

Asset Management at the MBTA: Past, Present, and Future

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Presentation Outline

- Give the rationale for Transit Asset Management (TAM)
- Describe the MBTA's current and past TAM efforts
- Present the various initiatives that are part of the TAM Program
- Explain the desired level of integration between various TAM systems

Why Do It?

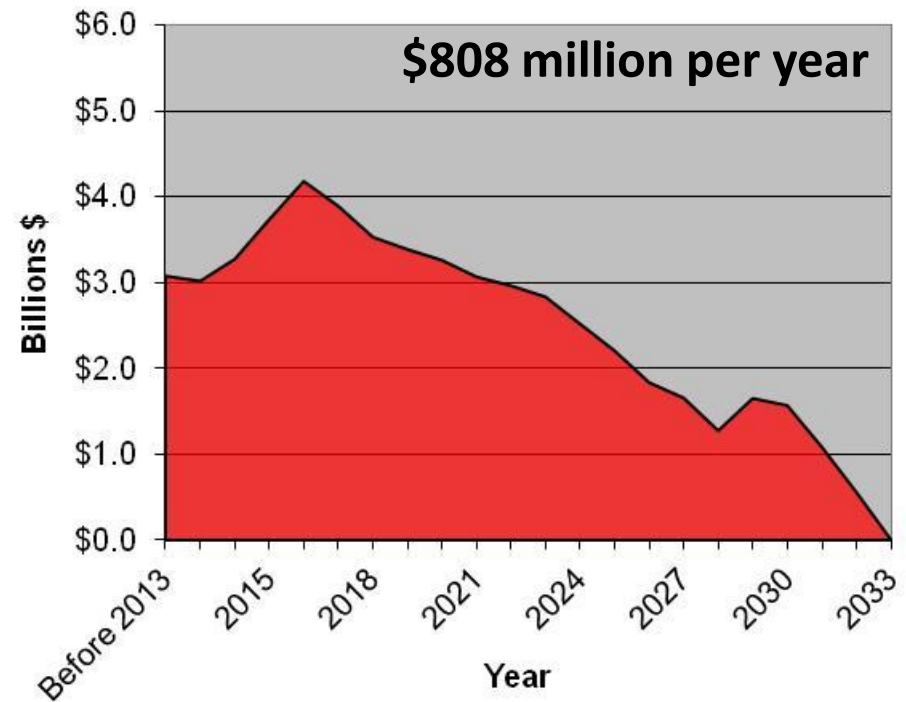
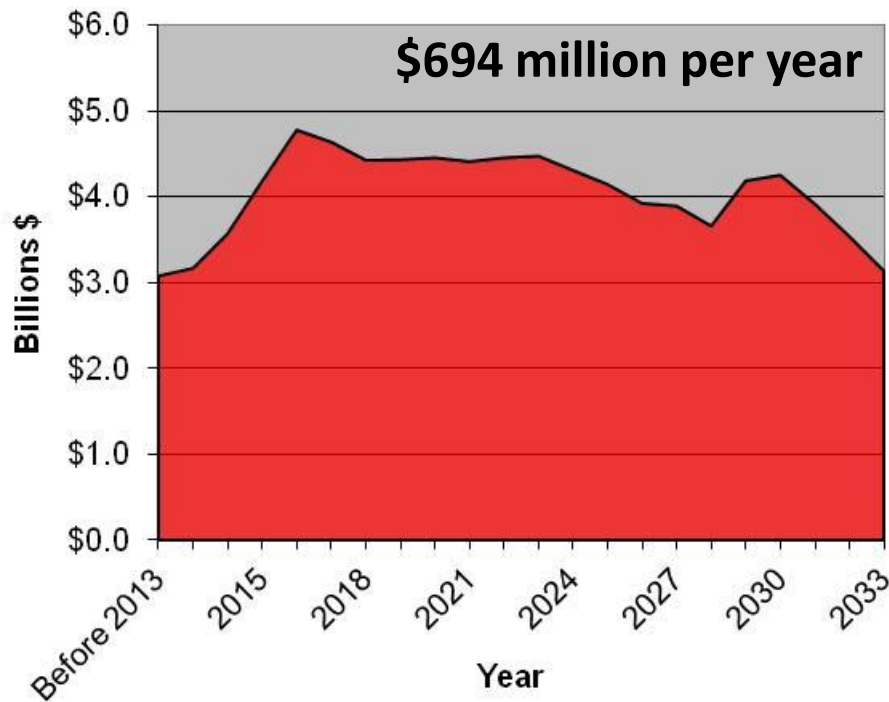
3 Major Reasons:

- New legislative requirement – “MAP-21”
- FTA grant
- It’s the right thing to do



Asset Management History

- 1999: *State of Good Repair (SGR) Study*
- SGR Database: Definition of the SGR “Backlog”



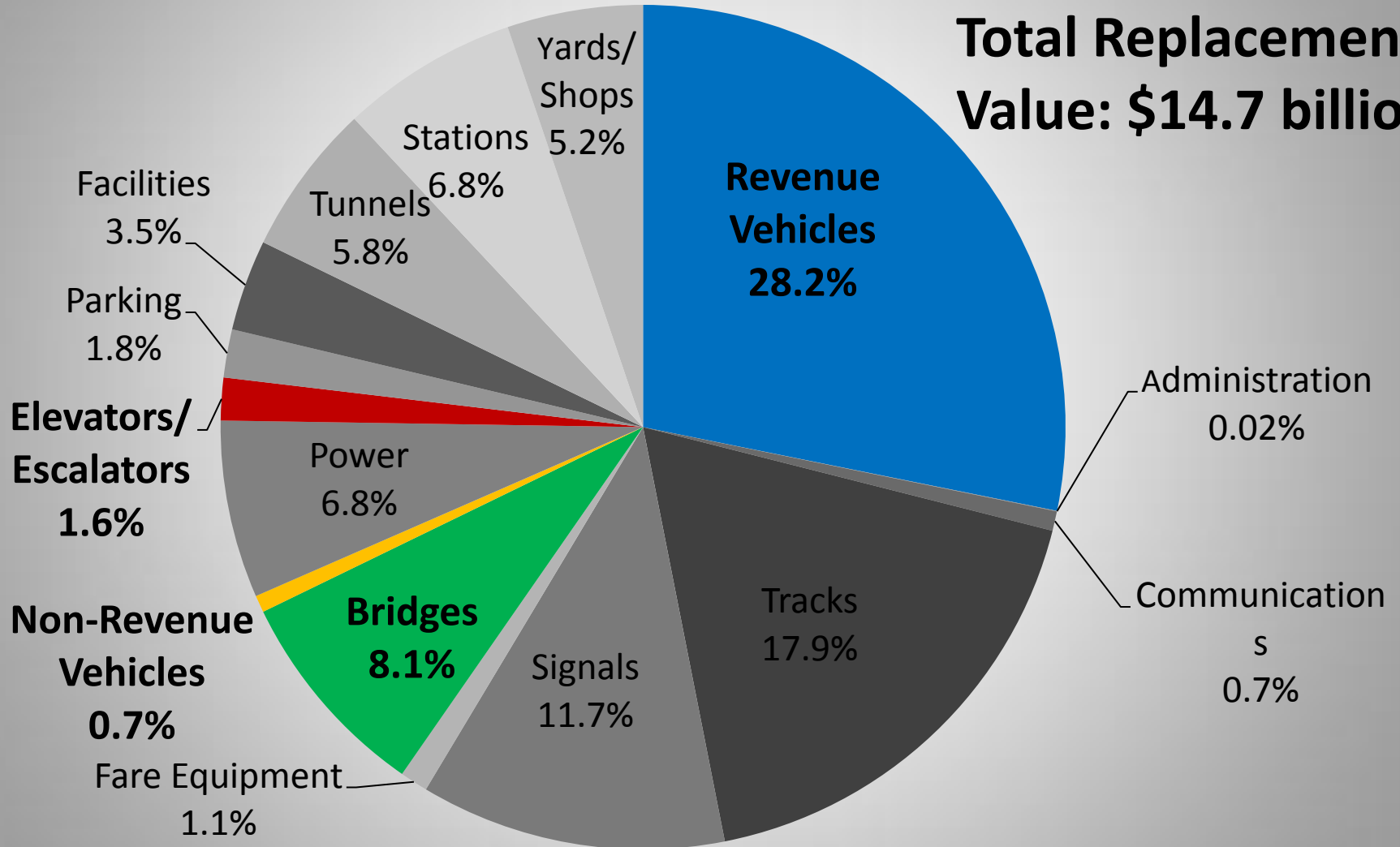
Asset Management Current Status

- Policy
- Capital Investment Program (CIP)
- SGR Database
- Maintenance Management Systems (MMS)



MBTA Assets

Total Replacement Value: \$14.7 billion

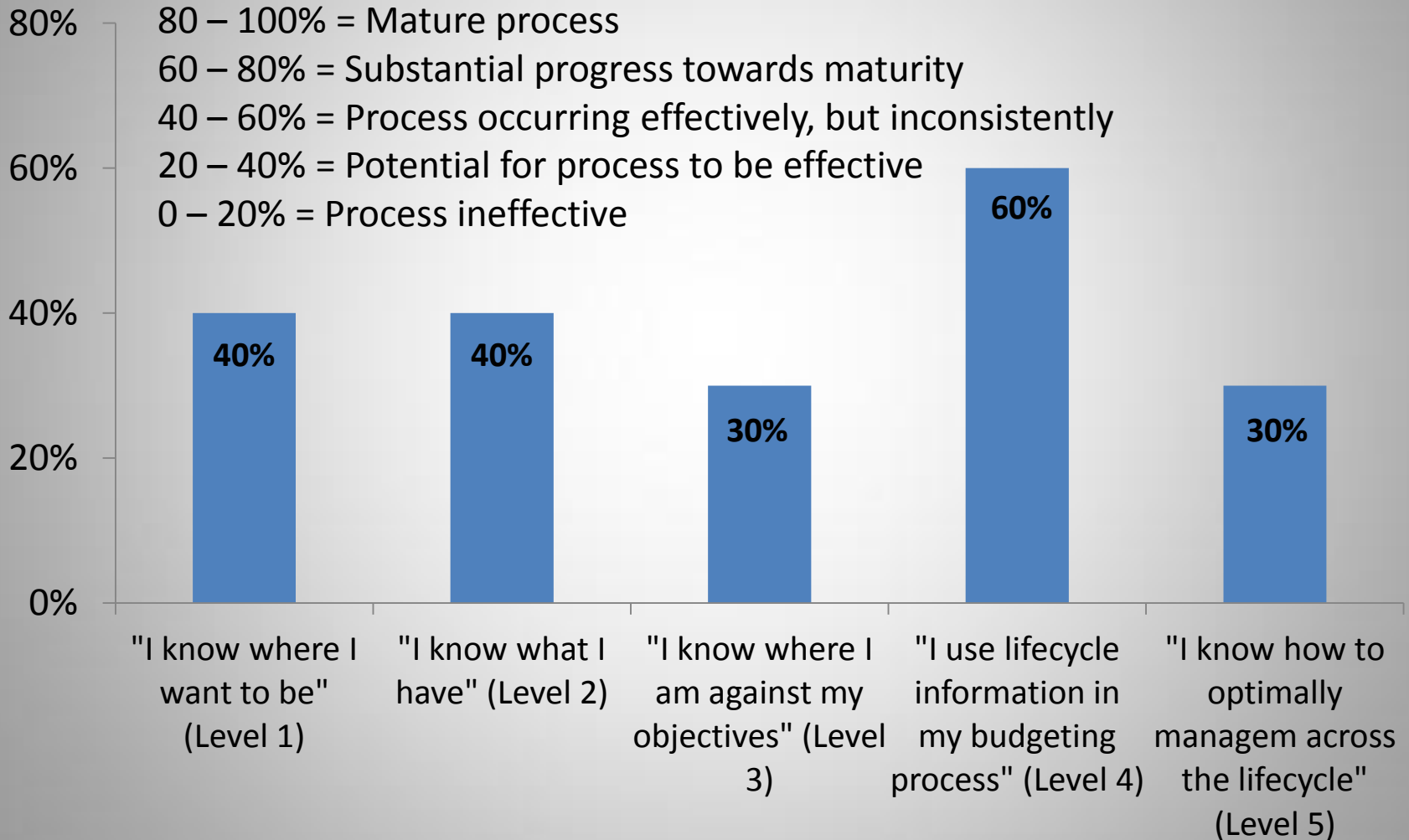


TAM Program: Asset Management Plan (AMP)

- Assess the MBTA's baseline
- Establish MBTA goals and objectives
- Define implementation strategy
- List key asset management activities
- Specify financial requirements
- Outline continuous improvement processes



The MBTA's TAM Baseline



TAM Program: Decision Support Tool

- Identify and weight project evaluation criteria
- Establish rating scales
- Score capital funding requests
- Prioritize projects within fiscally constrained scenarios
- Sensitivity analysis
- Reporting
- MBTA timeline



TAM Program: SGR Database Enhancements

- Refine current database of capital assets
 - Asset inventory structure
 - Asset data
 - Condition ratings: decay curves
 - Maintenance cost ratings: cost curves
- Update all data
- Link to CIP process
- Refine prioritization method in SGR database
- Integrate with other MMS systems

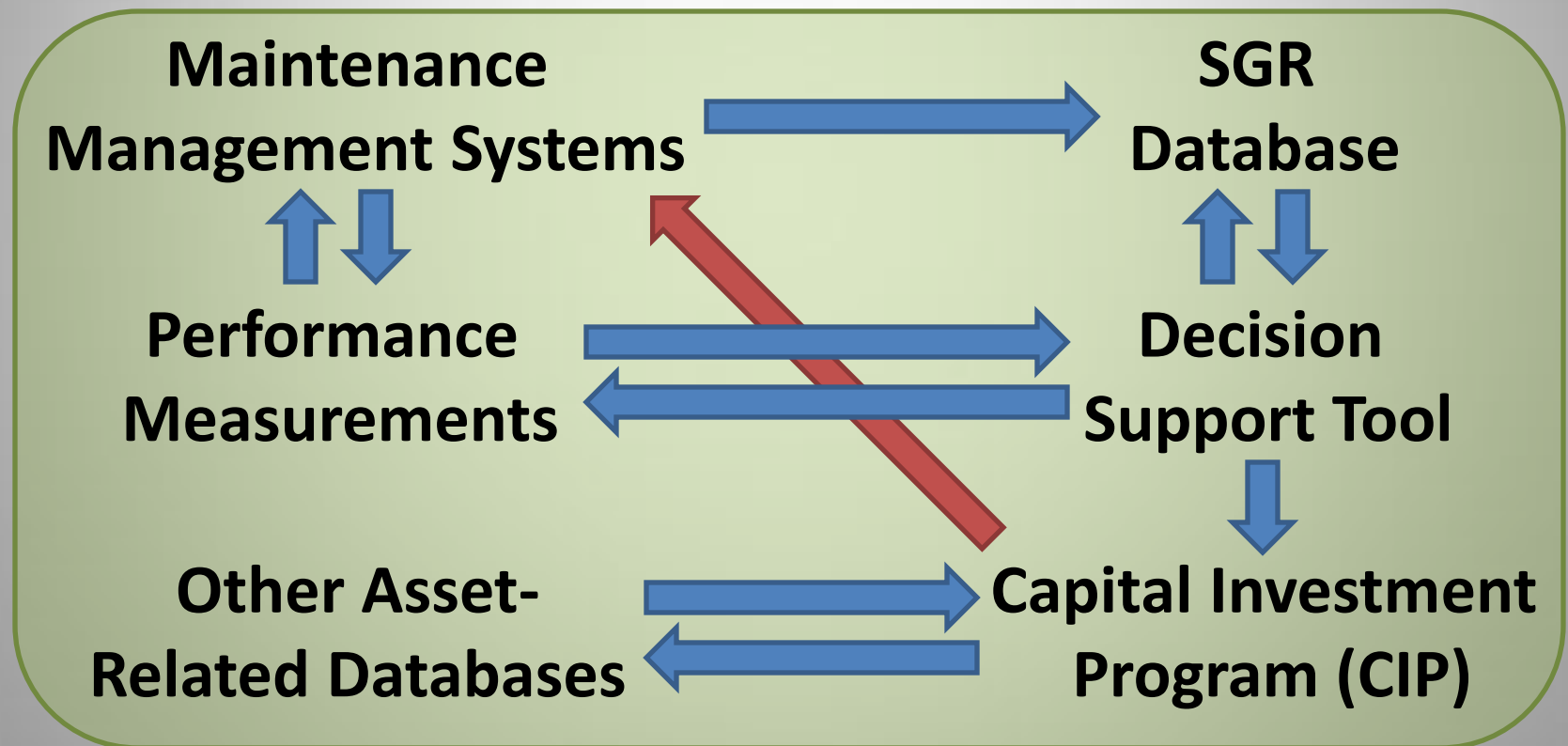
Asset Inventories and Maintenance Management Systems

- Operations Department
- Engineering and Maintenance Department
- Commuter Rail



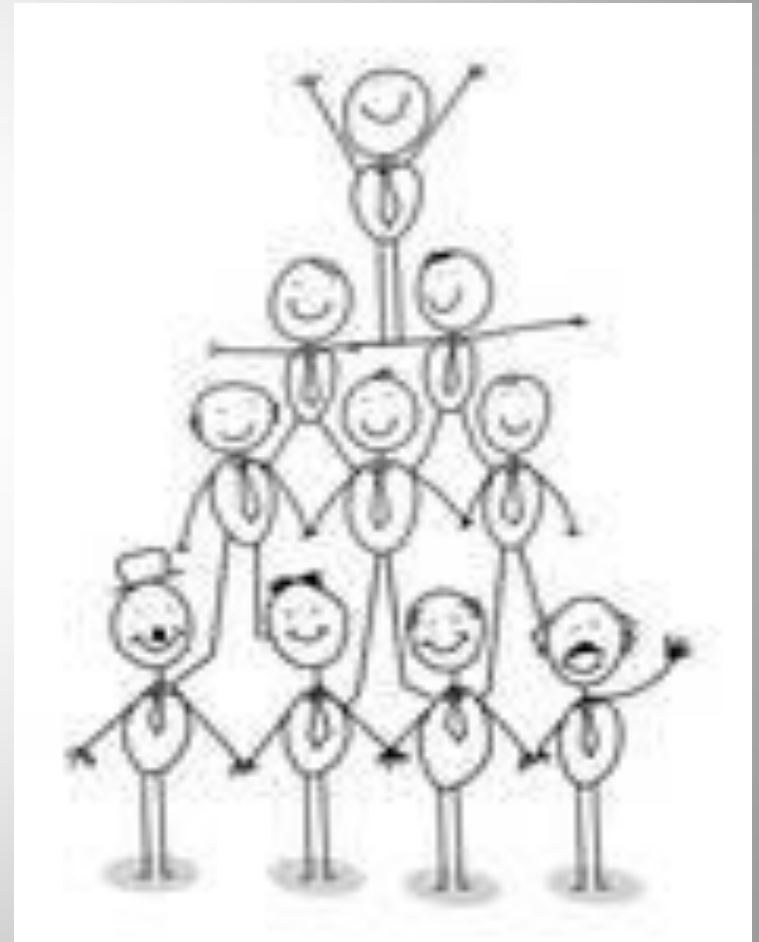
Asset Management Future: Integration of TAM Systems

Asset Management Plan



TAM Program: Establishing the “TAM Team”

- TAM Executive Sponsor
- TAM Leadership Team
- TAM Asset Management Improvement Team
- TAM Asset Class Leaders
- TAM Support Team
- TAM Project Managers
 - Asset Management Plan
 - Decision Support Tool
 - SGR Database Enhancements



Thank You

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