

Transit Asset Management (TAM) Draft Plan

Subrecipient Workshop – Summer 2018

July 16-17, 2018



Presentation Outline

- TAM Plan Overview
- Useful Life Benchmarks
- Performance Measure Targets
- Asset Inventory/Condition Summary
- Investment Prioritization
- Next Steps
 - Accountable Executive Approval process
- Q & A

FTA Transit Asset Management Requirements Overview

- TAM Purpose - Business model that uses asset condition to guide optimal prioritization of funding to keep transit systems in State of Good Repair (SGR)
- Objective:
 - Better manage public transit capital assets to:
 - ✓ Enhance Safety
 - ✓ Reduce Maintenance Costs
 - ✓ Increase Reliability
 - ✓ Improve Performance

TAM Group Plan Participants

Sub-Group	Participants	Revenue Vehicles	Facilities	Equipment	Total Assets
5311 Rural	82	519	58	1	578
Small Urban	7	161	18	35	214
Large Urban	2	76	6	18	100
Total	91	756	82	54	892

Useful Life Benchmark (ULB)

- *Useful Life Benchmark (ULB)* - expected life cycle or the acceptable period of use in service for a capital asset
- FTA requires ULB be expressed in years
- FTA established default ULB values, but allows Plan sponsors to develop our own
- ULB different from Minimum Service Life requirement for FTA grant compliance

Useful Life Benchmarks (ULBs)

<i>Asset Category/ Class</i>	FTA Default ULB	GDOT TAM Plan ULB
<i>Rolling Stock</i>		
Bus	14 yrs.	14 yrs.
Cutaway Bus	10 yrs.	7 yrs.
Minivan	8 yrs.	8 yrs.
School Bus	14 yrs.	15 yrs.
Van	8 yrs.	8 yrs.
<i>Equipment</i>		
Automobile	8 yrs.	8 yrs.
Trucks and Other Rubber Tired Vehicles	14 yrs.	10 yrs.
Equipment	n/a	14 yrs.

FTA TAM Performance Measures

- Rolling Stock - Percentage of revenue vehicles that have met or exceeded their Useful Life Benchmark (ULB)
- Facilities - Percentage of facilities with condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) scale (*1=Poor to 5=Excellent*)
- Equipment - Percentage of support vehicles that have met or exceeded their Useful Life Benchmark (ULB)

Performance Targets

Targets for Performance Measures – FTA Required

- GDOT (as Group Plan Sponsor) sets targets annually for each asset class
- Supported by most recent condition data
- Targets would apply to Group as a whole
- Reported annually to National Transit Database (NTD)

FY 2019 Performance Targets – Rolling Stock and Equipment

Asset <i>Category/Class</i>	Useful Life Benchmark (ULB)	FY19 Performance Target
<i>Rolling Stock</i>		
BU – Bus	14 yrs.	15%
CU - Cutaway Bus	7 yrs.	10%
MV – Minivan	8 yrs.	50%
SB - School Bus	15 yrs.	50%
VN – Van	8 yrs.	50%
<i>Equipment</i>		
AO – Automobile	8 yrs.	55%
Trucks and other vehicles	10 yrs.	55%

FY 2019 Performance Targets - Facilities

Asset Category/Class	Performance Target (Pct. Rated Below 3.0 on TERM Scale)
Facilities	
Administrative	25%
Maintenance	25%
Passenger/Parking Facilities	10%

TAM Plan Required Elements

1. Inventory of Capital Assets
2. Condition Assessment
3. Decision Support Tool
4. Investment Prioritization

Inventory of Capital Assets

- Listing of all transit capital assets:
 - Appendix A of TAM Plan
 - Includes transit assets acquired without FTA funds
- Assets broken out by Category:
 - Revenue Vehicles
 - Equipment
 - Non-revenue support vehicles
 - Non-vehicle equipment >\$50,000
 - Facilities

Condition Assessment

- Required for inventoried assets for which Subrecipient/Provider has direct capital responsibility
- Methods Used to Assess Condition:
 - Rolling Stock – Vehicle age relative to Useful Life Benchmark
 - Facilities – Based on field survey, with rating based on FTA TERM scale (1 – 5)
 - Equipment – Vehicle age relative to Useful Life Benchmark
- Used to monitor asset performance and plan capital replacement/re-investment prioritization

Summary of Rolling Stock: 5311 Rural Program Providers

Asset Class	Total No.	Average Age	Average ULB	Number Exceeding ULB	Average Mileage	Average Value
CU – Cutaway Bus	510	2.7	7	15	73,061	\$45,802
MV – Minivan	1	11.0	8	1	106,796	\$44,583
VN – Van	8	6.0	8	2	118,003	\$39,387
Total	519	2.8	7	18	73,818	\$45,701

Summary of Rolling Stock: 5307 Small Urban Providers

Asset Class	Total No.	Average Age	Average ULB	Number Exceeding ULB	Average Mileage	Average Value
BU – Bus	106	7.3	14	12	196,061	\$307,415
CU – Cutaway Bus	39	6.0	7	21	181,866	\$102,992
SB – School Bus	16	15.2	15	10	160,133	\$270,506
Total	161	7.8	12	43	189,052	\$254,228

Summary of Rolling Stock: 5307 Large Urban Providers

Asset Class	Total No.	Average Age	Average ULB	Number Exceeding ULB	Average Mileage	Average Value
BU – Bus	50	8.7	14	8	299,651	\$473,270
CU – Cutaway Bus	22	5.0	7	8	108,841	\$125,597
VN – Van	4	9.5	8	4	56,136	\$34,532
Total	76	7.7	12	20	231,600	\$349,537

Decision Support Tool

- Utilized FTA's Transit Economic Requirements Model (TERM-Lite) software program as Decision Support Tool to:
 - Perform asset lifecycle cost analysis
 - Prioritize projects
 - Estimate capital investment needs over time

Investment Prioritization

- A prioritized list of investments to improve state of good repair of capital assets ordered by year of planned implementation
- Based on asset condition/age
- Fiscally constrained based on estimated funding levels
- Covers 4-Year (2019 – 2022) Plan Horizon

Investment Prioritization Criteria

- Used FTA Performance Measures as indicators of asset condition
- Rolling Stock and Equipment prioritized by age compared with Useful Life Benchmark (ULB)
- Facilities prioritized by Condition TERM scale (1=poor 5=Excellent) and Age
- Revenue Vehicles prioritized above Facilities

Investment Prioritization

Rural 5311 Providers Summary

Asset Category	2019		2020		2021		2022	
	Cost (\$M)	Qty.	Cost (\$M)	Qty.	Cost (\$M)	Qty.	Cost (\$M)	Qty.
Revenue Vehicles	\$1.4	29	\$2.1	45	\$4.7	104	\$5.5	125
Equipment					\$0.02	1		
Facilities	\$1.3	4						
<i>Total</i>	<i>\$2.7</i>	<i>33</i>	<i>\$2.1</i>	<i>45</i>	<i>\$4.7</i>	<i>105</i>	<i>\$5.5</i>	<i>125</i>

Investment Prioritization

Small Urban Providers Summary

Asset Category	2019		2020		2021		2022	
	Cost (\$M)	Qty.	Cost (\$M)	Qty.	Cost (\$M)	Qty.	Cost (\$M)	Qty.
Revenue Vehicles	\$8.9	42	\$6.9	29	\$4.2	11	\$3.0	17
Equipment	\$1.1	13	\$0.5	5	\$0.3	4	\$0.1	2
Facilities			\$0.8	1	\$0.2	3		
<i>Total</i>	<i>\$10.0</i>	<i>55</i>	<i>\$8.2</i>	<i>35</i>	<i>\$4.7</i>	<i>18</i>	<i>\$3.1</i>	<i>19</i>

Investment Prioritization

Large Urban Providers Summary

Asset Category	2019		2020		2021		2022	
	Cost (\$M)	Qty.	Cost (\$M)	Qty.	Cost (\$M)	Qty.	Cost (\$M)	Qty.
Revenue Vehicles	\$6.7	22	\$2.9	13	\$0.8	7	\$3.6	11
Equipment	\$0.2	5	\$0.2	9	\$0.1	2	\$0.02	1
Facilities-Related			\$2.7	20	\$5.7	1		
<i>Total</i>	<i>\$6.9</i>	<i>27</i>	<i>\$5.8</i>	<i>42</i>	<i>\$6.6</i>	<i>10</i>	<i>\$3.6</i>	<i>12</i>

Accountable Executive Approval Process

- Each Participant is required to designate an “Accountable Executive” (defined on next slide)
- Accountable Executive will be requested to approve Final TAM Plan and FY19 Performance Targets on behalf of their respective public agency/organization

Accountable Executive Definition

- *Accountable Executive* - a single, identifiable person who has ultimate responsibility for:
 - carrying out the safe management of a public transit subrecipient/agency and its assets; and
 - control and direction over the human and capital resources needed to implement the agency's portion of the transit asset management plan
- Examples: Mayor, City Manager, Executive Director

Next Steps/Schedule

- Draft TAM Plan Comment Period: July 11 – August 10
- Final Opt-Out Deadline: August 1
- Final TAM Plan provided to Participant Accountable Executives for approval: Aug. 21
- Obtain approval/signature from Participant's Accountable Executive: by Sept. 17
- Official filing of Approved TAM Plan: Sept. 21

Q & A

Questions ?

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GDOT's Initial Performance Targets

Asset Category	Performance Measure	Initial Target FY18	Actual Performance
Rolling Stock – revenue vehicles by mode	Percentage of vehicles met or exceeded Useful Life Benchmark (ULB)	15%	11%
Equipment – non-revenue support service and maintenance vehicles	Percentage of vehicles met or exceeded ULB	50%	50%
Facilities – maintenance and administrative facilities; passenger stations (buildings); and parking facilities	Percentage of assets with condition rating below 3.0 on FTA TERM scale	40%	3%