

## Everything Asset Management

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## Everything Asset Management Agenda

- What is Asset Management & Why is it important
- State of Good Repair
- ADOT's role in your asset management
- Subrecipient Asset Management responsibilities
- Vehicle Maintenance Plans
- Common Deficiencies
- Questions



#### What is Asset Management?

- It is a strategic process that helps transit agencies prioritize funding and resources based on the condition and performance of their assets, like vehicles, equipment and when applicable facilities to maintain a state of good repair
- ADOT requires subrecipients have Vehicle Maintenance Plans and when applicable facility maintenance plan to document their State of Good Repair process



## Why is asset management important

- FTA's primary goal is that ADOT ensure that federally funded assets are kept in a State of Good Repair (SGR)
  - ADOT provides oversight to ensure subrecipients are compliant.



#### What is "State of Good Repair?"

In general, "State of Good Repair" is the ability to maintain assets in a well-performed condition to provide efficient, reliable and safe service.

FTA requires that ADOT ensures it's subrecipients are maintaining federally funded assets in a state of good repair.



# ADOT's role in your asset management process



## **Transit Asset Management Plan (TAM)**

- Inventory of Capital Assets
   5311 and 5310 Open to the public
- Condition Assessment Condition Rating
- Decision Support Tool
  - Identify if asset should be replaced
- Investment Prioritization Identify funding levels needed by year



## **Benefits of TAM**

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



## Useful Life Benchmark (ULB)

**Revenue Vehicles** 

## ADOT Transit's Useful Life Benchmark (ULB)

ADOT Useful ADOT Total Averag Average Useful Life Asset Category/Class Life Number e Age Mileage Benchmark Benchmark **Revenue Vehicles 2022** Mileage 477 5.99 140,720 Years 100,000 AO - Automobile 2022 23 3.22 35,113 8 500,000 BR - Over-the-road-Bus 2022 0 0 14 0 500,000 BU – Bus 2022 12 6.17 136,710 14 400,000 CU - Cutaway Bus 2022 255 5.72 126,951 10 FB - Ferrvboat 0 0-0-100,000 MV – Minivan 2022 114 217,460 8 6.63 100,000 SV - Sport Utility Vehicle 2022 10 6 109,070 8 Trucks and other Rubber Tire 100,000 8 1 9 150,148 Vehicles 2022 200,000 7 TB- Trolleybus 0 0 0 100,000 VN - Van 2022 62 101.157 8 6.94

ADOT is utilizing Useful Life Benchmarks for vehicles based upon years or mileage whichever occurs first.



#### **Vehicle Performance Measures**

Asset Category - Performance Measure	Asset Class	2022 Target	2023 Target	2024 Target	2025 Target	2026 Target
<b>REVENUE VEHICLES</b>						
Age - % of revenue	AB - Articulated Bus					
vehicles within a	AO - Automobile	26%	26%	25%	25%	25%
particular asset class that have met	BR - Over-the-road Bus	26%	26%	25%	25%	25%
or exceeded their	BU - Bus	26%	26%	25%	25%	25%
Useful Life Benchmark (ULB)	CU - Cutaway Bus	26%	26%	25%	25%	25%
	FB - Ferryboat					
	MV - Minivan	26%	26%	25%	25%	25%
	RT - Rubber-tire Vintage Trolley	26%	26%	25%	25%	25%
	SB - School Bus					
	SV - Sport Utility Vehicle	26%	26%	25%	25%	25%
	TB - Trolleybus	26%	26%	25%	25%	25%
	VN - Van	26%	26%	25%	25%	25%



## Equipment & Facilities Performance Measures

Asset Category - Performance Measure	Asset Class	2022 Target	2023 Target	2024 Target	2025 Target	2026 Target
EQUIPMENT						
<b>Age</b> - % of vehicles that have met or	Non Revenue/Service Automobile	50%	50%	50%	50%	50%
exceeded their	Steel Wheel Vehicles					
Useful Life Benchmark (ULB)	Trucks and other Rubber Tire Vehicles	50%	50%	50%	50%	50%
FACILITIES						
Condition - % of	Administration	20%	20%	20%	20%	20%
facilities with a	Maintenance	20%	20%	20%	20%	20%
condition rating	Parking Structures	20%	20%	20%	20%	20%
below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	Passenger Facilities	20%	20%	20%	20%	20%



## **Summary of TAM Rolling Stock**

#### **Asset Condition Summary**

Asset Category/Class	Coun t	Averag e Age	Average Mileage	Average TERM Conditio n	Average Value	% At or Past ULB
Revenue Vehicles 2022	477	5.99	140,720	3.44	\$81,914.78	23.06%
AO - Automobile 2022	23	3.22	35,113	4.30	\$18,438.00	13.04%
BU – Bus 2022	12	6.17	136,710	2.17	\$280.14800	0.00%
CU - Cutaway Bus 2022	255	5.72	126,951	3.40	\$111,519.00	17.25%
DB - Double Decked Bus	0	-	-	N/A	-	-
FB - Ferryboat	0	-	-	N/A	-	-
MV – Minivan 2022	114	6.63	217,460	3.25	\$36,839.00	28.95%
SV - Sport Utility Vehicle 2022	10	6	109,070	3.80	\$31,838.00	20.00%
Trucks and other Rubber Tire Vehicles 2022	1	9	150,148	3.00	\$5,121.00	100%
VN - Van 2022	62	6.94	101,157	3.73	\$37,533.00	43.55%

Transit Economic Requirements Model (TERM) scale 5=excellent 4=good 3=fair 2=poor 1=failure



# Subrecipient's role in the asset management process



## **Subrecipient Responsibilities**

- Establish clear policies and procedures for all federally funded assets.
  - Develop Vehicle Maintenance plan and if applicable Facility Maintenance plan
- Ensure employees understand their responsibilities and how to comply
- Ensure internal compliance with Condition Rating
- Decision Support Tool-Identify if asset should be replaced
- Investment Prioritization -Identify funding levels needed by year



#### What is a Vehicle Maintenance Plan?

• A written plan that systematically aids in identifying methods used specifically to preserve and extend the functionality and serviceability of a vehicle.





#### **Identify How Maintenance is Managed**

- Be specific on who maintains your vehicles
  - Is it done in-house?
  - Outside vendor via contract?
  - Intergovernmental Agreement?
- Identify how the type of vehicle maintenance is handled
  - Minimum manufacturer specific preventive maintenance
  - Wheelchair lift repairs
  - Major mechanical repair
- Identify the process for how maintenance is authorized and tracked, including repairs under warranty



#### **Vehicle Maintenance Plans**

- Maintenance Plans should include:
  - Asset Inventory
  - At least the manufacturer's recommended maintenance schedule
    - Each vehicle type's intervals listed specifically
  - Maintenance schedule for accessibility equipment
- Maintenance Plans must be included in application



## **Vehicle Maintenance Schedule**

- Sub-recipients with ADOT awarded vehicles must abide by the vehicle maintenance schedule for as long as the vehicle is in use
- Sub-recipient agencies are required to maintain the accessible features of the vehicle to ensure they remain accessible and usable for individuals with disabilities at all times
  - Accessibility features must be repaired promptly if they are damaged or out of order



#### **Know your Manufacturer guidelines**

#### Ford Transit Connect

Interval	Associated service
7,500	Standard vehicle inspection <sup>1</sup>
10,000	Extended vehicle inspection <sup>2</sup>
	Engine oil and filter service
25,000	Fuel filter service
50,000	Transaxle fluid and filter service
100,000	Tune up
	Spark plug service
150,000	Cooling system service

Identify the Manufacturer minimum service intervals by vehicle model

 Maintenance should never go later then the Manufacturer guidelines, but can be done earlier

Maintain communication with your mechanic!!!



## **Maintenance Audit**

- Audits that the transit provider may consider to improve maintenance and maintenance conditions include:
- Facility design audit
- Safety and security audit daily, weekly, monthly, annually
- Crash review
- Vehicle condition spot-check



## **Record Keeping**

A good maintenance program should include a comprehensive maintenance record or file for each vehicle or asset in the transit system.

- Electronic record keeping is acceptable
- A complete history of each vehicle or asset
- Documentation of all repairs
- Details on all maintenance activities
- Record of inspections



#### **Maintenance and Inspection Forms**

- Your maintenance plan should include standardized forms
   Driver Pre-Trip Inspection Checklist
  - -Driver Post-Trip Inspection Checklist
  - -Preventive Maintenance Checklist
  - -Annual Inspection forms,
  - -Bus shelter Checklist, etc.



#### **Pre & Post Trip Inspection Form**



#### VEHICLE INSPECTION FORM

42-0102 R02/25 azdot.gov			SEE PAGE 2 FOR INSTRUCTIONS Ok = Satisfactory NR = Needs Repair		lear
Agency Name (Vehicle Owner) Bus No.: Complete Inspection and Check PASS FAIL Inspection Company: Inspector Name:			For Mileage License Plate #: VIN: Manufacturer: Model: Year:	nspection C	Date
Inspector Signature:			Lift / Ramp Yes No		
BRAKES	ОК	NR	ENGINE COMPARTMENT	OK	NR
ADJUSTMENT			OIL LEVEL		
MECHANICAL COMPONENT			RADIATOR		1
DRUM / ROTOR			BATTERIES		
HOSE / TUBING					
LINING			INTERIOR	ок	NR
PARKING BRAKES		1	WINDOWS/OPERATION		1
OTHER			MIRRORS		
			FRONT DOOR OPERATION		
FUEL SYSTEM	ОК	NR	PASSENGER SEATS		
TANK(S)			INTERLOCKS		
LINES			GRAB RAILS / STANTIONS		
OTHER			SIDE/FRONT/REAR/CEILING PANELS		
			FLOOR COVERING		
STEERING	ОК	NR	STEPWELL		
ADJUSTMENT			EMERGENCY EXITS		_
COLUMN / GEAR			SUN VISOR		
AXLE					
LINKAGE			CAB / BODY	ОК	NR
POWER STEERING			ACCESS		
OTHER			EQPT / LOAD SECURE		
			TIE-DOWNS		
SUSPENSION	ОК	NR	HEADERBOARD		
SPRINGS			MOTORCOACH SEATS		
ATTACHMENTS			OTHER		
SLIDERS					



## Vehicle Maintenance Schedule-Inspection Forms

644 MAINTENANCE SCHEDULES

#### Maintenance Chart

Refer to the Maintenance Schedules on the following pages for the required maintenance intervals.

Mileage or time passed (whichever comes first)		30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000	110,000	120,000	130,000	140,000	150,000
Or Years:	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Or Kilometers:	32,000	48,000	64,000	80,000	96,000	112,000	128,000	144,000	160,000	176,000	192,000	208,000	224,000	240,000
Additional Inspections														
Inspect the CV joints.		Х			Х	1 1		X			Х			Х
Inspect front suspension, tie rod ends, boot seals, and replace if necessary.	x		x		X		x		x		x		X	
Inspect the brake linings, parking brake function.	Х		X		X		X		Х		х		x	

Μ



## **Vehicle Maintenance Schedule-Continued**

MAINTENANCE SCHEDULES 643

#### Required Maintenance Intervals.

Refer to the maintenance schedules on the following page for the required maintenance intervals.

#### At Every Oil Change Interval As Indicated By Oil Change Indicator System:

- Change oil and filter.
- Rotate the tires. Rotate at the first sign of irregular wear, even if it occurs before the oil indicator system turns on.

Inspect battery and clean and tighten terminals as required.

At Every Oil Change Interval As I	Indicated By Oil	ange Interval As Indicated By Oil
Change Indicator Syst	tem:	nge Indicator System:

- Inspect automatic transmission fluid if equipped with dipstick.
- Inspect brake pads, shoes, rotors, drums, hoses and park brake.
- Inspect engine cooling system protection and hoses.

Inspect exhaust system.

 Inspect engine air cleaner if using in dusty or off-road conditions.



#### **Track Service and Intervals**

Date	Mileage	Interval mileage	Date	Mileage	Interval mileage	Date	Mileage	Interval mileage
Bus 9			Bus 18			Bus 26		
3/22/2017	211,470	3,01	8 12/21/201	6 334,727	<b>5,34</b> :	2/25/2017	52,759	6,195
2/22/2017	208,452	3,16	1 11/1/201	6 329,386	5 5,210	5 12/12/2016	5 46,564	1 <mark>5,353</mark>
1/23/2017	205,291	2,85	8 9/8/201	6 324,170	5,05	5 10/3/2016	5 <mark>41,211</mark>	L 5,036
12/29/2016	202,433	2,82	4 6/9/201	6 319,115	5,284	7/13/2016	5 36,175	5 3,076
4/20/2016	199,609	3,08	8 2/1/201	6 313,831	11,033	6/22/2016	5 33,099	4,842
3/22/2016	196,521		2/20/201	6 302,798	3	5/16/2016	5 28,257	5,156
			2/1/201	6		4/8/2016	5 23,101	5,691
						2/26/2016	5 17,410	4,512



12,898

4,853



#### **Unscheduled Repairs**

- Procedures for unscheduled repairs
- information on who to contact if the vehicle needs an immediate repair while in service.
- This may vary according to whether or not a vehicle is under warranty.
- All safety-critical repairs must be performed before allowing the vehicle to re-enter passenger service.



## Cleanliness

- Cleanliness is kept to transit vehicle safety
- Agencies should include cleaning procedures in maintenance plans
- Define when and how often to clean vehicle interiors, exteriors and if applicable bus shelters or facilities



#### **Facility Checklist**

Bet Lue - City Square to Bioxi DooxShelterBenchTrash CanSignagePowder CoatNotesPalma WayIIIIIISafeway - northboundIIIIISafeway - northboundIIIIISafeway - northboundIIIIISafeway - northboundIIIIISeventh St / Hwy 95IIIIIISeventh St / Hwy 95IIIIIIBoat DockIIIIIIIBoat DockIIIIIIISafeway - southboundIIIIIISafeway - southboundIIIIIISafeway - southboundIIIIIISafeway - southboundIIIIIIPalma Road / Hancock CircleIIIIIIPalma Road / Hancock CircleIIIIIIMiracle Mile /RiverviewShelterBenchTrash CanSignagePowder CoatNotesMiracle Mile /RiverviewIIIIIIIPalo Verde Medical/Easy StIIIIIITaget at Ash Ave / Long AveIIIIIM	
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Seventh St / Hwy 95     Image: Seventh St / Hwy 95     Image: Seventh St / Hwy 95       Home Depot / Sam's Club     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Boat Dock     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Sixth St / Long Ave     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Safeway - southbound     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Palma Way     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Palma Road / Hancock Circle     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Miracle Mile /Riverview     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Miracle Mile /Riverview     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave       Palo Verde Medical/Easy St     Image: Seventh St / Long Ave     Image: Seventh St / Long Ave	
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Palo Verde Medica//Easy St         Image: Company St </td <td>_</td>	_
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Smiths on Lakeside	
Commercial Way	-
Marina / Colorado	
Palma Way	
City Hall	
Green Line - East Shelter Bench Trash Can Signage Powder Coat Notes	
Arriba / Rio Vista	
Gold Rush / Ramar	
Gold Rush Business Center de	
WARMC WARMC	
Canyon Walk Aparments	
Joshua Springs	
Walmart I I I I I I I I I I I I I I I I I I I	

SUPERVISOR:

DATE:

Condition Key	
Failing	1
Poor	2
Enir	2



#### **Useful Life of a Vehicle - Minimum**

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Vehicle Type	Minimum Years	and / or	Minimum Miles
Minivan With Ramp	6 years	and / or	100,000 mi.
Minivan No Ramp	6 years	and / or	100,000 mi.
Maxivan With Lift	6 years	and / or	100,000 mi.
Maxivan No Lift	6 years	and / or	100,000 mi.
Cutaway with Lift	7 years	and / or	200,000 mi.
Sport Utility Vehicle (SUV)	7 years	and / or	150,000 mi.
Crew Cab Trucks	7 years	and / or	150,000 mi.
Buses over 30 ft	7 years	and / or	300,000 mi.
Heavy duty buses 35+ ft	10 years	and / or	350,000 mi.
Trolleys	14 years	and / or	500,000 mi.
Automobile	4 years	and / or	100,000 mi.

Vehicle Minimum Useful Life Guidelines

5310 Program Guidebook link: https://azdot.gov/sites/default/ files/2023-12/FFY-2024-5311-Pro gram-Guidebook\_0.pdf



#### **Coordinated Mobility Program**

Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities

**Grant Guidebook** 

FY 2025

Arizona Department of Transportation Multimodal Planning Division 206 South 17th Avenue, Mail Drop 340B Phoenix, AZ 85007

\*This version supersedes all previous versions of this guide.



#### **Useful Life of a Vehicle - Minimum continued**

ve	nicle Minimum U	seiui Lile Gu	laennes
Vehicle Type	Minimum Years	and / or	Minimum Miles
Minivan With Ramp	6 years	and / or	100,000 mi.
Minivan No Ramp	6 years	and / or	100,000 mi.
Maxivan With Lift	6 years	and / or	100,000 mi.
Maxivan No Lift	6 years	and / or	100,000 mi.
Cutaway with Lift	7 years	and / or	200,000 mi.
Sport Utility Vehicle (SUV)	7 years	and / or	150,000 mi.
Crew Cab Trucks	7 years	and / or	150,000 mi.
Buses over 30 ft	7 years	and / or	300,000 mi.
Heavy duty buses 35+ ft	10 years	and / or	350,000 mi.
Trolleys	14 years	and / or	500,000 mi.
Automobile	4 years	and / or	100,000 mi.

Vehicle Minimum Useful Life Guidelines

5311 Program Guidebook link: https://azdot.gov/sites/default/

files/2023-12/FFY-2024-5311-Pro gram-Guidebook\_0.pdf ARIZONA DEPARTMENT OF TRANSPORTATION Section 5311 Guidebook Grant Guidelines Rural Public Transit Program FFY2024 Funding Cycle Reimbursement Period Beginning October 2024



Arizona Department of Transportation

December 2023



## **Common Deficiencies**

- Policies, procedures and tracking mechanisms required to document vehicle preventive maintenance
- ADA requirement wheelchair lifts must be cycled on a daily basis during pre-trip inspection
- Lifts must be maintained and repaired by certified lift mechanics



#### **Recap-State of Good Repair**

- Transit Asset Management Practices must preserve and expand transit investments
- Well Maintained and reliable infrastructure are required
- All the parts that were there originally are still there and in working order



#### Resources

#### Resource Document Website Link

Transit Program Website

https://azdot.gov/planning/transit-programs-and-grants/program-handbooks -applications-and-awards

#### Sample Vehicle maintenance Plan 1

https://azdot.gov/sites/default/files/2019/08/sample-vehicle-maintenance-pl an-1.docx

#### Sample Vehicle maintenance plan 2

https://azdot.gov/sites/default/files/2019/08/sample-vehicle-maintenance-plan-2.docx



# Questions?

Asset Management questions can be directed to:

Your Assigned ADOT Program Manager