

City of Manteca Transit Asset Management Plan

Juan Portillo, Transit Manager, Accountable Executive

Last modified by Juan Portillo on 27 Sep 22 at 09:20

Introduction

The City of Manteca provides Manteca Transit, which is a fixed route, dial-a-ride and ADA paratransit service operating solely within the City of Manteca. The City is located in the Central Valley of San Joaquin County. The City serves a population base of 84,000.

Performance Targets & Measures

Asset Category - Performance Measure	Asset Class	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	0%
	CU - Cutaway Bus	0%
	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	0%
	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	0%
	Custom 1	N/A
	Custom 2	N/A
Custom 3	N/A	

Target Setting Methodology

Our targets have been set by using our bus replacement schedule that includes age, vehicle milage, and then determining the number of vehicles we would need to replace on a yearly basis to continue to provide the same level of service, while operating within FTA guidelines.

TAM Vision

Manteca City Public Works Transit Division firmly believes that by implementing this Transit Asset Management (TAM), that it will allow Manteca Transit to meet its mission and offer safe, efficient, reliable public transportation to the public.

TAM and SGR Policy

All cutaway buses are replaced after 7 years or 200,000 miles, CNG 35 FT bus replaced after 12 years or 500,00 miles, the transit center is renovated and upgraded at 40 years and automobile is replaced after 10 years or 100,000 miles.

TAM Goals and/or Objectives

Goals	Objectives
Replace assets identified in this plan within one year after it has met its useful life	Review transit assets annually.
	Program replacement of transit assets at the minimum one year prior to the anticipated retirement date of the asset.
Reduce overall revenue vehicle breakdowns	Maintain vehicle in safe operating condition. Adhere to a strict preventative maintenance schedule.
	City staff working along with the Transit operator for Capital Project Planning.

About the TAM Plan

The TAM Plan covers the period of October 1, 2022 to September 30, 2027. The plan will be reviewed and updated annually.

Roles and Responsibilities

Department/Individual	Role (Title and/or Description)	Subrecipient
Public Works/Juan Portillo	Transit Manager(responsible for managing)	City of Manteca
Public Works/Celine Barber	Administrative Analyst	City of Manteca

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	9	3.7	98,734	\$210,618.68
<i>AB - Articulated Bus</i>	0	-	-	-
<i>AO - Automobile</i>	0	-	-	-
<i>BR - Over-the-road Bus</i>	0	-	-	-
<i>BU - Bus</i>	1	1.0	22,649	\$551,758.48
<i>CU - Cutaway Bus</i>	8	4.0	108,245	\$167,976.21
<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	1	8.0	13,736	\$35,000.00
<i>Non Revenue/Service Automobile</i>	1	8.0	13,736	\$35,000.00
<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	1	9.0	N/A	\$5,000,000.00
<i>Administration</i>	0	-	N/A	-
<i>Maintenance</i>	0	-	N/A	-
<i>Parking Structures</i>	0	-	N/A	-
<i>Passenger Facilities</i>	1	9.0	N/A	\$5,000,000.00
<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	9	3.7	98,734	N/A	\$210,618.68	0%
<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>	1	1.0	22,649	N/A	\$551,758.48	0%
<i>CU - Cutaway Bus</i>	8	4.0	108,245	N/A	\$167,976.21	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	1	8.0	13,736	N/A	\$35,000.00	0%
<i>Non Revenue/Service Automobile</i>	1	8.0	13,736	N/A	\$35,000.00	0%
<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	1	9.0	N/A	5.0	\$5,000,000.00	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>	1	9.0	N/A	5.0	\$5,000,000.00	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

(1) SAFETY - issues that concern safety or security critical assets or initiatives. This applies to the safety of both riders and employees. (2) COMPLIANCE - Issues that are necessary to fulfill regulatory compliance requirements. (3) MAINTENANCE - Issues for maintenance of existing assets, including State of Good Repair (SGR) projects. (4) ENHANCEMENT - Issues that enhance or expand assets to improve services. The Short Range Transit Plan process will determine the priority of assets that need to be replaced based off the capital plan replacement schedule and financial plan.

Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
Spreadsheet through the use of the TAM Plan	Spreadsheet to track and manage assets used by the transit system.
Coordinate Asset Management with Finance Department	Reconcile the asset management spreadsheet with the Finance Department's asset management system to ensure that assets are being tracked.
Bus Replacement Schedule	Spreadsheet forecasting future replacement of revenue vehicles
Manteca Transit Center Facility Maintenance Plan	Facility Maintenance Plan to formalize the goals and objects of facilities maintenance program for the Transit Center and prescribe a schedule for preventive maintenance and related inventory controls.

Risk Management

Risk	Mitigation Strategy
Loss of significant amounts of federal funds	Decrease dependence on federal funds for capital
Contractor not maintaining assets properly	Monitor contractor maintenance of assets
Vehicle Repairs	Conduct Preventative Maintenance Inspections on the original equipment manufacturer (OEM) recommended Mileage Basis

Maintenance Strategy

Asset Category	Asset Class	Maintenance Activity	Frequency	Avg Duration (Hrs)	Cost
Revenue Vehicles	CU - Cutaway Bus	Preventative Maintenance	45 Days or 5,000 miles	1	\$3,500
Equipment	Non Revenue/Service Automobile	Preventative Maintenance	Every 3,000 miles	0.5	\$500

Facilities	Passenger Facilities	Preventative Maintenance	Every Quarter and proactive response to repairs and modifications	3	\$500
RevenueVehicles	BU - Bus	Preventative Maintenance	45 Days	1	\$3,500

Unplanned Maintenance Approach

Additional funds have been budgeted for facility maintenance. In regard to vehicle maintenance, the contractor is responsible for all vehicle maintenance and rehabilitation as part of their fixed and variable rate. City monitors their performance to ensure assets are being maintained properly.

Overhaul Strategy

Asset Category	Asset Class	Overhaul Strategy
RevenueVehicles	CU - Cutaway Bus	These buses do not go through a midlife overhaul. They are replaced at the 7 year or 200,000 mile mark. The City will start planning 1 year prior to replace the asset.
Equipment	Non Revenue/Service Automobile	The car does not go through a midlife overhaul. They are replaced at the 10 year or 100,000 mile mark. The City will start planning 1 year prior to replace the asset.
Facilities	Maintenance	The bus parking area is repaved every 10 years.
Facilities	Passenger Facilities	The Transit Center is renovated every 10 years. Cost is about \$200,000 to update and refresh the facility. The bus shelters and bus benches are replaced every 20 years and the cost is about \$25,000.
RevenueVehicles	BU - Bus	These buses do not go through a midlife overhaul. They are replaced at the 12 year or 500,000 mile mark. The City will start planning 1 year prior to replace the asset.

Disposal Strategy

Asset Category	Asset Class	Disposal Strategy
RevenueVehicles	CU - Cutaway Bus	Buses at the end of their useful lives (7 years) are retired according to three options: (i) salvage sale; (ii) ready reserve fleet placement; and (iii) disposal. Buses designated for ready reserve fleet placement will be delivered to the storage lot and salvage sale buses will be prepared according the City procedures on the salvage sale or disposal of assets.
Equipment	Non Revenue/Service Automobile	Cars at the end of their useful lives (10 years) are retired according to three options: (i) salvage sale and (ii) disposal.
Facilities	Passenger Facilities	The parking lot is repaved every 10 years.

Facilities	Passenger Facilities	The Transit Center is renovated every 10 years. The bus shelters and bus benches are replaced every 20 years.
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Acquisition and Renewal Strategy

Asset Category	Asset Class	Acquisition and Renewal Strategy
Revenue Vehicles	CU - Cutaway Bus	Future bus purchases will transition to heavy duty buses with longer life span and the process will start one year before replacement.
Equipment	Non Revenue/Service Automobile	Future automobile replacement will occur one year before replacement.
Facilities	Passenger Facilities	Planning of repaving of the bus parking area will occur 1 year before the project needs to occur.
Facilities	Passenger Facilities	Planning of bus shelter replacement will occur one year before replacement.

Investment Prioritization

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

Capital Investment Activity Schedules

Document Name	File Extension
Investment Priorization	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
Equipment	Non Revenue/Service Automobile	01-1174	Fusion	Ford	1	3FA6POLUXER104187	City of Manteca	2014	13,736	\$35,000.00
Facilities	Passenger Facilities	Manteca Transit Center	N/A	N/A	1	N/A	City of Manteca	2013	N/A	\$5,000,000.00
RevenueVehicles	BU - Bus	15-1182	GILLIG	Low Floor	1	15GGB3111M3197095	City of Manteca	2021	22,649	\$551,758.48
RevenueVehicles	CU - Cutaway Bus	15-1174	Champion	LF270FP	1	1FD FE4FS8HDC62229	City of Manteca	2018	57,052	\$166,015.39
RevenueVehicles	CU - Cutaway Bus	15-1175	Champion	LF270FP	1	1FD FE4FS4HDC62230	City of Manteca	2018	51,201	\$166,015.39
RevenueVehicles	CU - Cutaway Bus	15-1176	Champion	LF270FP	1	1FD FE4FS6HDC62231	City of Manteca	2018	70,802	\$166,015.39
RevenueVehicles	CU - Cutaway Bus	15-1177	Champion	LF270FP	1	1FD FE4FS8HDC62232	City of Manteca	2018	135,626	\$169,152.70
RevenueVehicles	CU - Cutaway Bus	15-1178	Champion	LF270FP	1	1FD FE4FSXHDC62233	City of Manteca	2018	140,178	\$169,152.70
RevenueVehicles	CU - Cutaway Bus	15-1179	Champion	LF270FP	1	1FD FE4FS1HDC62234	City of Manteca	2018	142,257	\$169,152.70
RevenueVehicles	CU - Cutaway Bus	15-1180	Champion	LF270FP	1	1FD FE4FS3HDC62235	City of Manteca	2018	140,469	\$169,152.70
RevenueVehicles	CU - Cutaway Bus	15-1181	Champion	LF270FP	1	1FD FE4FS5HDC62236	City of Manteca	2018	128,376	\$169,152.70

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	15-1182	1	15GGB3111M3197095	1	22,649	\$551,758.48	12	No
RevenueVehicles	CU - Cutaway Bus	15-1174	1	1FDFE4FS8HDC62229	4	57,052	\$166,015.39	7	No
RevenueVehicles	CU - Cutaway Bus	15-1175	1	1FDFE4FS4HDC62230	4	51,201	\$166,015.39	7	No
RevenueVehicles	CU - Cutaway Bus	15-1176	1	1FDFE4FS6HDC62231	4	70,802	\$166,015.39	7	No
RevenueVehicles	CU - Cutaway Bus	15-1177	1	1FDFE4FS8HDC62232	4	135,626	\$169,152.70	7	No
RevenueVehicles	CU - Cutaway Bus	15-1178	1	1FDFE4FSXHDC62233	4	140,178	\$169,152.70	7	No
RevenueVehicles	CU - Cutaway Bus	15-1179	1	1FDFE4FS1HDC62234	4	142,257	\$169,152.70	7	No
RevenueVehicles	CU - Cutaway Bus	15-1180	1	1FDFE4FS3HDC62235	4	140,469	\$169,152.70	7	No
RevenueVehicles	CU - Cutaway Bus	15-1181	1	1FDFE4FS5HDC62236	4	128,376	\$169,152.70	7	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
Equipment	Non Revenue/Service Automobile	01-1174	1	3FA6POLUXER104187	8	13,736	\$35,000.00	10	No

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
Facilities	Passenger Facilities	Manteca Transit Center	1	N/A	9	5	\$5,000,000.00

Appendix C: Proposed Investment Project List

Project Year	Project Name	Asset/Asset Class	Cost	Priority
2020	(1) CNG 35' Bus	RevenueVehicles	\$580,000.00	High

Appendix D: Fleet Replacement Module Output

Total in Current Year \$		\$0.00	\$0.00	\$0.00	\$0.00	\$1,007,857.24	\$0.00				
Total in Year of Expenditure \$		\$0.00	\$0.00	\$0.00	\$0.00	\$1,033,053.67	\$0.00				
		2023		2024		2025		2026		2027	
Fleet Type (Year/Make/Model)	Number	Cost in 2022 \$	Number	Cost in 2022 \$	Number	Cost in 2022 \$	Number	Cost in 2022 \$	Number	Cost in 2022 \$	
2018 Champion LF270FP							6	\$1,007,857.24			