



Resource Management Agency COUNTY OF TULARE AGENDA ITEM

KUYLER CROCKER
District One

PETE VANDER POEL
District Two

AMY SHUKLIAN
District Three

J. STEVEN WORTHLEY

District Four
MIKE ENNIS
District Five

AGENDA DATE: September 25, 2018

Public Hearing Required Scheduled Public Hearing w/Clerk Published Notice Required Advertised Published Notice County Counsel Sign-Off Meet & Confer Required Electronic file(s) has been sent	Yes □ N/A □ Yes □ N/A □
Budget Transfer (Aud 308) attached Personnel Resolution attached	Yes ☐ N/A ⊠ Yes ☐ N/A ⊠
Agreements are attached and signature tab(s)/flag(s)	line for Chairman is marked with Yes ☐ N/A ☐
CONTACT PERSON: Celeste Perez PHC	NE: (559) 624-7010

SUBJECT: Transit Asset Management Plan

REQUEST(S):

That the Board of Supervisors:

Approve the Transit Asset Management Plan for Tulare County Area Transit.

SUMMARY:

In response to a study that stated a significant portion of bus and rail transit assets were listed in marginal or poor condition, the Federal Transit Administration (FTA) has begun to require the use of a Transit Asset Management (TAM) plan by transit agencies that receive federal funding. A TAM is a model for asset replacement that uses the condition of assets to guide the optimal prioritization of funding at transit properties in order to keep a transit network in a State of Good Repair (SGR). Consequences of not being in a SGR include safety risks, decreased system reliability, higher maintenance costs, and lower system performance.

In 2012, the federal legislation, Moving Ahead for Progress (MAP-21) mandated that the FTA would develop a rule establishing a strategic and systematic process of operating, maintaining, and improving public capital assets effectively through their entire life cycle. The TAM is a result of that mandate. The TAM Final Rule - 49 USC 625 became effective Oct. 1, 2016 and established four performance measures, as follows:

- 1. Rolling Stock: The percentage of revenue vehicles (by type) that exceed the useful life benchmark (ULB).
- 2. Equipment: The percentage of non-revenue service vehicles (by type) that exceed the ULB.

SUBJECT:

Transit Asset Management Plan for Tulare County Area Transit

DATE:

September 25, 2018

3. Facilities: The percentage of facilities (by group) that are rated less than 3.0 on the Transit Economic Requirements Model (TERM) Scale.

4. Infrastructure: The percentage of track segments (by mode) that have performance restrictions. Track segments are measured to the nearest 0.01 of a mile.

Some of the anticipated benefits of a TAM are improved transparency and accountability, optimized capital investment and maintenance decisions, more data-driven maintenance decisions and potential safety benefits.

Staff, in conjunction with Tulare County Association of Governments, have prepared a TAM for Tulare County Area Transit (TCaT). The specific format and information required for TCaT's TAM is required by FTA and the report associated with this TAM is included as an attachment. The FTA requires that this TAM be approved by the governing entity responsible for the transit agency. Upon approval by your Board, this TAM will be submitted to Caltrans, who is the authorized representative for FTA, for review and approval.

The TAM will be valid for four years, after which an updated plan must be prepared, approved, and resubmitted to Caltrans.

FISCAL IMPACT/FINANCING:

No Net County Cost to the General Fund.

Failure to comply with the TAM could make the County ineligible for federal transit funding. Further, the TAM would provide a better model and analysis tool for use in planning for the replacement of vehicles and other transit equipment and assets. The TAM identifies a replacement schedule for TCaT assets (primarily buses). However, TCaT's ongoing bus replacement schedule already meets the requirements for FTA. Thus, practical implications of the adoption of this TAM are minimal.

LINKAGE TO THE COUNTY OF TULARE STRATEGIC BUSINESS PLAN:

This program links to Strategic Initiative 1: Safety and Security includes the goal of improving and maintaining adequate transportation infrastructure. The proposed action meets this initiative by encouraging better analysis and prediction of future transit asset needs.

ADMINISTRATIVE SIGN-OFF:

Reed Schenke, P.E.

Director

cc: County Administrative Office

Attachment(s) Transit Asset Management Plan

BEFORE THE BOARD OF SUPERVISORS COUNTY OF TULARE, STATE OF CALIFORNIA

IN THE MATTER OF TRANSIT ASSET MANAGEMENT PLAN FOR TULARE COUNTY AREA TRANSIT) Resolution No))
	OR, SECONDED BY
	FOLLOWING WAS ADOPTED BY THE BOARD
THE FOLLOWING VOTE:	_ MEETING HELD <u>SEPTEMBER 25, 2018,</u> BY
AYES: NOES: ABSTAIN: ABSENT:	
ATTEST:	MICHAEL C. SPATA COUNTY ADMINISTRATIVE OFFICER/ CLERK, BOARD OF SUPERVISORS
BY:	Deputy Clerk
* * * * * *	* * * * * * * * * *

Approved the Transit Asset Management Plan for Tulare County Area Transit.

Attachment

Transit Asset Management Plan

Tulare County Area Transit (TCaT) Transit Asset Management Plan Reed Schenke, Accountable Executive

Last modified by Teresa Ortega on 12 Sep 18 at 10:18

Introduction

The transit services under the jurisdiction of the County of Tulare operate collectively as Tulare County Area Transit (TCaT). The County currently operates four intercity/community fixed routes and five local community circulator routes. TCaT also offers a general public dial-a-ride service within four distinct service areas. The TCaT fleet consists of twenty-four (24) medium buses (cutaways). A minimum of fourteen (14) TCaT vehicles are needed on weekdays to achieve full service requirements on the fixed route and dial-a-ride services, five (5) on Saturdays and four (4) on Sundays. All TCaT vehicles are equipped with a wheelchair lift and securement system in compliance with the Americans with Disabilities Act (ADA).

Performance Targets & Measures

Asset Category - Performance Measure	Asset Class	2019 Target	2020 Target	2021 Target	2022 Target	2023 Target
REVENUE VEHICLES	'					
	AB - Articulated Bus	N/A				
	AO - Automobile	N/A				
	BR - Over-the-road Bus	N/A				
	BU - Bus	N/A				
	CU - Cutaway Bus	21%	21%	21%	25%	8%
	DB - Double Decked Bus	N/A				
Age - % of revenue vehicles	FB - Ferryboat	N/A				
within a particular asset class	MB - Mini-bus	N/A				
hat have met or exceeded	MV - Mini-van	N/A				
heir Useful Life Benchmark	RT - Rubber-tire Vintage Trolley	N/A				
ULB)	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				
QUIPMENT						
	Non Revenue/Service Automobile	N/A				
Age - % of vehicles that have	Steel Wheel Vehicles	N/A				
net or exceeded their Useful	Trucks and other Rubber Tire Vehicles	N/A				
ife Benchmark (ULB)	Generator	1%	1%	1%	1%	1%
ine Benciiniaik (OLB)	Security Enghancements	N/A				
	Security Enghancements	N/A				
ACILITIES						
	Administration	N/A				
Condition - % of facilities with	Maintenance	N/A				
condition rating below 3.0	Parking Structures	N/A				
on the FTA Transit Economic	Passenger Facilities	5%	5%	5%	5%	5%
Requirements Model (TERM)	Custom 1	N/A				
Scale	Custom 2	N/A				
	Custom 3	N/A				

Target Setting Methodology

The County is receiving two (2) new buses in FY2019 and has ordered three (3) for FY2020. These will replace other assets which have exceeded their useful life, but during this time others will also reach the end of their useful life so the percentage of assets exceeding their useful life will not change during this time.

TAM Goals and/or Objectives

Goals	Objectives			
	Participate in 5 outreach events throughout the County.			
Increase ridership by 5% in the next fiscal year.	Provide passengers with amenities including WiFi and vehicle tracking by 2019.			

Roles and Responsibilities

Department/Individual	Role (Title and/or Description)	Subrecipient
Teresa Ortega	Transit Technician	Tulare County Area Transit
Albert Barragan	Transit Manager	Tulare County Area Transit
Ross Miller	Chief Engineer	Tulare County Area Transit

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	24	6.4	330,481	\$199,315.75
AB - Articulated Bus	0	-	-	-
AO - Automobile	0	-	-	-
BR - Over-the-road Bus	0	-	-	-
BU - Bus	0	-	-	-
CU - Cutaway Bus	24	6.4	330,481	\$199,315.75
DB - Double Decked Bus	0	-	-	-
FB - Ferryboat	0	-	-	-
MB - Mini-bus	0	-	-	-
MV - Mini-van	0	-	-	-
RT - Rubber-tire Vintage Trolley	0	-	-	-
SB - School Bus	0	-	-	-
SV - Sport Utility Vehicle	0	-	-	-
TB - Trolleybus	0	-	-	-
VN - Van	0	-	-	-
Custom 1	0	-	-	-
Custom 2	0	-	-	-
Custom 3	0	-	-	-
Equipment	24	4.7	0	\$120,518.33
Non Revenue/Service Automobile	0	-	-	-
Steel Wheel Vehicles	0	-	-	-
Trucks and other Rubber Tire Vehicles	0	-	-	-
Generator	1	5.0	N/A	\$11,934.00
Security Enghancements	0	-	-	-
Security Enghancements	0	-	-	-
Facilities	50	4.1	N/A	\$5,000.00
Administration	0	-	N/A	-
Maintenance	0	-	N/A	-
Parking Structures	0	-	N/A	-
Passenger Facilities	50	4.1	N/A	\$5,000.00
Custom 1	0	-	N/A	-
Custom 2	0	-	N/A	-
Custom 3	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	
RevenueVehicles	24	6.4	330,481	N/A	\$199,315.75	67%	
AB - Articulated Bus	0	-	-	N/A	-	-	
AO - Automobile	0	-	-	N/A	-	-	
BR - Over-the-road Bus	0	-	-	N/A	-	-	
BU - Bus	0	-	-	N/A	-	-	
CU - Cutaway Bus	24	6.4	330,481	N/A	\$199,315.75	67%	
DB - Double Decked Bus	0	-	-	N/A	-	-	
FB - Ferryboat	0	-	-	N/A	-	-	
MB - Mini-bus	0	-	-	N/A	-	-	
MV - Mini-van	0	-	-	N/A	-	-	
RT - Rubber-tire Vintage Trolley	0	-	-	N/A	-	-	
SB - School Bus	0	-	-	N/A	-	-	
SV - Sport Utility Vehicle	0	-	-	N/A	-	-	
TB - Trolleybus	0	-	-	N/A	-	-	
VN - Van	0	-	-	N/A	-	-	
Custom 1	0	-	-	N/A	-	-	
Custom 2	0	-	-	N/A	-	-	
Custom 3	0	-	-	N/A	-	-	
Equipment	24	5.7	67	N/A	\$154,185.00	0%	
Non Revenue/Service Automobile	0	-	-	N/A	-	-	
Steel Wheel Vehicles	0	-	-	N/A	-	-	
Trucks and other Rubber Tire Vehicles	0	-	-	N/A	-	-	
Generator	1	5.0	200	N/A	\$112,934.00	0%	
Security Enghancements	0	-	-	N/A	-	-	
Security Enghancements	0	-	-	N/A	-	-	
Facilities	50	4.1	N/A	4.0	\$4,950.00	N/A	
Administration	0	-	N/A	-	-	N/A	
Maintenance	0	-	N/A	-	-	N/A	
Parking Structures	0	-	N/A	-	-	N/A	
Passenger Facilities	50	4.1	N/A	4.0	\$4,950.00	N/A	
Custom 1	0	-	N/A	-	-	N/A	
Custom 2	0	-	N/A	-	-	N/A	
Custom 3	0	-	N/A	-	-	N/A	

Decision Support

Investment Prioritization

The County prioritizes replacement of equipment by the age of the asset and its useful life. The County has prioritized the construction of its own transit operations and maintenance facility to allow for the proper maintenance and management of

Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
Asset Denreciation Report	A software system that uses asset inventory and condition information to generate 5 to 10-year condition forecasts.

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
Appendix D Fleet Replacement Module Output

Appendix A: Asset Register

						10/0 : 10		Acquisition	Vehicle	Replacement
Asset Category	Asset Class	Asset Name	Make	Model	Count	ID/Serial No.	Asset Owner	Year	Mileage	Cost/Value
RevenueVehicles	CU - Cutaway Bus	Bus	Chevy	AeroElite 290	1	7116	Tulare County	2009	549,861	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Chevy	Eldorado	1	7117	Tulare County	2010	541,397	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	AeroElite 320	1	7118	Tulare County	2009	504,501	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	Aerotech	1	7119	Tulare County	2009	488,498	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	Aerotech	1	7120	Tulare County	2009	516,689	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	Aerotech	1	7121	Tulare County	2009	575,343	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	AeroElite 320	1	7122		2009	568,076	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	AeroElite 320	1	7123	Tulare County	2009	507,408	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	AeroElite 320	1	7124	Tulare County	2009	537,275	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	AeroElite 320	1	7125	Tulare County	2010	278,812	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	AeroElite 320	1	7126	Tulare County	2010	262,024	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	ARBOC	1	7127	Tulare County	2012	270,078	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Glaval	1	7129	Tulare County	2012	189,797	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	ARBOC	1	7130	Tulare County	2012	289,685	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Glaval	1	7131	Tulare County	2012	149,247	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	GMC	ARBOC	1	7132	Tulare County	2013	257,597	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Aero Elite 320	1	7133	Tulare County	2013	268,289	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Aero Elite 320	1	7134	Tulare County	2013	312,666	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Aero Elite 320	1	7135	Tulare County	2013	268,819	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Aero Elite 320	1	7136	Tulare County	2013	365,661	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	Eldorado	1	7137	Tulare County	2014	126,807	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Chevy	Eldorado	1	7138	Tulare County	2014	98,678	\$200,000.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	F-550	1	7139	Tulare County	2018	2,196	\$191,789.00
RevenueVehicles	CU - Cutaway Bus	Bus	Ford	F-550	1	7140	Tulare County	2018	2,143	\$191,789.00

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	CU - Cutaway Bus	Bus	1	7116	9	549,861	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7118	9	504,501	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7119	9	488,498	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7120	9	516,689	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7121	9	575,343	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7122	9	568,076	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7123	9	507,408	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7124	9	537,275	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7117	8	541,397	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7125	8	278,812	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7126	8	262,024	\$200,000.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7127	6	270,078	\$200,000.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7129	6	189,797	\$200,000.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7130	6	289,685	\$200,000.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7131	6	149,247	\$200,000.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7132	5	257,597	\$200,000.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	Bus	1	7133	5	268,289	\$200,000.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7134	5	312,666	\$200,000.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7135	5	268,819	\$200,000.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7136	5	365,661	\$200,000.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7137	4	126,807	\$200,000.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7138	4	98,678	\$200,000.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7139		2,196	\$191,789.00	7	No
RevenueVehicles	CU - Cutaway Bus	Bus	1	7140		2,143	\$191,789.00	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
		Security							_
Equipment	Custom 2	Enhancement	3	N/A	ь		\$112,621.00	7	/
		Security							7
Equipment	Custom 3	Enhancement	20	N/A	ь		\$237,000.00	7	/
Equipment	Generator	Diesel Generator	1	R6913	5	200	\$112,934.00	20	20

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							

Appendix C: Proposed Investment Project List

Project Year	Project Name	Asset/Asset Class	Cost	Priority
2020	Transit Operations & Maintenance Facility	Facilities	\$8,501,000.00	High
2019	5339 Bus Acquisitions (2019)	RevenueVehicles	\$197,000.00	Medium
2019	5339 Bus Acquisitions (2019)	RevenueVehicles	\$197,000.00	Medium
2019	5339 Bus Acquisitions (2019)	RevenueVehicles	\$465,000.00	Medium

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 \$	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 \$
2009 Chevy AeroElite 290										
2010 Chevy Eldorado										
2009 GMC AeroElite 320										
2009 GMC Aerotech										
2010 GMC AeroElite 320										
2012 GMC ARBOC										
2012 Ford Glaval										
2013 GMC ARBOC										
2013 Ford Aero Elite 320										
2014 Ford Eldorado										
2014 Chevy Eldorado										
2018 Ford F-550										

Fleet Type (Year/Make/Model)	Number	Cost in 2018 \$								

Fleet Type (Year/Make/Model)	Number	Cost in 2018 \$								

Fleet Type (Year/Make/Model)	Number	Cost in 2018 \$								