

ColumBus Transit Asset Management Plan

Cindy Setser Transit Coordinator, Accountable Executive

Last modified by Cindy Setser on 15 Feb 19 at 10:53

Introduction

Existing service consists of ColumBus fixed route service and Call a Bus demand response shared ride service who because of a disability are unable to access the fixed route system. ColumBus service is provided on five routes on one hour headways. ColumBus now operates five buses in fixed route service, and four buses in Call A Bus service. ColumBus Transit has responsibility for managing the Transit Depot at 850 Lindsey Street, Columbus Indiana.

Performance Targets & Measures

Asset Category - Performance Measure	Asset Class	2020 Target	2021 Target	2022 Target	2023 Target	2024 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	33%	12%	12%	12%	12%
	CU - Cutaway Bus	40%	40%	40%	60%	80%
	DB - Double Decked Bus	N/A				
	FB - Ferryboat	N/A				
	MB - Mini-bus	N/A				
	MV - Mini-van	12%	12%	12%	12%	50%
	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	100%	100%	100%	100%	100%
	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	80%	80%	80%	80%	80%
	Maintenance	N/A				
	Parking Structures	N/A				
	Passenger Facilities	N/A				
	Custom 1	N/A				
	Custom 2	N/A				
Custom 3	N/A					

TAM Vision

Proper tracking of asset replacement

TAM and SGR Policy

Assets will be maintained according to policy

TAM Goals and/or Objectives

Goals	Objectives
Increase customer satisfaction by implementing bus tracking software	

About the TAM Plan

Timeline are based upon useful life

Roles and Responsibilities

Department/Individual	Role (Title and/or Description)	Subrecipient
Columbus Transit Cindy Setser	Transit Coordinator	NA
Department of Public Works Bryan B	Director of Department of Public Works	NA

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	16	6.3	193,480	\$125,669.25
<i>AB - Articulated Bus</i>	0	-	-	-
<i>AO - Automobile</i>	0	-	-	-
<i>BR - Over-the-road Bus</i>	0	-	-	-
<i>BU - Bus</i>	9	7.1	265,915	\$202,078.67
<i>CU - Cutaway Bus</i>	5	6.2	124,858	\$21,600.00
<i>DB - Double Decked Bus</i>	0	-	-	-
<i>FB - Ferryboat</i>	0	-	-	-
<i>MB - Mini-bus</i>	0	-	-	-
<i>MV - Mini-van</i>	2	2.5	39,074	\$42,000.00
<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	3	12.7	57,193	\$5,000.00
<i>Non Revenue/Service Automobile</i>	3	12.7	57,193	\$5,000.00
<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	8.0	N/A	\$600,000.00
<i>Administration</i>	1	8.0	N/A	\$600,000.00
<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
Revenue Vehicles	16	5.5	193,480	N/A	\$125,669.25
<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>	9	7.1	265,915	N/A	\$202,078.67
<i>CU - Cutaway Bus</i>	5	5.2	124,858	N/A	\$21,600.00
<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>	2	2.5	39,074	N/A	\$42,000.00
<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	3	12.0	57,193	N/A	\$5,000.00
<i>Non Revenue/Service Automobile</i>	3	12.0	57,193	N/A	\$5,000.00
<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	8.0	N/A	4.0	\$600,000.00
<i>Administration</i>	1	8.0	N/A	4.0	\$600,000.00
<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	-	-

% At or Past ULB
44%
-
-
-
56%
40%
-
-
-
0%
-
-
-
-
-
-
-
-
100%
100%
-
-
-
-
-
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Decision Support

Investment Prioritization

Replace revenue vehicle first

Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
Budget driven process	Replacement Rolling Fleet 10 year plan

Risk Management

Risk	Mitigation Strategy
Loss of City Government Funds	Revenue Increase

Maintenance Strategy

Asset Category	Asset Class	Maintenance Activity	Frequency	Avg Duration (Hrs)	Cost
RevenueVehicles	BU - Bus	PM Maintenance	Every 6000 Miles	1	\$150
RevenueVehicles	CU - Cutaway Bus	PM Maintenance	Every 3000 Miles	1	\$50
RevenueVehicles	MV - Mini-van	PM Maintenance	Every 3000 Miles	1	\$50

Unplanned Maintenance Approach

Budgetary line item for vehicle/equipment/facility repairs

Overhaul Strategy

Asset Category	Asset Class	Overhaul Strategy
RevenueVehicles	BU - Bus	Engine overhaul is completed when mileage exceeds manufacture's recommendations
RevenueVehicles	CU - Cutaway Bus	Engine overhaul is completed when mileage exceeds manufacture's recommendations
RevenueVehicles	MV - Mini-van	Engine overhaul is completed when mileage exceeds manufacture's recommendations

Disposal Strategy

Asset Category	Asset Class	Disposal Strategy
RevenueVehicles	BU - Bus	After 10 years Buses will be retired according to salvage sale
RevenueVehicles	CU - Cutaway Bus	After 7 years Cutaways will be retired according to salvage sale
RevenueVehicles	MV - Mini-van	After 7 years mini-vans will be retired according to salvage sale

Investment Prioritization

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

Appendices

[Appendix A](#)

[Appendix B1](#)

[Appendix B2](#)

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Asset Register

Revenue Vehicle (Rolling Stock) Condition Data

Equipment Condition Data

Facilities Condition Data

Proposed Investment Project List

Fleet Replacement Module Output

Appendix A: Asset Register

Asset Category	Asset Class	Asset Name	Make	Model	Count	ID/Serial No.	Asset Owner	Acquisition Year
RevenueVehicles	BU - Bus	1830 Gillig		29' Low Floor	1	15GGE2713J093342	City of Columbus	2018
RevenueVehicles	BU - Bus	1831 Gillig		29' Low Floor	1	15GGE2715J093343	City of Columbus	2018
RevenueVehicles	BU - Bus	1832 Gillig		29' Low Floor	1	15GGE2717J093344	City of Columbus	2018
RevenueVehicles	BU - Bus	1833 Gillig		29' Low Floor	1	15GGE2719J093345	City of Columbus	2018
RevenueVehicles	BU - Bus	1 Gillig		29' Low Floor	1	15GGE291471091245	City of Columbus	2007
RevenueVehicles	BU - Bus	2 Gillig		29' Low Floor	1	15GGE291971091242	City of Columbus	2007
RevenueVehicles	BU - Bus	3 Gillig		29' Low Floor	1	15GGE291071091243	City of Columbus	2007
RevenueVehicles	BU - Bus	4 Gillig		29' Low Floor	1	15GGE291671091246	City of Columbus	2007
RevenueVehicles	BU - Bus	5 Gillig		29' Low Floor	1	15GGE291271091244	City of Columbus	2007
RevenueVehicles	CU - Cutaway Bus	2 Turtle Top		Terra Transit	1	1GB/G31U471137390	City of Columbus	2007
RevenueVehicles	CU - Cutaway Bus	3 Turtle Top		Terra Transit	1	1GB/G31U071138276	City of Columbus	2007
RevenueVehicles	CU - Cutaway Bus	17 Ford - Starcraft		158 E450 Super duty	1	1FDFF4FS0GDC14108	City of Columbus	2016
RevenueVehicles	CU - Cutaway Bus	5 Elkhart		ECE	1	1FDDEE3FS4GDC46324	City of Columbus	2017
RevenueVehicles	CU - Cutaway Bus	10 Ford/Elkhart		ECE	1	1FDDEE3FS3HDC37809	City of Columbus	2017
RevenueVehicles	MV - Mini-van	8 MV-1		Auto-4DR-WHLCHR	1	57WMD2C69GM100193	City of Columbus	2016
RevenueVehicles	MV - Mini-van	9 MV-1		Auto-4DR-WHLCHR	1	57WMD2CC65GM10046	City of Columbus	2017
Equipment	Non Revenue/Service Automobile	4 Chevrolet		Uplander	1	1G8DV13WX8D211921	City of Columbus	2008
Equipment	Non Revenue/Service Automobile	6 Chevrolet		Silverado	1	2GCEK13T551363787	City of Columbus	2005
Equipment	Non Revenue/Service Automobile	Shuttle Truck		Silverado	1	1GCEK14T65Z319304	City of Columbus	2006
Facilities	Administration	Depot			0	0	0 City of Columbus	2011

Vehicle Mileage	Replacement Cost/Value
13891	448442
14358	448422
14338	448422
13860	448422
481991	5000
482955	5000
474913	5000
464329	5000
432603	5000
217059	3000
223681	3000
94201	30000
58678	30000
30669	42000
43124	42000
35024	42000
39433	5000
82567	5000
49578	5000
0	600000

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	1830	1	15GGGE2713J093342	1	13,891	\$448,422.00	10	NO
RevenueVehicles	BU - Bus	1831	1	15GGGE2715J093343	1	14,358	\$448,422.00	10	NO
RevenueVehicles	BU - Bus	1832	1	15GGGE2717J093344	1	14,338	\$448,422.00	10	NO
RevenueVehicles	BU - Bus	1833	1	15GGGE2719J093345	1	13,860	\$448,422.00	10	NO
RevenueVehicles	BU - Bus	1	1	15GGGE291471091245	11	481,991	\$5,000.00	10	YES
RevenueVehicles	BU - Bus	2	1	15GGGE291971091242	11	482,955	\$5,000.00	10	YES
RevenueVehicles	BU - Bus	3	1	15GGGE291071091243	11	474,913	\$5,000.00	10	YES
RevenueVehicles	BU - Bus	4	1	15GGGE291671091246	11	464,329	\$5,000.00	10	YES
RevenueVehicles	BU - Bus	5	1	15GGGE291271091244	11	432,603	\$5,000.00	10	YES
RevenueVehicles	CU - Cutaway Bus	2	1	1GBIG31U471137390	11	217,059	\$3,000.00	10	YES
RevenueVehicles	CU - Cutaway Bus	3	1	1GBIG31U071138276	11	223,681	\$3,000.00	10	YES
RevenueVehicles	CU - Cutaway Bus	17	1	1FDFE4FS0GDC14108	2	94,201	\$30,000.00	10	NO
RevenueVehicles	CU - Cutaway Bus	5	1	1FDEE3FS4GDC46324	1	58,678	\$30,000.00	10	NO
RevenueVehicles	CU - Cutaway Bus	10	1	1FDEE3FS3HDC37809	1	30,669	\$42,000.00	7	NO
RevenueVehicles	MV - Mini-van	8	1	57WMD2C69GM10019	2	43,124	\$42,000.00	7	NO
RevenueVehicles	MV - Mini-van	9	1	57WMD2CC65GM1004	1	35,024	\$42,000.00	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)
Equipment	Non Revenue/Service Automobile	4	1GBDV13WX8D211 1 921	10	39,433	\$5,000.00	7	
Equipment	Non Revenue/Service Automobile	6	2GCEK13T55136378 1 7	13	82,567	\$5,000.00	7	
Equipment	Non Revenue/Service Automobile	Shuttle Truck	1GCEK14T65Z31930 1 4	13	49,578	\$5,000.00	7	

Past Useful Life Benchmark
YES
YES
YES

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	Administration	Depot	1		8	4	\$600,000.00

Appendix C: Proposed Investment Project List

Project Year	Project Name	Asset/Asset Class	Cost	Priority
2019	29' Gillig Buses Acquisition	Revenue Vehicles	\$1,000,000.00	High

Appendix D: Fleet Replacement Module Output

Fleet Type (Year/Make/Model)	2020		2021		2022		2023		2024	
	Number	Cost in 2019 \$	Number	Cost in 2019 \$	Number	Cost in 2019 \$	Number	Cost in 2019 \$	Number	Cost in 2019 \$
Total in Current Year \$	\$923,854.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$42,000.00	\$0.00
Total in Year of Expenditure \$	\$933,092.54	\$0.00	\$30,000.00	\$30,000.00	\$0.00	\$42,000.00	\$0.00	\$0.00	\$42,000.00	\$0.00
2007 Gillig 29' Low Floor	3	\$15,000.00								
2018 Gillig 29' Low Floor	2	\$896,854.00								
2007 Turtle Top Terra Transit	4	\$12,000.00								
2016 Ford - Starcraft 158 E450 Super duty			1	\$30,000.00						
2017 Elkhart ECE										
2017 Ford/Elkhart ECE										
2016 MV-1 Auto-4DR-WHLCHR									1	\$42,000.00
2017 MV-1 Auto-4DR-WHLCHR										