

# NJDOT Update

66<sup>th</sup> Annual NJ Asphalt Paving  
Conference

March 7, 2023



# OVERVIEW

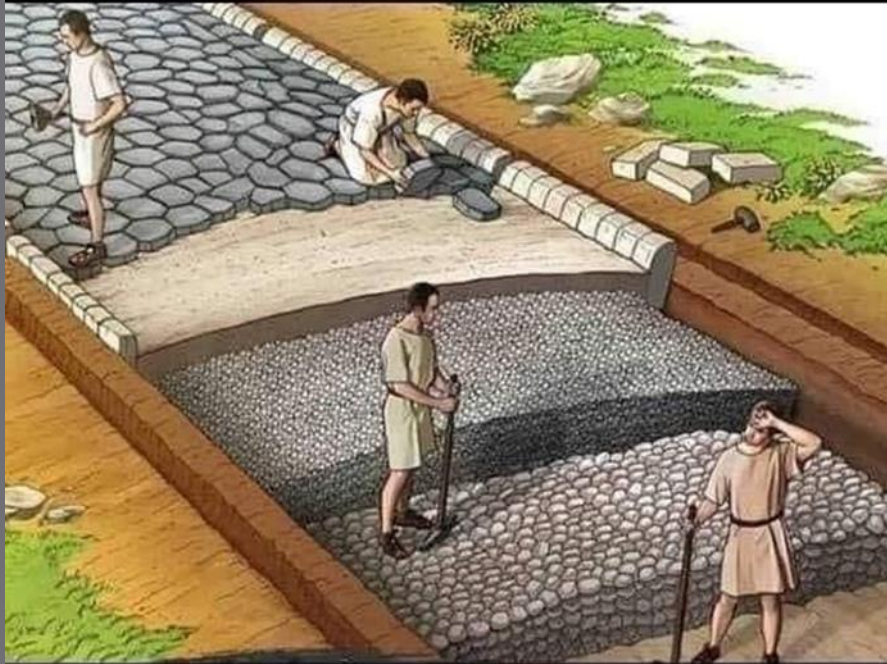
Specification Updates

In the Works for 2022

Status of NJDOT  
Highway System

Summary of FY2023  
Paving Program

**WITHOUT A SINGLE DEGREE , THEY BUILT US  
ROADS THAT HAVE LASTED AN ETERNITY**



**AND THEN, ENGINEERS ARRIVED**



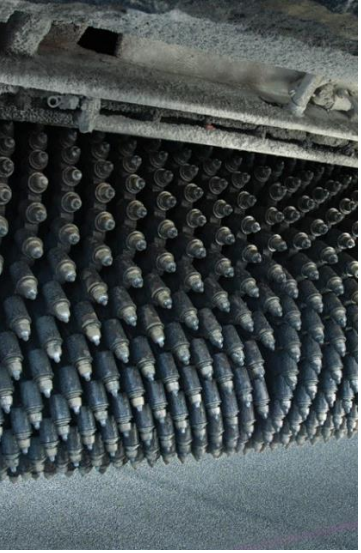
PAVEMENT  
SPECIFICATION  
CHANGES



# Specification changes

- In 401.03.03 added HMA Longitudinal Joint Repair, pay item added
- Asphalt binder PG64-22 is renamed to PG64S-22 within appropriate sections in accordance with AASHTO M332





# Specification changes

- Removal of Fog Seal application over rumble strips in 610.03.07
- In 401.03.01, authority is given to RE based on field conditions and results of ASTM E965 to allow change of time traffic is allowed on micro-milled or profile milled surfaces



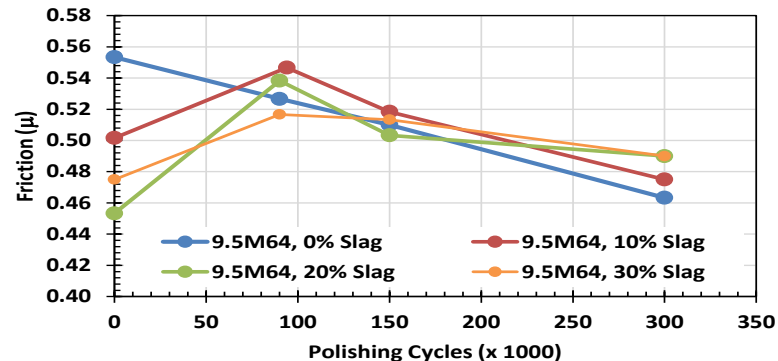
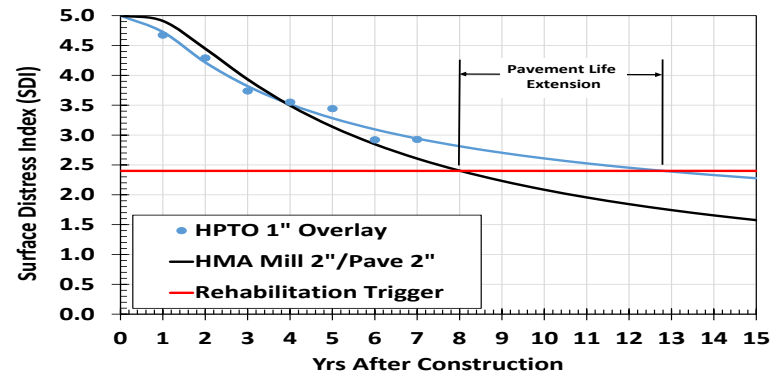
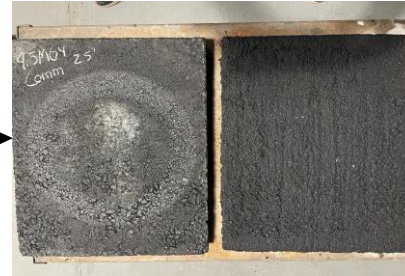


In the Works for 2022



# Pavement Support Program

- Enhanced Friction Overlays
- High Performance Thin Overlay (HPTO) Mixture Design Improvements – Field Performance
- Incorporating Steel Slag in Hot Mix Asphalt



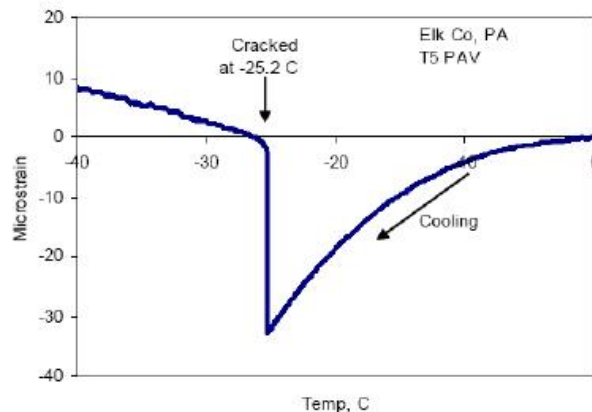
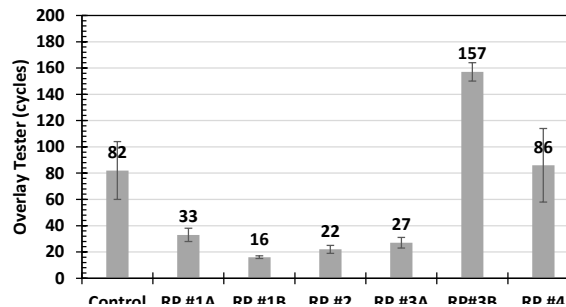
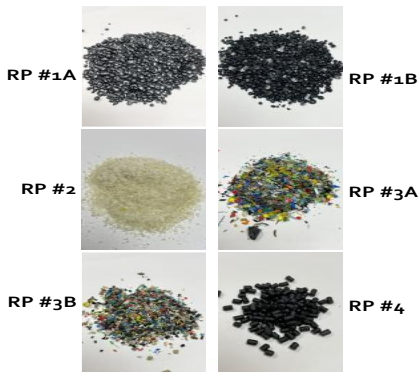
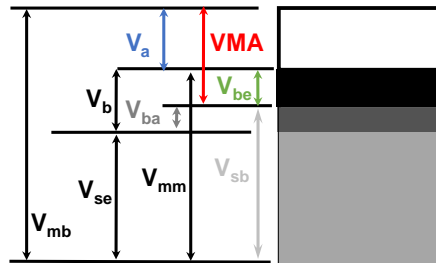
# Pavement Support Program

$$\text{VMA} = 100 - \frac{G_{mb} P_s}{G_{sb}}$$

Volume of aggregate

VMA is the volume of air + volume of effective asphalt

VMA is an indication of film thickness on the surface of the aggregate

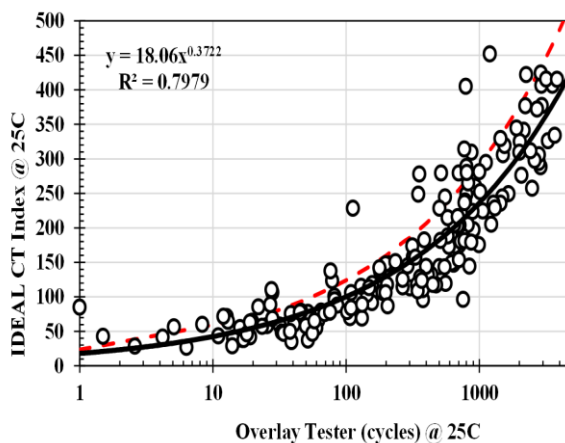
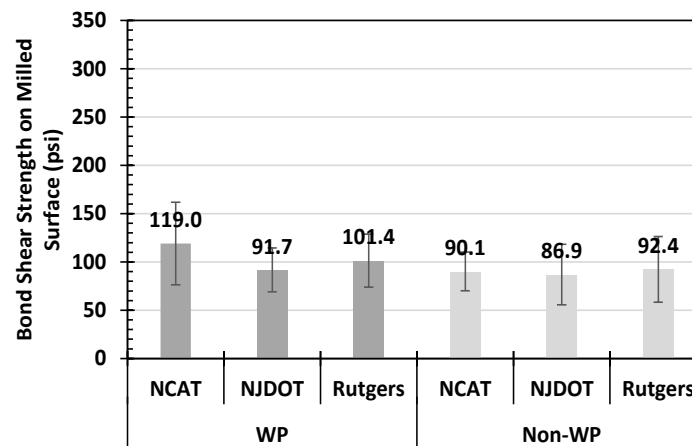
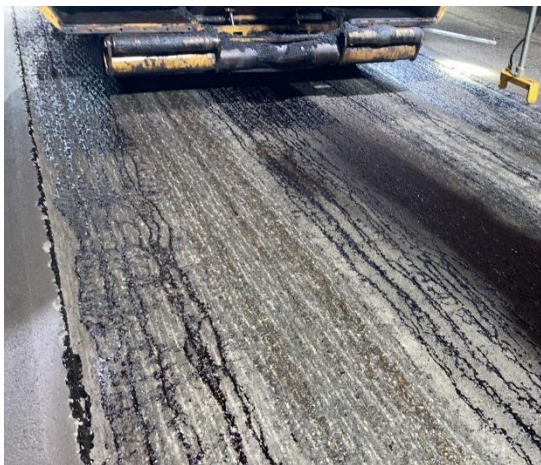


- Procedure for Selecting the Aggregate Bulk Specific Gravity for Asphalt Mixtures
- Evaluation of the Potential Use of Recycled Plastics as an Asphalt Mixture Modifier
- Evaluation of the Asphalt Binder Cracking Device (ABCD) for Inclusion in Asphalt Binder Cracking Specifications

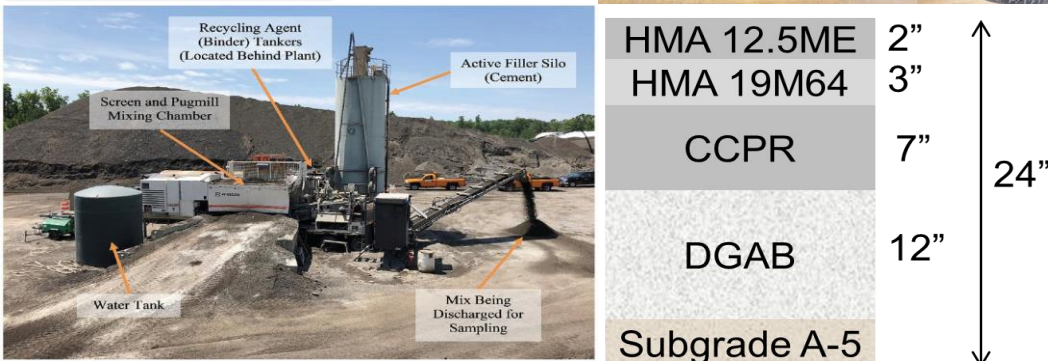


# Pavement Support Program

- Interlayer Bonding Properties of Asphalt Pavements
- Implementation of Indirect Tensile Tests During Asphalt Mixture Quality Control Testing (HT-IDT and IDEAL-CT)



# Pavement Support Program

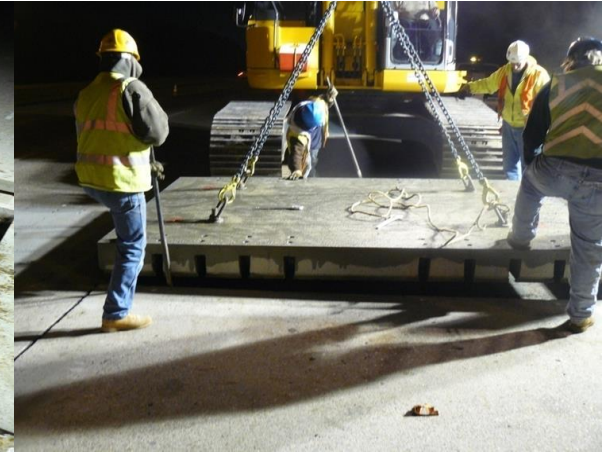


- Review, Research and Development of Pavement Design Procedures and Specifications for Slurry / Microsurfacing with 100% RAP
- Development of Pavement Design Procedures and Construction Specifications for Cold Central Plant Recycling (CCPR) Asphalt Mixtures
- Review, Research and Improvement Recommendations of Cold in Place Recycling, Design Practices, and Specifications



# Pavement Support Program

- Improvements to Current Precast and Rapid Repair Portland Cement Pavements Specifications
- Full Depth Reclamation Review, Research, and Improvement Recommendations



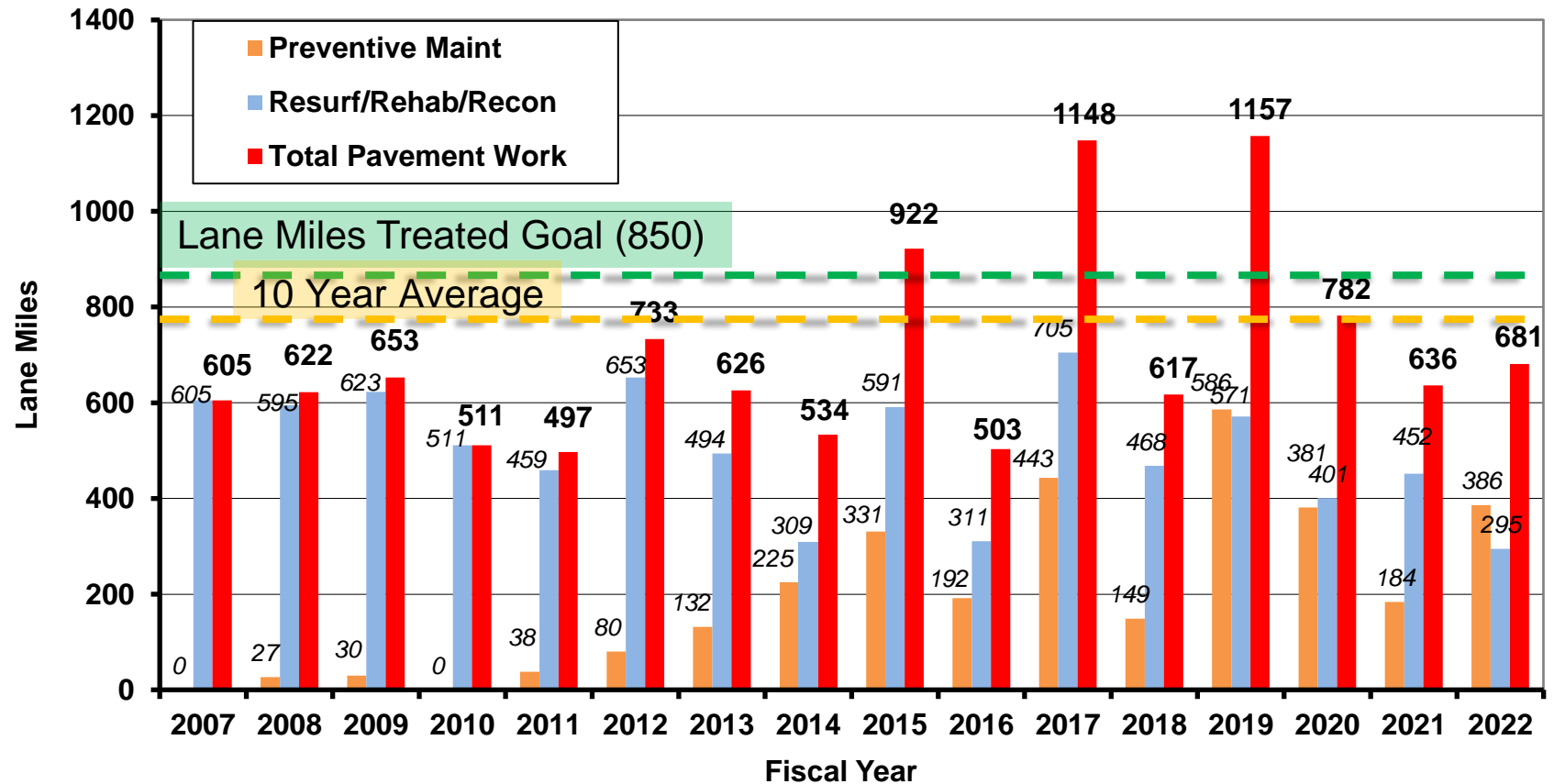
# STATUS OF NJDOT HIGHWAY SYSTEM



# NJ State Highway System

## Lane Miles of Major Pavement Work Completed

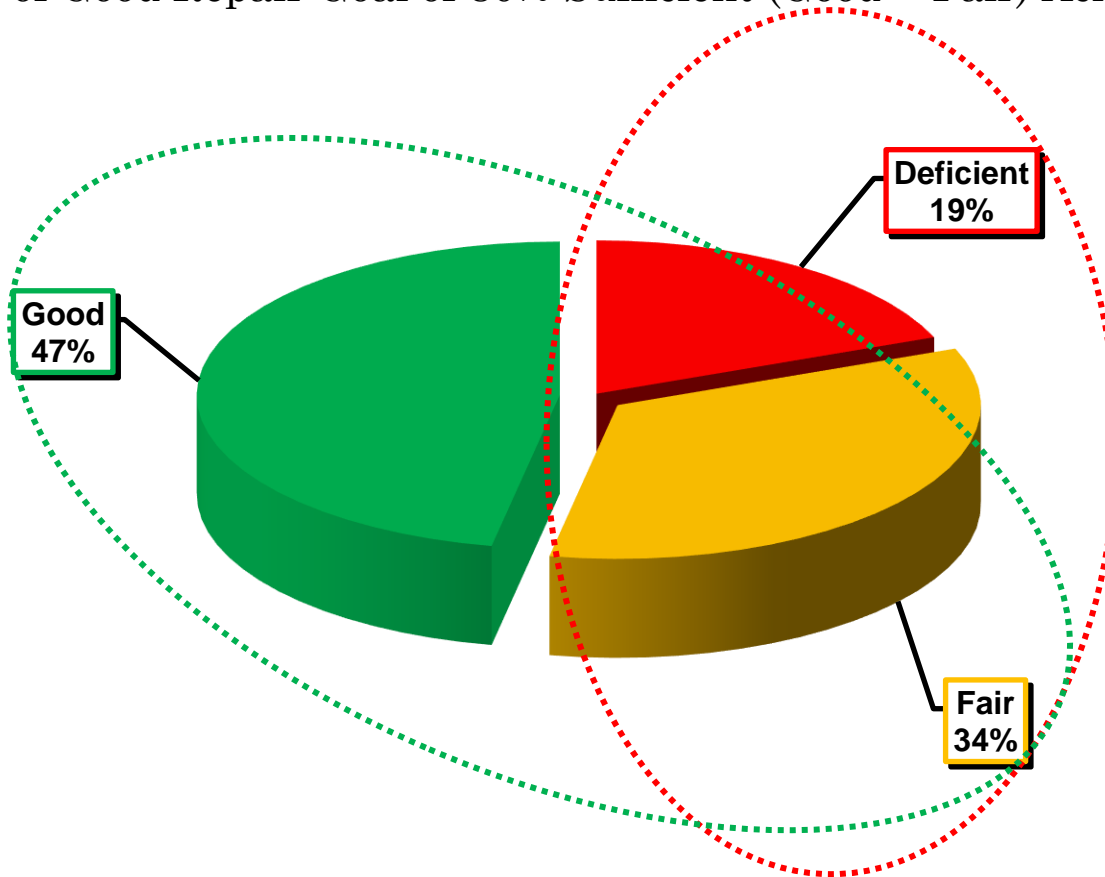
(Total System Mainline Lane Miles = 8539)



## NJDOT Maintained Pavement Status Based on IRI & SDI (Based on 2022 Data)

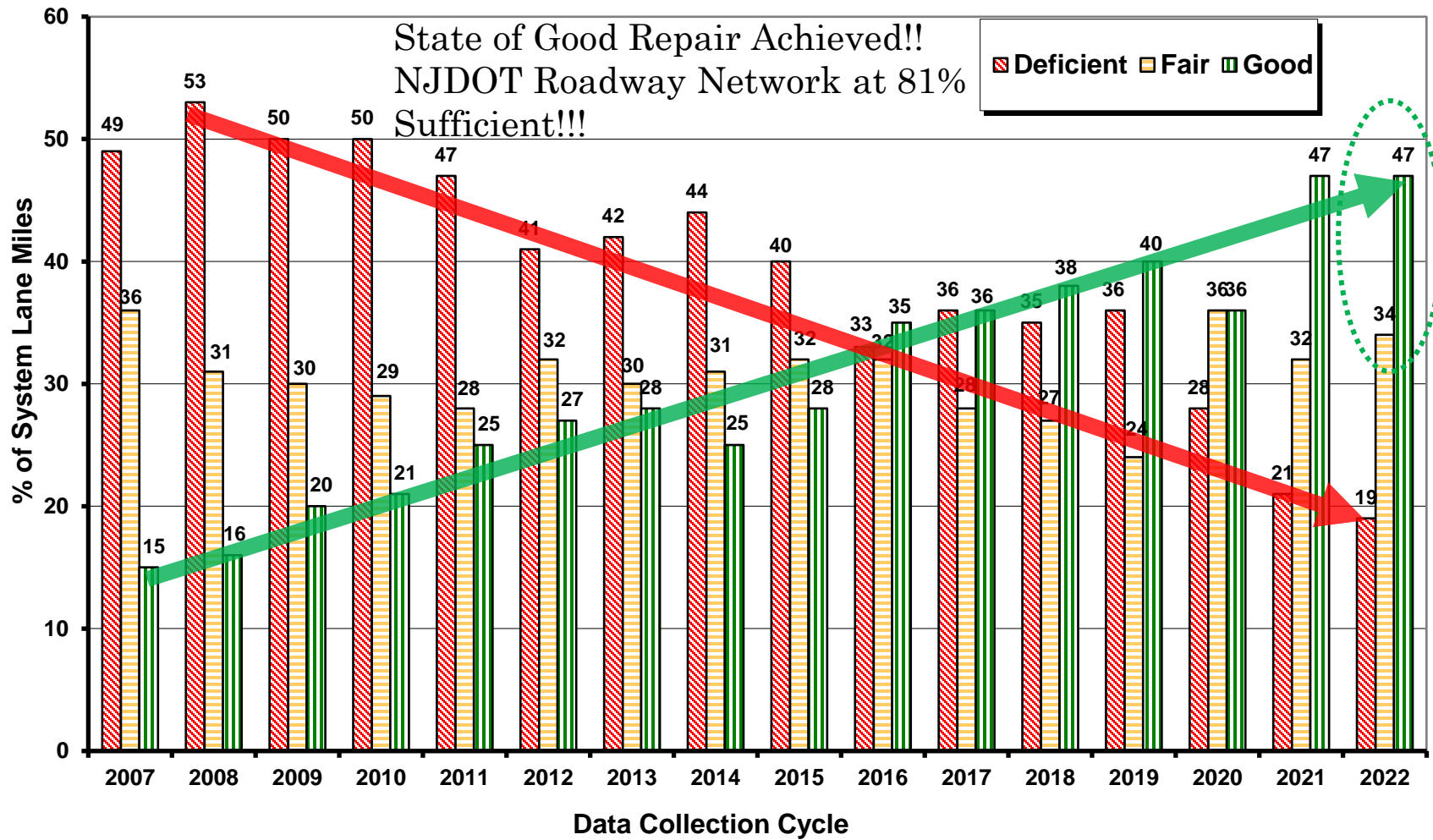
Good News:

State of Good Repair Goal of 80% Sufficient (Good + Fair) Achieved!!



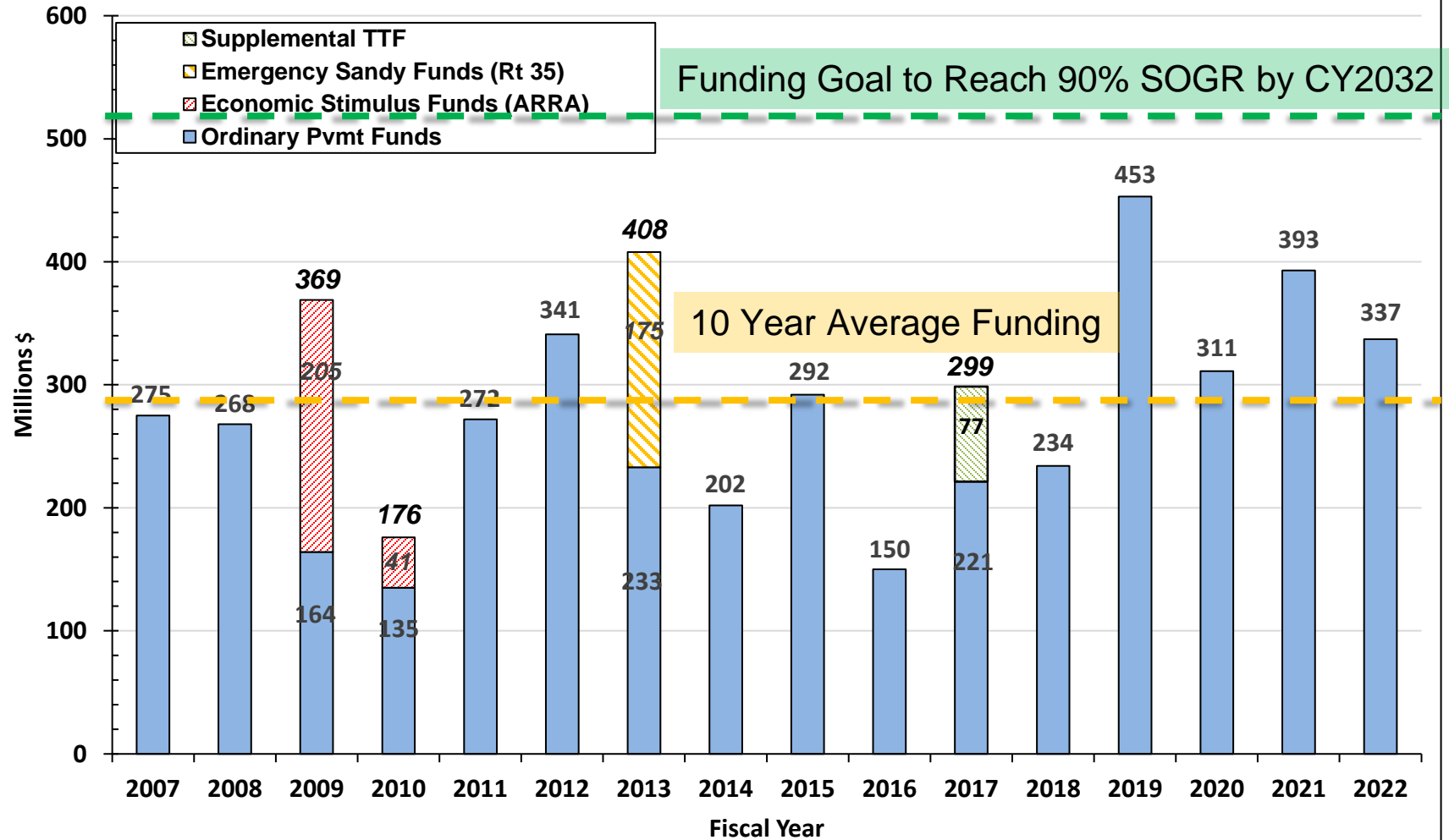
*Source: NJDOT Pavement Management System, 2022 Data*

## Multi-Year Status of State Highway System



Source: NJDOT Pavement Management System

## PAVEMENT CONSTRUCTION SPENDING HISTORY







# NJDOT FY23 Paving Program

- Anticipated Awards July 2022 through June 2023
  - Approximately 40 Projects
    - 22 Preservation
    - 18 Resurfacing/Rehab/Recon
  - \$427M Pavement Project Awards

- Robert Blight
- Executive Manager
- Pavement & Drainage Management & Technology
- [robert.blight@dot.nj.gov](mailto:robert.blight@dot.nj.gov)
- Questions?

