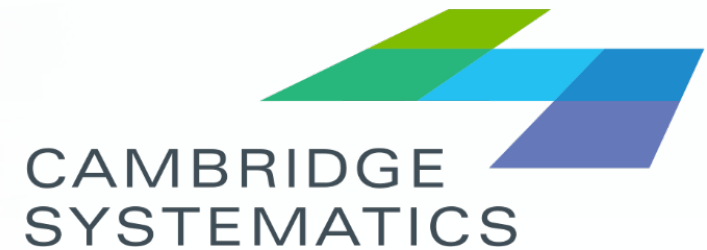


Agency-Driven Transit Asset Management

presented by

Cambridge Systematics, Inc.



September 25, 2018

Think  Forward

RESPONDING TO THE TAM FINAL RULE

So you've completed your first TAM Plan... now what?

*Produce
TAM Plan by
10/1/18*

*Submit
performance
targets*

*Adhere to
updated NTD
requirements*

*Annual
Updates
and
Continuous
Improvement*

TAM CHALLENGES – Today and Tomorrow

Transit agencies consider their top focuses going forward to be:

**culture change,
standardized data
and taxonomies, and
systems scoping
and integration**



Organization

- » Staff resource availability
- » Interdepartmental coordination and buy-in
- » Alignment with agency initiatives



Planning

- » Compliance deadlines
- » Condition assessment
- » Asset and project prioritization

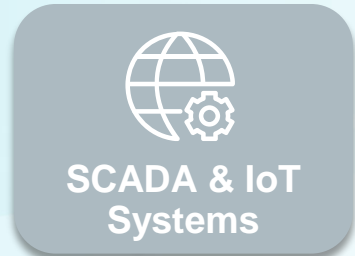


Technology

- » Data silos
- » Unified reporting
- » Software

BUILDING TAM SYSTEMS

to solve TAM Challenges



STATE-LED RESPONSE – *The TransAM Asset Management Platform*

FTA State of Good Repair (SGR) Grant commissioned by



200+ agencies across two states

Focus Areas:

- » TAM Planning Expertise
- » Process Development
- » Software Development
- » Adoption

CS Role:

- » Federal Compliance
- » Capital Planning
- » Multi-agency coordination

CHALLENGE – Lack of capital planning tools

SOLUTION: Customizable asset replacement policies and auto-generated asset planning forecasts



TAM Policy



Capital Planning

FY 18-19 FY 19-20 FY 20-21 FY 21-22 FY 22-23 FY 23-24

\$936,856,349 \$308,531,81

Project
EMTA 18-19 #5878
Total Cost \$5,985,000
Type Replacement
SOG No
Multi year Yes
[Edit] [Remove] + Add Line Item

Construction - Admin/Maint Facility
11.43.03
1 assets
\$5,985,000
[Edit]

Project
LANTA 18-19 #5758
Total Cost \$700,000
Type Expansion
SOG No
Multi year Yes
[Edit] [Remove] + Add Line Item

Construction - LANTA Service Building
11.33.01
1 assets
\$700,000
[Edit]

Project
WASHCO 18-19 #5618
Total Cost \$1,800,000
Type Replacement
SOG No
Multi year Yes
[Edit] [Remove] + Add Line Item

Purchase - Replacement - Bus < 30 Ft - Gasoline
11.12.04
8 assets
\$600,000
[Edit]

Purchase - Replacement - Bus < 30 Ft - Gasoline
11.12.04
8 assets
\$600,000
[Edit]

Purchase - Replacement - Bus < 30 Ft - Gasoline
11.12.04
8 assets
\$600,000
[Edit]

Modify Rule: Revenue Vehicles: Bus Std 40 FT

Replacement

* ESL (Mo) 144 * Replacement Cost \$ 420000 * Cost FY FY 17-18 ☒ Replace With New ☐ Replace With Leased

Fuel Type * ESL (Mi) 500000 * ESL Used (Mo) 48 Lease Length Months 0

Replace Asset Subtype Replace Fuel Type

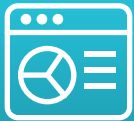
* Purchase Replacement Code 11.12.01 * Lease Replacement Code 11.16.01 * Purchase Expansion Code 11.13.01 * Lease Expansion Code 11.18.01

CHALLENGE – Disparate data formats from different agencies

SOLUTION: Consistent data formatting for each agency – reporting aggregated at State DOT, MPO, and agency level



Performance
Targets



NTD Reporting

Group Management

Group Metrics

Performance Measures

Filters

Policy Year

2018

Period

July - June

Group Name

3 Agency Group

View

Distribute

Group Metrics : 2018 : July - June : 3 Agency Group

Asset Category	Group Name	Group Status	Organizations	Copied From Previous Year
Revenue Vehicles	3 Agency Group	In Development	View	No

Revenue Vehicles

Percentage of revenue vehicles that exceed the Useful Life Benchmark (ULB)

Asset Class/Type	ULB	Editable/Locked	Goal Pcnt	Editable/Locked
AB-Articulated Bus	14	Editable	5	Editable
AO-Automobile	8	Editable	0	Editable
BU-Bus	14	Locked	0	Locked
RL-Commuter Rail Locomotive	39	Editable	0	Editable
RP-Commuter Rail Passenger Coach	39	Editable	0	Editable

BEFORE AND AFTER TRANSAM

BEFORE

- » Burdensome coordination
- » Limited technology options for small operators
- » Siloed compliance data
- » Crude and inconsistent capital planning
- » Manual capital planning and reporting



AFTER

- » Shared system of record
- » TAM platform available to every agency
- » Centralized transparent compliance data
- » Robust standardized capital planning
- » Automated multi-level reporting



TRANSAM – An Open Source Story



No license fees



No “vendor lock-in”



Shared investment

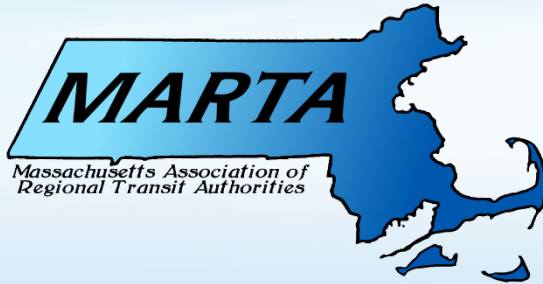


Part of a community

AGENCY-LED RESPONSE –

Collaborating with the TransAM Platform

Bottom-up approach: PVRTA + MARTA spearheaded group deployment



Agencies shared the cost, with smallest agencies participating for free

Working in reverse: MassDOT is now adopting at state level



CHALLENGE – *Lack of asset lifecycle management; expanded reporting requirements*

SOLUTION: *Preformatted NTD reports, Asset Lifecycle Management*



Asset Lifecycle

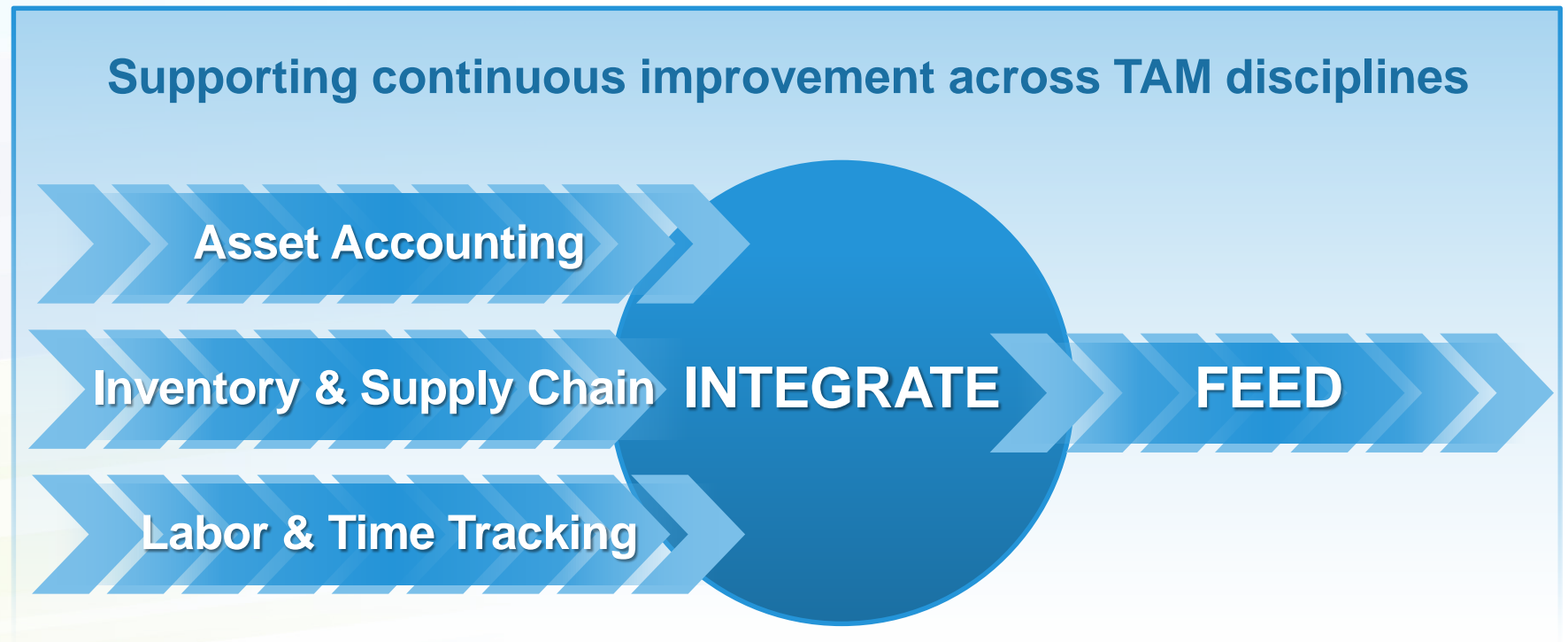


NTD Reporting



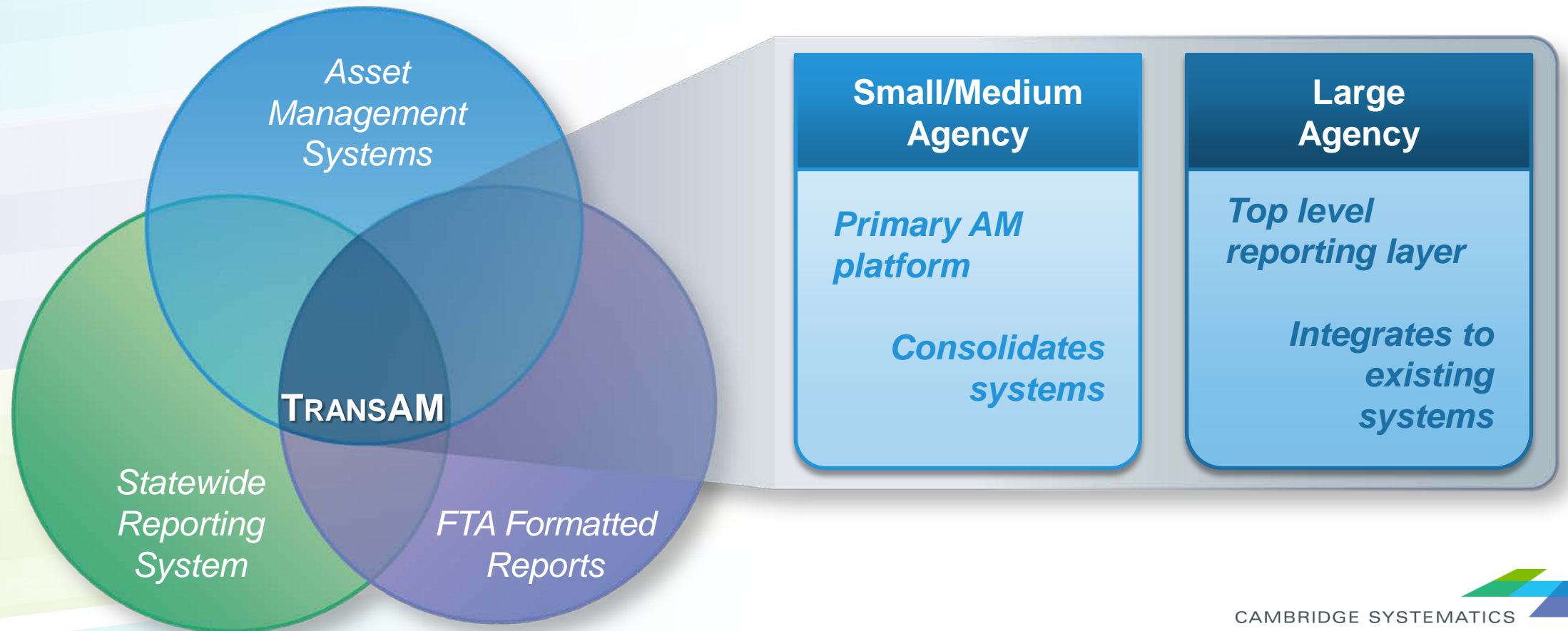
CHALLENGE – Siloed data and accounting duplication

SOLUTION: Streamline and map data and accounting relationships, integrate platforms, lay foundation for data feeds



AN INTEGRATED VISION FOR TAM

For adopters, TransAM has become the single source of truth for assets information across multiple reporting levels.



TRANSAM – Growing Together

As the community of agencies grows, TransAM functionality grows with it, to everyone's benefit



As functionality grows, TAM maturity grows from compliance to strategic asset management

Thank You!

Herbert Higginbotham

National Director, Transit + Shared Mobility

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*Please reach out to me to
learn more or to get
connected to the growing
TransAM user community*

