

# Transportation Asset Management Plan (TAMP)

MARCH 13, 2018

# Asset Management

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Definition from 23 U.S.C. 101(a)(2), MAP-21:

❖ **A strategic and systematic process** of operating, maintaining, and improving physical assets, with a focus on 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 life cycle of the assets at minimum practicable cost.**

# Requirements

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- Each state is required to develop a risk-based TAMP for the National Highway System (NHS) and must address the assets of NHS pavements and bridges covering a 10-year period.
- The TAMP should include strategies that lead to a program of projects that would make progress toward achievement of the state targets for asset condition and performance.

# Plan must include:

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Inventory and  
condition of the  
NHS pavements  
and bridges

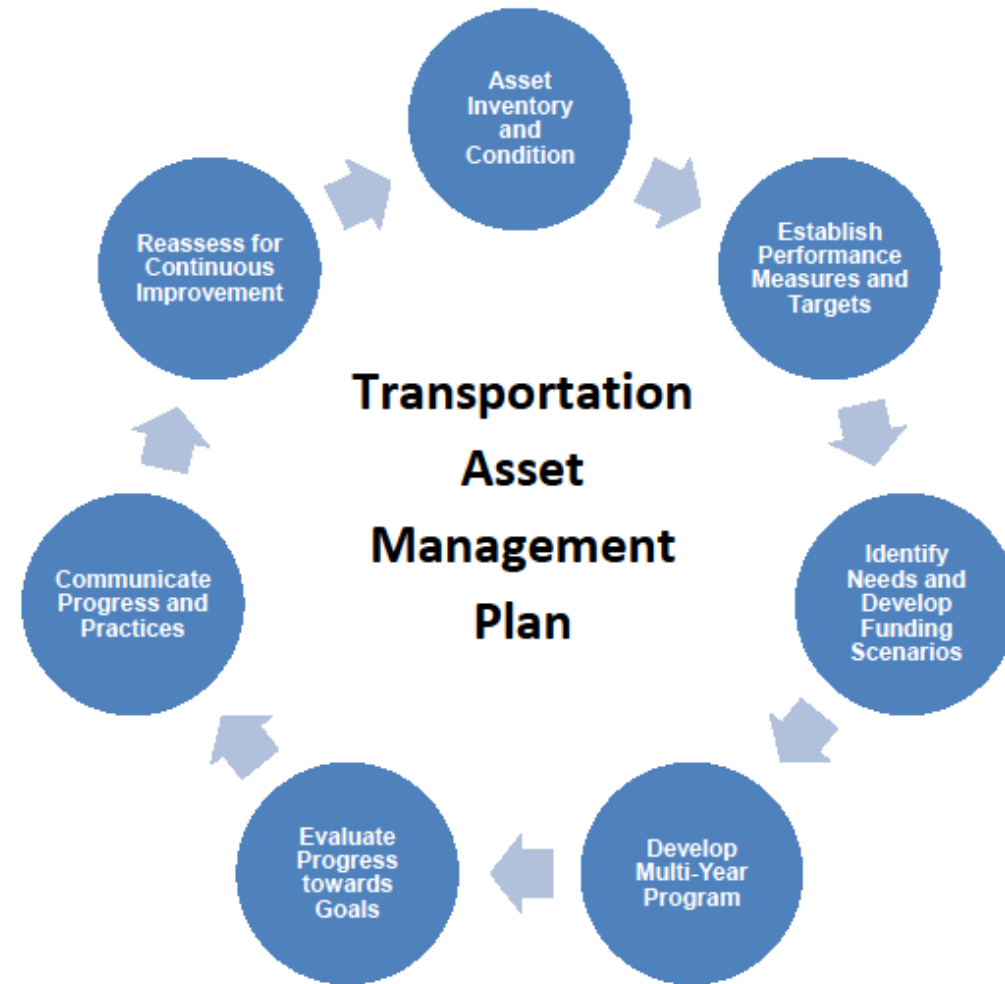
Objectives and  
measures

Performance gap  
analysis

Life cycle cost  
and risk  
management  
analysis

Financial plan

Investment  
strategies



# TAMP Deadlines

Draft TAMP – 4/30/18



Final TAMP – 6/30/19



FHWA will certify plan and  
check annually for consistency



States must update their plan  
every 4 years

# IDOT – Current Situation

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- Large system inventory/declining condition

## Roads

- 15,919 state miles out of 146,958 miles
  - 2,185 Interstate miles – 3<sup>rd</sup> largest

## Bridges

- 7,835 state bridges out of 26,770 bridges
  - 84M of 141M total square feet
  - 3<sup>rd</sup> largest inventory

# IDOT – Current Situation

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- Limited resources
- Focusing on existing system/limited expansion
- Major Bridges – service life ending/need replaced
- Priority – NHS and NHS SD bridges
- Performance-based initiatives
  - Project Prioritization Model
  - Expedited Project Delivery



# TAMP - Life Cycle Planning

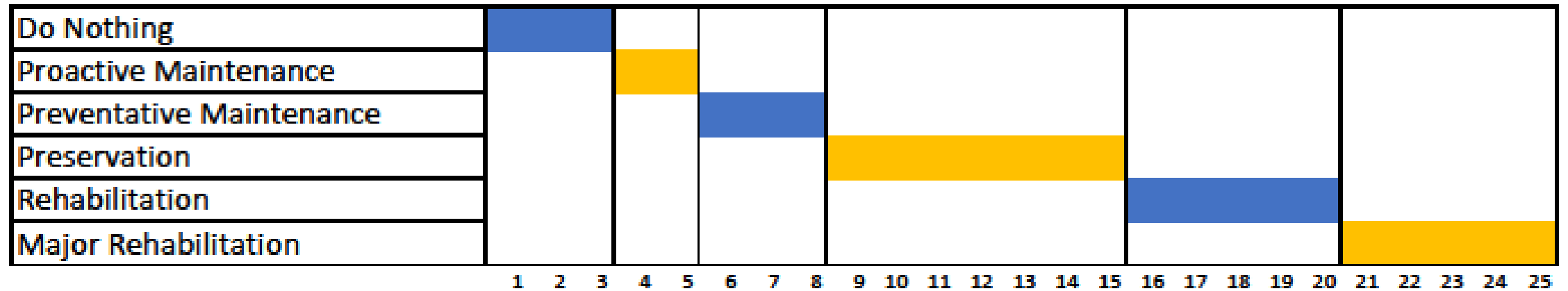
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- ❖ Managing assets over their life cycle
  - ✓ Similar to taking care of your car or home



- ✓ Picking the right treatment at the right time
  - Key to managing assets is knowing the condition and tracking the rate of deterioration so the right treatment is identified timely

## Life Cycle Planning Timeline



# IDOT – Moving Forward

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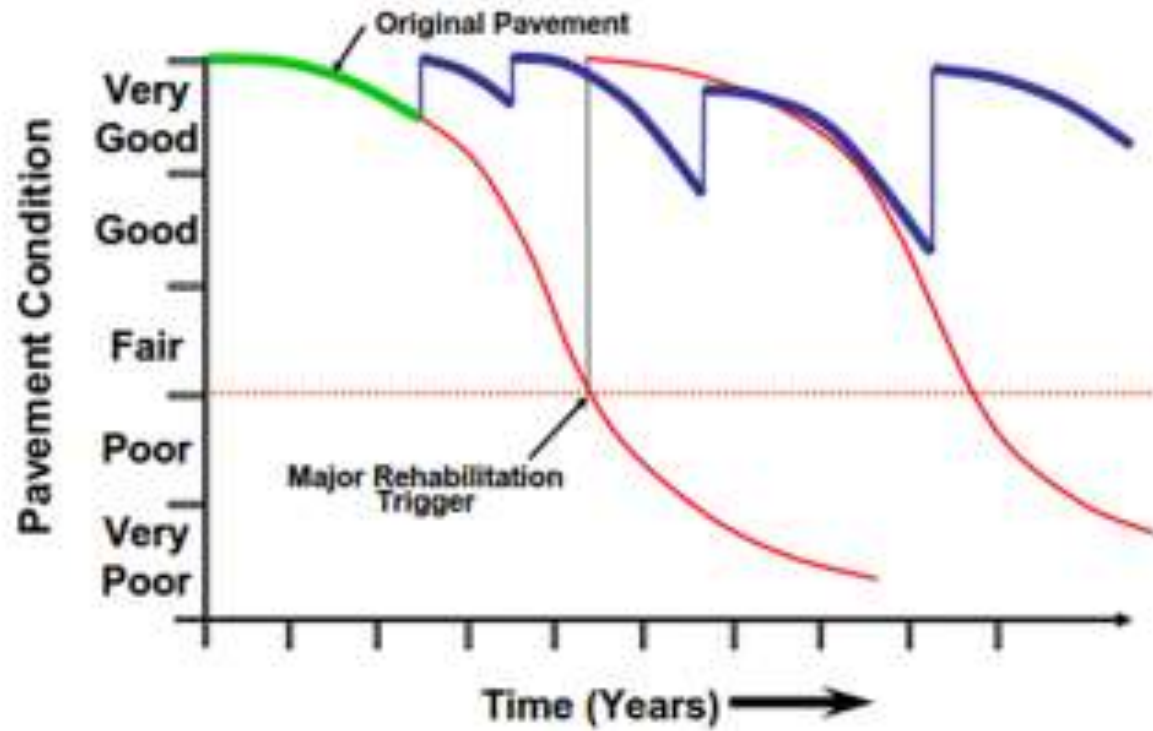
- TAMP is mandatory but it's the right thing to do
- Executive Management – leading the effort
- Collaborative effort of staff – committees
- Concentrate on entire state system (NHS and non-NHS)
- Assets - pavements and bridges

# New Philosophy

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- Moving from worst-first approach to achieving a desired state of acceptable condition for all NHS & other state roads
- Optimal mix of projects to improve and preserve the existing system
- New measurements for calculating acceptable condition
  - Backlog – 90/93% goals going away
- Raising the bar – evaluate all roads and bridges the same (except for Interstates will be held to a higher standard)

## The Pavement Preservation Concept



# Standard for Acceptable Condition

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- Pavements - Condition Rating Survey (CRS)
  - Interstates – CRS of 5.5 or higher
  - Other Roads – CRS of 5.0 or higher
- Bridges – Bridge element ratings of 5 or higher

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# TAMP Goals

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## □ *% Goals for pavements*

- Interstates 90%
- Non-Interstates NHS 90%
- Non-NHS Marked 75%
- Non-NHS Unmarked 50%

## □ *% Goals for bridges*

- Interstates 93%
- Non-Interstates NHS 93%
- Non-NHS Marked 90%
- Non-NHS Unmarked 90%

# Opportunities

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Better decision making tools for optimizing the available funding

- Enterprise Asset Management System

Best practices and innovation

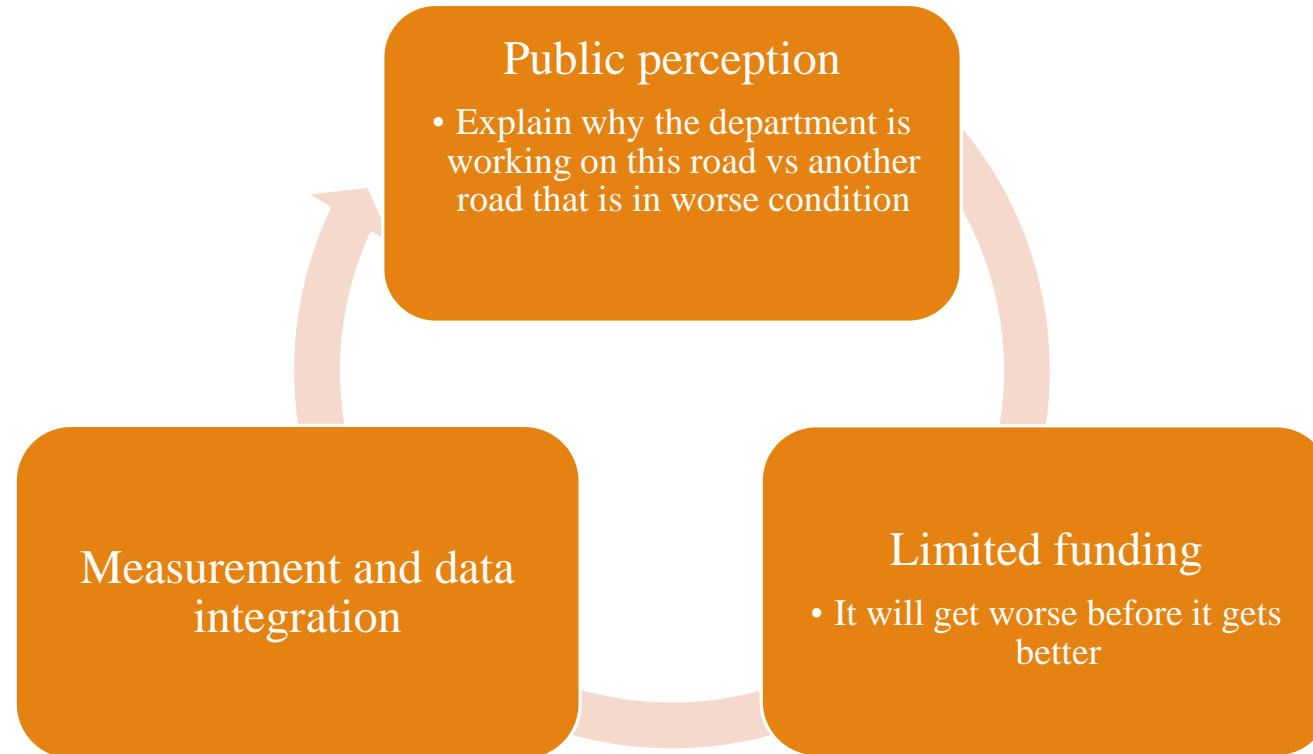
Continuous business improvements

- Decision Trees
- Policies and Guidance
- Consistency among districts

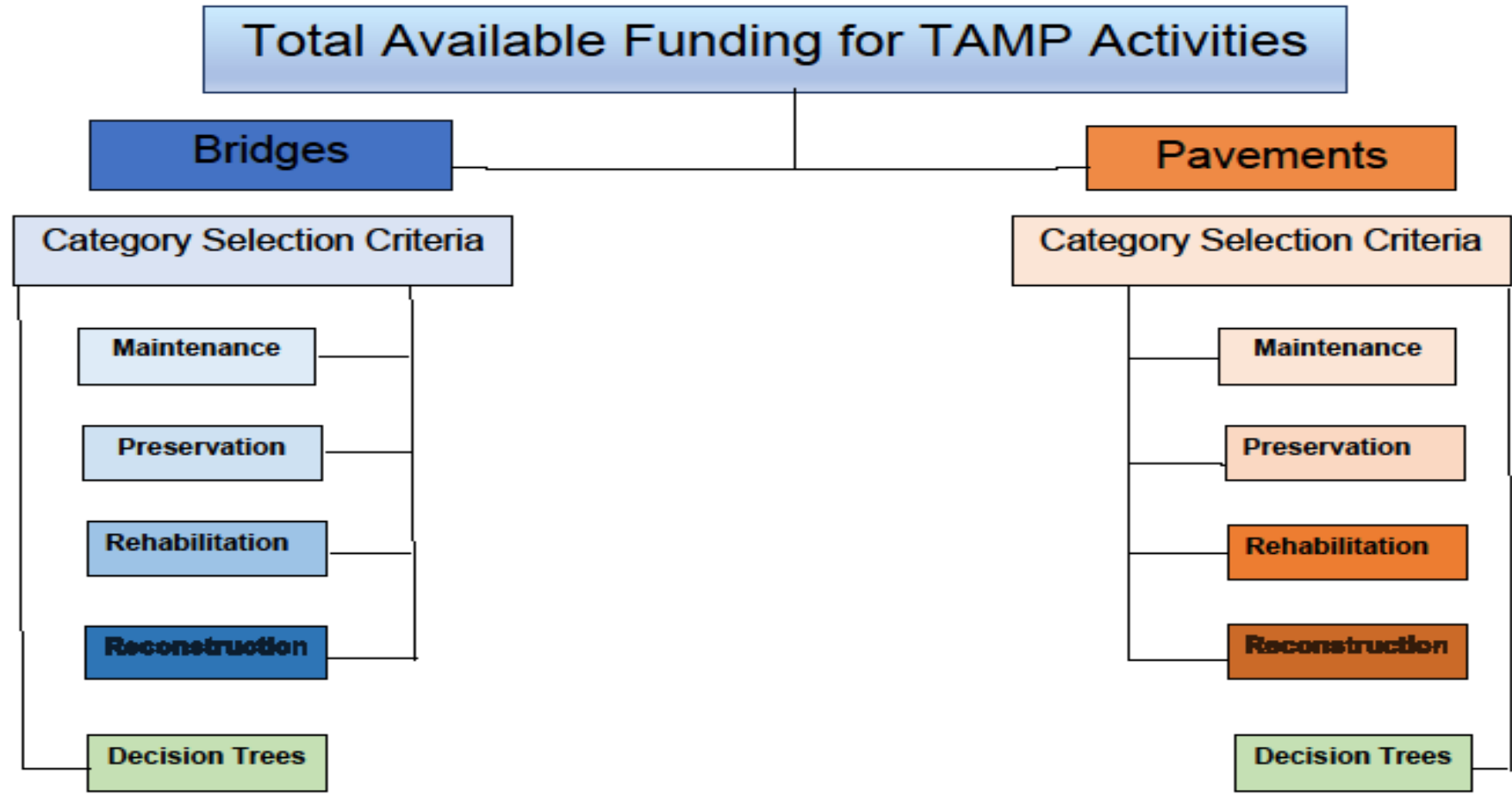


# Challenges

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# Network Level Planning



# Future Program

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The department is working towards developing a multi-year program under the TAMP philosophy that includes:

- 80% rehabilitation/reconstruction projects
- 20% preservation projects
- Limited expansion projects
- Continued focus on NHS pavements and bridges

Thank you!