

GoTriangle Transit Asset Management Plan

Focusing on the Management of Our Transit Investments



Latest Revision: August 2018

FTA Transit Asset Management Guide for Small Providers

Part II – Transit Asset Management (TAM) Plan Template

This Transit Asset Management Plan (TAM plan) template has been provided as a tool to assist small transit providers and their state Departments of Transportation (DOTs) in developing their TAM Plans according to best practice and in alignment with MAP-21 requirements. This template is not a tool to meet MAP-21 compliance; it is simply a technical assistance guide.

Text in these boxes throughout the template provides some additional information to differentiate between state DOT and small provider use of the template.

Who Should Use the Template?

The tool is designed for two demographics: (1) state DOTs developing plans for subrecipient agencies, and (2) small transit providers developing their own individual plans. For state DOTs developing a TAM plan for subrecipients, the template can be used as a data collection tool to consolidate information from subrecipients to produce a comprehensive plan. For individual small providers, a completed template will give you a TAM plan that can be modified as desired.

Personnel most knowledgeable about your agency’s assets and responsible for implementing internal processes to manage assets (e.g., procurement, maintenance, compliance, etc.) should complete the template. The completed template should then be reviewed by your organization’s designated senior manager or executive to ensure that the necessary resources are available to carry out the Plan.

Navigating Through The Tool

Beginning a New Plan

Begin a new plan by saving a copy of this template. Go to **File -> Save As**. Include your agency name or other descriptors in the filename. **Ensure that you have enabled all macros** for the tool to work correctly. You may use the Excel Help feature for assistance with this.

Workbook Structure

The tool is organized into sections following the format of a TAM plan. There are two (2) introductory/reference tabs, five (5) yellow tabs for each section of your Plan, and seven (7) green output tabs that can be printed using controls in the sheet or copied into a Microsoft Word document. The key below summarizes the use of each tab type. It is best to view the pages in the tool in "**Page Layout**" view (select this from the leftmost section in the "**View**" menu at the top of the screen). Navigate between pages using the buttons at the bottom of each sheet. A description of each worksheet is provided in the next section for guidance.

TAB COLOR KEY

Data Entry
Output
Intro/Reference

Worksheet Descriptions

Getting Started: An introductory page to help you begin using the template. The information entered in this sheet will not be included in the final output.

Introduction: Accepts information for the first section in your TAM Plan providing an introduction to your agency's approach to asset management.

Asset Portfolio: Data entry sheet for your capital asset inventory. This is also known as the asset register.

Condition Assessment: Pulls information from the inventory list and accepts additional details to develop an asset condition summary.

Management Approach: Accepts information on the strategies, processes, and activities needed over your asset lifecycles.

Work Plans & Schedules: Data entry sheet for the specific activities and projects over the horizon period of the TAM Plan to maintain a state of good repair or enhance asset condition.

TAM Plan & Appendices: Displays all the information entered in the template. Do not enter information into these sheets. You can print a completed TAM Plan using the controls on the "TAM Plan" sheet.

Data Entry

Information should only be entered in light yellow shaded cells as shown in the key below. The questions on each Data Entry sheet are presented in two sections. The first group of questions request information that is required by MAP-21 ("**Compliant**"). The second group include additional information for a more complete TAM plan closely aligned to international best practice and standards ("**Comprehensive**"). Use the buttons below to develop a basic Compliant plan, if desired.

After completing each sheet, click the "**Continue**" button to record your responses and navigate to the next section. You may save your progress and return to the tool at any time by using the "**Save**" buttons on each sheet. The "**Back**" button will take you to the previous sheet but will not erase your progress. On the last data entry page, click "**Finish**" to generate a PDF of your completed plan. Note that the PDF generated will only include questions from the "**Compliant**" section and those in the "**Comprehensive**" section for which a response was provided.

DATA ENTRY KEY:

Input Cell

Error

Unless you are a State DOT customizing the tool for your subrecipients, do not make any changes except in the input cells. Do not hide or unhide any cells.

Getting Started

The following information is for reference purposes and document control. Please be sure to complete these fields before proceeding with the tool.

Agency Name:

Last Modified By (your name):

Last Modified:

Related Documents

As a first step, there are a number of documents that may be helpful in facilitating development of your TAM plan, if you have them. Please indicate below by using the dropdown menus where this information is available. While your agency may not have the specifically named reports, you may have the information stored in other formats. If not available, the information can be collected through workshops or conversations with staff.

Select a response from the drop down menu:

Asset register or inventory information including for spare parts or equipment	Have
Routine checklist for inspections or other preventive maintenance activities	Have
Reports or information on asset condition	Have
Original Equipment Manufacturer (OEM) Manual	Have
Warranty information for any asset types	Have
Fleet management plan or documentation on how you manage your fleet	Have
Facilities management plan or documentation on how you manage your facilities	Have
Work plans or schedules (preventive maintenance schedules and/or reports)	Have
Trouble log (information on asset defects, faults, and/or unplanned maintenance)	Have
Any documentation related to risks and/or risk management	Have
Standard operating procedures (SOPs)	Have
Asset transition (or hand over) protocol or policy	Have

Introduction

****COMPLIANT****

Provide a brief overview of/introduction to your agency. You may include general information including state geography, demographics, interdependencies between asset classes, etc. The TAM Plan will cover all equipment that cost over \$50,000.00

Research Triangle Regional Public Transportation Authority, DBA GoTriangle, is a regional transit agency in North Carolina. We service a three county area that includes Durham, Orange and Wake counties. We also operate a regional paratransit and vanpool program.

Performance Targets & Measures: What are the annual targets set for the FTA performance measures? Refer to Part I of the Guide for definitions of the performance measures and information on how to set targets. Provide your targets in the table below.

Asset Category	Performance Measure	Target
Rolling Stock <i>All revenue vehicles</i>	Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	13%
Equipment <i>Non-revenue vehicles</i>	Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	22%
Facilities <i>All buildings or structures</i>	Condition - % of facilities with a condition rating below 3.0 on a the FTA Transit Economic Requirements Model (TERM) Scale	0%

For State DOTs:

You may set targets for your subrecipients. If you choose to do so, click the "Hide Targets" button below before you send the template out. You may leave this question to obtain input from subrecipients on appropriate targets.

You may provide text explaining the methods used in setting the targets here:

Within our rolling stock of revenue vehicles there are vans for the vanpool program, LTV's for the paratransit service and buses for the fixed route service. Our method for setting targets is relatively straight forward, 10% of each asset class vehicles may meet or exceed their ULB. Facilities must

****These buttons are for State DOT use only****

****COMPREHENSIVE****

For State DOTs: The following foundational pieces (vision, state of good repair policy, goals, and objectives) can be established by the State for all subrecipients but should be determined in collaboration with them. Consider their needs as well as their ability to achieve and/or comply. If you choose to establish them for your subrecipients, use the "Hide" and "Show" buttons as necessary.

TAM Vision: What do you ultimately hope to achieve with your TAM system? What is the broader goal?

We hope to decrease maintenance cost, improve the safety, reliability and performance of our assets over their useful life.

****These buttons are for State DOT use only****

TAM and SGR Policy: What is your agency’s TAM and/or State of Good Repair (SGR) policy? Here, you can document expectations for your employees and demonstrate executive-level direction to support the goals of the TAM system. This can be a short statement or a detailed policy. You may also attach a policy document in the appendix of the TAM plan.

GoTriangle is committed to maintaining a safe environment for its riders and employees. To insure that vehicles and facilities remain in a state of good repair, funds will be provided each year to make sure all repairs and preventative maintenance are successfully addressed for our assets.

****These buttons are for State DOT use only****

TAM Goals and/or Objectives: Based on your vision, what are your specific, measurable, achievable, realistic, and time-bound (S.M.A.R.T.) goals? What measurable steps (objectives) will you take to achieve the goals? This should be written in tabular format as shown below. The table includes an example goal and associated objectives. Use the buttons shown on the right.

Goals	Objectives
Increase customer satisfaction score by 20 percent in fiscal year.	Respond to customer feedback from past survey by mid-fiscal year.
	Respond to customer complaints through Zendesk within one week of complaint.
Increase vehicle readiness by 5%	Complete all PM's on time 100%

Decrease roadcalls by 5%	Provide additional operator training regarding pre & post trip inspections

About the TAM Plan: Provide an overview of the TAM Plan describing the contents and structure. What time horizon does the document cover and what are the expected update and improvement timelines?

For State DOTs: You may specify TAM Plan contents, structure, and time horizon for subrecipients. If you choose to do so, hide this question.

The inventory in this includes vehicles from Bus, Paratransit and the Vanpool program. Additionally, it includes the Bus Operations and Maintenance building, RTC ticket building and the Administration building. You will find yearly goals and targets in this plan to help identify replacements, overhauls, disposal of equipment and building assets. The plan will be updated each year in conjunction with the

****These buttons are for State DOT use only****

Roles and Responsibilities: What roles have been assigned to your employees to achieve the goals of the TAM system? Who owns the TAM Plan and is responsible for monitoring and updating it? Who is your accountable executive? Click "Add More" only after all yellow cells are filled.

For Small Providers: If you are developing an individual plan, you may ignore the third column in this table.

Department/Individual	Role (Title and/or Description)	Subrecipient
Patrick Stephens / Brian Mclean	Transit Director / Fleet Maintenance Manager	Bus Agency
Gary Tober	Real Estate Manager	Bus Agency
Saundra Freeman	Accountable Executive	Bus Agency

Asset Portfolio

****COMPLIANT****

Asset Inventory Listing: To complete the inventory list, use the following steps:

1. On the table to the right, list all the capital assets that you own, operate, or manage that support the delivery of public transportation services. This should include leased assets, assets operated under contract, and all assets that would be included in a program of projects. You may include assets acquired without FTA funds. Complete the table and use the drop down menus where provided. An example is shown for guidance.
2. Click the "Add More" button only after some yellow cells are filled.
3. Be sure to click "Finish" when complete.
4. Click the "Summarize" button to populate the summary table.
5. Click "Continue" to proceed to the next sheet.

Asset Category	Total Number	Avg Age	Avg Value
Equipment	9	5.222222	\$28,944.44
Facilities	4	33	\$4,637,750.00

Inventory Table

Asset Category	Asset Class	Asset Name	Make	Model	ID/Serial No.	Asset Owner	Age (Yrs)	Replacement Cost/Value
Facilities	Administration	Raleigh Office	n/a	n/a	Raleigh	Agency	80	\$2,000,000.00
Facilities	Bus and Maintenance Facility	BOMF	n/a	n/a	BOMF	Agency	18	\$12,500,000.00
Facilities	Passenger waiting Facility	Ticket Building	n/a	n/a	TickBldg	Agency	1	\$277,000.00
Facilities	Administration	Plaza	n/a	n/a	Plaza	Agency	33	\$3,774,000.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4101	Agency	7	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4103	Agency	7	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4104	Agency	7	\$72,362.00
Rolling Stock	Paratransit	LTV	Ford	E-350	4301	Agency	5	\$72,362.00
Rolling Stock	Paratransit	LTV	Ford	E-350	4302	Agency	5	\$72,362.00
Rolling Stock	Paratransit	LTV	Ford	E-350	4303	Agency	5	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4304	Agency	5	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4305	Agency	5	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4306	Agency	5	\$72,362.00

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Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4603	Agency	2	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4604	Agency	2	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4605	Agency	2	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4606	Agency	2	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4607	Agency	2	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4711	Agency	1	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4712	Agency	1	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4713	Agency	1	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4714	Agency	1	\$72,362.00
Rolling Stock	Paratransit Vehicle	LTV	Ford	E-350	4715	Agency	1	\$72,362.00
Rolling Stock	Paratransit Vehicle	Light Duty Transit	Goshen	25 ft	3801	Agency	10	\$72,362.00
Rolling Stock	Paratransit Vehicle	Light Duty Transit	Goshen	25 ft	3802	Agency	10	\$72,362.00
Rolling Stock	Paratransit Vehicle	Light Duty Transit	Goshen	25 ft	3803	Agency	10	\$72,362.00
Rolling Stock	Paratransit Vehicle	Light Duty Transit	Goshen	25 ft	3804	Agency	10	\$72,362.00
Rolling Stock	Paratransit Vehicle	Light Duty Transit	Goshen	25 ft	3805	Agency	10	\$72,362.00
Rolling Stock	Bus	Heavy Duty Transit	Orion	40 Ft	2609	Agency	11	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Orion	40 Ft	2610	Agency	11	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Orion	40 Ft	2611	Agency	11	\$462,200.00

Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2823	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2825	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2826	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2827	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2828	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2829	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2830	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2831	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2832	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2833	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2834	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2835	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2836	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2837	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2838	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2839	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2840	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2841	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2842	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	35 ft	2843	Agency	10	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2901	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2902	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2903	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2904	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2905	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2906	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2907	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2908	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2909	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2910	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2911	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2912	Agency	9	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2016	Agency	8	\$462,200.00

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Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2017	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2018	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2019	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2020	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2021	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2022	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2023	Agency	8	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2114	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2115	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2116	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2117	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2118	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2119	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2120	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2121	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2122	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2123	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2124	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2125	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2126	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2127	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2128	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2129	Agency	7	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2701	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2702	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2703	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2704	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2705	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2706	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2707	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2708	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2709	Agency	1	\$462,200.00
Rolling Stock	Bus	Heavy Duty Transit	Gillig	40 ft	2710	Agency	1	\$462,200.00

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Equipment	Maintenance Vehicle	Truck	Ford	F-350	2200	Agency	6	\$40,000.00
Equipment	Maintenance Vehicle	Truck	Ford	F-350	2600	Agency	12	\$40,000.00
Equipment	Supervisor Vehicle	SUV	Chevrolet	Trailblazer	61	Agency	12	\$26,000.00
Equipment	Maintenance Vehicle	Truck	Ford	F-150	10	Agency	8	\$24,000.00
Equipment	Maintenance Vehicle	Truck	Ford	F-250	2601	Agency	2	\$26,000.00
Equipment	Supervisor Vehicle	SUV	Nissan	Pathfinder	2602	Agency	2	\$25,500.00
Equipment	Supervisor Vehicle	Mini Van	Dodge	Caravan	4600	Agency	2	\$44,000.00
Equipment	Staff Car	Car	Ford	Fusion	6601	Agency	2	\$17,500.00
Equipment	Staff Car	Car	Ford	Fusion	6701	Agency	1	\$17,500.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	571	Agency	10	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	572	Agency	10	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Chevrolet	Uplander	585	Agency	9	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Chevrolet	Uplander	586	Agency	9	\$22,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	587	Agency	9	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	588	Agency	9	\$30,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	1937	Agency	10	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	1938	Agency	10	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5001	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5002	Agency	7	\$22,000.00

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Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5003	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5004	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5010	Agency	6	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5101	Agency	6	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5102	Agency	6	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5103	Agency	6	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5104	Agency	6	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5201	Agency	5	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5202	Agency	5	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5203	Agency	5	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5204	Agency	5	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5301	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5302	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5303	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5304	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5305	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5306	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5307	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5308	Agency	4	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5401	Agency	3	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5402	Agency	3	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5810	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5812	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5813	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5815	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5816	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5901	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5904	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5906	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5907	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5908	Agency	7	\$30,000.00

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Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5910	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5911	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5912	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Mini Van	Dodge	Grand Caravan	5913	Agency	7	\$22,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5914	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5915	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5916	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5917	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5918	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5919	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5921	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5922	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5923	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5925	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	E-350	5926	Agency	7	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5501	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5502	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5503	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5504	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5505	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5506	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 250	5507	Agency	2	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5601	Agency	1	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5603	Agency	1	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5604	Agency	1	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5701	Agency	0	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5702	Agency	0	\$30,000.00
Rolling Stock	Vanpool Van	Van	Ford	Transit 350	5703	Agency	0	\$30,000.00



Condition Assessment

****COMPLIANT****

Asset Condition: What condition are your assets in to run the services required? How does the actual condition compare to the target set for the assets? The tables to the right are automatically populated based on your inventory on the previous sheet. There is one table for each asset category (three total). Scroll to the right to view all tables.

Complete the tables by filling in the input cells with the Useful Life Benchmark for each asset. Refer to Section 3.1.1 of Part I for an explanation of the Useful Life Benchmark.

Asset Condition Summary: Click the "Summarize" button to update the summary table to calculate the percent of

Equipment	8	4.25	N/A	\$29,562.50	12.50%
Facilities	3	17.33333	3.333333333	\$5,517,000.00	0.00%
Rolling Stock	141	7.29078	N/A	\$215,100.72	17.73%

Equipment Condition Table

***Age is the surrogate performance measure for condition as determined by the FTA.*

Asset Category	Asset Class	Asset Name	ID/Serial No.	Age (Yrs)	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
	Maintenance \ Truck		2200	6	\$40,000.00	10	No
	Maintenance \ Truck		2600	12	\$40,000.00	10	Yes
	Supervisor Vel SUV		61	8	\$26,000.00	10	No
	Maintenance \ Truck		2601	2	\$26,000.00	10	No
	Supervisor Vel SUV		2602	2	\$25,500.00	10	No
	Supervisor Vel Mini Van		4600	2	\$44,000.00	10	No
Equipment	Staff Car	Car	6601	1	\$17,500.00	10	No
Equipment	Staff Car	Car	6701	1	\$17,500.00	10	No

Facilities Condition Table

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Asset Category	Asset Class	Asset Name	ID/Serial No.	Age (Yrs)	TERM Scale Condition	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
Agency	Bus Operations & Maintenance Facility	BOMF	BOMF	18	3	\$12,500,000.00	35	No
Agency	Passenger waiting	Ticket Building	TickBldg	1	4	\$277,000.00	50	No
Agency	Administration	Plaza	Plaza	33	3	\$3,774,000.00	50	No

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◀ Condition Table

Proagate performance measure for condition as determined by the FTA.

Asset Class	Asset Name	ID/Serial No.	Age (Yrs)	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
Paratransit Ve LTV		4101	7	\$72,362.00	5	Yes
Paratransit Ve LTV		4103	7	\$72,362.00	5	Yes
Paratransit Ve LTV		4104	7	\$72,362.00	5	Yes
Paratransit Ve LTV		4301	5	\$72,362.00	5	Yes
Paratransit Ve LTV		4302	5	\$72,362.00	5	Yes
Paratransit Ve LTV		4303	5	\$72,362.00	5	Yes
Paratransit Ve LTV		4304	5	\$72,362.00	5	Yes
Paratransit Ve LTV		4305	5	\$72,362.00	5	Yes
Paratransit Ve LTV		4306	5	\$72,362.00	5	Yes
Paratransit Ve LTV		4606	2	\$72,362.00	5	No
Paratransit Ve LTV		4607	2	\$72,362.00	5	No
Paratransit Ve Light Duty Transit		3801	10	\$72,362.00	5	Yes
Paratransit Ve Light Duty Transit		3802	10	\$72,362.00	5	Yes
Paratransit Ve Light Duty Transit		3803	10	\$72,362.00	5	Yes
Paratransit Ve LTV		4711	1	\$74,000.00	5	No
Paratransit Ve LTV		4712	1	\$74,000.00	5	No
Paratransit Ve LTV		4713	1	\$74,000.00	5	No
Paratransit Ve LTV		4714	1	\$74,000.00	5	No
Paratransit Ve LTV		4715	1	\$74,000.00	5	No
Paratransit Ve Light Duty Transit		3801	9	\$72,362.00	7	No
Paratransit Ve Light Duty Transit		3802	9	\$72,362.00	7	No
Paratransit Ve Light Duty Transit		3803	9	\$72,362.00	7	No
Paratransit Ve Light Duty Transit		3804	9	\$72,362.00	7	No
Paratransit Ve Light Duty Transit		3805	9	\$72,362.00	7	No
Paratransit Ve Light Duty Transit		3804	9	\$72,362.00	7	Yes

FTA Transit Asset Management Guide for Small Providers

Paratransit Ve	Light Duty Transit	3805	10	\$72,362.00	12	No
Bus	Heavy Duty Transit	2823	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2833	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2834	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2835	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2836	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2837	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2838	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2839	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2840	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2841	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2842	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2843	10	\$462,200.00	12	No
Bus	Heavy Duty Transit	2901	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2902	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2903	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2904	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2905	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2906	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2907	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2908	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2909	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2910	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2911	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2912	9	\$462,200.00	12	No
Bus	Heavy Duty Transit	2016	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2017	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2018	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2019	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2020	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2021	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2022	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2023	8	\$462,200.00	12	No
Bus	Heavy Duty Transit	2114	7	\$462,200.00	12	No

FTA Transit Asset Management Guide for Small Providers

Bus	Heavy Duty Transit	2115	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2116	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2117	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2118	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2119	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2120	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2121	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2122	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2123	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2124	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2125	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2126	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2127	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2128	7	\$462,200.00	12	No
Bus	Heavy Duty Transit	2129	7	\$462,200.00	12	No
Vanpool Van	Mini Van	571	10	\$22,000.00	12	No
Vanpool Van	Mini Van	572	10	\$22,000.00	12	No
Vanpool Van	Mini Van	585	9	\$22,000.00	12	No
Vanpool Van	Mini Van	586	9	\$22,000.00	12	No
Vanpool Van	Van	587	9	\$30,000.00	12	No
Vanpool Van	Van	588	9	\$30,000.00	12	No
Vanpool Van	Mini Van	1937	10	\$22,000.00	12	No
Vanpool Van	Mini Van	1938	10	\$22,000.00	12	No
Vanpool Van	Mini Van	5001	7	\$22,000.00	12	No
Bus	Heavy Duty Transit	2701	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2702	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2703	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2704	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2705	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2706	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2707	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2708	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2709	1	\$464,000.00	12	No
Bus	Heavy Duty Transit	2710	1	\$464,000.00	12	No

FTA Transit Asset Management Guide for Small Providers

Vanpool Van	Mini Van	5002	11	\$22,000.00	10 Yes
Vanpool Van	Mini Van	5003	11	\$22,000.00	10 Yes
Vanpool Van	Van	5101	10	\$30,000.00	10 Yes
Vanpool Van	Van	5102	10	\$30,000.00	10 Yes
Vanpool Van	Van	5103	10	\$30,000.00	10 Yes
Vanpool Van	Van	5201	11	\$30,000.00	10 Yes
Vanpool Van	Van	5202	11	\$30,000.00	10 Yes
Vanpool Van	Van	5203	8	\$30,000.00	10 No
Vanpool Van	Van	5204	8	\$30,000.00	10 No

Management Approach

NOTE: Complete some yellow cells before clicking "Add More" under each question.

****COMPLIANT****

Decision Support: List and briefly describe the processes and/or tools in place to support investment decision-making, including project selection and prioritization. Enter this information in the table below. Click the button to add more rows.

Process/Tool	Brief Description
Example Asset Condition Information System	A software system that uses asset inventory and condition information to generate 5 to 10-year condition forecasts.
Trapeze Asset Management System (EAM)	A software system that tracks inventory, maintenance cost, condition, etc. Asset management software.
Road breakdown analysis	Analysis is used to monitor the reliability of all vehicles. We use various trends to implement campaigns.
Track system trend analysis on building systems via spreadsheet and Asset Management Software	Based on regular maintenance and inspections.

Investment Prioritization: How do you determine what priority investments are needed in order to maintain a state of good repair? Describe your agency's investment prioritization process.

Use maintenance management systems, analyze failure trends, monitor maintenance cost over asset useful life to assist in determining the correct course of action. Vehicle breakdown analysis also plays an important role. Each year we have a capital improvement project process in which we determine departmental priority.

****COMPREHENSIVE****

Risk Management: Identify any risks faced to your assets or organization as a whole (particularly safety-related risks) and describe the mitigation strategies for each one. This can also include how scheduled maintenance can affect service delivery. As applicable, describe any planned changes or improvements to these processes. Enter this information in the table below. Click the button to add more rows.

Risk	Mitigation Strategy
Loss of significant amounts of federal funds	Decrease dependence on federal funds for capital
Decrease of funding for vehicle replacements	Increase budget for maintenance expenditures to keep vehicle in SGR
Increase of errors related to manual data input for facility inspections	Purchase a facility module that integrates with existing maintenance and financial systems. In the process of implementing an asset management system for the facilities division.
Lack of sufficient funding to keep technology related components current	Increase budget for technology components and training.

Maintenance Strategy: List your regularly-planned maintenance activities (e.g., inspections, routine preventive maintenance activities, etc). As applicable, describe any planned changes or improvements to these processes. Enter this information in the table

Asset Category/Class	Maintenance Activity	Frequency	Avg Duration (Hrs)	Cost
35ft & 40ft buses	Preventative maintenance	Every 6,000 mi	7.5	\$741
LTV's & Vans	Preventative maintenance	6,000 & 7,500 mi	1.5	\$82
35ft & 40ft buses	Emission maintenance	72,000 mi	7	\$400-\$5,000
BOMF & RTC	Regular preventative maintenance and inspections	Based on OEM requirements	120	\$3,500

How does your agency address unplanned maintenance needs?

Building systems and vehicles are repaired based on the priority of the defect. The goal of our maintenance programs are to increase the amount of scheduled maintenance and decrease unplanned maintenance.

Overhaul Strategy: How and when do assets get overhauled or replaced? What activities take place during overhaul (e.g., mini, mid-life, or major overhaul)? As applicable, describe any planned changes or improvements to these processes. Enter this information in the table below. Click the button to add more rows.

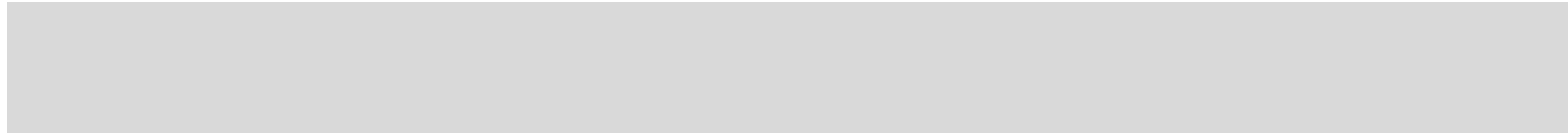
Asset Category/Class	Overhaul Strategy
30ft Bus	Mid-life overhaul - rebuilds bus engine, transmission and electronics, replaces chassis parts and seats, and repaints the body, restoring the bus to an "as new" condition. Cost is about \$120,000 per bus.
40ft / 35ft Buses	Vehicles are kept in a like new condition. All defects noted on preventative maintenance inspection are repaired. Goal is to repair any known defect on the bus. Vehicle damage is prioritized by condition and vehicles are sent to the body shop accordingly. We highly rely on the quality of inspections and oil analysis samples. Major drive train components are replaced at the time of failure. We are in the process of transitioning from a reactive maintenance program to a proactive maintenance program in effort to insure excellent quality of service. In addition, we have implemented a bus repower program to extend the useful life of our buses while implementing a 1/12 buying level program.
LTV's / Vans	Vehicles are kept in a like new condition. All defects noted on preventative maintenance inspection are repaired. Goal is to repair any known defect on the vehicle. Vehicle damage is prioritized by condition and vehicles are sent to the body shop accordingly. We highly rely on the quality of inspections. Major drive train components are only replaced at the time of failure. We are in the process of transitioning from a reactive maintenance program to a proactive maintenance program in effort to insure excellent quality of service.

Disposal Strategy: What is your agency's strategy for disposing of assets that are being renewed or replaced? Describe any approval processes and detail, including the procedures for physically removing the asset from the property. As applicable, describe any planned changes or improvements to these processes. Provide brief paragraphs describing the strategies in the table below. Click the button to add more rows.

Asset Category/Class	Disposal Strategy
All Buses	Buses at the end of their useful lives (15 years) are retired according to three options: (i) salvage sale; (ii)
Buses	At the end of their useful life, buses are sold to the highest bidder
Paratransit Vehicles	Paratransit vehicles are replaced at the end of their useful life. Vehicles are kept for spares until the cost of repairing them exceeds the value of the vehicles. Vehicles (regardless if running) are sold to the highest
Vans	Vans are sold once they reach 100,000 miles or 10 years. Vans are sold to the highest bidder.

Acquisition and Renewal Strategy: How do you determine when to initiate acquisition activities for your assets? Describe your long-term replacement strategy and how long-term renewal and improvement activities are assessed based on the asset's lifecycle. As applicable, describe any planned changes or improvements to these processes. Provide brief paragraphs describing the strategies in the table below. Click the button to add more rows.

Asset Category/Class	Acquisition and Renewal Strategy
Clean Diesel Bus	GoTriangle currently operates a fixed route fleet of clean diesel buses. The life cycle of our buses are 12 years/500,000 miles. GoTriangle is in the process of expanding it's service over the next 10 years due to a recently approved increase of the local sales tax, because of the funding requirements that are needed for both expansion and replacement buses, GoTriangle will need to plan to operate some of these buses beyond there planned useful life. The details of our plan are are outlined in the Bus Fleet Management Plan, Wake County Transit Plan, and the Orange & Durham Transit Plan.
Vans	Go Triangle uses 12 passenger vans for our shuttle relief and on demand service. The life cycle of our vans are 10 years/100,000 miles.



Work Plans & Schedules

NOTE: Complete some yellow cells before clicking "Add More" under each question.

****COMPLIANT****

Proposed Investments: Provide a list of the selected projects and programs prioritized based on your agency's criteria. Rank the projects and order them by year of planned implementation. Enter this information in the table below. Click the button to add more

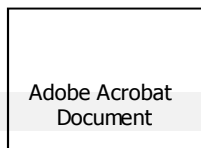
Project Year	Project Name	Asset/Asset Class	Cost	Priority
2016	Diesel-Hybrid Bus Acquisition	30ft Bus	\$5,000,000.00	Medium
2018	Clean Diesel Bus Procurement	40ft	\$2,500,000.00	High
2018	Paratransit Vehicle Procurement	LTV	\$320,000.00	High
2018	Support Vehicles	Support Vehicles	\$68,000.00	Medium
2018	Bus Repowers	40ft	\$800,000.00	High

****COMPREHENSIVE****

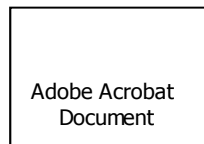
Capital Investment Activity Schedules: You may attach any work plans or schedules you have for capital investment activities as separate files when delivering this template. Provide the names of documents attached and their file formats in the table below. Click the button to add more rows.

Document Name	File Extension
Example - Bus Overhaul Schedule	MS Project

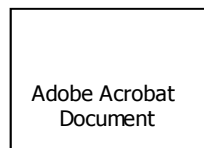
Related Documents



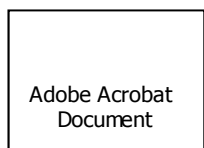
Wake Transit Plan Equipment Assessment PDF document is pasted above. Double click PDF document to access.



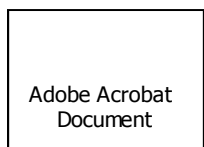
Bus Replacement Schedule PDF document is pasted above. Double click PDF document to access.



Paratransit Replacement Schedule PDF document is pasted above. Double click PDF document to access.

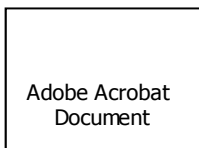


Bus Management Plan document is pasted above. Double click PDF document to access.

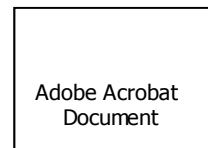


GoTriangle fixed route inventory document is pasted above. Double click PDF document to access.

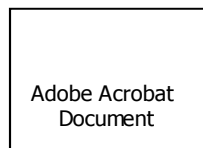
Related Documents



GoTriangle FY19 Capital Improvement Projects



GoTriangle Facility Equipment Inventory



GoTriangle Shop Equipment Inventory

Triangle Regional Public Transportation Authority Transit Asset Manager

Last modified by Brian Mclean on 23 Aug 18 at 10:43

Introduction

Research Triangle Regional Public Transportation Authority, DBA GoTriangle, is a regional transit agency in North Carolina. We service a three county area that includes Durham, Orange and Wake counties. We also operate a regional paratransit and vanpool program.

Performance Targets & Measures

Asset Class	Performance Measure	Target
Rolling Stock <i>All revenue vehicles</i>	Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	0.13
Equipment <i>Non-revenue vehicles</i>	Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	0.22
Facilities <i>All buildings or structures</i>	Condition - % of facilities with a condition rating below 3.0 on a the FTA Transit Economic Requirements Model (TERM) Scale	Target Required

Target Setting Methodology

Within our rolling stock of revenue vehicles there are vans for the vanpool program, LTV's for the paratransit service and buses for the fixed route service. Our method for setting targets is relatively straight forward, 10% of each asset class vehicles may meet or exceed their ULB. Facilities must maintain a rating of 3 or higher.

TAM Vision

We hope to decrease maintenance cost, improve the safety, reliability and performance of our assets c

TAM and SGR Policy

GoTriangle is committed to maintaining a safe environment for its riders and employees. To insure that

TAM Goals and/or Objectives

Goals	Objectives
Increase vehicle readiness by 5%	Complete all PM's on time 100%
Decrease roadcalls by 5%	Provide additional operator training regarding pre & post trip ins

About the TAM Plan

The inventory in this includes vehicles from Bus, Paratransit and the Vanpool program. Additionally, it

Roles and Responsibilities

Department/Individual	Role (Title and/or Description)	Subrecipient
Patrick Stephens / Brian Mcleansit	Director / Fleet Maintenance Mana	Bus Agency
Gary Tober	Real Estate Manager	Bus Agency
Sandra Freeman	Accountable Executive	Bus Agency

Asset Portfolio

Please see Appendix A (Asset Register) for the asset inventory listing.

Asset Inventory Summary

Asset Category	Total Number	Avg Age	Avg Value
Equipment	9	5.222222	\$28,944.44
Facilities	4	33	\$4,637,750.00
Rolling Stock	141	7.29078	\$215,100.72

Condition Assessment

Please see Appendix B (Asset Condition Data) for individual asset condition listing.

Asset Condition Summary

Asset Category	Count	Avg Age	Avg TERM Condition	Avg Value	% At or Past ULB
Equipment	8	4.25	N/A	\$29,562.50	12.50%
Facilities	3	17.33333	3.333333333	\$5,517,000.00	0.00%
Rolling Stock	141	7.29078	N/A	\$215,100.72	17.73%

Management Approach

Investment Prioritization

Use maintenance management systems, analyze failure trends, monitor maintenance cost over asset useful life to assist in determining the correct course of action. Vehicle breakdown analysis also plays an important role. Each year we have a capital improvement project process in which we determine departmental priority.

Decision Support Tools

The following tools are used in making investment decisions:

Process/Tool	Brief Description
Trapeze Asset Management System (EAM)	A software system that tracks inventory, maintenance cost, condition, etc. Asset management software.
Road breakdown analysis	Analysis is used to monitor the reliability of all vehicles. We
Track system trend analysis on building	Based on regular maintenance and inspections.

Risk Management

Risk	Mitigation Strategy
Decrease of funding for vehicle replacement	Increase budget for maintenance expenditures to keep vehicles
Increase of errors related to manual data entry	Purchase a facility module that integrates with existing main
Lack of sufficient funding to keep technology current	Increase budget for technology components and training.

Maintenance Strategy

Asset Category/Class	Maintenance Activity	Frequency	Avg Duration (Hrs)	Cost
35ft & 40ft buses	preventative maintenance	Every 6,000 mi	7.5	\$741
LTV's & Vans	preventative maintenance	6,000 & 7,500 mi	1.5	\$82
35ft & 40ft buses	mission maintenance	72,000 mi	7	\$400-\$5,000
BOMF & RTC	preventative maintenance	based on OEM requirements	120	\$3,500

Unplanned Maintenance Approach

Building systems and vehicles are repaired based on the priority of the defect. The goal of our maintenance is to keep assets in a like new condition.

Overhaul Strategy

Asset Category/Class	Overhaul Strategy
40ft / 35ft Buses	Vehicles are kept in a like new condition. All defects noted on preventative
LTV's / Vans	Vehicles are kept in a like new condition. All defects noted on preventative

Disposal Strategy

Asset Category/Class	Disposal Strategy
Buses	At the end of their useful life, buses are sold to the highest bidder
Paratransit Vehicles	Paratransit vehicles are replaced at the end of their useful life. Vehicles are
Vans	Vans are sold once they reach 100,000 miles or 10 years. Vans are sold to the

Acquisition and Renewal Strategy

Asset Category/Class	Acquisition and Renewal Strategy
Clean Diesel Bus	GoTriangle currently operates a fixed route fleet of clean diesel buses. The life
Vans	Go Triangle uses 12 passenger vans for our shuttle relief and on demand service.

Work Plans & Schedules

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

Appendices

Appendix A	Asset Register
Appendix B	Asset Condition Data
Appendix C	Proposed Investment Project List

Appendix C: Proposed Investment Project List

Project Year	Project Name	Asset/Asset Class	Cost	Priority
2018	Clean Diesel Bus Procurement	40ft	\$2,500,000.00	High
2018	Paratransit Vehicle Procurement	LTV	\$320,000.00	High
2018	Support Vehicles	Support Vehicles	\$68,000.00	Medium
2018	Bus Repowers	40ft	\$800,000.00	High