



Department of  
Transportation



# No Boundaries Roadway Maintenance Practices

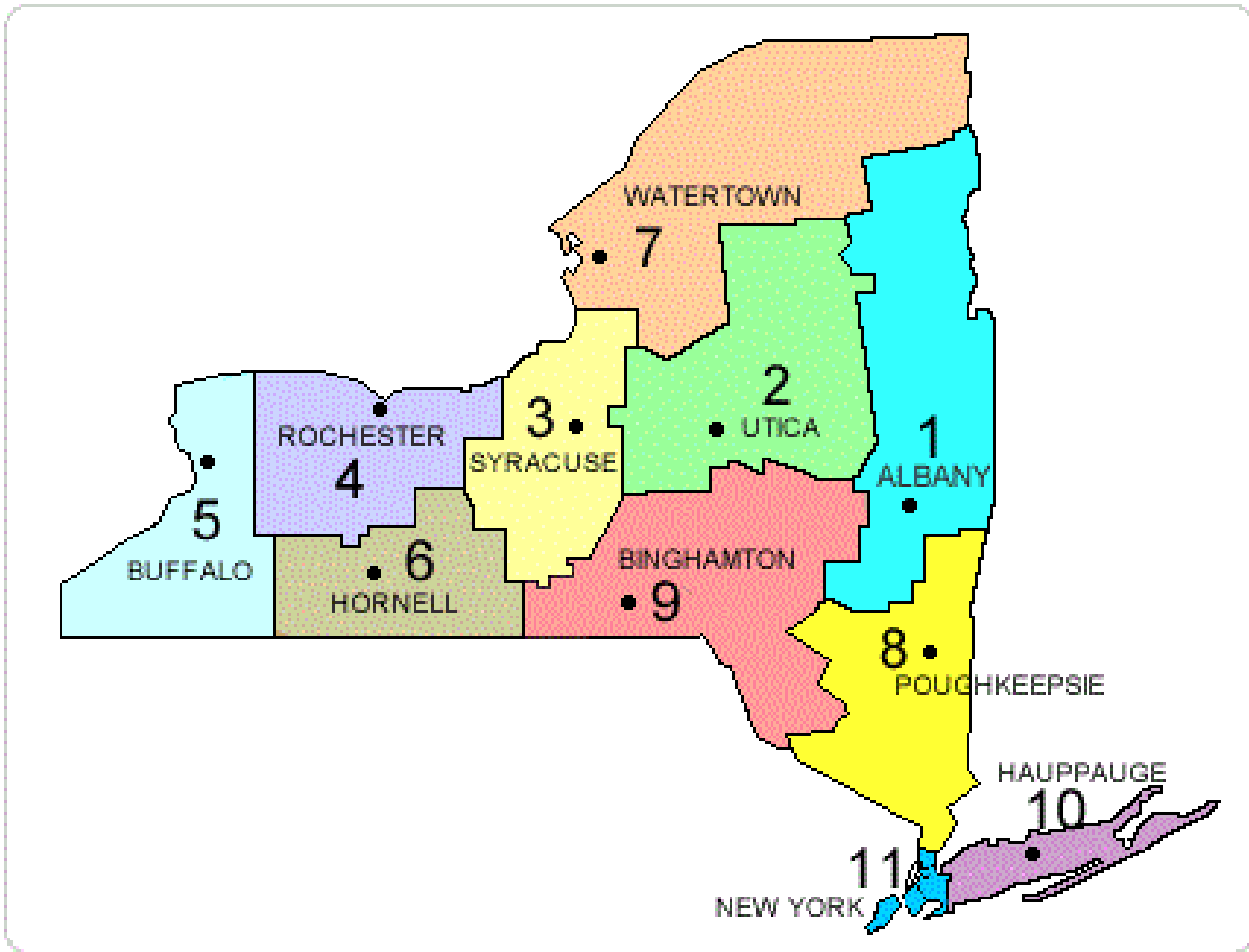
## Member and Guest State Presentations

### New York State

- **Technical Advisory Committee Meeting**
- April 10-12, 2018 Seattle, WA

# MAINTENANCE PROGRAM OVERVIEW

- ➔ NYSDOT, Supported by 11 Regions (Districts) R11, NYC (No State Maintenance Field Workers)
- ➔ Regions Supported by Residencies (typically county) Staffed with a Resident Engineer, PE and staffing based on S&I pattern of trucks. Field Work Force: 3,844 (FTE & PTE(winter))
- ➔ Additionally, we have a Main Office (central office). At the Main Office, we have a Director of Maintenance, Supported by Planning and Operations bureau directors.



# MAINTENANCE PROGRAM OVERVIEW (CONT.)

⇒ Bridges (ea.)	7,800
⇒ Pavement (lm)	43,562
⇒ Large Culverts (ea.)	8,000 +/-
⇒ Small Culverts (ea.)	80,000 +/-
⇒ Guide Rail (mi.)	8,995
⇒ Sign Panels (ea.)	575,000 +/-
⇒ Facilities & Rest Areas (ea.)	330 +/-
⇒ Traffic Signals (ea.)	6,500 +/-
⇒ ADA Ramps	44,500 +/-

# MAINTENANCE PROGRAM OVERVIEW (CONT.)

- Planning, responsible for:
  - EAMP Enterprise Asset Management Plan, TAMP
    - Budget
    - Facilities
    - Maintenance Management Systems (MAMIS to Agile)
    - Work Planning
    - Contracts
    - GIS
    - Training

# MAINTENANCE PROGRAM OVERVIEW (CONT.)

- Operations, responsible for:
  - Program Managers, Provide Technical Guidance including writing Maintenance Policy and Manuals for the following Programs:
    - S&I (my role as Asst. to Mike Lashmet)
    - Bridges
    - Pavement, Pavement Markings
    - Guide Rail & Barrier (my role)
    - Signs (my role)
    - Drainage
    - Roadside (Vegetation, Herbicide, Rest Areas)
    - Training

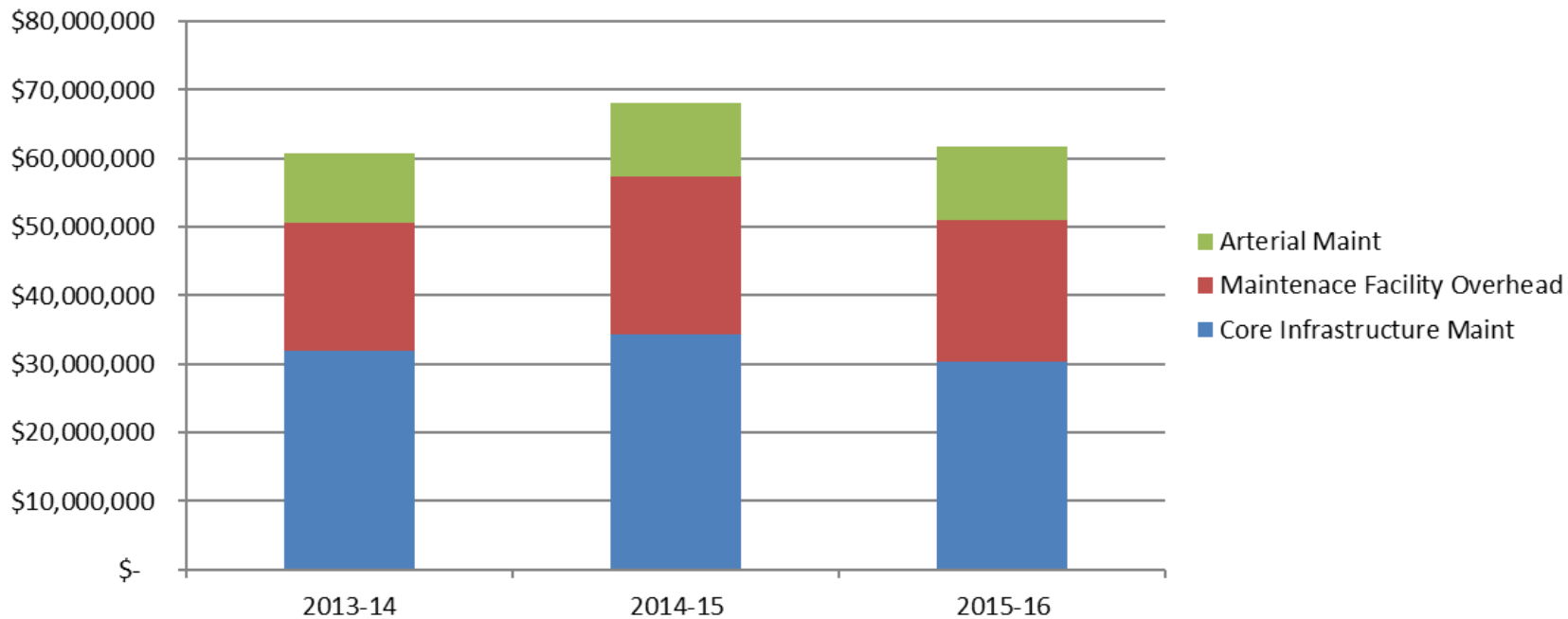
# MAINTENANCE BUDGET

(Non-S&I) \$86,500,000 need

- Program area budgets 2018-19FY:
  - Pavement (PM) \$17.7M
  - Facilities (FC) \$17M
  - Arterial Agreements (AR) \$10.6M
  - Rest Areas (RA) \$9.5M
  - Drainage (DR) \$6M
  - Roadside (EN) \$6M
  - Guide Rail (GR) \$5.6M
  - Bridges (BM) \$5.5M
  - Pavement Markings(MK) \$5.3M
  - Signs (SS) \$3.3M



## Maintenance (non S&I) Funding History





# PROGRAM STRENGTHS

- ➔ **Devoted and Skilled Workforce** (Statewide, recognized as a “Can Do” Agency) Including assistance and response to local system here and abroad
- ➔ **Facilities Operations and Management** – includes construction, improvement, repair, maintenance and operation of public rest areas, as well as, residency work locations, fleet administration shops, traffic signal crew shops, fuel and salt storage buildings, bridge and special crew shops used to house the workforce, provide material and tool storage, and shelter equipment.

# PROGRAM STRENGTHS

- ➔ **Communications and Information Management** – includes the radio dispatch system used to communicate between vehicles and residencies, the wide area network (WAN) and broadband connectivity, the architected system of hardware and business application software, and helpdesk support to maintain key systems such as MAMIS, CARS, Winter Traveler system, and others.
- ➔ **Fiscal and Program Management** – includes integrating capital funds into preventive and corrective maintenance activities and into systems operations, allocations and management of operating (NPS) dollars for programmatic results, purchasing and expenditure tracking by program, reallocations of unused funds, balancing fiscal needs across regions, DOB and Executive Budget requests, and cash flow management.

# PROGRAM STRENGTHS (CONT.)

- ➔ **Contract Management** – development and letting of contracts needed by maintenance and operations managers for outsourced work and commodity acquisition including salt and fuel contracts, Work Order Contracts, Vendor in Place Paving Contracts, Job Order Contracts, simplified contracts, OGS liquid bituminous contracts and FOB material contracts.
- ➔ **Training** – includes the State’s Equipment Operator Instruction program used to train and certify workers in the safe and efficient operation of various categories of maintenance equipment, supervisory and leadership training, engineering and analytical skills training, task training, emergency management and ICS training, and management training.

# PROGRAM STRENGTHS (CONT.)

- ➔ **Personnel Management and Hiring** – includes hiring of both permanent and temporary employees, testing and physicals, employee development, and recruitment and retention.
- ➔ **Performance and Asset Management** – includes inventory and condition assessments such as the Culvert Inventory and Inspection System (CIIS), utilization of work management and asset management in MAMIS, development of organizational performance metrics, collection and analysis of the annual Roadside and Traffic Quality Assurance reviews, Paving Project Quality Assurance reviews, collection and analysis of the annual Rest Area Quality Assurance reviews, development of fiscal and programmatic performance measures, segmented customer outreach efforts and surveys, and utilization of the Residency Self Assessment.

# PROGRAM STRENGTHS (CONT.)

- ➔ **Involved in Development of Capital Program Review and Asset Management Program.** Including Capital Program Update Instructions; Programing guidance mission exemplified in the Forward Four:
  - ❑ Preservation First
  - ❑ System not Projects
  - ❑ Maximize Return on Investment
  - ❑ Make it Sustainable
- ➔ Safety being a component that resides with each of the concepts.

# PROGRAM CHALLENGES

- ➔ Staffing and Funding to meet programing needs.
- ➔ FHWA/AASHTO directives I.E. (Sign Retro Reflectivity requirements, MASH implementation requirements)
- ➔ Looking to No Boundaries to gain information on:
  - ❑ Best Practices
  - ❑ Maintenance Policies and Program Planning
  - ❑ Delivery of non-S&I Maintenance Programs
  - ❑ Data Analysis Systems used along the way

# Questions?

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