

# ColumBus Transit Asset Management Plan

## Bryan Burton Director of Department of Public Works, Accountable Executive

Last modified by Libby Rubio on 13 Sep 22 at 16:28

### 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	2023 Target	2024 Target	2025 Target	2026 Target	2027 Target
<b>REVENUE VEHICLES</b>						
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	90%	80%	70%	60%	50%
	CU - Cutaway Bus	58%	44%	30%	16%	2%
	DB - Double Decked Bus	N/A				
	FB - Ferryboat	N/A				
	MB - Mini-bus	N/A				
	MV - Mini-van	58%	44%	30%	16%	2%
	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					
<b>EQUIPMENT</b>						
Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	Non Revenue/Service Automobile	50%	50%	50%	50%	50%
	Steel Wheel Vehicles	N/A				
	Trucks and other Rubber Tire Vehicles	44%	30%	16%	2%	
	Custom 1	N/A				
	Custom 2	N/A				
Custom 3	N/A					
<b>FACILITIES</b>						
Condition - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	Administration	100%	100%	100%	100%	100%
	Maintenance	100%	100%	100%	100%	100%
	Parking Structures	N/A				
	Passenger Facilities	N/A				
	Custom 1	N/A				
Custom 2	N/A					
Custom 3	N/A					

## Roles and Responsibilities

<b>Department/Individual</b>	<b>Role (Title and/or Description)</b>	<b>Subrecipient</b>
DPW/ Bryan Burton	Director of DPW	NA
ColumBus Transit/Libby Rubio	Operations Assistant	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
<b>Revenue Vehicles</b>	<b>14</b>	<b>5.1</b>	<b>110,819</b>	<b>\$213,823.71</b>
<i>AB - Articulated Bus</i>	0	-	-	-
<i>AO - Automobile</i>	0	-	-	-
<i>BR - Over-the-road Bus</i>	0	-	-	-
<i>BU - Bus</i>	7	5.0	155,924	\$385,076.00
<i>CU - Cutaway Bus</i>	6	5.2	64,564	\$42,666.67
<i>DB - Double Decked Bus</i>	0	-	-	-
<i>FB - Ferryboat</i>	0	-	-	-
<i>MB - Mini-bus</i>	0	-	-	-
<i>MV - Mini-van</i>	1	6.0	72,614	\$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	-	-	-
<b>Equipment</b>	<b>3</b>	<b>11.0</b>	<b>95,982</b>	<b>\$31,733.67</b>
<i>Non Revenue/Service Automobile</i>	2	14.5	134,042	\$3,000.00
<i>Steel Wheel Vehicles</i>	0	-	-	-
<i>Trucks and other Rubber Tire Vehicles</i>	1	4.0	19,864	\$89,201.00
<i>Custom 1</i>	0	-	-	-
<i>Custom 2</i>	0	-	-	-
<i>Custom 3</i>	0	-	-	-
<b>Facilities</b>	<b>1</b>	<b>30.5</b>	<b>N/A</b>	<b>\$700,000.00</b>
<i>Administration</i>	1	11.0	N/A	\$600,000.00
<i>Maintenance</i>	1	50.0	N/A	\$800,000.00
<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
<b>Revenue Vehicles</b>	<b>14</b>	<b>5.9</b>	<b>114,204</b>	<b>N/A</b>	<b>\$182,007.86</b>	<b>7%</b>
<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>	6	5.2	152,530	N/A	\$374,518.33	0%
<i>CU - Cutaway Bus</i>	7	6.4	87,295	N/A	\$37,000.00	14%
<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>	1	6.0	72,614	N/A	\$42,000.00	0%
<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	-	-
<b>Equipment</b>	<b>3</b>	<b>11.3</b>	<b>95,982</b>	<b>N/A</b>	<b>\$3,000.00</b>	<b>33%</b>
<i>Non Revenue/Service Automobile</i>	2	9.5	32,133	N/A	\$3,000.00	50%
<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	-	-
<b>Facilities</b>	<b>2</b>	<b>31.0</b>	<b>N/A</b>	<b>2.8</b>	<b>\$700,000.00</b>	<b>N/A</b>
<i>Administration</i>	1	12.0	N/A	3.5	\$600,000.00	N/A
<i>Maintenance</i>	1	50.0	N/A	2.0	\$800,000.00	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

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 7500 Miles	1	\$75
RevenueVehicles	MV - Mini-van	PM Maintenance	Every 5000 Miles	1	\$75

### 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](#)

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	4	Chevrolet	Uplander	1	1GBDV13WX8D211921	City of Columbus	2008	44,402	\$3,000.00
Facilities	Administration	Transit Depot					City of Columbus	2011	N A	\$600,000.00
RevenueVehicles	BU - Bus	629	Gillig	29' Low Floor	1	15GGE291861090999	City of Columbus	2009	219,535	\$5,000.00
RevenueVehicles	BU - Bus	1830	Gillig	29' Low Floor	1	15GGE2713J3093342	City of Columbus	2018	123,976	\$448,422.00
RevenueVehicles	BU - Bus	1831	Gillig	29' Low Floor	1	15GGE2715J3093343	City of Columbus	2018	173,548	\$448,422.00
RevenueVehicles	BU - Bus	1832	Gillig	29' Low Floor	1	15GGE2717J3093344	City of Columbus	2018	176,293	\$448,422.00
RevenueVehicles	BU - Bus	1833	Gillig	29' Low Floor	1	15GGE2719J3093345	City of Columbus	2018	173,452	\$448,422.00
RevenueVehicles	BU - Bus	1934	Gillig	29' Low Floor	1	15GGE2715K3093262	City of Columbus	2019	112,156	\$448,422.00
RevenueVehicles	BU - Bus	1935	Gillig	29' Low Floor	1	15GGE2715K3093263	City of Columbus	2019	112,510	\$448,422.00
RevenueVehicles	CU - Cutaway Bus	2	Turtle Top	Terra Transit	1	1GBJG31U471137390	City of Columbus	2007	217,059	\$3,000.00
RevenueVehicles	CU - Cutaway Bus	3	Turtle Top	Terra Transit	1	1GBJG31U071138276	City of Columbus	2007	223,681	\$3,000.00
RevenueVehicles	CU - Cutaway Bus	5	Elkhart	ECE	1	1FDEE3F54GDC46324	City of Columbus	2017	109,838	\$30,000.00
RevenueVehicles	CU - Cutaway Bus	10	Ford/Elkhart	ECE	1	1FDEE3F53HDC37809	City of Columbus	2017	91,665	\$42,000.00
RevenueVehicles	CU - Cutaway Bus	11	Elkhart	ECE	1	1FDWE35L59DA25087	City of Columbus	2009	43,124	\$3,000.00
RevenueVehicles	CU - Cutaway Bus	12	Ford/Elkhart	ECE	1	1FDEE3FN7NDC08223	City of Columbus	2021	17,671	\$72,000.00
RevenueVehicles	CU - Cutaway Bus	13	Ford/Elkhart	ECE	1	1FDEE3FN9NDC08824	City of Columbus	2021	16,051	\$79,000.00
RevenueVehicles	CU - Cutaway Bus	17	Ford - Starcraft	158 E450 Super duty	1	1FDWE4FS0GDC14108	City of Columbus	2016	109,034	\$30,000.00
RevenueVehicles	MV - Mini-van	8	MV-1	Auto-4DR-WHLCHR	1	57WMD2C69GM100193	City of Columbus	2016	72,614	\$42,000.00

## 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	1830	1	15GGE2713J3093342	4	123976	448422	10	NO
RevenueVehicles	BU - Bus	1831	1	15GGE2715J3093343	4	173548	448422	10	NO
RevenueVehicles	BU - Bus	1833	1	15GGE2719J3093345	4	173452	448422	10	NO
RevenueVehicles	BU - Bus	1934	1	15GGE2715K3093262	3	112156	448422	10	NO
RevenueVehicles	BU - Bus	1935	1	15GGE2715K3093263	3	112510	448422	10	NO
RevenueVehicles	BU - Bus	629	1	15GGE291861090999	13	219535	5000	10	NO
RevenueVehicles	CU - Cutaway Bus	12	1	1FDEE3FN7NDC08223	1	17671	72000	7	NO
RevenueVehicles	CU - Cutaway Bus	13	1	1FDEE3FN9NDC08824	1	16051	79000	7	NO
RevenueVehicles	CU - Cutaway Bus	3	1	1GBJG31U071138276	15	223681	3000	7	NO
RevenueVehicles	CU - Cutaway Bus	17	1	1FD4E4FS0GDC14108	6	109034	30000	7	NO
RevenueVehicles	CU - Cutaway Bus	5	1	1FDEE3FS4GDC46324	5	109838	30000	7	NO
RevenueVehicles	CU - Cutaway Bus	10	1	1FDEE3FS3HDC37809	5	91665	42000	7	NO
RevenueVehicles	MV - Mini-van	8	1	57WMD2C69GM10019 3	6	72614	42000	7	NO
RevenueVehicles	CU - Cutaway Bus	11	1	1FDWE35L59DA25087	12	43124	3000	7	Yes



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		4	1GBDV13WX8D211 921	15	44,402	\$3,000.00	7	Yes
Equipment	Non Revenue/Service Automobile		18	13C7WRLEL1JG1183 05	4	19,864	\$3,000.00	7	No
Equipment	CU - Cutaway Bus		3	11GBJG31U0711382 76	15	223,681	\$3,000.00	7	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	Administration	Depot	1		12	3.5	\$600,000.00
Facilities	Maintenance	Garage	1		50	2	\$800,000.00

Appendix C: Proposed Investment Project List

Project Year	Project Name	Asset/Asset Class	Cost	Priority
2024	29' Gillig Buses Acquisition	RevenueVehicles	\$550,000.00	High
2024	29' Gillig Buses Acquisition	RevenueVehicles	\$550,000.00	High
2023	Elkhart Coach Acquisition	RevenueVehicles	\$100,000.00	High
2023	Elkhart Coach Acquisition	RevenueVehicles	\$100,000.00	High

Appendix D: Fleet Replacement Module Output

<b>Total in Current Year \$</b>		<b>\$1,199,844.00</b>		<b>\$1,199,844.00</b>		<b>\$1,169,844.00</b>		<b>\$1,169,844.00</b>		<b>\$1,169,844.00</b>	
<b>Total in Year of Expenditure \$</b>		<b>\$1,199,844.00</b>		<b>\$1,199,844.00</b>		<b>\$1,169,844.00</b>		<b>\$1,169,844.00</b>		<b>\$1,169,844.00</b>	
		<b>2023</b>		<b>2024</b>		<b>2025</b>		<b>2026</b>		<b>2027</b>	
<b>Fleet Type (Year/Make/Model)</b>	<b>Number</b>	<b>Cost in 2022 \$</b>	<b>Number</b>	<b>Cost in 2022 \$</b>	<b>Number</b>	<b>Cost in 2022 \$</b>	<b>Number</b>	<b>Cost in 2022 \$</b>	<b>Number</b>	<b>Cost in 2022 \$</b>	
2018 Gillig 29' Low Floor	4		4		4		4		4		
2019 Gillig 29' Low Floor	2	\$896,844.00	2	\$896,844.00	2	\$896,844.00	2	\$896,844.00	2	\$896,844.00	
2009 Gillig 29' Low Floor	1	\$5,000.00	1	\$5,000.00	1	\$5,000.00	1	\$5,000.00	1	\$5,000.00	
2021 Ford/Elkhart ECE	2	\$151,000.00	2	\$151,000.00	2	\$151,000.00	2	\$151,000.00	2	\$151,000.00	
2007 Turtle Top Terra Transit	2		2								
2016 Ford - Starcraft 158 E450 Super duty	1	\$30,000.00	1	\$30,000.00							
2017 Elkhart ECE	1	\$30,000.00	1	\$30,000.00	1	\$30,000.00	1	\$30,000.00	1	\$30,000.00	
2017 Ford/Elkhart ECE	1	\$42,000.00	1	\$42,000.00	1	\$42,000.00	1	\$42,000.00	1	\$42,000.00	
2016 MV-1 Auto-4DR-WHLCHR	1	\$42,000.00	1	\$42,000.00	1	\$42,000.00	1	\$42,000.00	1	\$42,000.00	
2009 Elkhart ECE	1	\$3,000.00	1	\$3,000.00	1	\$3,000.00	1	\$3,000.00	1	\$3,000.00	