



**TRANSIT ASSET MANAGEMENT (TAM)  
SamTrans TAM Plan & TAM Policy  
Board Meeting – November 7, 2018**

## ***TRANSIT ASSET MANAGEMENT (TAM)***

- **TAM Overview**
- **Federal Requirements for TAM**
- **TAM Fundamental Principles**
- **FTA's Nine Element TAM Plan**
- **Transit Economic Requirements Model (TERM) Results & Investment Strategy**
- **Phased Implementation**
- **Acceptance of a TAM Policy**

## ***TAM Overview***

- In 2012, federal legislation called for the FTA to establish new long-term programs for Transit Asset Management (TAM).
- In October 2016, the FTA published its TAM Final Rule to guide state and local transit providers.
- TAM provides a detailed framework for transit agencies to maintain a State of Good Repair (SOGR) by monitoring and managing assets, improving safety, increasing reliability and performance, and establishing performance measures.
- The District's TAM Plan includes new procedures to meet its SOGR performance targets and inform future investments through its annual capital budget process.
- Agencies that receive FTA funds are required to create and maintain a TAM Plan (target date October 1, 2018).

## *Minimum Federal Requirements for TAM*

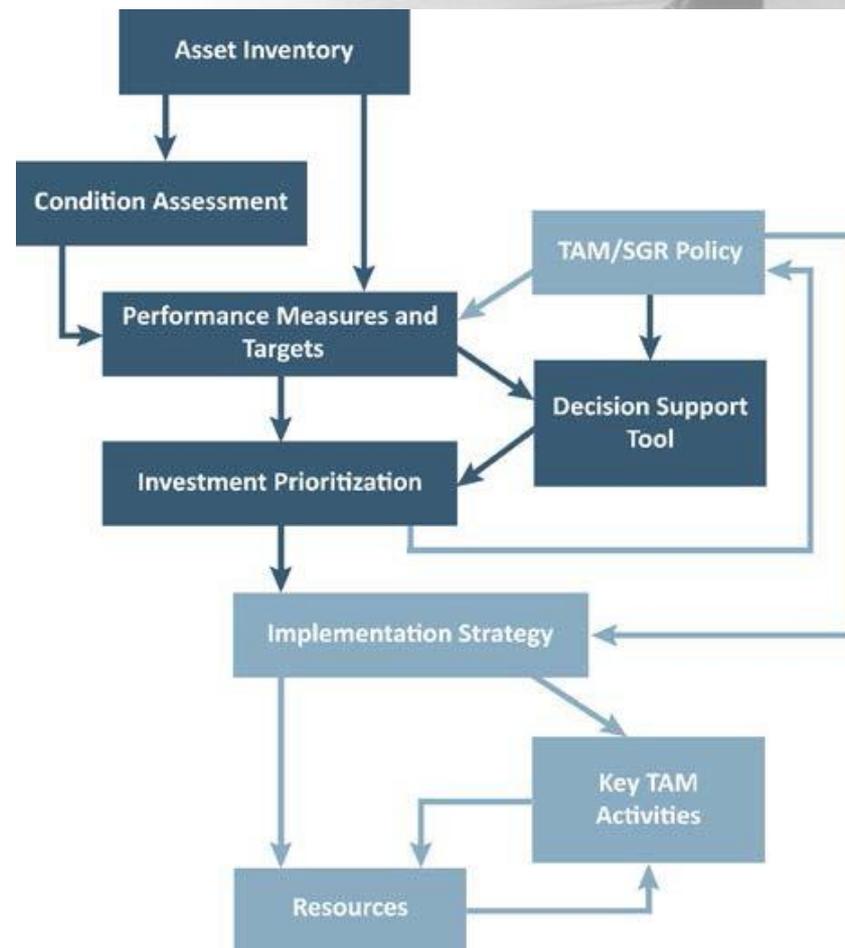
- Create, maintain, and update a TAM Plan
- TAM Plan data and practices shall be self-certified annually
- Submit annual SOGR data and reports through the National Transit Database (NTD)
- Satisfactorily conform with triennial reviews and State management review for audit/oversight

## ***TAM Fundamental Principles***

- Asset management is an essential element of good business planning and effective lifecycle planning; it requires coordination on a District-wide level.
- Capital planning/programming benefits from accurate and reliable TAM data which in turn will recommend timely investment decisions, work prioritization and SOGR planning.
- Lifecycle management allows the District to predict asset and infrastructure needs based on data matrices.
- Comply with FTA's Nine Element TAM Plan.

## *FTA's Nine Element TAM Plan*

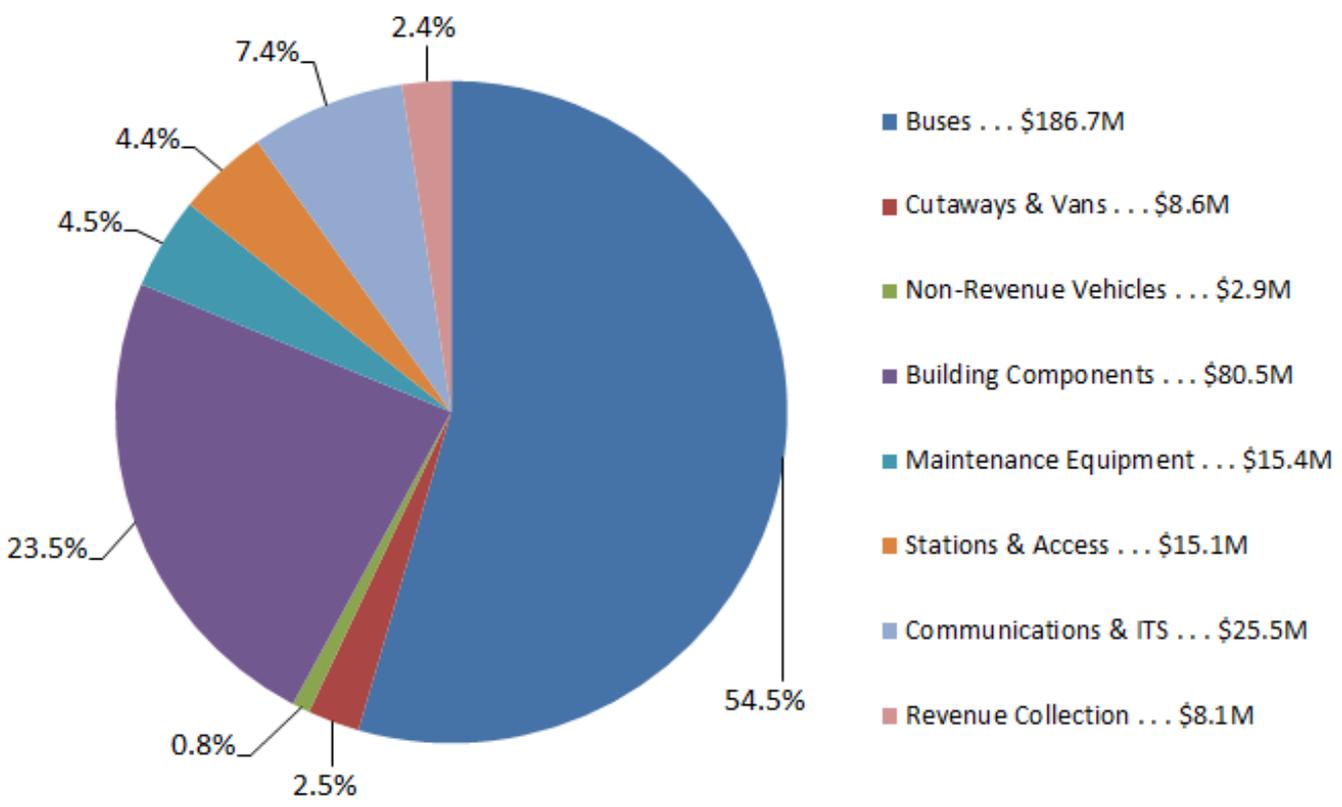
1. Inventory of Assets
2. Condition Assessment of Assets
3. TAM Policy
4. TAM Metrics and Targets
5. Investment Prioritization Strategy
6. Investment Decision Support Tools
7. TAM Implementation Guidelines
8. TAM Resources
9. TAM Evaluation Plan



# SamTrans Assets Estimated to be \$342.8M

Revenue fleet and facilities assets account for 81% of total inventory value

**Existing Asset Base by Category**





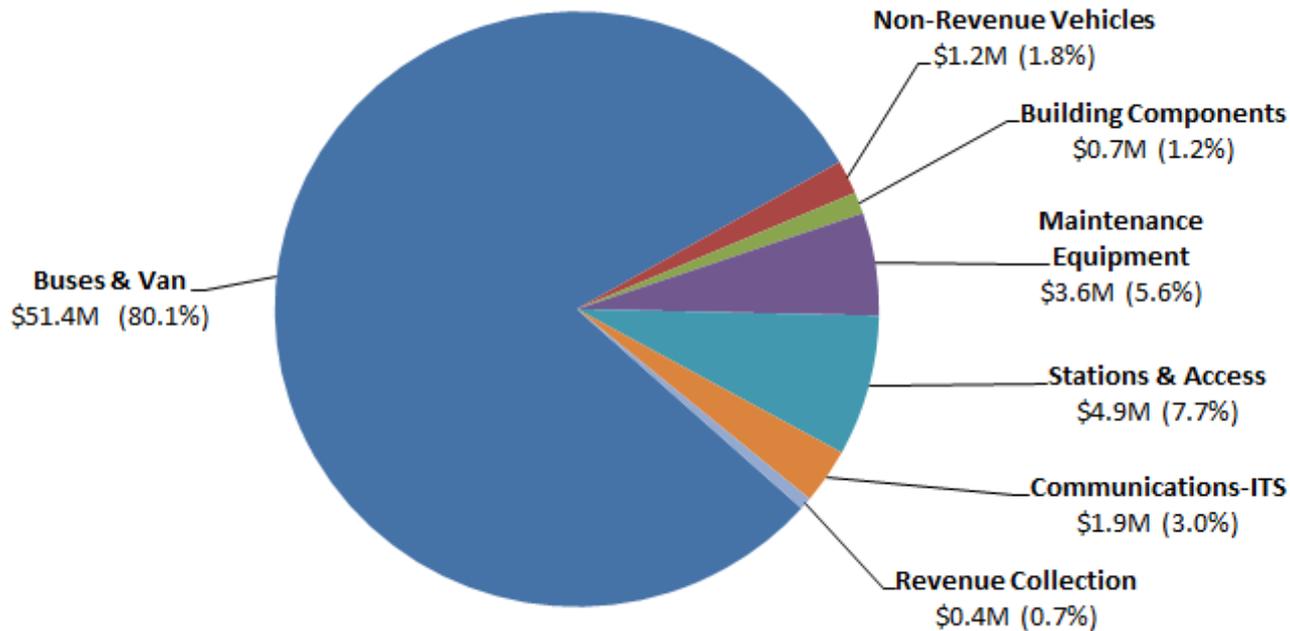
## FTA Performance Measures

Grantees are required to report performance measures and targets as outlined in the table below.

<i>Asset Type</i>	<i>FTA Definition</i>
<b>Facilities</b>	The percentage of facilities within an asset class, rated below condition 3 on the FTA TERM scale
<b>Rolling Stock</b>	The percentage of revenue vehicles within a particular asset class that have either met or exceeded their Useful Life Benchmark (ULB)
<b>Infrastructure</b>	The percentage of track/rail segments with performance restrictions. <i>Note -- this asset type does not apply to SamTrans.</i>
<b>Equipment</b>	The percentage of non-revenue vehicle, support service and maintenance vehicles that have either met or exceeded their ULB

## SamTrans FY18 SOGR Backlog is \$64.1 million

- The SamTrans FY18 SOGR Backlog measures the value of assets that exceed their useful life as of the end of FY18
- SOGR Backlog value (\$64.1M) largely reflects pending 60-foot articulated buses that exceed their useful life by 2 to 3 years; such replacement buses are scheduled to arrive in CY2019.





## The 20-year projected value for SamTrans Capital Investment Plan (CIP) plus Unconstrained SOGR Reinvestment is \$222.4 million

### SamTrans CIP plus Unconstrained SOGR Reinvestment Projection (Millions of \$YOE) <sup>1</sup>

Asset Type	2018-2022	2023-2027	2028-2032	2033-2037	20-Year Total
Facilities	\$12.3	\$17.9	\$17.0	\$15.5	\$62.6
Stations	\$5.9	\$0.2	\$7.6	\$8.3	\$22.0
Systems	\$15.9	\$24.1	\$4.8	\$0.7	\$45.5
Vehicles <sup>2</sup>	\$28.3	\$10.9	\$23.7	\$29.4	\$92.3
Annual Average	\$12.5 /yr	\$10.6 /yr	\$10.6 /yr	\$10.8 /yr	\$11.1 /yr
<b>Total</b>	<b>\$62.4</b>	<b>\$53.1</b>	<b>\$53.1</b>	<b>\$53.9</b>	<b>\$222.4</b>

1. Analysis in Year of Expenditure (YOE) – calculated with an inflation rate of 2.7%
2. Vehicle funds here reflect the 20% local commitment by SamTrans; this value does not include any matching grant funds

## ***Phased Implementation***

### **Completed**

- District set SOGR performance targets with MTC & FTA
- Draft TAM Policy & Plan

### **Work-In-Progress**

- District to adopt TAM Policy & TAM Plan on/before October 1, 2018
- File Annual NTD posting with added TAM records

### **Within the 1<sup>st</sup> Year of TAM**

- Extend TAM training to applicable staff in multiple departments
- Dataflow feeds into Capital Improvement Plan (CIP)
- Define functional requirements and strategy for decision-making TAM & Enterprise Asset Management (EAM) tools
- Complete condition assessment updates for 25% of District's buildings & facilities

### **Every 4-year TAM cycle**

- Ongoing assessment of TAM Program; it's a dynamic & interactive process
- Receive feedback from FTA and APTA upon triennial audit
- Adjust the TAM Plan based on recommendations and improved business enterprise systems