Calls

The screenshot shows a software application window titled "5311 Quarterly Report". The window is divided into several sections for data entry:

- Agency Information:** Agency (dropdown menu), Reporting Period (dropdown menu), Report Filed By (dropdown menu), Date Filed (7/18/2006).
- Cost:** Operating (input field), Administrative (input field), Total Cost (input field).
- Other Information:** County(ies) Served (checkboxes for Aulauga, Baldwin, Barbour, Bibb), Program Changes (text area).
- Demand:** Passenger Trips (input field), Passenger Service Hours (input field).
- Effectiveness/Efficiency Measures:** Vehicle Miles/Gallon of Fuel (input field), Number of Project Vehicles (input field), Total Seating Capacity (input field), Road Calls (input field).
- Supply:** Vehicle Hours (input field), Vehicle Miles (input field), Passenger Service Miles (input field).
- DBE Requirements:** Total Contracting Opportunities (input field), DBE Contracts Awarded (input field), % DBE Awarded (input field).
- Key Ratios:** Productivity (input field), Hourly Utilization (input field), Mileage Utilization (input field), Miles Per Trip (input field), Cost Per Trip (input field), Cost Per Hour (input field), Operational Cost Recovery Ratio (input field).

At the bottom right of the window, there are "Save" and "Cancel" buttons.

Current Data Collected in BMMS Capital Equipment Maintenance Summary

- Agency name
- Service Area
- VIN
- Model Year and Type
- Current Odometer
- Accessibility Equipment
- No. of Wheelchair Stations
- Seating Capacity
- Maintenance Date, Odometer, Work Order Number, Description, Material Cost
- Labor Cost
- Total Cost

Recommended Additions to Capital Equipment Maintenance Summary Report (Collected Annually)

- Asset Category
 - Revenue Vehicle
 - Service Vehicle
- Asset Class
 - Mini Van
 - Van
 - Small Bus (17-21 passengers)
 - Small Bus (24-27 passengers)
 - Full Size Bus (28+ passengers)

IMPLEMENTATION PLAN



ACTION 3: REVISE DATA COLLECTION FOR FACILITIES AND EQUIPMENT

Who: All Agencies

Next Step: Expand Facilities and Equipment Data Collection

When: NTD Report Phased in 2019-2021

Recommended Facilities Inventory / Condition Assessment (Collected Annually)

- Asset Category: Facilities
- Asset Class
 - Building
 - Storage Yard
- Asset Owner
- Asset Name
- Asset Address
- Count
- ID/Serial Number
- Acquisition Year
- Age
- Square Footage
- Replacement Cost/Value
- TERM Scale Condition
- Facility Rehabilitation/Systems Upgrade Costs

IMPLEMENTATION PLAN



ACTION 4: BRING UNIFORMITY TO CONDITION RATING OF VEHICLES

Timeframe: 2018-2019

Status: In Review

Next Step: Add subrecipient training to bring more uniformity to condition ratings

TERM Vehicle Condition Ranking

Condition	Rating Scale	Description
Excellent	4	Low mileage in relation to age and no visible mechanical flaw.
Good	3	Average mileage in relation to the age and only minor mechanical flaws.
Fair	2	High mileage and/or noticeable mechanical flaws.
Poor	1	High mileage and major mechanical flaws. Major repairs, such as engine or transmission overhaul, etc. are needed to keep the vehicle in service.

IMPLEMENTATION PLAN

ACTION 5: REVIEW ASSET LIFECYCLE POLICY AND USEFUL LIFE BENCHMARKS

Timeframe: 2018-2019

Status: In Review

Adopted ULBs for Rolling Stock Revenue Vehicles meet the FTA minimums for vehicle types but are shorter than the FTA default benchmarks.

Current Policy

Vehicle Type	Optimal Replacement Mileage	Useful Life Expectancy	Optimal Replacement Age
Mini Vans	100,000.00	4	5
Vans	100,000.00	4	5
Small Buses 17-21 passengers	150,000.00	5	6
Small Buses 24-27 passengers	200,000.00	7	8
Full Size Transit Coaches 28+ passengers	300,000.00	10	11

FTA Default Useful Life Benchmark Cheat Sheet

Vehicle Type	Default ULB (in years)
Mini Vans	8
Vans	8
Small Buses 17-21 passengers	10
Small Buses 24-27 passengers	14
Full Size Transit Coaches 28+ passengers	14

IMPLEMENTATION PLAN

- ACTION 5:** REVIEW ASSET LIFECYCLE POLICY AND USEFUL LIFE BENCHMARKS
- Who:** ALDOT & All Agencies
- Next Steps:** Reassess ULB and Asset Lifecycle Policy
Adopt New Lifecycle Policy and ULBs

ULB and Asset Lifecycle Policy should more closely align with Subrecipients' use and experience of vehicles, national data on lifecycle costs for specific vehicle types, and FTA default benchmarks.

IMPLEMENTATION PLAN

ACTION 6: REVISE AND ADOPT NEW PERFORMANCE MEASURES AND TARGETS

Timeframe: 2018-2019

Status: In Review

New performance measures and targets are recommended for Reporting Year 2019.

ALDOT Rolling Stock – Revenue Vehicle Performance Targets for Reporting Year 2019

Vehicle Type	2017 Performance Target	2017 Actual	2019 Performance Target
Vans	70%	72%	65%
Small Buses (17-21 passengers)	56%	62%	55%
Small Buses (24-27 passengers)	19%	23%	16%
Full Size (28+ passengers)	0%	16%	9%
Total	55%	57%	50%

IMPLEMENTATION PLAN

ALDOT Performance Measures and Targets for Reporting Year 2019

Asset Category	Performance Measures	Performance Targets
Rolling Stock (all Revenue Vehicles)	Age: % of Revenue Vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark	Vans: Overall reduction of current inventory that exceeds ULB by 7%; Cutaway Buses: Overall reduction of current inventory that exceeds ULB by 7%; Body-on-Chassis Overall reduction of current inventory that exceeds ULB by 7%; Full Size Buses: Overall reduction of current inventory that exceeds ULB by 7%
Equipment – Non-Revenue Service Vehicles	Age: % of vehicles that have met or exceeded their Useful Life Benchmark	Overall reduction of current inventory that exceeds ULB by 7%
Facilities	Conditions: % of facilities with a condition rating below 3.0 on a FTA Transit Economic Requirements Model (TERM) Scale	No more than 20% of FTA funded facilities with a condition rating below 3.0 (Good)

Sources Used to Develop TAM Plan

- Final Rule for TAM
<https://www.gpo.gov/fdsys/pkg/FR-2016-07-26/pdf/2016-16883.pdf>
- Transit Asset Management General Information
<https://www.transit.dot.gov/TAM/>
- Transit Asset Management: Frequently Asked Questions
<https://www.transit.dot.gov/TAM/gettingstarted/htmlFAQs#HowTPcomply>

Becky Rogers, P.E., PTP

becky.rogers@neel-schaffer.com

Patti Clare, AICP

patti.clare@neel-schaffer.com