

City of Fort Lauderdale Transit Asset Management Plan

Julie Leonard, Accountable Executive

Last modified by Alan Budde on 28 Sep 18 at 12:28

Introduction

The City of Fort Lauderdale provides Sun Trolley community bus service. The Sun Trolley is administered by the Downtown Fort Lauderdale TMA (Transportation Management Association), which is a 501(C) 3 non-profit organization. Our TMA has been serving residents and visitors to the Fort Lauderdale area with community transportation since 1992. The fleet is composed of a mix of owned by the city and vehicles leased through our operations contractor.

Performance Targets & Measures

Asset Category - Performance Measure	Asset Class	2019 Target	2020 Target	2021 Target	2022 Target	2023 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	N/A				
	BR - Over-the-road Bus	N/A				
	BU - Bus	25%	1%	1%	12%	6%
	CU - Cutaway Bus	1%	1%	1%	1%	1%
	DB - Double Decked Bus	N/A				
	FB - Ferryboat	N/A				
	MB - Mini-bus	N/A				
	MV - Mini-van	N/A				
	RT - Rubber-tire Vintage Trolley	N/A				
	SB - School Bus	N/A				
	SV - Sport Utility Vehicle	N/A				
	TB - Trolleybus	N/A				
	VN - Van	N/A				
	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	N/A				
	Steel Wheel Vehicles	N/A				
	Trucks and other Rubber Tire Vehicles	N/A				
	Custom 1	N/A				
	Custom 2	N/A				
Custom 3	N/A					
FACILITIES						
Condition - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	Administration	N/A				
	Maintenance	N/A				
	Parking Structures	N/A				
	Passenger Facilities	N/A				
	Custom 1	N/A				
Custom 2	N/A					
Custom 3	N/A					

TAM Goals and/or Objectives

Goals	Objectives
Reduce number of in service breakdowns and missed service due to breakdowns.	Maintain a 20% spare ratio in good repair
	Miss less than 5% of schedule service due to breakdowns each fiscal year.
Return vehicles to service in a timely manner.	All vehicle service completed in less than 7 days.
	No vehicle down for more than 10 days during any given month.

About the TAM Plan

The Plan outlines a schedule for prioritizing replacement buses in the city owned fleet over an eight (8) year time span, 2018-2026.

Roles and Responsibilities

Department/Individual	Role (Title and/or Description)	Subrecipient
Alan Budde	Transportation Planner, City of Fort Lauderdale	
Robyn Chiarelli	Exec. Director, Sun Trolley	
Craig Garcia	General Manager, First Transit Fort Lauderdale	
Sandy Leonard	Fleet Manager, Fleet Services, City of Fort Lauderdale	

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	14	4.3	59,315	\$235,714.29
<i>AB - Articulated Bus</i>	0	-	-	-
<i>AO - Automobile</i>	0	-	-	-
<i>BR - Over-the-road Bus</i>	0	-	-	-
<i>BU - Bus</i>	12	4.5	60,290	\$263,333.33
<i>CU - Cutaway Bus</i>	2	3.0	53,464	\$70,000.00
<i>DB - Double Decked Bus</i>	0	-	-	-
<i>FB - Ferryboat</i>	0	-	-	-
<i>MB - Mini-bus</i>	0	-	-	-
<i>MV - Mini-van</i>	0	-	-	-
<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>	0	-	-	-
<i>Custom 1</i>	0	-	-	-
<i>Custom 2</i>	0	-	-	-
<i>Custom 3</i>	0	-	-	-
Equipment	0	-	-	-
<i>Non Revenue/Service Automobile</i>	0	-	-	-
<i>Steel Wheel Vehicles</i>	0	-	-	-
<i>Trucks and other Rubber Tire Vehicles</i>	0	-	-	-
<i>Custom 1</i>	0	-	-	-
<i>Custom 2</i>	0	-	-	-
<i>Custom 3</i>	0	-	-	-
Facilities	0	-	N/A	-
<i>Administration</i>	0	-	N/A	-
<i>Maintenance</i>	0	-	N/A	-
<i>Parking Structures</i>	0	-	N/A	-
<i>Passenger Facilities</i>	0	-	N/A	-
<i>Custom 1</i>	0	-	N/A	-
<i>Custom 2</i>	0	-	N/A	-
<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	14	4.3	59,315	N/A	\$235,714.29	21%
<i>AB - Articulated Bus</i>	0	-	-	N/A	-	-
<i>AO - Automobile</i>	0	-	-	N/A	-	-
<i>BR - Over-the-road Bus</i>	0	-	-	N/A	-	-
<i>BU - Bus</i>	12	4.5	60,290	N/A	\$263,333.33	25%
<i>CU - Cutaway Bus</i>	2	3.0	53,464	N/A	\$70,000.00	0%
<i>DB - Double Decked Bus</i>	0	-	-	N/A	-	-
<i>FB - Ferryboat</i>	0	-	-	N/A	-	-
<i>MB - Mini-bus</i>	0	-	-	N/A	-	-
<i>MV - Mini-van</i>	0	-	-	N/A	-	-
<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>	0	-	-	N/A	-	-
<i>Custom 1</i>	0	-	-	N/A	-	-
<i>Custom 2</i>	0	-	-	N/A	-	-
<i>Custom 3</i>	0	-	-	N/A	-	-
Equipment	0	-	-	N/A	-	-
<i>Non Revenue/Service Automobile</i>	0	-	-	N/A	-	-
<i>Steel Wheel Vehicles</i>	0	-	-	N/A	-	-
<i>Trucks and other Rubber Tire Vehicles</i>	0	-	-	N/A	-	-
<i>Custom 1</i>	0	-	-	N/A	-	-
<i>Custom 2</i>	0	-	-	N/A	-	-
<i>Custom 3</i>	0	-	-	N/A	-	-
Facilities	0	-	N/A	-	-	N/A
<i>Administration</i>	0	-	N/A	-	-	N/A
<i>Maintenance</i>	0	-	N/A	-	-	N/A
<i>Parking Structures</i>	0	-	N/A	-	-	N/A
<i>Passenger Facilities</i>	0	-	N/A	-	-	N/A
<i>Custom 1</i>	0	-	N/A	-	-	N/A
<i>Custom 2</i>	0	-	N/A	-	-	N/A
<i>Custom 3</i>	0	-	N/A	-	-	N/A

Decision Support

Investment Prioritization

Vehicle replacement will be prioritized based on age and then based on the overall ranking score.

Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
Vehicle Condition Assessment Tool	Qualitative and quantitative indicators will be combined to develop rank scores for vehicle replacement based on age, mileage, breakdowns, and mechanics assessment

Risk Management

Risk	Mitigation Strategy
Unexpected loss of revenue vehicles	Maintain at least 20% spare ratio
Hurricane damage	Follow Emergency Plan procedures to secure vehicles and facilities
Lack of local capital	Stagger replacement plan in smaller groups over time.

Unplanned Maintenance Approach

Maintenance is included in our operations contracts based on hourly service rate, shifting some risk to contractor.

Overhaul Strategy

Asset Category	Asset Class	Overhaul Strategy
RevenueVehicles	BU - Bus	Not foreseen
RevenueVehicles	CU - Cutaway Bus	Not foreseen

Disposal Strategy

Asset Category	Asset Class	Disposal Strategy
RevenueVehicles		
RevenueVehicles		

Acquisition and Renewal Strategy

Asset Category	Asset Class	Acquisition and Renewal Strategy
RevenueVehicles	BU - Bus	Regular review of capital grant opportunities and application at least 2 years in advance of expected replacement.
RevenueVehicles	CU - Cutaway Bus	Same as buses

Investment Prioritization

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

Capital Investment Activity Schedules

Document Name	File Extension
Annual Replacement Priority List	Excel

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

Appendix A: Asset Register

Asset Category	Asset Class	Asset Name	Make	Model	Count	ID/Serial No.	Asset Owner	Acquisition Year	Vehicle Mileage	Replacement Cost/Value
RevenueVehicles	BU - Bus	612	Freightliner	Supreme Trolley	1	612	City of Fort Lauderdale	2006	108,363	\$280,000.00
RevenueVehicles	BU - Bus	613	Freightliner	Supreme Trolley	1	613	City of Fort Lauderdale	2006	139,939	\$280,000.00
RevenueVehicles	BU - Bus	614	Freightliner	Supreme Trolley	1	614	City of Fort Lauderdale	2006	102,092	\$280,000.00
RevenueVehicles	BU - Bus	615	Glaval	Apollo	1	615	City of Fort Lauderdale	2014	87,196	\$180,000.00
RevenueVehicles	BU - Bus	616	Glaval	Apollo	1	616	City of Fort Lauderdale	2014	102,769	\$180,000.00
RevenueVehicles	BU - Bus	619	Freightliner	Supreme Trolley	1	619	City of Fort Lauderdale	2015	46,607	\$280,000.00
RevenueVehicles	BU - Bus	620	Freightliner	Supreme Trolley	1	620	City of Fort Lauderdale	2016	46,538	\$280,000.00
RevenueVehicles	BU - Bus	621	Freightliner	Hometown Trolley	1	621	City of Fort Lauderdale	2017	16,300	\$280,000.00
RevenueVehicles	BU - Bus	622	Freightliner	Supreme Trolley	1	622	First Transit	2017	12,651	\$280,000.00
RevenueVehicles	BU - Bus	624	Freightliner	Supreme Trolley	1	624	First Transit	2017	11,781	\$280,000.00
RevenueVehicles	BU - Bus	625	Freightliner	Supreme Trolley	1	625	First Transit	2017	19,717	\$280,000.00
RevenueVehicles	BU - Bus	626	Freightliner	Supreme Trolley	1	626	First Transit	2017	29,531	\$280,000.00
RevenueVehicles	CU - Cutaway Bus	617	Fort e450	Elkhart Coach	1	617	First Transit	2015	56,222	\$70,000.00
RevenueVehicles	CU - Cutaway Bus	618	Fort e450	Elkhart Coach	1	618	First Transit	2015	50,705	\$70,000.00

Appendix B: Asset Condition Data

B1: Revenue Vehicle Assets

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
RevenueVehicles	BU - Bus	612	1	612	12	108,363	\$280,000.00	8	Yes
RevenueVehicles	BU - Bus	613	1	613	12	139,939	\$280,000.00	8	Yes
RevenueVehicles	BU - Bus	614	1	614	12	102,092	\$280,000.00	8	Yes
RevenueVehicles	BU - Bus	615	1	615	4	87,196	\$180,000.00	8	No
RevenueVehicles	BU - Bus	616	1	616	4	102,769	\$180,000.00	8	No
RevenueVehicles	BU - Bus	619	1	619	3	46,607	\$280,000.00	8	No
RevenueVehicles	BU - Bus	620	1	620	2	46,538	\$280,000.00	8	No
RevenueVehicles	BU - Bus	621	1	621	1	16,300	\$280,000.00	8	No
RevenueVehicles	BU - Bus	622	1	622	1	12,651	\$280,000.00	8	No
RevenueVehicles	BU - Bus	624	1	624	1	11,781	\$280,000.00	8	No
RevenueVehicles	BU - Bus	625	1	625	1	19,717	\$280,000.00	8	No
RevenueVehicles	BU - Bus	626	1	626	1	29,531	\$280,000.00	8	No
RevenueVehicles	CU - Cutaway Bus	617	1	617	3	56,222	\$70,000.00	5	No
RevenueVehicles	CU - Cutaway Bus	618	1	618	3	50,705	\$70,000.00	5	No

Appendix B: Asset Condition Data

B2: Equipment Assets

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark

Appendix B: Asset Condition Data

B3: Facilities Assets

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	TERM Scale Condition	Replacement Cost/Value

Appendix C: Proposed Investment Project List

Project Year	Project Name	Asset/Asset Class	Cost	Priority
2019	Bus Acquisition	RevenueVehicles	\$4,500,000.00	High

Appendix D: Fleet Replacement Module Output

Total in Current Year \$		\$0.00	\$0.00		\$0.00		\$0.00		\$0.00	
Total in Year of Expenditure \$		\$0.00	\$0.00		\$0.00		\$0.00		\$0.00	
		2019	2020		2021		2022		2023	
Fleet Type (Year/Make/Model)	Number	Cost in 2018 \$	Number	Cost in 2018 \$	Number	Cost in 2018 \$	Number	Cost in 2018 \$	Number	Cost in 2018 \$