

Washington Metropolitan Area Transit Authority

Target Setting in Transit: Using Data to Involve Staff Across an Agency

11th Annual National Conference on Transportation Asset Management

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Overview of Today's Presentation

Performance management at WMATA How it all fits together

Defining success

Annual target-setting for Key Performance Indicators

Getting ready

Targets for new Asset Management measures



Establishing Performance ManagementFive Components



Board Goals, GM Priorities

KPIs & Measures

Targets

Business Plans & Actions

Report Results

STRATEGIC PLAN 2013-2025

Where we want to go

Track progress toward goals

Sets end point/ defines success Plan the work and identify resources

Assess and report results



Demonstrate accountability to customers and the Board by facilitating data-driven decision making, collaboration, and regular reporting on performance



Performance Management

Goals and Priorities

KPIs & Measures

Key Performance Indicators

Bus On-Time Performance

🚴 Rail Customer OTP

Bus Fleet Reliability

Rail Fleet Reliability

Escalator Availability

Elevator Availability

Customer Injury Rate

Employee Injury Rate

Crime Rate

Customer Satisfaction

Other Measures

Rail Crowding

Bus Crowding



Business Performance Measures

Finance

Capital Funds Invested

Operating Budget Variance

Disadvantaged Business Enterprise

Human Resources

Vacancy Rate

Environment

Energy and Water Usage

Board Measures

Bus Stop Accessibility

Household & Population Growth Near Transit

Rail Station Walkshed Coverage

Future:

Transit Asset Mgmt. Measures



Performance Management

Targets

Executives define success by setting targets annually, considering:

Audience

- External
- Internal

Purpose

- Stretch
- Easy to attain
- Manage expectations

Inputs

- Data trends
- Actions
- Resources
- Externalities
- Peers
- Challenges

Target Type

- Percent change
- Number
- Return to base year
- Directional

Timeframe

- Weekly
- Monthly
- Annually



Defining Success

Goal: Meet or exceed customer expectations by delivering quality service

KPI: Rail Fleet Reliability

Current CY15 Target: 65,000

Recommended CY16 Target: 61,000

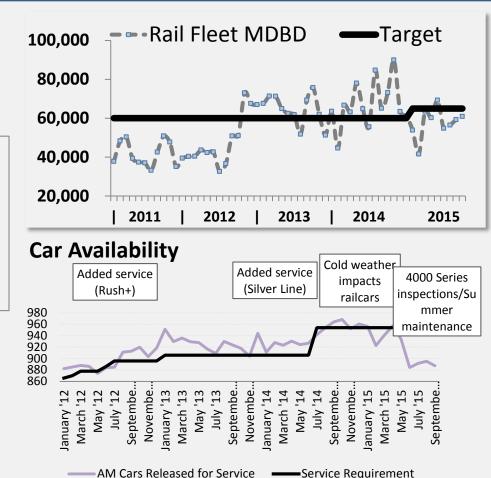
Why? Low spare ratio means limited flexibility to keep cars out of service for repair, inadequate parts inventories, and cars not hardened for winter

Key Actions

- Board resolution to adopt revised procurement policy
- Long-term improvement in spare ratio with 7Ks
- Develop solutions for reliability challenges on existing fleet (CMNT) and implement campaigns (CMNT), ex:
 - Expand propulsion overhauls in maintenance program to include high failure parts (CMNT) and identify software solution (CENV)

Barriers

- Inadequate inventory of railcar parts (70+ parked)
- 7K presently at 30,000 Miles Between Delays (contractually by design at this stage, expected to improve in future years)
- 7K field modifications require long-term dedicated maintenance shop space, which may impact the # of railcars undergoing maintenance on existing older fleets



7K Delivery Schedule

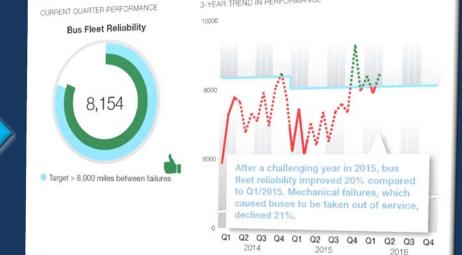
	Base 64 Cars	Option 4 300 Cars 1k Repl	Option 1 64 Cars Dulles	Option 3 100 Cars 4k Repl	Option 2 130 Cars 5k Repl	Option 5 90 Cars 5k Rep
Contract	Aug	Aug	Sept	Apr	Jul	Jul
Award	2010	2010	2012	2013	2015	2015
End	Sept	Feb	Oct	Aug	Aug	Apr
Delivery	2015	2017	2017	2018	2019	2020
Total Cars	64	364	428	528	658	748
@ WMATA						



Performance Management

Report Results





3-YEAR TREND IN PERFORMANCE

Vital Signs Report Key Questions:

- Why did performance change?
- What <u>actions</u> is Metro taking?



FTA Transit Asset Management Performance Measures





% of vehicles met or exceeded Useful Life Benchmark (ULB)





% of facilities rated below 3 on FTA's 1-5 condition scale



% of track segments, signal, and systems with performance restrictions – i.e., Slow Zones



Ex: Gathering Data to Prepare Slow Zones Target



Track Inventory



Planned Slow Zones

Other Speed Restrictions

- Seasonal
- Temporary
- Initiated due to delay

Surge Schedule



1	June 4 - 16	13 days	OR SV	Continuous Single Tracking	Ballston to East Falls Church
2	June 18 - July 3	16 days	OR SV BL	Line Segment Shutdown	Eastern Market to Minnesota Ave/Benning Road
3	July 5 - 11 STARTS SPM JULY 5	7 days	YL BL	Line Segment Shutdown	Reagan National Airport to Braddock Road
4	July 12 - 18	7 days	YL BL	Line Segment Shutdown	Reagan National Airport to Pentagon City
5	July 20 - 31	12 days	OR SV	Continuous Single Tracking	Ballston to East Falls Church
6	August 1 - 7	7 days	RD	Continuous Single Tracking	Takoma to Silver Spring
7	August 9 - 18	10 days	RD	Continuous Single Tracking	Shady Grove to Twinbrook
8	August 20 - September 5	17 days	BL YL	Continuous Single Tracking	Franconia-Springfield to Van Dorn Street
9	September 9 - October 20	42 days	OR	Continuous Single Tracking	Vienna to West Falls Church
10	October 10 - November 1	23 days	RD	Line Segment Shutdown	Fort Totten to NoMa-Gallaudet
11	November 3 - 11 STARTS 10PM NOV. 2	9 days	OR SV	Continuous Single Tracking	East Falls Church to West Falls Church
12	November 12 - December 6	25 days	GR YL	Continuous Single Tracking	Greenbelt to College Park
13	December 7 - 24 EXCEPT AM DEC. 17	18 days	BL	Line Segment Shutdown	Rosslyn to Pentagon
14	January 2 - 13 & January 23 - February 3 *	24 days	YL BL	Continuous Single Tracking	Braddock Road to Huntington/Van Dorn Street
15	March 6 - 19	14 days	OR SV	Continuous Single Tracking	East Falls Church to West Falls Church

^{*} Note: No track work during inauguration Week (Jan 15-21)



Considerations for Slow Zone Target Setting

Audience

External (FTA)

Purpose

Manage expectations, Compliance

Inputs

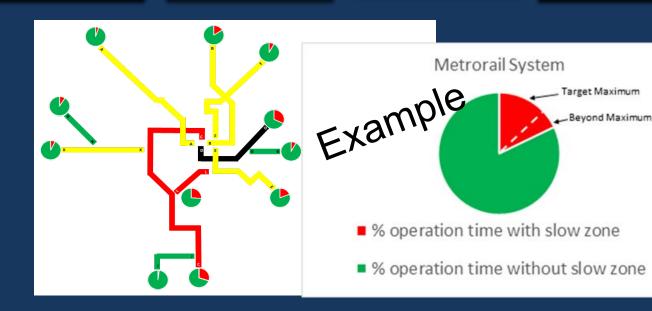
Data in multiple sources, data quality uncertain

Target Type

Timeframe

Guidebook

Performance measure mock-ups





Near Term TAM Target-Setting Next Steps

Submit 90 days from Final Rule

Review Final Rule, Guidebooks

Inventory and condition assessment

Gather data to draft targets

Engage asset owners to inform targets

Senior management review



Moving TAM Forward: Managing Assets, Prioritizing Funding

