

U.S. Department of Transportation Federal Transit Administration

TAMPLATE User Manual

Supplemental Guide for FTA's Transit Asset Management Planning Assistance Template

May 2025

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Introduction

Overview of TAMPLATE

The Transit Asset Management (TAM) Planning Assistance Template, or <u>TAMPLATE</u>, is a technical assistance resource to help transit providers develop their TAM plans in alignment with the requirements of the Federal Transit Administration's (FTA) <u>Final Rule</u> on Transit Asset Management (49 CFR Part 625). Using TAMPLATE, you can download the most recently published agency data from FTA's <u>National Transit Database</u> (NTD) to support the development of your TAM plan. You can create a new TAM plan and edit the downloaded NTD data without modifying the underlying data source or impacting another organization's ability to create a plan.

The online tool is organized into the following sections, which you can access though the menu bar at the top of the TAMPLATE window (Figure 1):

- Introduction provides an overview of TAMPLATE's organization and capabilities.
- **Getting Started** requests basic information on your agency and downloads the relevant NTD data.
- **Chapters** includes five individual chapters covering the TAM plan elements required by 49 CFR part 625 (see TAM Plan Requirements below) and best practices.
- Fleet Replacement Module is an optional section to assist agencies in analyzing their future vehicle needs.
- **TAM Plan** is the final section where you can view, confirm, download, and share your completed TAM plan.



Figure 1: TAMPLATE section menu

Each section contains multiple pages, or tabs, which you should complete with the requested information for your TAM plan.

TAM Plan Requirements

The TAM Final Rule requires transit agencies to develop and implement a TAM plan if the agency (1) owns, operates, or manages capital assets used for providing public transportation; and (2) receives federal financial assistance under 49 U.S.C. Chapter 53 as a recipient or subrecipient (49 CFR § 625.3).

The TAM plan requirement is intended to guide agencies towards a state of good repair (SGR), defined as a condition in which capital assets are able to operate at a full level of performance (49 CFR § 625.5). Transit agencies must update their TAM plans at least once every four years (49 CFR § 625.29(c)). See FTA's <u>TAM Plan webpage</u> for more information on this requirement.

According to the Final Rule (49 CFR § 625.25), all TAM plans must contain the following elements:

- An inventory of the number and type of capital assets (rolling stock, equipment, facilities, and track and guideway infrastructure)
- Condition assessments of the inventoried assets for which a provider has direct capital responsibility
- A description of analytical processes or decision support tools for estimating capital investment needs over time and developing an investment prioritization
- A project-based prioritization of capital investments

Importantly, Tier I and Tier II transit agencies are subject to different requirements for what to include in their TAM plans.¹ In addition to the elements listed above, Tier I agency TAM plans must include:

- A TAM and SGR policy;
- A TAM plan implementation strategy;
- A description of key TAM activities that a provider intends to engage in over the TAM plan horizon period;
- A summary or list of the resources, including personnel, that a provider needs to develop and carry out the TAM plan; and
- An outline of how a provider will monitor, update, and evaluate, as needed, its TAM plan and related business practices, to ensure the continuous improvement of its TAM practices.

FTA's <u>TAM Plan webpage</u> describes the required TAM plan elements for each agency tier. Some organizations, such as State Departments of Transportation (DOTs) or agencies that pass FTA funds to subrecipients, may be required to serve as a Group TAM Plan Sponsor.² A Group TAM Plan Sponsor coordinates the development of a TAM plan for a group of participating Tier II agencies. Please refer to FTA's guidance on <u>developing group plans</u> for additional information.

Who is This Guide For?

The TAMPLATE User Manual is a companion document that walks you through each section of TAMPLATE to generate a TAM plan. In general, personnel who are knowledgeable about your organization's assets and asset management processes (e.g., procurement, maintenance, compliance, etc.) are best positioned to complete a TAM plan.

Tier I agencies, Tier II agencies, and Group TAM Plan Sponsors can all use TAMPLATE to facilitate development of a compliant TAM plan. See Figure 2 below for an overview of the applicable TAMPLATE pages for Tier I and Tier II agencies to develop a TAM plan. While the TAMPLATE application is designed for any user, it is likely to be most helpful for

- Tier II transit providers developing their own individual plans, or
- Group TAM Plan Sponsors developing plans for subrecipients.

¹ See FTA's <u>"Am I a Tier I or Tier II agency?"</u> checklist to determine whether your agency is a Tier I or Tier II provider.

² See FTA's <u>"Am I required to be a group TAM plan sponsor?"</u> checklist to determine whether you are required to coordinate a group TAM plan.

Tier I transit providers may also use TAMPLATE, but because of its simplified structure, this template may be less useful for agencies with customized asset management systems.

Use of this template is voluntary. It is not a compliance tool and should only be used for technical assistance.

For other users (e.g., researchers) not required to create a TAM plan, TAMPLATE allows for an "experimental" TAM plan in which users can combine data from transit agencies across the country.

Access TAMPLATE online at FTA's TAM website: www.transit.dot.gov/regulations-and-programs/asset-management/tamplate.

The table below provides an overview of the applicability of the various tabs within TAMPLATE. The word "Yes" indicates that input from the user is required for these sections. Some of these mandatory fields are not required by Part 625, but instead represent best practices for TAM plans. Please see the corresponding sections of this document below for more information about elements required by the TAM regulation.

TAMPLATE Chapter	TAMPLATE Tab	TAM Plan Element(s)	Applicable to Tier I Users	Applicable to Tier II & Group Plan Sponsor Users
	Basics	N/A	Yes	Yes
Chapter 1:	Goals	N/A	Optional	Optional
Introduction	Policies & Evaluation	#5: TAM & SGR policy #9: Evaluation plan	Yes	Optional
	Roles & Responsibilities	#8: Identification of resources	Yes	Optional
Chapter 2:	Inventory	#1: Asset inventory	Yes	Yes
Capital Asset Inventory	Summary	N/A	Yes	Yes
Chapter 3:	Condition	#2: Condition assessment	Yes	Yes
Condition Assessment	Summary	N/A	Yes	Yes

	Basic	#3: Decision support tool	Yes	Yes
	Maintenance			
Chapter 4: Decision Support	Overhaul	#6: Implementation	Vec	Ontional
	Disposal	strategy	Yes	Optional
	Acquisition & Renewal	_		
	Risk Management	N/A	Optional	Optional
Chapter 5:	Proposed Investments	<i>#4: Prioritization of investments</i>	Yes	Yes
Investments	Schedules	#7: Key TAM activities	Yes	Optional

Figure 2: TAMPLATE sections

Getting Started

This section of the user manual explains how to create a TAMPLATE user account, start a new TAM plan, and access saved TAM plans.

Creating a User Account

If using TAMPLATE for the first time, you will need to create a user account. All FTA applications must be accessed through the FTA Application Portal with your Login.gov credentials. Follow the steps below to create a new Login.gov account:

- 1. Open the <u>TAMPLATE</u> login page to access the FTA Application Portal.
- 2. Click on "Sign in with LOGIN.GOV".
- 3. In the window that appears, click on "Create an account".
- 4. Enter your email address and other requested information and click "Submit".
- 5. You will receive an email to the address you submitted. Open the email and click on "Confirm email address". A browser window will appear and take you back to Login.gov.
- 6. Create a password and set up a second layer of authentication (security key, government employee ID, authentication application, phone, or backup codes).
- 7. You have now successfully created your Login.gov account.

Next you will need to register the TAMPLATE application within the FTA Application Portal:

- 1. Sign in to the FTA Application Portal with your Login.gov account information.
- 2. Under the "Explore Other Application(s)" heading, click the icon labeled "TAMPLATE"
- 3. On the TAMPLATE Registration page, click "Register"
- **4.** The TAMPLATE icon should now appear under the "Registered Application(s)" heading on the FTA Application Portal. You will need to re-register the TAMPLATE application following 60 days of inactivity.

For assistance with the FTA Application Portal, please see the help topics on FTA's <u>Application Portal</u> <u>Help Page</u>. For additional information on your Login.gov account, including an explanation of your options for the second layer authentication, please visit the <u>Login.gov Help Center</u>.

The FTA Application Portal and Login.gov system went into effect on October 2, 2021. If you previously created a TAMPLATE account, you must create a new Login.gov account to access your original TAMPLATE account. If you created a TAMPLATE account under an old email address, you can register this email address as a second address within your Login.gov account settings.

ructions			
lick on the application icon under 'Registered Ap lick on the application icon under 'Explore other	oplication(s)' to access the application Application(s)' to register and access	the application or access applicatio	n without registration
	Registered /	Application(s)	
TAMPLATE			
 Current active applications Application Access Deactivated due to 0 	60-day inactivity		
	Explore other	Application(s)	
	Pail Pour PC	EPD	Charter

Figure 3: FTA Application Portal

Setting Up a New TAM Plan

Log in to the FTA Application portal and click the TAMPLATE icon to open the TAMPLATE Dashboard. The Dashboard is where you can view any previously saved TAM plans. If you have not previously saved a TAM plan, this table will be empty. If you would like to copy or otherwise modify an existing plan, please see the *Modifying an Existing TAM Plan* section below.

Create a New TAM Plan

At the top of the TAMPLATE Dashboard, click the "Create New TAM Plan" button to start a new plan for a Tier I agency, Tier II agency, or Group Plan Sponsor (Figure 4). To create an experimental TAM plan, click the "Create New Experimental TAM Plan" button.³ As introduced in the *Who is This Guide For?* section, this experimental plan option is intended for nontraditional users (e.g., researchers) who may want the flexibility to combine NTD data from agencies from across the U.S. Additionally, experimental TAM plans have fewer mandatory fields than regular TAM plans in TAMPLATE.



³ The Experimental TAM Plan user interface has differences from the descriptions provided in this manual.

Figure 4: Create a new TAM plan from the TAMPLATE Dashboard

After you click one of the buttons to create a new plan, TAMPLATE opens the "Introduction" page which provides an overview of TAMPLATE and its capabilities. To connect to agency data and begin editing your new TAM plan, click the "Getting Started" button at the bottom of the page.

Connecting to NTD Data

On the "Getting Started" tab, complete the following steps to connect to agency NTD data.

1. Enter your agency information as described below:

FIELD	INSTRUCTIONS
TAM Plan Name	Enter a name for your TAM plan. This name will appear in the list of saved plans on the TAMPLATE Dashboard.
TAM Plan Type	Select Tier I, Tier II, or Group Plan Sponsor.
Agency Name	Select your own agency's name from the drop-down menu.
Include Sponsor NTD Inventory Data	<i>For Group Plan Sponsors:</i> select "Yes" to include your agency's own asset data in addition to subrecipient data or select "No" to include subrecipient data only.
Accountable Executive	Enter the name of the transit provider's Accountable Executive.
Last Modified Date	If creating a new plan, select today's date.

Shown in Figure 5, the "Include Sponsor NTD Inventory Data" field will only appear when "Group Plan Sponsor" is selected for "TAM Plan Type."

Agency Name *	Select Value cannot be changed after the initial creation of the TAM plan
Do you want to include * sponsor NTD inventory data?	CYes ●No
Accountable Executive *	Please enter Name of Accountable Executive

Figure 5: Option to include own agency's assets along with subrecipient assets (Group Plan Sponsors only)

 For Group Plan Sponsors: Add your Group TAM Plan subrecipients. For each subrecipient, select the agency name from the "Subrecipient Agency Name" drop-down menu, enter the "Subrecipient Accountable Executive", and click the "Add Group TAM Plan Subrecipients" button (Figure 6). You can add multiple subrecipients at once (with the same Accountable Executive name) by clicking the check box next to multiple agency names in the drop-down menu. Added subrecipients appear in the subrecipient table at the bottom of the page. Click the Edit (\checkmark) icon next to a subrecipient's name to modify an agency's Accountable Executive. Click the Trash ($\overline{\blacksquare}$) icon to delete that agency from the subrecipient list.

The subrecipient drop-down menu auto-populates with the Group TAM Plan Sponsor's previous subrecipients. To add a new subrecipient, select "Other" from the drop-down menu and enter the subrecipient agency's name. If you use the "Other" option, you will need to manually enter that agency's asset data in TAMPLATE Chapters 2 and 3.

Group TAM Plan Subrecipients

The subrecipient drop-down menu auto-populates with the Group TAM Plan Sponsor's previous subrecipients. To add a new subrecipient, select "Other" from the drop-down menu and enter the subrecipient agency's name. If you use the "Other" option, you will need to manually enter that agency's asset data in TAMPLATE Chapters 2 and 3. If you select ALL option from Subrecipient Agency Name drop down, please uncheck the OTHER option before clicking on Add Group TAM Plan Subrecipient(s).

Subrecipient Agency Name	Other 🗸
	Please enter Other Agency Name
Subrecipient Accountable Executive	Please enter Accountable Executive.
	Add Group TAM Plan Subrecipients

Figure 6: Adding subrecipients to a Group TAM Plan

2. Click the "Save" button at the bottom of the page.

Working on an Existing TAM Plan

As noted in *Creating a New TAM Plan*, the Dashboard is the first page you see upon logging into TAMPLATE. The Dashboard includes a table with your saved TAM plans and each plan's name, type, agency, creation date, date updated, and NTD reporting year. As depicted in the Functions column of the table, you can view, edit, share, delete or clone existing TAM plans (regular or experimental):

- Viewing (^Q) a plan opens TAMPLATE's final page in which you can view and export the compiled TAM plan.
- 2. Editing () a plan will open the plan in TAMPLATE so that you can continue or modify the draft plan. This option is only available for plans created or cloned on or after October 1 in the current federal fiscal year.
- Sharing () a plan will open a pop-up window to let you invite another TAMPLATE user to collaborate on a TAM Plan. In the pop-up window, enter your name and search for the recipient's email in the drop-down box. Click "Share TAM Plan" and the recipient will receive an email inviting them to edit the TAM Plan. The recipient will also be able to see

the shared plan in their TAMPLATE Dashboard. The recipient must have an existing TAMPLATE account.

- **Deleting** (III) a plan will permanently remove the plan from TAMPLATE. If you click this icon, a pop-up window will appear to confirm that you wish to delete that specific TAM plan. This option is only available for plans created or cloned on or after October 1 in the current federal fiscal year.
- **Cloning** () a plan creates a duplicate copy of a plan. This function is available for current plans in which you modified the downloaded NTD data within TAMPLATE as well as older plans created before October 1 of the current federal fiscal year.

ease select the fi All ○TAM Plan ○Ex	lter criteria: perimental TAM Pla	n OTAM Plan(s) Shared	with me				
ow 10 V entries					Search:	Search on any	of the fields below
TAM Plan Name 🖨	TAM Plan Type ∳	Agency Name 🛛 👙	Created Date \$	Updated Date 븆	NTD Data Load Report Year 👙 (RY)	Shared TAM Plan	Functions
EXAMPLE TAM PLAN #1	Tier II	EXAMPLE AGENCY #1	1/13/2025 9:12:15 AM		2023	No	९ / 🖻 💼
EXAMPLE	Tier II	EXAMPLE	10/17/2022	10/24/2022	2020	No	Q @ 1

Figure 7: Dashboard functions for saved TAM plans

Reloading NTD Data

TAMPLATE will automatically download NTD data for the agencies selected on the tool's "Getting Started" page. However, at any point you can also manually refresh and reset the downloaded NTD data by clicking the "Click to reload the NTD data" button in the upper-right corner of the TAMPLATE window (Figure 8). Clicking this button will bring the latest available data into TAMPLATE. The publication date of the latest NTD data is stated above the "Click to reload NTD data" button.

Reloading the NTD data will erase all manual changes you make to the performance targets in the **Getting Started** section and to inventory tables in the **Chapters** section.

			Click to reload the NTD data
Introduction	Getting Started	Chapters > Fleet Replacement Module	TAM Plan

Figure 8: Button to reload the NTD data

Suggested Resources

As you proceed through the rest of the pages in TAMPLATE, various agency documents may provide helpful information to support your TAM plan. Below are several possible sources of information:

- Asset register or inventory information (including for spare parts or equipment)
- Schedules for inspections/preventive maintenance activities
- Routine checklist for inspections/preventive maintenance activities
- Reports on asset condition
- Original Equipment Manufacturer (OEM) manual
- Warranty information
- Fleet management plan
- Facilities management plan
- Trouble log (information on asset defects, faults, and/or unplanned maintenance)
- Documentation related to risks and/or risk management
- Standard operating procedures (SOPs)
- Asset transition protocol or policy

The resources above are also listed on the "OPTIONAL – Related Documents" tab of the "Getting Started" section in TAMPLATE, as shown in Figure 9. On this tab, you can indicate whether you have access to each type of resource. Your answers are for your own tracking purposes and do not carry through to your TAM plan or any other part of TAMPLATE.

Getting Started	OPTIONAL - Related Documents				
OPTIONAL - 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 drop down menus where this information is available. While your agency(s) 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.					
Flease allower th	e below as best as you can, as provides	most value to the agency.			
Asset register or	inventory information including spare	parts or equipment	Select	~	
Routine checklis	t for inspections or other preventive m	aintenance activities	Select	~	
Reports or inforr	nation on asset condition		Select	~	

Figure 9: Optional tracker for related resources

Chapter 1: TAM Plan Introduction

Information entered in Chapter 1 makes up the "Introduction" section of your TAM plan. Chapter 1 includes the following tabs:

TAB NAME	DESCRIPTION	APPLICABILITY
Basic	Provide an overview of your agency and enter your TAM performance targets.	All TAMPLATE users
TAM Goals	Enter your agency's TAM-related objectives.	Optional for all users
TAM Policy and Evaluation	Describe your agency's TAM policy and plan for continuous improvement.	Tier I TAMPLATE users only
TAM Roles and Responsibilities	Identify individuals with TAM-related responsibilities.	Tier I TAMPLATE users only

As you proceed through Chapter 1 and all other TAMPLATE sections, please be aware that textboxes accept <u>plain text only</u>. Tables and formatted text will not be preserved.

Any elements required to be included in a provider's TAM plan under 49 CFR part 625 include a corresponding regulatory citation in the text below. All other elements are best practices.

Basic

The following steps apply to all TAMPLATE users.

- 1. In the "Brief Overview" textbox, describe your organization type, size, service area, and approach to asset management, and summarize your TAM plan contents and structure (2000 characters max).
- 2. In the "Methods for Target-Setting" textbox, explain the methods that your agency uses to set performance targets (2000 characters max). *Note: This section is optional for all users.*
- 3. Under the "Performance Targets & Measures" section, enter your agency's performance targets by asset class. For existing assets in the NTD, click the Edit icon () next to the appropriate entry to add/revise a target (Figure 10) or the Trash icon () to delete a target. For any asset class NOT previously reported to the NTD, you will need to create a new table entry. Complete the following fields for each new asset class:

FIELD	INSTRUCTIONS
Agency Name	Select the agency name from the drop-down menu.
Asset Category	Select the appropriate asset category for the new asset.
Asset Class	Select the appropriate asset class for the new asset. This drop- down menu updates based on the selected asset category. If you select "Custom (non-rule) Category" for Asset Class, enter the custom asset type in the textbox that appears.
<year 1=""> Target</year>	Enter a performance target for the coming fiscal year, i.e., the first year following the current Report Year in TAMPLATE, as a percentage of assets NOT in SGR.
<year 2=""> - <year 5=""> Target</year></year>	Optionally, enter targets for up to five years in the future.

4. Click the "Save" button. Then click "Next" to proceed to the next tab.

	Functions	Agency Name	Asset Category	Asset Class ₽ ▼	2024 Target II 7	2025 Target II ▼	2026 Target II 🏹	2 T
	/ 💼	EXAMPLE AGENCY NAME	Equipment	Non Revenue/Service Automobile	XX%			
→	Ø	EXAMPLE AGENCY NAME	Equipment	Steel Wheel Vehicles	XX%			

Figure 10: Edit performance targets for an existing asset class

Performance measures for all asset categories are the percentage of assets NOT in a state-of-goodrepair. See FTA's Performance Management webpage for additional information on calculating performance measures and setting targets.

TAM Goals

The following steps are optional for all users:

- 1. In the "TAM Vision" textbox, describe your agency's goals related to TAM (1000 characters max). What does your agency hope to achieve with TAM?
- 2. Describe specific goals that you wish to achieve and how asset management can help your agency achieve its objectives (Figure 11). For each goal, use the "Goal" textbox to describe the goal (500 characters max). Then in the "Objective(s)" textbox, list the steps your agency will take to achieve that goal (1000 characters max). Click the "Add" button to save your new goal.

- 3. After saving your first goal, a list of all saved goals will be created. Continue to add goals to this list. Click the Trash icon (¹/₁) to delete a previously saved goal from the table.
 - Goal Example: Increase customer satisfaction score by 20 percent in fiscal year. Objective(s) Example: Respond to customer feedback from past survey by mid-fiscal year, Respond to customer complaints (through 511) within one week of complaint, ... Note: Please use a comma to separate each Objective. Add Clear Functions Goal 7 ∇ Objectives Ŵ EXAMPLE GOAL EXAMPLE ACTIONS TO ACHIEVE GOAL -
- 4. Click the "Save" button. Then click "Next" to proceed to the next tab.

Figure 11: Saving goals and objectives in the TAM Goals tab

TAM Policy and Evaluation

The following steps apply to users creating a <u>Tier I</u> TAM plan and are optional for other users:

- 49 CFR § 625.25(b)(5) In the "TAM and State of Good Repair (SGR) Policy" textbox, describe your agency's TAM and SGR Policy. This may include your agency's expectations for employees as well as executives in managing assets and pursuing a state of good repair (5000 characters max). This description could be a short statement or a more detailed policy.
- 49 CFR § 625.25(b)(9) In the "Continuous Improvement" textbox, describe how you will monitor, update, and evaluate, as needed, your TAM plan and related business practices to ensure the continuous improvement of your TAM practices. Consider your approach to TAM over time.

- **3. Optionally,** upload your agency's previous TAM narrative report. This file will be listed in a table of attachments in your TAM plan, with active links to download the file when viewed online within the final **TAM Plan** section of TAMPLATE.
- 4. Click the "Save" button (Figure 12). Then click "Next" to proceed to the next tab.

ase ela provem s chapt	borate on your TAM and State of Good Repair (SGR) Policy as well as your plan for evaluation and continuous ent. When you are finished, click "Save" to save this page, or click "Next" to save and proceed to the next pag er.
т	AM and State of Good Repair (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. Describe your TAM plan context including the contents and structure. Could include time horizon interdependencies of asset groups and other relevant details.
c	Continuous Improvement *
	What is your continuous improvement approach? How do you monitor and update your TAM approach to incorporate lessons learned? What is the threshold "trigger" to amend your TAM plan? What is the threshold "trigger" to update it?
Ę	Previous Narrative Report Choose File [OPTIONAL] Ipload File Type (pdf, doc, docx, xls, xlsx, ppt, pptx 20MB or less). Maximum of 1 file. Upload File
	Functions Document Name

Figure 12: Adding agency TAM policies and previous narrative report

TAM Roles and Responsibilities

This tab applies to users creating a <u>Tier I</u> TAM plan.

49 CFR § 625.25(b)(8) requires Tier I provider TAM plans include a summary or list of the resources, including personnel, that a provider needs to develop and carry out the TAM plan. Accordingly, please identify the individuals or departments with TAM-related responsibilities (Figure 13). For each individual or department, enter the following information:

FIELD	INSTRUCTIONS	
Department/Individual	Enter the name of the individual or department (500 characters max).	
Role	Enter the title or description of the individual or department (500 characters max).	
Sub-Recipient	For Group Plan Sponsors: select the agency to which the individual or department belongs. For other users, select your own agency.	

Click the "Add" button to add each individual or department to the roles and responsibilities table. When you are finished, click the "Next" button to proceed to Chapter 2.

Basic (Required)	TAM Goals (Optional)	TAM Policy and Evaluation (Tier I)	TAM Roles and Responsibilities (Tier I)
What roles have responsible for r Please add one p	been assigned to monitoring and upd person at a time.	your employees to achieve the goals (lating it? Who is your accountable exe	of the TAM system? Who owns the TAM Plan and is coutive?
Example: Jar	ne Doe		ĥ
Role (Title a	nd/or Descripti	on)	
Example: Di	rector of Asset Mar	nagement	1
Sub-Recipie	nt 🔶 [IF A	APPLICABLE]	
Select			~
		Add C	lear

Figure 13: Adding roles and responsibilities

Chapter 2: Capital Asset Inventory

The TAM regulation requires all TAM plans (Tier I and Tier II) include an inventory of the number and type of capital assets. (49 CFR 625.25(b)(1))

Chapter 2 presents the asset data for your agency(ies) and includes the tabs listed below. The summary table makes up the "Capital Asset Inventory" section of your TAM plan while the inventory table(s) are included in the TAM plan appendix.

TAB NAME	DESCRIPTION	APPLICABILITY
Inventory Table(s)	Your asset inventory as downloaded from the NTD. You can modify assets in these tables and add additional entries.	All TAMPLATE users
Summary	A table with summary metrics by asset category and asset class. The summary table updates based on information in the Inventory Table(s) tab.	All TAMPLATE users

You are responsible for including all assets covered by the TAM Final Rule in your TAM plan, including assets not reported to the NTD. If needed, manually add assets to the inventory table in Chapter 2 to help ensure a compliant TAM plan.

Inventory Table(s)

This tab includes your asset inventory as downloaded from the NTD. Assets are organized into separate tables by category (revenue vehicles, equipment, facilities, and infrastructure). Each row in the Revenue Vehicles table represents an individual fleet type and may contain multiple vehicles. You can edit the inventory tables in the following ways:

Modify an Existing Asset

To modify an existing asset...

- 1. Click the Edit icon () in the asset's row.
- Make any changes within the "Update Capital Asset Inventory" page that appears (Figure 14).
- **3.** Click the "Save" button at the bottom of the page to return to the inventory table. To instead exit this page without saving, click the "Back to Inventory Table" link at the top of the page.

To delete an asset from the table, click the Trash icon $(\overline{10})$ in the asset's row.

	Update Capital Asset	Inventory
gency Name *	EXAMPLE AGENCY NAME	~
sset Category *	Revenue Vehicles	~
Asset Class *	CU - Cutaway Bus	~
sset Name	Example: York Street Maintenance Building	
sset Owner	Owned outright by private entity (OOPE)	
ar in Service	Year element went into service	
	Year asset went into service	
ufacture Year *	Please enter year in YYYY format	
	Manufacture Year is required	

Figure 14: Update capital assets for the inventory table

Notes on the "Update Capital Asset Inventory" Form

Mandatory Form Fields

Some of the data fields may not pull from NTD but are still mandatory form fields, as indicated with an asterisk (*). For example, in Figure 14, TAMPLATE displays an error message when the current asset record does not have a value for "Manufacture Year", which is a mandatory form field in TAMPLATE. You will need to manually enter information for all mandatory fields in order to save any changes. If you do not have all information on hand, you can enter a space or any number/text as a placeholder.

Grayed-Out Fields

Some fields will be grayed out depending on other field values. For example, if you set the "Count/Fleet" field to "Count", you can edit "Count/Total Number of Vehicles" and "Average Vehicle Mileage" but **NOT** "No of Active Fleet Vehicles" or "Total Active Fleet Mileage". If you instead set the "Count/Fleet" field to "Fleet" the editing permissions for these fields will be flipped.

Add a New Asset

To add a new asset not currently in the NTD...

- 1. Click the "Create New Capital Asset Inventory" button at the top-right of the page (Figure 15).
- **2.** Add information for all mandatory fields in the "Add New Capital Asset Inventory" page that appears.
- **3.** Click the "Add" button at the bottom of the page. To instead exit this page without saving, click the "Back to Inventory Table" link at the top of the page.



Figure 15: Create a new capital asset entry

If you select "Custom (non-rule) Category" as the asset class, the form will prompt you to name your custom class. This refers to categories other than the four required by the TAM regulation (Revenue vehicles, Equipment, Facilities, and Infrastructure).

Summary Table

The Chapter 2 summary table presents the following information (i) by asset class for revenue vehicles, equipment, and facilities and (ii) by asset class, mode, and type of service for infrastructure:

APPLICABLE TO	REVENUE VEHICLES	EQUIPMENT	FACILITIES	INFRASTRUCTURE
Total Number	X	X	X	X
Avg Age	X	X	X	
Avg Mileage	X			
Avg Replacement Cost/Value	Х	X	X	
Total Replacement Cost/Value	X	X	X	

Review your summarized asset data and make any changes to the inventory table(s) to ensure this summary accurately reflects your agency's asset inventory. You are not able to directly edit the summary table within TAMPLATE. For reference, **Appendix A** contains more technical details on the Chapter 2 summary table equations.

Any edits made within TAMPLATE apply only to your current TAM plan. The underlying NTD data will not be changed.

Chapter 3: Condition Assessment

49 CFR § 625.25(b)(2) requires all TAM plans (Tier I and Tier II) include a condition assessment of those inventoried assets for which a provider has direct capital responsibility. A condition assessment must generate information in a level of detail sufficient to monitor and predict the performance of the assets and to inform the investment prioritization.

Chapter 3 presents the asset data for your agency(ies) and includes the following tabs:

TAB NAME	DESCRIPTION	APPLICABILITY
Condition Table(s)	Your asset inventory as specified in Chapter 2 and supplemented with condition information from NTD.	All TAMPLATE users
Summary	A table with summary metrics by asset category and asset class. The summary table updates based on information in the Condition Table(s) tab.	All TAMPLATE users

Recall that TAM measures performance towards a state of good repair for each asset class within an asset category. (49 CFR § 625.43) For reference, the performance measure for each asset category is summarized below:

ASSET CATEGORY	FTA-ESTABLISHED PERFORMANCE MEASURE
Revenue Vehicles	% of revenue vehicles that meet or exceed the useful life benchmark (ULB)
Equipment	% of non-revenue, support-service and maintenance vehicles that meet or exceed the ULB
Facilities	% of facilities rated under 3.0 on the TERM scale
Infrastructure	% of track segments under performance restrictions

Condition Table(s)

This tab includes your asset inventory, as specified in Chapter 2, with additional columns for asset condition. As in Chapter 2, assets are organized into separate tables by category, beginning with revenue vehicles.

Revenue Vehicles and Equipment

The performance measure for both revenue vehicles and equipment depends on the asset age and useful life benchmark (ULB). In the revenue vehicle and equipment tables in Chapter 3, the "Useful Life Benchmark (Yrs)" column presents the ULB as previously reported to the NTD. For any new assets that you created in Chapter 2, the ULB column auto-populates with the <u>FTA default value</u> for that asset class.

You can manually edit an asset's ULB by clicking the Edit icon () in a row. On the "Update Useful Life Benchmark (ULB)" page (Figure 16), you can enter an explanation for the change or upload supporting documentation. If uploading documentation, the file's name will be included in a table in your TAM plan, with active links to download the file when viewed online from the **TAM Plan** section of TAMPLATE.

Update Useful Life Benchmark (ULB)					
Please enter notes or upload supporting documentation if the useful life benchmark value for the record is being updated from the default value.					
Useful Life Benchmark (Yrs) *	14				
Notes Supporting documentation Upload File Type(pdf, doc, docx, xls, xlsx, ppt, pptx, 20MB or less).There is no limit to the number of files that can be uploaded.	Choose File No file chosen				
	Functions Document Name II No data found Save Cancel				

Figure 16: Update ULB for the asset condition table

The "Default Useful Life Benchmark" column states whether the value in the "Useful Life Benchmark (Yrs)" matches the FTA default value, and the "Past Useful Life Benchmark" column states whether the asset's age exceeds the entered ULB. Both columns automatically update to reflect any changes to an asset's age or ULB.

Facilities

The performance measure for facilities depends on the TERM scale condition for each asset. In the facilities table in Chapter 3, the "TERM Scale Condition" column presents this rating as previously reported to the NTD. The TERM scale runs from 1 for poor condition to 5 for excellent condition. You can manually add or edit an asset's TERM scale condition and condition assessment date by clicking the Edit icon () in the appropriate row.

You will need to add a TERM rating for any new facilities that you created in Chapter 2. If a facility's condition has not yet been assessed, set the TERM scale condition to N/A, and set the assessment date to the date the facility was built.

Infrastructure

The performance measure for infrastructure depends on the miles of track under performance restrictions (i.e. slow zones). In the infrastructure table in Chapter 3, the "Track Under Performance Restriction" column presents this number in miles as previously reported to the NTD. To change this

value, you will need to edit the asset's entry in TAMPLATE Chapter 2. Specifically, click the Edit icon (next to the asset in Chapter 2, and on the "Update Capital Asset Inventory" page, find and update the "Track Under Performance Restriction" field. You can also provide this value when manually adding new assets within Chapter 2.

In cloned TAM plans, highlighted rows in the inventory tables indicate records that were modified from the underlying NTD data in the older TAM plan.

Summary Table

The Chapter 3 summary table includes the Chapter 2 summary inventory metrics for total number, average age, average mileage, average replacement cost, and total replacement cost. The Chapter 3 summary table <u>additionally</u> presents the following information (i) by asset class for revenue vehicles, equipment, and facilities and (ii) by asset class, mode, and type of service for infrastructure:

APPLICABLE TO	REVENUE VEHICLES	EQUIPMENT	FACILITIES	INFRASTRUCTURE
% At or Exceeds ULB	X	X		
% of Track Miles in Slow Zone				X
Number of Facilities Rated Less than 3 on TERM Scale			х	

Review your summarized asset data and make any changes on the "Inventory Table(s)" tab in Chapter 2 or on the "Condition Table(s)" tab to ensure this summary accurately reflects your agency's asset conditions. You are not able to directly edit the summary table within TAMPLATE. For reference, **Appendix A** contains more technical details on the Chapter 3 summary table equations.

Chapter 4: Decision Support

Information entered in Chapter 4 makes up the "Decision Support" section of your TAM plan. Chapter 4 includes the following tabs:

TAB NAME	DESCRIPTION	APPLICABILITY
Basic	Describe the processes or methods your agency uses to make asset management decisions.	All TAMPLATE users
Maintenance, Overhaul, Disposal, Acquisition and Renewal	On these FOUR separate tabs, describe your agency's strategies for each of these four asset management activities.	Tier I TAMPLATE users only
Risk Management	Identify your agency's risks and mitigation strategies.	Optional for all TAMPLATE users

Any elements required to be included in a provider's TAM plan under 49 CFR part 625 include a corresponding regulatory citation in the text below. All other elements are best practices.

Basic

49 CFR § 625.25(b)(3) requires all TAM plans (Tier I and Tier II) include a description of analytical processes or decision-support tools that a provider uses to estimate capital investment needs over time and develop its investment prioritization.

The "Basic" tab applies to all TAMPLATE users. The table on this tab lists the processes and tools your agency uses to support investment decision-making.

For each process/tool your agency uses...

- 1. Click the "Create New Decision Support Entry" button (Figure 17).
- 2. On the "Add New Decision Support" page that appears, name and briefly describe the process/tool (3000 characters max per textbox).
- 3. Click "Add" to save the process/tool.

Basic (Required)	Maintenance Strategy (Tier I)	Overhaul Strategy (Tier I)	Disposal Strategy (Tier I)	Acquisition a Renewal Stra (Tier I)	and Ri ategy M (C	isk anagement Optional)	
			Dec	ision Suppor	-t	Create	New Decision Support Entry
Please identify individual tool entries, click t subsection of	the processes and t or process, click the the Edit icon () to your generated TAM	cools in place to s "Create New De edit a row, or clie plan.	upport investm cision Support E ck on the Trash	ent decision-makir Entry" button in the icon (117) to delete	ng, including p e upper right t it. This table	roject selection to create a new will appear in a	and prioritization. For each table entry. For existing table "Decision Support Tools"
Functions	P	Process/Tool		7	Brief Descri	iption	1
No data foun	d						

Figure 17: Create a new decision support process

Maintenance, Overhaul, Disposal, Acquisition and Renewal

49 CFR § 625.25(b)(6) requires that Tier I provider TAM Plans include a TAM Plan implementation strategy. The four tabs discussed below are mandatory fields in TAMPLATE for Tier I users. However, they are merely one example of how an agency could incorporate the required implementation strategy into its TAM plan.

Maintenance Strategy

This tab applies to <u>Tier I</u> TAMPLATE users. The table on this tab lists your agency's regularly planned maintenance activities, such as inspections and routine preventive maintenance.

For each asset class and regular maintenance activity...

- 1. Click the "Create New Maintenance Strategy" button (Figure 18).
- 2. On the "Add New Maintenance Strategy" page that appears, select the appropriate asset category and class.
- 3. Enter the frequency, average duration (in hours), and cost of the maintenance activity.
- 4. In the textbox, briefly describe the maintenance activity (500 characters max).
- 5. Click "Add" to save the new strategy.

asic Required)	Maintenance Strategy (Tier I)	Overhaul Strategy (Tier I)	Disposal Strategy (Tier I)	Acq Ren (Tie	uisition and newal Strateg er I)	IV	Risk Management (Optional)				
						-	Create	New M	ainte	nance Stra	tegy
			Mainte	nanc	e Strateg	У					
any planned o upper right co Please also el the "Save" or plan. Content	changes or improver orner of the page. Fo aborate on any unpl "Next" button befor added to the "Unpla	nents to these pr or existing table e anned maintenar re leaving the pag anned Maintenan	ocesses. To creat intries, click the ice needs in the je. The table belo ce Needs" will ap	te a nev Edit ico textbox ow will a pear in	w table entry, cl n () to edit a beneath the ta appear in the "M a separate "Un	ick the row, o ble. To lainter planne	e "Create New Maint or click on the Trash o save any change nance Strategy" sub ad Maintenance App	tenance icon (f es in the section roach" s	Strate) to o e text of you ubsec	gy" button delete it. box, please ir compiled tion.	in the click TAM
Functions	Asset Category	Asset ⊽ Class ⊽	Maintenance Activity	V	Frequency	▼ (Avg Duration 🏾 🏹	Cost	7	Updated Date	V
							(Hrs)				

Figure 18: Create a new maintenance strategy

Click the Edit icon (\checkmark) in a row to modify an existing table entry. Click the Trash icon (\overline{m}) in a row to delete an existing entry. Optionally, beneath the strategy table as shown in Figure 19, describe any unplanned maintenance needs that your agency encounters (5000 characters max), and click the "Save" button.

Functions	Asset Category	7	Asset Class	7	Maintenance Activity	7	Frequency	7	Avg Duration (Hrs)	7	Cost	7	Updated Date	7
No data four	nd													
Unplanned Maintenan Needs	d ice	Exai	mple: How	does	your agency addr	ess un	planned maint	enan	ce needs?					

Figure 19: Add agency's approach to unplanned maintenance

Overhaul Strategy

This tab applies to <u>Tier I</u> TAMPLATE users. The table on this tab lists your agency's overhaul strategies for different asset classes. Consider how and when assets get replaced, and what occurs during the overhaul process.

For each asset class and overhaul strategy...

- 1. Click the "Create New Overhaul Strategy" button (Figure 20).
- **2.** On the "Add New Overhaul Strategy" page that appears, select the appropriate asset category and class.

- 3. In the textbox, describe the overhaul strategy (3000 characters max).
- 4. Click "Add" to save the new strategy.

Basic (Required)	Maintenance Strategy (Tier I)	Overhaul Strategy (Tier I)	Disposal Strategy (Tier I)	Acquisiti Renewal (Tier I)	on and Risk Strategy Manag (Optio	jement onal)		
						→ Cr	ate New Overhaul	Strategy
			Over	haul Stra	ategy			
Please describ during the ove processes.	e your asset overhau erhaul process, e.g.,	I strategies for o for mini, mid-life	different asset ty , or major overh	/pes. Conside naul. As applie	r when and how assets a cable, describe any plan	get replaced ned change	l and what activities s or improvements to	occur o these
To create a ne the Edit icon (compiled TAM	ew table entry, click t () to edit a row, or plan.	he "Create New click on the Tra	Overhaul Strates sh icon (👘) to d	gy" button in lelete it. This	the upper right corner o table will appear in an "	f the page. Overhaul St	For existing table en rategy" subsection o	tries, click f your
Functions	Asset Categor	γ 7	Asset Class	7	Overhaul Strategy	7	Updated Date	Y
No data foun	d							

Figure 20: Create a new overhaul strategy

Disposal Strategy

This tab applies to <u>Tier I</u> users. The table on this tab lists your agency's disposal strategies for different asset classes. Consider your approval processes and procedures for physical removal of an asset.

For each asset class and disposal strategy...

- 1. Click the "Create New Disposal Strategy" button (Figure 21).
- **2.** On the "Add New Disposal Strategy" page that appears, select the appropriate asset category and class.
- 3. In the textbox, describe the disposal strategy (2000 characters max).
- 4. Click "Add" to save the new strategy.

Basic (Required)	Maintenance Strategy (Tier I)	Overhaul Strategy (Tier I)	Disposal Strategy (Tier I)	Acquisition and Renewal Strategy (Tier I)	Risk Management (Optional)	
					\rightarrow	reate New Disposal Strategy
			Disp	osal Strategy		
Please describ physical remo	e your asset disposa val of the asset. As a	l strategies for d pplicable, descri	ifferent asset ty be any planned	pes. Consider your organi: changes or improvements	ation's approval proce to these processes.	esses and procedures for
To create a ne the Edit icon (compiled TAM	ew table entry, click t) to edit a row, or plan.	he "Create New I click on the Tras	Disposal Strateg sh icon (†) to d	y" button in the upper rig elete it. This table will app	nt corner of the page. Jear in a "Disposal Stra	For existing table entries, click ategy" subsection of your
Functions	Asset Categor	у 7	Asset Class		rategy 🏹	Updated Date 🛛 🏹
No data foun	d		90			

Figure 21: Create a new disposal strategy

Acquisition and Renewal Strategy

This tab applies to <u>Tier I</u> TAMPLATE users. The table on this tab lists your agency's acquisition and renewal strategies for different asset classes. Consider how and when your agency decides to begin new acquisition activities.

For each asset class and acquisition and renewal strategy...

- 1. Click the "Create New Acquisition and Renewal Strategy" button (Figure 22).
- 2. On the "Add New Acquisition and Renewal Strategy" page that appears, select the appropriate asset category and class.
- 3. In the textbox, describe the acquisition and renewal strategy (2000 characters max).
- 4. Click "Add" to save the new strategy.

Basic (Required)	Maintenance Strategy (Tier I)	Overhaul Strategy (Tier I)	Disposal Strategy (Tier I)	Acquisition and Renewal Strategy (Tier I)	Risk Management (Optional)
				\rightarrow	Create New Acquisition and Renewal Strategy
		A	cquisition a	and Renewal Strat	tegy
Please describ activities. What processes.	e your organization's at are the determinin	acquisition and g factors and ti	I renewal strategi ming of these dec	es for different asset type cisions? As applicable, desc	Explain how you decide to initiate new acquisition cribe any planned changes or improvements to these
To create a ne table entries, Strategy″ sub	w table entry, click to click the Edit icon (section of your comp	he "Create New) to edit a row iled TAM plan.	Acquisition and F , or click on the T	Renewal Strategy" button i rash icon (†) to delete it.	in the upper right corner of the page. For existing . This table will appear in an "Acquisition and Renewa
Functions	Asset Category		et Class 🛛 🏹	Acquisition and Renev	wal Strategy 🏾 🏹 Updated Date 🖓
No data foun	d				

Figure 22: Create new acquisition and renewal strategy

Click the Edit icon (\checkmark) in a row to modify an existing table entry. Click the Trash icon ($\overline{\mathbb{m}}$) in a row to delete an existing entry.

Risk Management

This tab is <u>optional</u> for all users. The table on this tab lists the risks that your agency faces and your corresponding strategies to manage those risks. Consider general types of risk that your asset management strategies may introduce (e.g., service level impacts from preventive maintenance) or mitigate (e.g., safety-related risks).

For each risk management strategy...

1. Click the "Create New Risk Management Entry" button (Figure 23).

- 2. Describe the risk your agency faces and your strategies to mitigate this specific risk (3000 characters max per textbox).
- 3. Click "Add" to save the new strategy.

Basic (Required)	Maintenance Strategy (Tier I)	Overhaul Strategy (Tier I)	Disposal Strategy (Tier I)	Acquisition and Renewal Strategy (Tier I)	Risk Management (Optional)	
			Diale		Create N	New Risk Management Entry
Please identify one. This can these process existing table Management"	y any risks to your as also include how scho es. To create a new t entries, click the Edit ' subsection of your co	sets or organizat aduled maintena able entry, click t icon ()) to ed ompiled TAM plan	ion as a whole (p nce can affect ser the "Create New F it a row, or click o n.	articularly safety-related vice delivery. As applicab tisk Management Entry" I n the Trash icon (†) to o	risks) and describe th le, describe any plan Jutton in the upper ri lelete it. This table w	he mitigation strategies for each ned changes or improvements to ght corner of the page. For ill appear in a "Risk
Functions		Risk	Y	Mitigation Strategy		7
No data foun	nd					

Figure 23: Create new risk management entry

Chapter 5: Investment Prioritization

Chapter 5 includes the tabs listed below. Attached plans and schedules will be included in the appendix of your TAM plan.

TAB NAME	DESCRIPTION	APPLICABILITY
Proposed Investments	Describe the prioritization of investments for your agency to improve or manage a state of good repair.	All TAMPLATE users
Capital Investment Activity Schedules	Attach any plans or schedules for TAM activities.	Tier I TAMPLATE users only

Proposed Investments

49 CFR § 625.25(b)(4) requires all TAM plans (Tier I and Tier II) include the provider's project-based prioritization of investments.

The following steps apply to all TAMPLATE users:

1. In the "Investment Prioritization" textbox, depicted in Figure 24, provide an overview of the investments needed for your agency to maintain or achieve a state of good repair (5000 characters max).

Proposed Investments (Required)	Capital Investment Activity Schedules (Tier I)
	Proposed Investments
Please provide an overview of table below, provide a list of t by year of planned implement compiled TAM plan.	the investments needed for your organization to maintain or achieve a State of Good Repair (SGR). Then in the he selected projects and programs prioritized based on your organization's criteria. Rank the projects and order them ation. Your prioritization overview and investment table will appear in a "Proposed Investment" subsection of your
When you are finished, click "	Save" to save any changes in the textbox, or click "Next" to save and proceed to the next page in this chapter.
Proposed Investments: Pro order them by year of planned	vide a list of the selected projects and programs prioritized based on your agency's criteria. Rank the projects and d implementation.
Investment Prioritization	What investments are needed to maintain or achieve a State of Good Repair (SGR) over the horizon period?

Figure 24: Overview of investments needed

- 2. Click the "Save" button at the bottom of the page before proceeding to the next step.
- 3. List out your agency's proposed investments. For each investment under consideration, click the "Create New Proposed Investment" button (Figure 25). On the "Add New Proposed Investments" page that appears, fill out the following fields, and click the "Add" button:

FIELD	INSTRUCTIONS
Project Name	Enter a project name (5000 characters max).
Project Year	Enter the year of proposed implementation.
Asset Category	Select the asset category targeted by this project.
Asset Class	Select the asset class targeted by this project. This drop-down menu updates based on the selected asset category. If you select "Custom (non-rule) Category" for Asset Class, enter the custom asset type in the textbox that appears.
Cost	Enter the expected project cost.
Priority	Use the drop-down menu to assign a priority (high, medium, low, or other" to the project. If you select "Other", enter a custom priority label in the textbox that appears.

Within the proposed investment table, click the Edit icon (\checkmark) in a row to modify an existing table entry. Click the Trash icon ($\overline{10}$) in a row to delete an existing entry.

o create a n to edit a ro	iew table entry, w, or click on t	click the	e "Create Ne icon (👘) to	delete	oosed Investmer it.	nts" but	ton above t	ne table	e. For ex	kistin	g table entr	ies, c	lick the Edit ic	on (🌶
								_	\rightarrow	C	reate New	Prop	posed Investr	nents
			period?											11

Figure 25: Create new proposed investment

Capital Investment Activity Schedules.

49 CFR § 625.25(b)(7) requires TAM plans for Tier I providers include a description of key TAM activities that the provider intends to engage in over the TAM plan horizon period.

The "Capital Investment Activity Schedules" tab applies to <u>Tier I</u> TAMPLATE users. Following the arrows in Figure 26, attach any work plans or schedules for capital investment activities:

1. Click the "Choose File" button.

- 2. In the pop-up window, locate the file to attach and click "Open".
- 3. Click the "Upload File" button to add the document to the table.

If desired, you can attach multiple files. To delete a previously uploaded file, click the Trash icon (\overline{III}). Uploaded documents will be listed in a table in your TAM plan; when viewed online within the **TAM Plan** section of TAMPLATE, this table will include active links to download attachments.

Proposed Investments (Required)	Capital Investment Activity Schedules (Tier I)							
	Capital Investment Activity Schedules							
You may attach any work p "Choose File" button to sel any previously uploaded do Choose File Hax file size to be 20 MB a	Nans or schedules you have for capital investment ac ect a file and then click the "Upload File" button to co ocuments. Uploaded documents will be included in an sen [STEP 1] nd file types as pdf, doc, docx, xls, xlsx, ppt, pptx	tivities as separate files when delivering this template. Click the mplete the upload. In the table, click the Trash icon () to delete appendix of the generated TAM Plan. [STEP 2] Upload File						
Functions	Docun	nent Name						
No data found								

Figure 26: Upload capital investment activity schedules

Fleet Replacement Module

The Fleet Replacement Module is designed to help you quantify your agency's future fleet needs. **This module is OPTIONAL for all users** and contains the five tabs listed below. Tables from the "New Fleet" and "New Fleet Inflation" tabs make up an appendix in your TAM plan.

Note: This module is being considered for future TAMPLATE updates.

TAB NAME	DESCRIPTION
Existing Fleet	Lists your revenue vehicle assets as reference (Figure 27).
Existing Fleet Remaining Per Year	Ages your fleets and calculates the number of vehicles within their useful life benchmark over the next five years.
Fleet Required	Provide the number of scheduled and spare vehicles to calculate vehicle needs over the next five years.
New Fleet	Summarizes the number of new vehicles to purchase and the resulting cost over the next five years.
New Fleet Inflation	Enter an inflation rate to calculate total fleet replacement costs in future years.

cisting Fleet	Existi Rema	ng Fl ining	eet J Per Ye	ar	Fleet Requi	red	New Fle	et	New Fl Inflatio	eet on				
Existing Fleet This is a listing of your revenue vehicle assets. The table auto-populates with information entered in Chapter 3 and is provided in this module for your reference.														
Asset ⊽ Category	Asset Class	7	Asset Name	7	Manufacturer	7	Model	7	Count	7	RVI 7	Asset Owner	7	Manufacture Year
Revenue Vehicles	AB Articula Bus	- ated			EXAMPLE MANUFACTUR	ER	EXAMPL MODEL NUI	E //BER	24		EXAMPLE RVIID	EXAMI ASSE OWN	PLE T ER	2016

Figure 27: Existing Fleet tab in the Fleet Replacement Module

Completing Your TAM Plan

After completing the other TAMPLATE sections, click the "TAM Plan" link at the top of the page (Figure 28) to compile and load your TAM plan. On this final page of TAMPLATE, you can confirm, view, download, and share your TAM plan. Note that you are not required to submit your TAM plan to FTA, and the TAMPLATE does NOT automatically submit your plan to FTA.



Figure 28: The final section ("TAM Plan") in TAMPLATE

Confirming Your TAM Plan

The TAMPLATE module will prompt you to confirm that the information provided in the TAM plan is complete.⁴ This is NOT the same as obtaining Accountable Executable⁵ approval, or certifying compliance with 49 CFR part 625 through the annual Certifications and Assurances for FTA Grants and Cooperative Agreements (Certifications and Assurances). You will need to separately obtain the Accountable Executive's approval, and your agency will need to certify compliance with TAM in the Certifications and Assurances. There is no specific signature requirement for the TAM plan, although documented approval by the Accountable Executive is required. Agencies may determine the best way to present this documentation.

To confirm completion of your TAM plan, scroll to the gray confirmation box. **This box may autopopulate with the Accountable Executive's name; however, you should enter the name of the individual preparing the TAM Plan.** Then click the "Confirm" button. You can still edit the plan after this step, but you cannot remove your confirmation or re-confirm with a different name.

Share TAM Plan with Accountable Executive(s) (Please click on Share TAM Plan with Accountable Executive(s) button to share the TAM Plan with accountable executives for review.) Generate TAM Plan (Word) Generate TAM Plan (Word)							
	Generate TAM Plan Appendix (Excel)	Generate TAM Plan Appendix (PDF)					
Confirm the TAM Plan Instruction: Please note that the TAM Plan can be confirmed only once. I, Enter Account Executive Name , hereby confirm on that the information provided in this TAM Plan is complete. Confirm							

Figure 29: Confirming your TAM plan

⁴ Users creating an Experimental TAM Plan will not see an option to confirm the plan.

⁵ Each transit provider must designate an Accountable Executive that meets the definition of 49 CFR 625.5.

Sharing Your TAM Plan

Sending to Your Accountable Executive

You can optionally send your TAM plan directly to your Accountable Executive and any other colleagues for review. Click the "Share TAM Plan with Accountable Executive" button, and in the pop-up window, enter an email address and message and click "Send Email." Email recipients do not need to have a TAMPLATE account. They will be emailed a link that takes them to the final compiled TAM Plan within TAMPLATE for review.

Note that email recipients will not be able to directly edit the TAM plan. In addition, they will not be able to add their signature online; they may manually add their signature to a separate copy of the TAM plan. Note that there is no requirement in Part 625 for the Accountable Executive to sign the TAM plan.

Sending to Your Subrecipients

Group Plan Sponsors have the option to share their TAM plan with subrecipients for their review. Click the "Share TAM Plan with Subrecipients" button, and in the pop-up window, enter an email address to share your plan and click "Send Email". Recipients will be emailed a link that takes them to a page in TAMPLATE in which they can view the plan and add their names to review and confirm the plan on behalf of their respective agencies. Subrecipients are NOT able to directly edit the TAM plan, but you as the plan preparer are able to continue making changes within TAMPLATE even after obtaining subrecipient confirmation. A table of subrecipient confirmations is automatically added to your TAM plan.

Sharing with FTA

<u>After confirming your plan is complete</u>, a button will appear with the option to share the completed TAM plan with FTA. Sharing your TAM plan with FTA is optional, and your shared plan will only be utilized for research purposes and to further future development of the TAM program. FTA will review your TAM Plan for compliance during your Triennial and/or State Management review.

Figure 30 below shows both the buttons to request subrecipient review and confirmation, and to share the plan with FTA.

You can continue editing your TAM plan after sharing it with FTA and/or subrecipients. The shared version will dynamically update with any revisions, so you do not need to reshare the plan.



Figure 30. Options to share plan with subrecipients (visible for Group Plans only) and FTA

Downloading Your TAM Plan

Download your TAM plan by clicking the green "Generate" buttons at the top of the page. You can generate and download the TAM plan in a Microsoft Word format or as a PDF. You can also generate and download the TAM plan appendices as an Excel file or as a PDF.

Questions or Feedback?

FTA's <u>TAM webpage</u> is a resource for TAM policies, practices, and examples. In addition, you may email the TAM question mailbox at <u>TAM@dot.gov</u> for specific questions relating to the concepts of the TAM plan development, or to provide feedback on the TAMPLATE tool. Visit the <u>TAM Resource Table</u> for a full list of available TAM resources.

Additional resources for transit asset management include your State DOT, FTA regional office, and industry organizations such as the American Public Transportation Association (APTA), the Community Transportation Association of America (CTAA) and the National Rural Transit Assistance Program (RTAP).

Appendix A: Chapter 2 and 3 Calculations

Formulas for the Chapter 2 and Chapter 3 summary tables are detailed below.

Column names from the Chapter 2 inventory table or the Chapter 3 conditions table are in **bold.** Derived values in the summary tables are in *italics*.

Revenue Vehicles

Calculations by Asset Class

COLUMN	DESCRIPTION	FORMULA
Total Number	Number of vehicles	Sum of Active Fleet Vehicles for <u>Fleet</u> inventory records or Total Number of Vehicles for <u>Count</u> inventory records
Avg Age	Average vehicle age, as of TAMPLATE's published NTD Report Year	(Sum of (NTD Report Year – Manufacture Year) x (Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records)) / Total Number
Avg Mileage	Average total vehicle mileage	(Sum of Total Active Fleet Mileage for <u>Fleet</u> records or Total Number of Vehicles x Average Vehicle Mileage for <u>Count</u> records) / Total Number
Avg Replacement Cost	Average vehicle replacement cost	(Sum of Unit Replacement Cost x (Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records)) / Total Number
Total Replacement Cost	Total replacement cost across assets	Sum of Unit Replacement Cost x (Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records)
% At or Exceeds ULB	Percentage of vehicles at or beyond their useful life benchmark (i.e., not in a state of good repair), considering only vehicles under capital responsibility	This calculation is performed only over inventory records (rows) in each asset class where Capital Responsibility? is 'Yes' and Non-Dedicated Fleet is 'No':
		100% x (Sum of Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records where Past Useful Life Benchmark= 'Yes') / (Sum of Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records)

Calcu	lations	by	Asset	Catego	Ŷ
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COLUMN	DESCRIPTION	FORMULA
Total Number	Number of vehicles	Sum of Total Number over all asset classes
Avg Age	Average vehicle age, as of TAMPLATE's published NTD Report Year	Sum of (<i>Total Number</i> x <i>Avg Age</i> by asset class) over all asset classes / Sum of <i>Total Number</i> over all asset classes
Avg Mileage	Average total vehicle mileage	Sum of (<i>Total Number</i> x <i>Avg Mileage</i> by asset class) over all asset classes / Sum of <i>Total Number</i> over all asset classes
Avg Replacement Cost	Average vehicle replacement cost	Sum of <i>Total Replacement Cost</i> over all asset classes / Sum of <i>Total Number</i> over all asset classes
Total Replacement Cost	Total replacement cost across assets	Sum of <i>Total Replacement Cost</i> over all asset classes
% At or Exceeds ULB	Percentage of vehicles at or beyond their useful life benchmark (i.e., not in a state of good repair), considering only vehicles under capital responsibility	This calculation is performed only over inventory records (rows) in the asset category where Capital Responsibility? is 'Yes' and Non-Dedicated Fleet is 'No':
		100% x (Sum of Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records where Past Useful Life Benchmark= 'Yes') / (Sum of Active Fleet Vehicles for <u>Fleet</u> records or Total Number of Vehicles for <u>Count</u> records)

Equipment

Calculations by Asset Class

COLUMN	DESCRIPTION	FORMULA
Total Number	Number of vehicles	Sum of Total Number of Vehicles
Avg Age	Average vehicle age, as of TAMPLATE's published NTD Report Year	(Sum of (NTD Report Year – Manufacture Year) x Total Number of Vehicles) / <i>Total Number</i>
Avg Replacement Cost	Average vehicle replacement cost	(Sum of Unit Replacement Cost x Total Number of Vehicles) / Total Number
Total Replacement Cost	Total replacement cost across assets	Sum of Unit Replacement Cost x Total Number of Vehicles
% At or Exceeds ULB	Percentage of vehicles at or beyond their useful life benchmark (i.e., not in a state of good repair), considering only vehicles under capital responsibility	This calculation is performed only over inventory records (rows) in the asset class where Capital Responsibility? is 'Yes': 100% x (Sum of Total Number of Vehicles where Past Useful Life Benchmark= 'Yes') / (Sum of Total Number of Vehicles)

Calculations by Asset Category

COLUMN	DESCRIPTION	FORMULA
Total Number	Number of vehicles	Sum of Total Number over all asset classes
Avg Age	Average vehicle age, as of TAMPLATE's published NTD Report Year	Sum of (<i>Total Number</i> x <i>Avg Age</i> by asset class) over all asset classes / Sum of <i>Total Number</i> over all asset classes
Avg Replacement Cost	Average vehicle replacement cost	Sum of <i>Total Replacement Cost</i> over all asset classes / Sum of <i>Total Number</i> over all asset classes
Total Replacement Cost	Total replacement cost across assets	Sum of Total Replacement Cost over all asset classes
% At or Exceeds ULB	Percentage of vehicles at or beyond their useful life benchmark (i.e., not in a state of good repair), considering only vehicles under capital responsibility	This calculation is performed only over inventory records (rows) in the asset category where Capital Responsibility? is 'Yes': 100% x (Sum of Total Number of Vehicles where Past Useful Life Benchmark= 'Yes') / (Sum of Total Number of Vehicles)

Facilities

Calculations by Asset Class

COLUMN	DESCRIPTION	FORMULA
Total Number	Number of facilities	Number of inventory records
Avg Age	Average facility age, as of TAMPLATE's published NTD Report Year	(Sum of (NTD Report Year – Year Built) / Total Number
Avg Replacement Cost	Average replacement cost	(Sum of Unit Replacement Cost) / <i>Total</i> <i>Number</i>
Total Replacement Cost	Total replacement cost across assets	Sum of Unit Replacement Cost
Number of Facilities with Less than 3 on TERM Scale	Number of facilities with a score of 1 or 2 on the TERM Scale (i.e., not in a state of good repair), considering only facilities under capital responsibility	This calculation is performed only over inventory records (rows) where Transit Agency Capital Responsibility (%) is greater than 0:
		Number of records with TERM Scale less than 3

Calculations by Asset Category

COLUMN	DESCRIPTION	FORMULA
Total Number	Number of facilities	Sum of Total Number over all asset classes
Avg Age	Average facility age, as of TAMPLATE's published NTD Report Year	Sum of (<i>Total Number</i> x <i>Avg Age</i> by asset class) over all asset classes / Sum of <i>Total Number</i> over all asset classes
Avg Replacement Cost	Average replacement cost	Sum of <i>Total Replacement Cost</i> over all asset classes / Sum of <i>Total Number</i> over all asset classes
Total Replacement Cost	Total replacement cost across assets	Sum of <i>Total Replacement Cost</i> over all asset classes
Number of Facilities with Less than 3 on TERM Scale	Number of facilities with a score of 1 or 2 on the TERM Scale (i.e., not in a state of good repair), considering only facilities under capital responsibility	Sum of Number of Facilities with Less than 3 on TERM Scale over all asset classes

Infrastructure

Calculations by Asset Class

Calculations depend on the specific guideway element. The tables below present the formulas and the relevant field by guideway element.

COLUMN	DESCRIPTION	FORMULA
Total Number	Track miles, lane miles, or element count depending on asset class	<u>For asset classes in "Elements with Track Miles</u> : Sum of Track Miles
		For asset classes in "Elements with Lane Miles": Sum of Count. Note: for these elements, the Count field contains Lane Miles from the NTD.
		<u>For asset classes in "Elements with Counts"</u> : Sum of Count
% of Track Miles in Slow Zone	Percentage of track miles under performance restrictions (i.e., not in a state of good repair), considering only track under	The output of the calculation below is assigned to the "Tangent-Revenue Service" asset class:
	capital responsibility	(Sum of Track under Performance Restriction) / (Sum of Track Miles for the "Tangent-Revenue Service" asset class + Track Miles for the "Curve-Revenue Service" asset class - Track Miles for the "Revenue Track-No Capital Replacement Responsibility" asset class)

Note: Calculations below are performed by asset class, mode, <u>and</u> type of service.

CATEGORY	ELEMENT NAME
Elements with Track Miles	At-Grade/Ballast (including expressway), At-Grade/In-Street/Embedded, Below- Grade/Bored or Blasted Tunnel, Below-Grade/Cut-and-Cover Tunnel, Below- Grade/Retained Cut, Below-Grade/Submerged Tube, Elevated/Concrete, Elevated/Retained Fill, Elevated/Steel Viaduct or Bridge
Elements with Lane Miles	Controlled Access High Intensity Busway, Exclusive Fixed Guideway, Exclusive High- Intensity Busway
Elements with Counts	Double Crossover, Grade Crossings, Lapped Turnout, Rail Crossings, Single Crossover, Single Turnout, Slip Switch, Substation Building
Elements <u>without</u> Counts	Overhead Contact System/Power Distribution, Substation Equipment, Third Rail/Power Distribution, Train Control & Signaling

Calculations by Asset Category

COLUMN	DESCRIPTION	FORMULA
Total Number	Track miles, lane miles, or element count depending on asset class	Sum of <i>Total Number</i> over all asset classes, modes, and types of service
% of Track Miles in Slow Zone	Percentage of track miles under performance restriction (i.e., not in a state of good repair), considering only track under capital responsibility	The calculation below is performed over all modes and types of service and is assigned to the "Tangent-Revenue Service" asset class: (Sum of Track under Performance Restriction) / (Sum of Track Miles for the "Tangent-Revenue Service" asset class + Track Miles for the "Curve- Revenue Service" asset class - Track Miles for the "Revenue Track-No Capital Replacement Responsibility" asset class)