Enterprise Risk Management, SMS, and Safety Culture: Information Sharing and Best Practices

Jean Smith
Trapeze Implementation Lead, EAM
jean.smith@trapezegroup.com

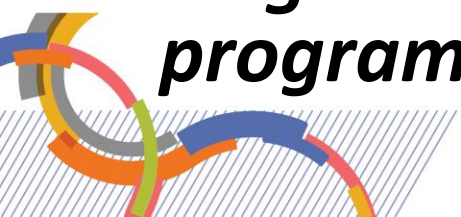## The NEXUS Between a Safety Management System and Transit Asset Management
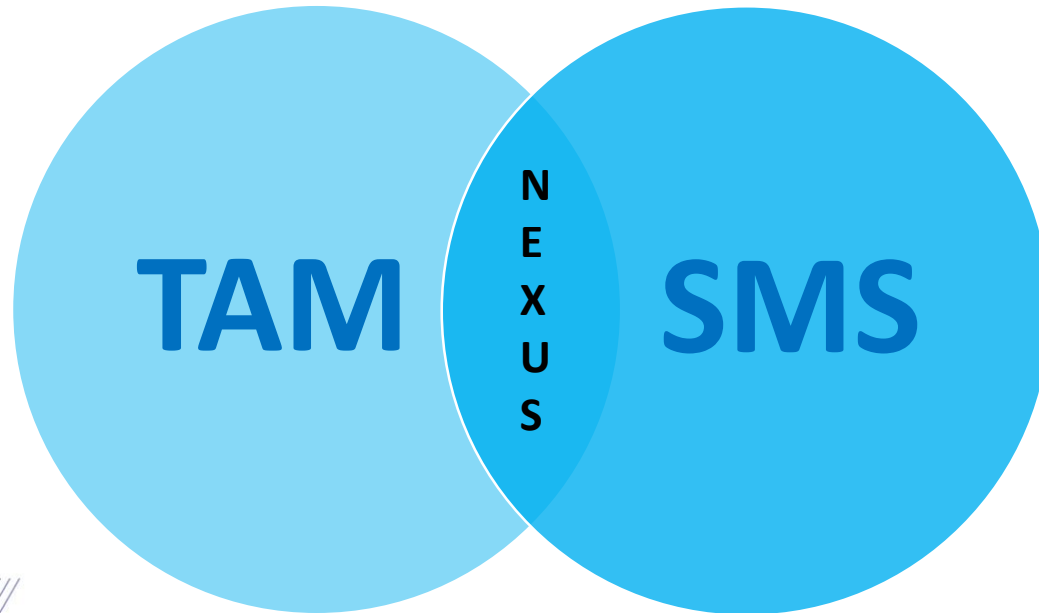
MOBILITY CONFERENCE

*"**Positive changes in safety performance** across public transportation will depend largely on a **common understanding between transit asset management and safety**, dedicated implementation of both a TAM Plan and Public Transportation Agency Safety Plan, and a **targeted safety oversight and monitoring program**."*
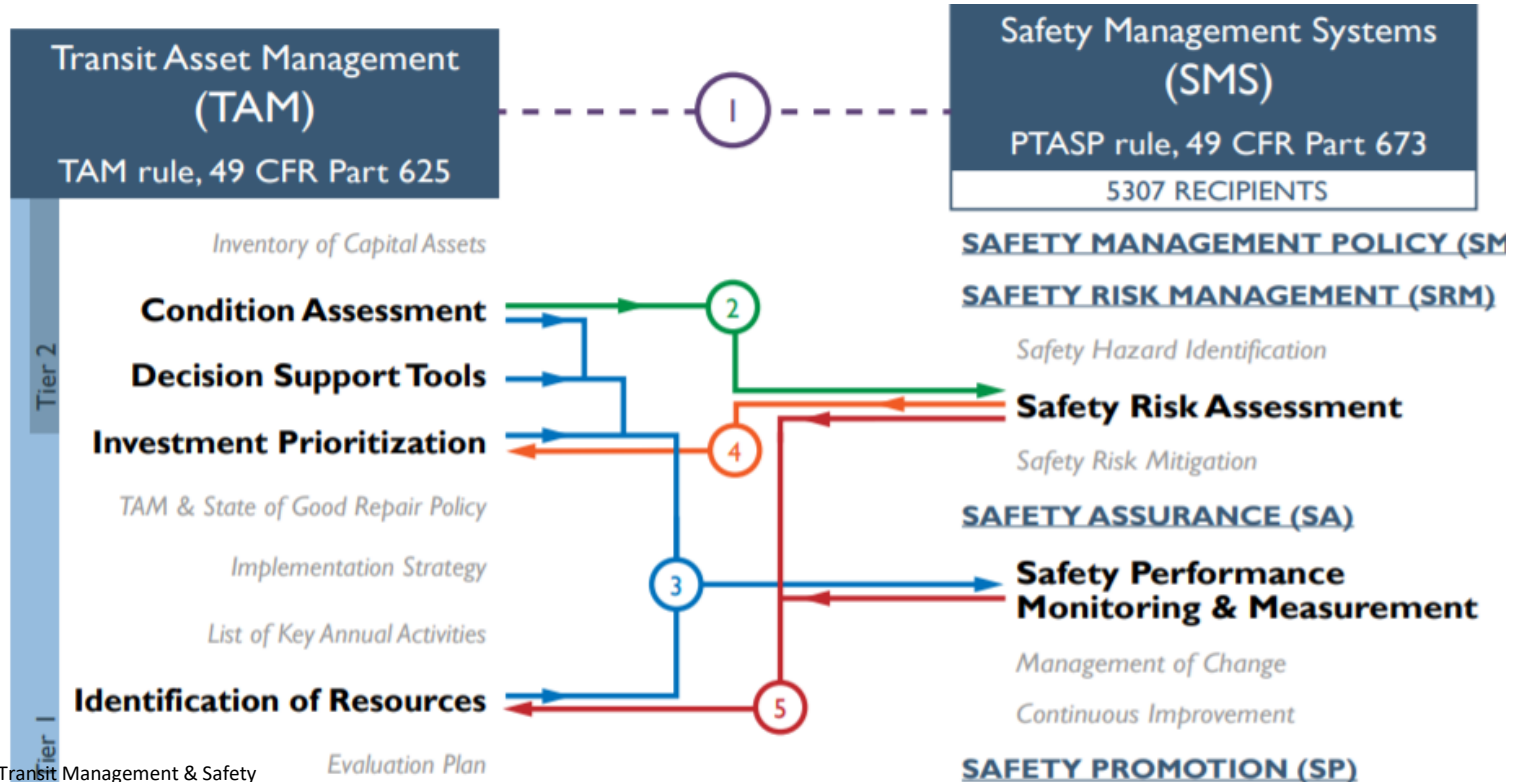
- National Public Transportation Safety Plan – DOT/FTA

What is a Nexus?

- *"a connection or series of connections linking two or more things."*

TAM/SMS "Nexus"

FTA Nexus of Transit Management & Safety Management Systems

Transit Asset Management and SMS

NEXUS I

The Accountable Executive
Reviews and Approves the TAM plan | Reviews and Approves the Agency Safety Plan

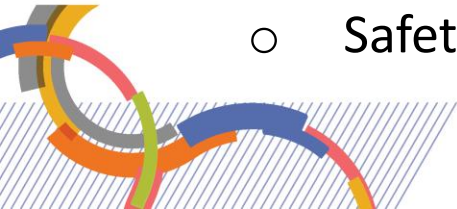| NEXUS 2	NEXUS 3	NEXUS 4	NEXUS 5
Condition Assessments can identify potential safety issues, which could undergo safety risk assessment in SRM.	TAM data and analysis can be used for performance monitoring and measurement in SA.	The outcome of a safety risk assessment in SRM, or safety performance monitoring and measurement in SA, could inform the prioritization of an asset for repair or replacement.	The outcome of a safety risk assessment in SRM, or safety performance monitoring and measurement in SA, could inform resources for TAM.

FTA Nexus of Transit Management & Safety Management Systems
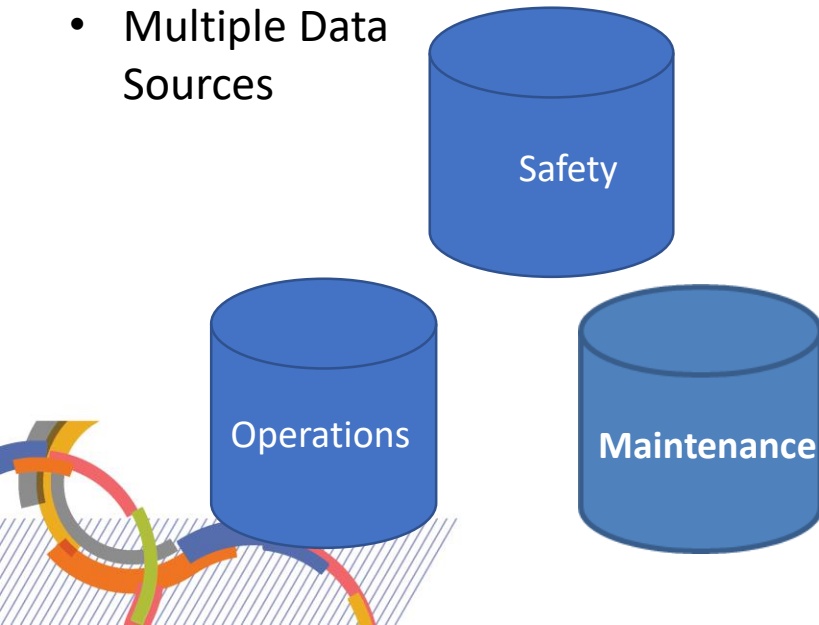
Forming the Nexus

- Consider the results of asset condition assessments while performing safety risk management and safety assurance activities
    - Identify and mitigate asset hazards and risks
    - Conduct performance and risk trend analysis
- Results of condition assessments and subsequent analysis inputs in setting agency investment priorities
    - Safety as assessment score criteria
    - Safety performance measures

12:30

Today vs. Future
Using Technology for Data

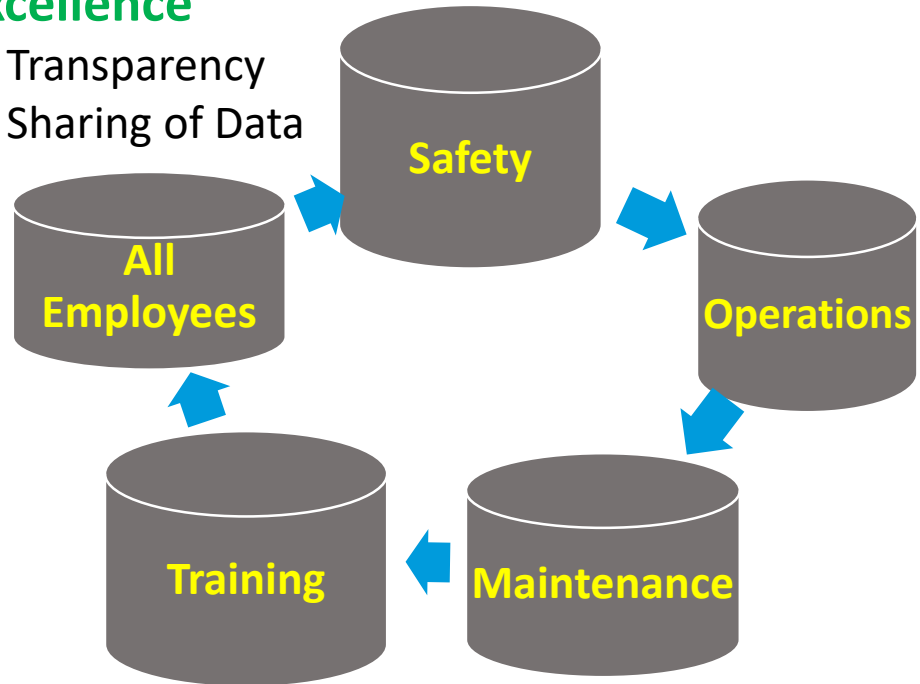## Today: Silos

- No Sharing of Information
- Multiple Data Sources

Safety

Operations

Maintenance

Future: Centers of Excellence

- Transparency
- Sharing of Data

Safety

All Employees

Operations

Training

Maintenance

From Reactive Silos to Proactive Teams

- **Safety Objectives Management**
- **Roles & Responsibilities**
- **Audit Automation**

- **Hazard & Incident Management**
- **Hazard Analysis**
- **Risk Evaluation & Mitigation**

Safety Plan

- **Analytics, Dashboards, Reports**
- **CAP Success Monitoring**
- **Safety Objectives Monitoring**

- **Training Management**
- **Close Call and Hazards Self-Reporting**

Example: Nexus of TAM and SMS Identifying the Risk

- A number of close calls at a particular intersection have been reported by operators using the Self-Reporting tool

- A Safety Risk Assessment was performed and it was determined the bus stop on the corner was too close to the intersection where pedestrians crossed and the oversized mirrors on a particular fleet of buses hindered the operators view

Example: Nexus of TAM and SMS Mitigating the Risk

- Safety mitigation steps are taken to move the bus stop further from the intersection

- Funding identified and maintenance campaign started to replace the oversized mirrors

- Capital Projects planning for Procurement was updated so bus specifications for future fleet purchases do not specify the oversized mirrors

- State and MPO notified and Safety bulletin sent out to other agencies concerning potential hazard of oversized mirrors

Thank You!