Stark Area Regional Transit Authority Canton, Ohio

Connecting TAM To Business Practices

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Grants Manager/Asset Management Coordinator



Connecting TAM To Business Practices

- > Tier II
- > 34 fixed routes
- County wide Proline (Paratransit) services.
- > Service area 576.2 square miles
- > **Population 376,000**
- > 2.4M 2018 Passenger Trips
- > 1 Administrative/Maintenance Facility/Bus Garage
- > 4 Transit Stations
- > 46 Fixed Route, Diesel, CNG and Hydrogen Buses
- > 51 Proline (Paratransit), Diesel, CNG Buses
- > 14 Support Vehicles
- > 1 Diesel Fueling Station
- > 2 CNG Fueling Stations (1 Public Station)
- > 1 Hydrogen Fueling Station
- > 6 Subrecipients Separate Group TAM Plan









SARTA's Asset Management System

SARTA uses Trapeze EAM (Maintenance) and Great Plains (Finance) for Asset Management information and FTA Workbook for Small Providers.

TAM

COO Accountable Executive

Maintenance Supervisor

Grants Manager/Asset Management Coordinator

Organizational Culture

Resistance to change – Buy-In... It starts at the top!

CEO

COO

Maintenance

Finance

If what was done in the past was working why change it!

New mantra - Change in culture to reflect greater accountability through an inclusive performance measurement process.



What Once Was...

Departments working in silos...

Needing reliable data...



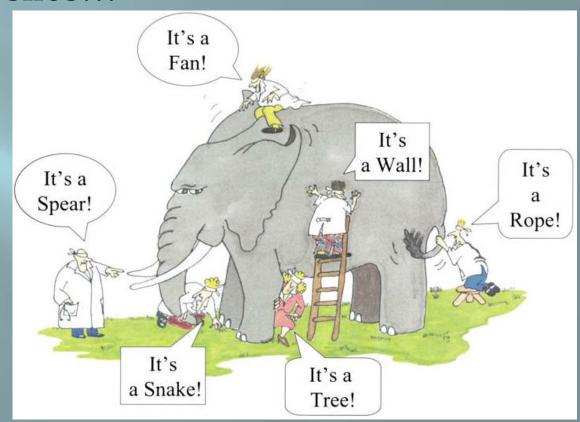
Questioning-

When will we replace...

When can we repair...

We are doing what...

Do we have funding for...





Is now... *Forward* Thinking – Cross Agency Collaboration

Organizational Vision and Performance Planning

TAM is a day-to-day process – Everyone is involved - TAMbassadors

Inventory - Comprehensive Ratings

Maintenance – Work Orders/Performance Measures

Operations - Risk

Finance - Budgets/Funding

Reporting - Long Range Transit Plans/MPO



Putting Asset Information into Action

SARTA's Asset Management Program

Cross-agency collaboration towards a common goal to deliver safe and reliable transportation while still working within agency funding constraints.

Success starts at the top!

- > Targets Age, Condition and Performance Assessments
 - Reliable data becomes information
 - Using information to achieve organizational goals.



Ways to Assess Assets

- > Age-based Assets should be scheduled for replacement based on Useful Life ULB
- ➤ Condition-based Assets should be replaced once inspections identify deteriorated conditions.
- ➤ **Performance-based** Assets should be replaced when the asset fails to meet required performance and reliable levels.
- ➤ Comprehensive Assessment Combination of age, condition, performance information and maintenance history.



> Age-Based

Vehicle Replacement Schedule - ULB

Inventory Table from FTA Tier 2 TAM Plan Template

T Table									2010	2020	2024	2022	2022	2024
Inventory Table									2019	2020	2021	2022	2023	2024
									28	11	15	14	13	10
								Mark BU	0	0	4	4	5	4
								Mark CU	8	8	10	8	8	8
								Target BU	0.15	0.02	0.15	0.13	0.19	0.09
								Target CU	0.39	0.19	0.15	0.15	0.07	0.11
							47	BU	7	1	7	6	9	4
				Target Year	2020		54	CU	21	10	8	8	4	6
Asset Category	Asset Class	Asset Nan	ID/Serial I	Acquisition '	Age (Yrs)	ULB YEAR	ULB	Over ULB						
T.	_	_	-	_	-	_	~	-						
RevenueVehicles	BU - Bus	30' Bus	467	2004	-16	2014	10	-6	1					
RevenueVehicles	BU - Bus	30' Bus	468	2004	-16	2014	10	-6	1					
RevenueVehicles	BU - Bus	30' Bus	872	2008	-12	2018	10	-2	1					
RevenueVehicles	BU - Bus	30' Bus	873	2008	-12	2018	10	-2	1					
RevenueVehicles	BU - Bus	30' Bus	874	2008	-12	2018	10	-2	1					
RevenueVehicles	BU - Bus	30' Bus	875	2008	-12	2018	10	-2	1					
RevenueVehicles	BU - Bus	40' Bus Hy	976	2009	-11	2021	10	-1			1			
RevenueVehicles	BU - Bus	40' Bus Hy	977	2009	-11	2021	12	1			1			
RevenueVehicles	BU - Bus	30' Bus Hy	978	2009	-11	2019	10	-1	1	1				
RevenueVehicles	BU - Bus	40' Bus Hy	1079	2010	-10	2022	12	2				1		
RevenueVehicles	BU - Bus	35' Bus	1080	2010	-10	2022	12	2				1		
RevenueVehicles	BU - Bus	35' Bus	1081	2010	-10	2022	12	2				1		
RevenueVehicles	BU - Bus	35' Bus	1082	2010	-10	2022						1		
RevenueVehicles	BU - Bus	35' Bus	1083									1		
RevenueVehicles	BU - Bus	35' Bus	1084	2010	-10	2022						1		
RevenueVehicles	BU - Bus	35' Bus	1085	2010	-10	2022						1		
-														-



Vehicle Rating

Combination of age, work orders, performance measures.

A.	A. <u>Vehicle Condition</u>							
	Score	Rating	Desciption					
	81-100	Excellent	New asset; no visible defects.					
	61-80	Good	Some slighlty defective/ deteriorated component(s)					
	41-60	Moderate	Some moderatly defective/ detriorated component(s)					
	21-40	Poor	Requires frequent major repairs (less than 6 months between major repairs)					
	<20	Unsafe/Inoperatable	In need of immediate repair or replacemen; Item is a safety hazard, and may have critically damaged component(s)					

➤ Comprehensive Rating – Overall a more accurate assessment.

<mark>0875 </mark>	
1. Engine	3
2. Drive-train	3
3. Electrical	3
4. Suspension/steering	3
5. Structure	8
6. Body interior	2
7. Body exterior	2
8. A/C, Heating	5
9. Wheelchair safety	10
10. Safety Items	10
Total Rating	49

10
10
7
10
10
10
10
10
10
10
97



TAM Facility Performance Measure Reporting Guidebook:

Condition Assessment Calculation

Federal Transit Administration
U.S. Department of Transportation
Version 1.2 March 2018
Update Appendix B

Equipment

Equipment related to the funtion of the facility

Rating Scale:

1 = Poor equipment is well past its useful life and has critical defects

affecting function and ability to meet standards.

Issues are beyond repair and warrant detailed review.

2 = Marginal equipment has exceeded useful life defects are critical and/or

widespread. No longer meets needs or current standards and requires

partial replacement at a minimum

3 = Adequate repairs are needed some deterioration exist and maintenance needs

are considerable. Equipment still meets needs and is still within its

useful life.

4 = Good minor deterioration equiment may be outdated but still meets

needs of facility with minimal routine maintenance

5 = Excellent New equipment no apparent defects serving the needs of the

facility.

Areas Inspected:

Equipment
Substructure
Shell
Interiors
Conveyance
Plumbing
HVAC
Fire Protection
Electrical
Site



Facility Rating

Sub-Component Rating Summary

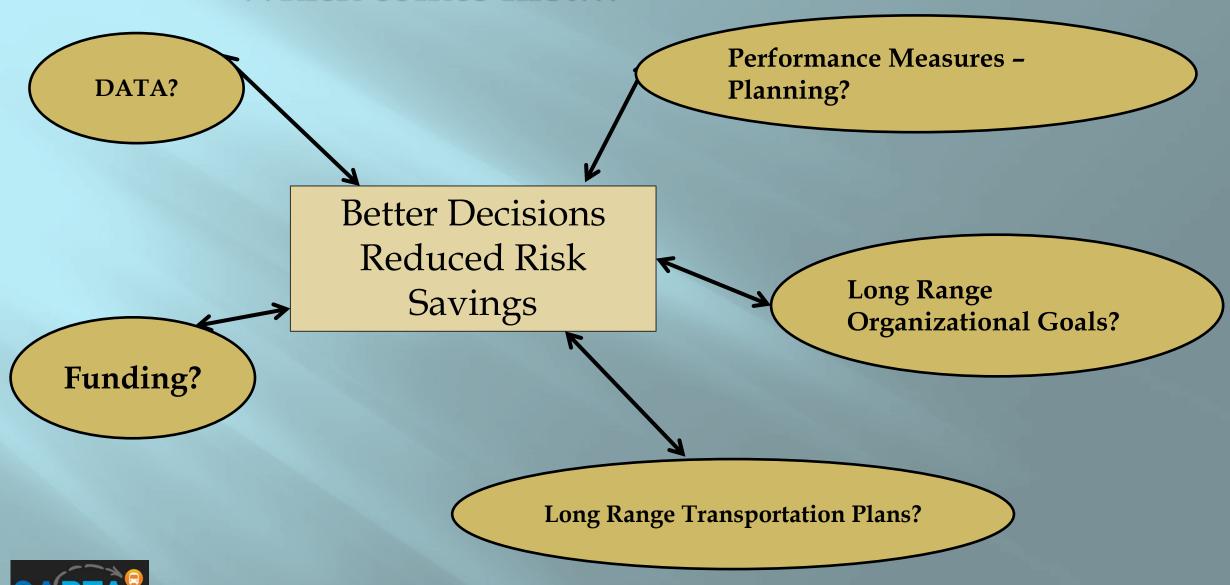
Component	Sub-components	1-5 Rating	Component	Sub-components	1-5 Rating
Substructure	Foundation		•	Energy supply	_
	Basement		HVAC	Generation/distribution	
	Superstructure		HVAC	Controls	
Shell	Roof			Chimneys/Vents	
Sileii	Exterior			Sprinklers	
	Shell appurtenances		Fire Protection	Standpipes	
	Partitions		11010011011	Hydrants	
Interiors	Stairs			Distribution	
	Finishes		Electrical	Wiring	
	Elevators		Electrical	Communications	
Conveyance	Escalators			Other	
	Lifts		Equipment		
	Fixtures			Roadways/Driveways	
Plumbing	Water Distribution			Signage	
riumbing	Sanitary Waste			Parking lots	
	Rain water drainage		Site	Pedestrian Areas	
HVAC	Energy supply			Fences/Walls	
	Generation/distribution			Landscaping	
	Controls			Site Utilities	
	Chimneys/Vents				

Stark Area Regional Transit Authority 2018 TAM Building Inventory Assessment	•		
Inspection Completed by (Signature): Inspection Completed by (Print Name):	Maintenance Manger / Boff- 700 Date Inspection Completed:	Å	
John D Faccell/ Richard	Kars4 11/7/18		
Equipment related to the function of the facility		Overhead Garage Doors and Gates	Rating
		Door 1	1
1 = Poor	equipment is well past its useful life and has critical defects	Gate	N/A
	affecting function and ability to meet standards.	Door 2	4
	Issues are beyond repair and warrant detailed review.	Gate	4
2 = Marginal	equipment has exceeded useful life defects are critical and/or	Door 3	4
	widespread. No longer meets needs or current standards and requires partial replacement at a minimum	Gate	4
		Door 4	4
3 = Adequate	repairs are needed some deterioration exist and maintenance needs are considerable. Equipment still meets needs and is still within its	Gate	4
	useful life.	Door 5	4
		Gate	4
4 = Good	minor deterioration equipment may be outdated but still meets		
	needs of facility with minimal routine maintenance	Door 6 Gate	4
5 = Excellent	New equipment no apparent defects serving the needs of the facility	Gate	4
		Door 7	1
		Gate	N/A
		Door 8	4
		Gate	4
		Door 9	2
		Gate	N/A
		Door 10	1
		Gate	N/A
		Door 11	4
		Gate	4
		Door 12	4
		Gate	N/A

The overall rating for this facility was a 4 - items that needed repair are noted. Anything under a 4 is then scheduled to be funded and corrected.



Which comes first...



Need further assistance?

FTA TAM

https://www.transit.dot.gov/TAM

APTA Standards

https://www.apta.com/research-technical-resources/standards/sustainability/

Thank You

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