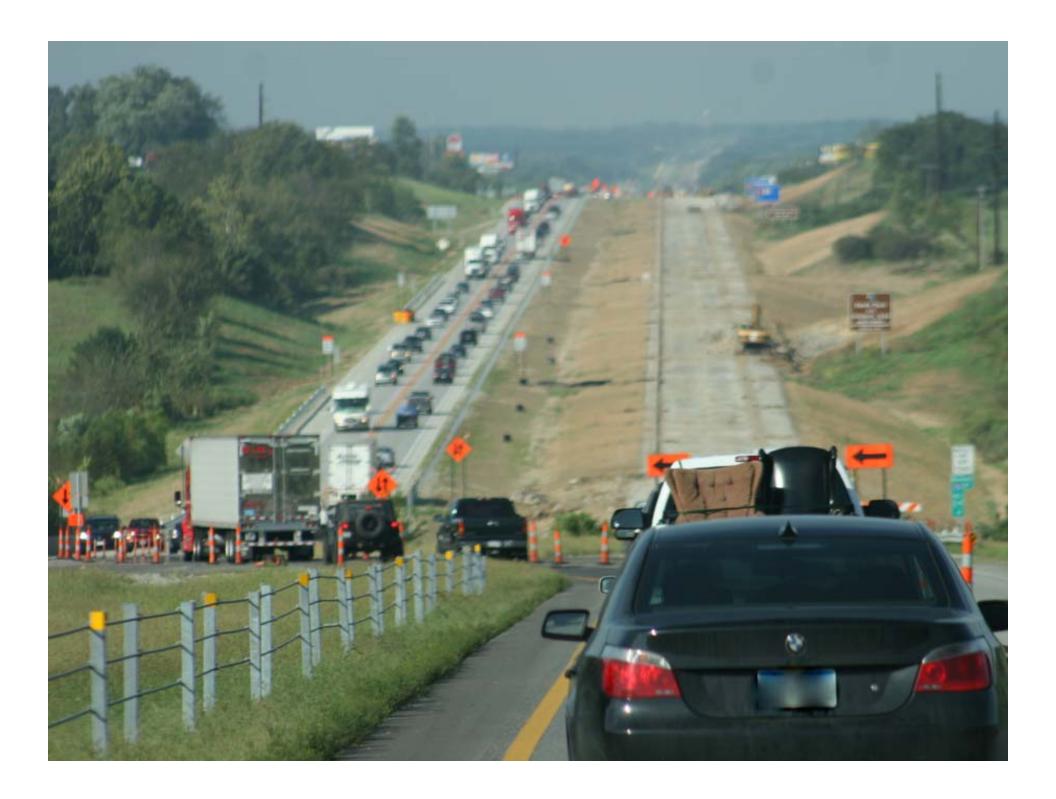


# Transportation Asset Management

By the:

Transportation Asset Management Expert Task Group (TAM ETG)





#### What is TAM? MAP-21

"(2) ASSET MANAGEMENT.—The term 'asset management' means a strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on both engineering and economic analysis based upon quality information, to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the lifecycle of the assets at minimum practicable cost."

## What is TAM?

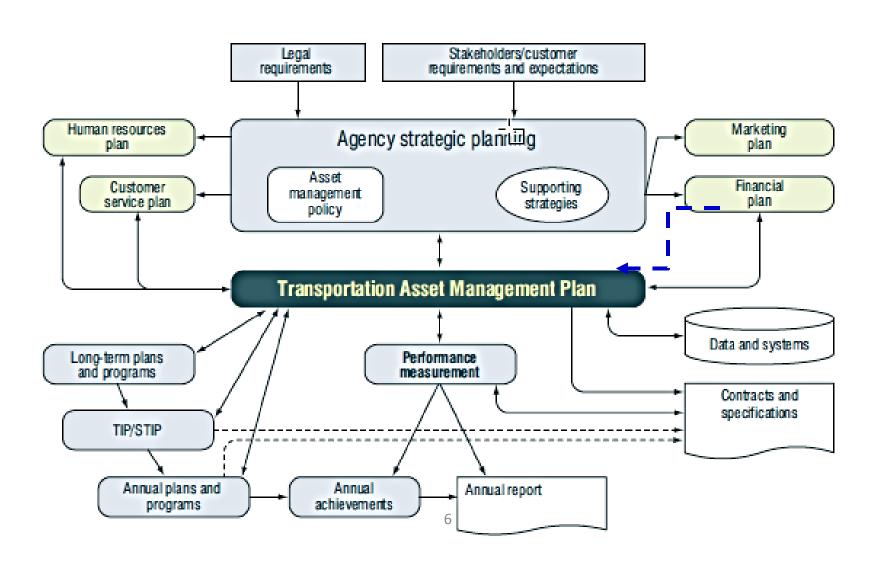
It focuses on business and engineering practices for resource allocation and utilization, with the objective of better decision making based upon quality information and well defined objectives.

**AASHTO Subcommittee on Asset Management** 

## **TAM and MAP-21**

Each State is required to develop a risk-based asset management plan (TAMP) for the National Highway System (NHS) to improve or preserve the condition of the assets and the performance of the system.

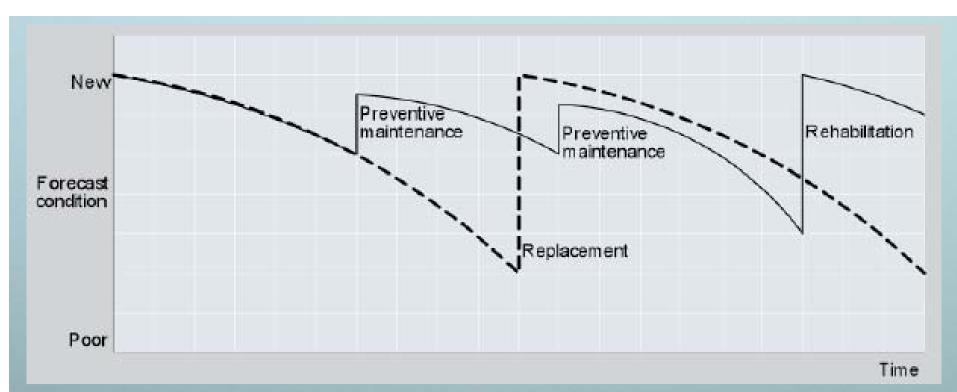
## TAMP Link to Other Plans



## **TAMP** and Risk







http://www.fhwa.dot.gov/planning/processes/tribal/planning\_modules/asset\_management/assetmanagementmodule.pdf



## TAM Core Questions: ASSE

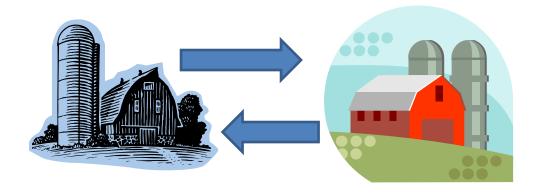
- AASHTO
  Transportation
  Asset Management Guide
  A FOCUS ON IMPLEMENTATION
- What is the current state of my assets?
- What are my required levels of service and performance delivery?
- Which assets are critical to sustained performance delivery?
- What are my best investment strategies for operations, maintenance, replacements, and improvement?
- What is my best long-term funding strategy?

# **TAM and Data**

- Inventory and condition
- Risk assessment
- Cost/revenue
- Performance measures (Targets?)
- Management systems (what-if scenarios)
- Future needs (forecasted deterioration)
- Communication tools (dash board)

#### TAM vs. Current Practice

- Integrated decision making
- Cross asset optimization
- Linking resource allocation to performance
- Financial planning and investment analysis (ASI)



# **Asset Sustainability Index (Financial)**

