

# Asset Management Program

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Asset Management Division  
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# Asset Management Program

- Business needs
- Goals and objectives
- Program benefits
- VDOT's past approach
- What is VDOT doing differently?
- Program status
- Summary of work to date

# Business Needs

- Manage VDOT's maintainable assets using a life-cycle approach
- Identify and prioritize statewide needs
- Provide adequate processes to plan, budget, implement, and monitor work efforts
- Meet APA and JLARC recommendations

# Goals and Objectives

- Collect and maintain asset inventory and condition information
- Develop best practices for maintenance and operations activities
- Identify maintenance and operations needs
- Measure and track work accomplishments
- Determine the impact of deferred maintenance

# Program Benefits

- System to collect, compile, and manage asset information
- Objective assessment of maintenance and operations needs
- Resource allocation based on needs
- Improved efficiency of maintenance and operations activities
- Improved performance and life expectancy of VDOT assets

# VDOT's Past Approach

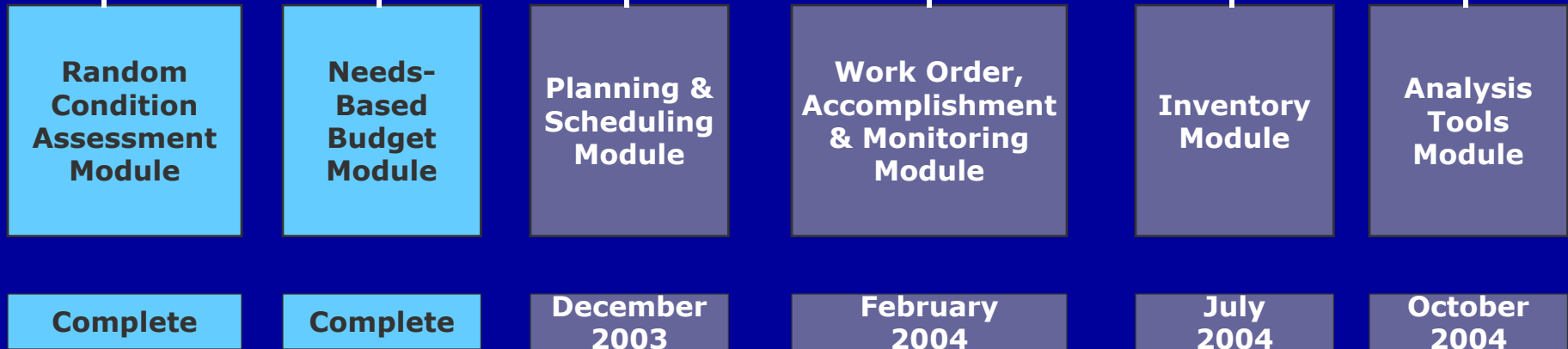
- Maintenance budget historically based:
  - Annual percentage increase
  - Little regard for inventory increase and special needs
  - Limited consideration for asset conditions

# What is VDOT Doing Differently?

- Asset Management approach is:
  - Transition to needs-based budget
  - Incrementally delivered
  - Simple, easy-to-use decision support tool for the field

# Program Status

## Asset Management System





# Random Condition Assessment

- Statistically-based sampling of asset inventory and condition:
  - Sampled over 9,000 one-tenth mile segments statewide across interstate, primary, and secondary systems
  - Developed application in-house
  - Assessment completed by state forces in three months
- Additional assessments to follow

# Initial Findings from Needs-Based Budget Module

- Estimated unconstrained needs:
  - Extrapolated inventory and condition data from sample sites statewide
  - Developed and applied business models to data for selected assets
- Identified up to approximately \$890 million of needed work
  - 55% for pavements (e.g., crack sealing, patching, mill and replace)
  - 29% for bridges (e.g., joint repair, structural steel painting, deck repair)

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# Initial Findings (continued)

- Of the \$890 million needed work:
  - All known safety issues prioritized and addressed in current maintenance program
  - Lower performance standards would reduce short-term maintenance costs, but would increase long-term maintenance needs
  - Maintenance needs should be addressed over time
- Outcome will be incremental reallocation of maintenance resources across assets, systems, and districts

# Next Steps

- Validate early findings
  - Collect more data
  - Refine decision models
- Begin addressing needs in FY 06 budget

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