



DELAWARE DEPARTMENT OF TRANSPORTATION PAVEMENT MANAGEMENT

FEBRUARY 17, 2020

MARK LUSZCZ
DEPUTY DIRECTOR
(DESIGN)



PAVEMENT MANAGEMENT SECTION STRUCTURE



Sarah McDougall, P.E.
Pavement Management Engineer

Vacant

Mike Beulah

Paul Farkas

Larry Eliason

Consultants

Road Ratings: AECOM / Mandli

Pavement Management Software: Kercher

Design / Plan Packages: Several



© 2019 THE KERCHER GROUP, INC.



PAVEMENT MANAGEMENT – MAJOR SUPPORT/IMPLEMENTATION SECTIONS



Construction

Brian Locke – North
Wayne Hamilton – North
George Haldas – Central
Chris Webb – South

Traffic

Max Saintil
Naa-Atswei

Plus many other staff and consultants



© 2019 THE KERCHER GROUP, INC.



PAVEMENT MANAGEMENT SECTION ROLES AND RESPONSIBILITIES



Pavement
Condition
Data
Collection



Pavement
Management
System



Funding
Allocation



Project
Estimates



Project
Packaging

PAVEMENT MANAGEMENT PROGRAM CHANGES AND IMPROVEMENTS THROUGH THE YEARS



Began Collecting
Pavement Condition
Data Manually
1990

Semi-Automated
Data Collection
2007

Major Business, Systems,
and Data Improvements
within PMG
2019



2001
Pavement
Management
System Goes Live

2016
Fully Automated
Data Collection and
PMS Upgrades/
Improvements

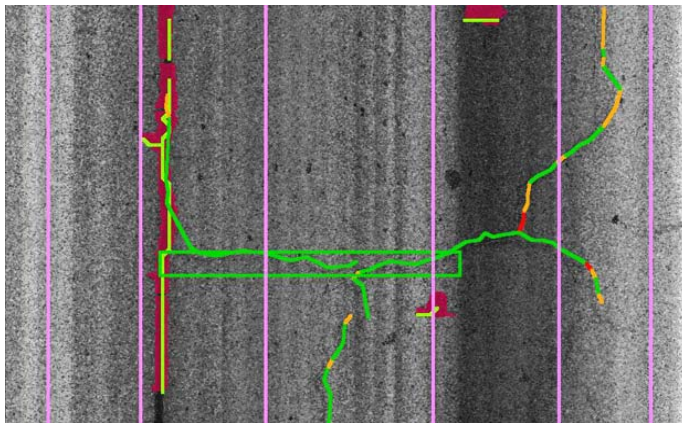
2019
TAMP
Certified by
FHWA



© 2019 THE KERCHER GROUP, INC.



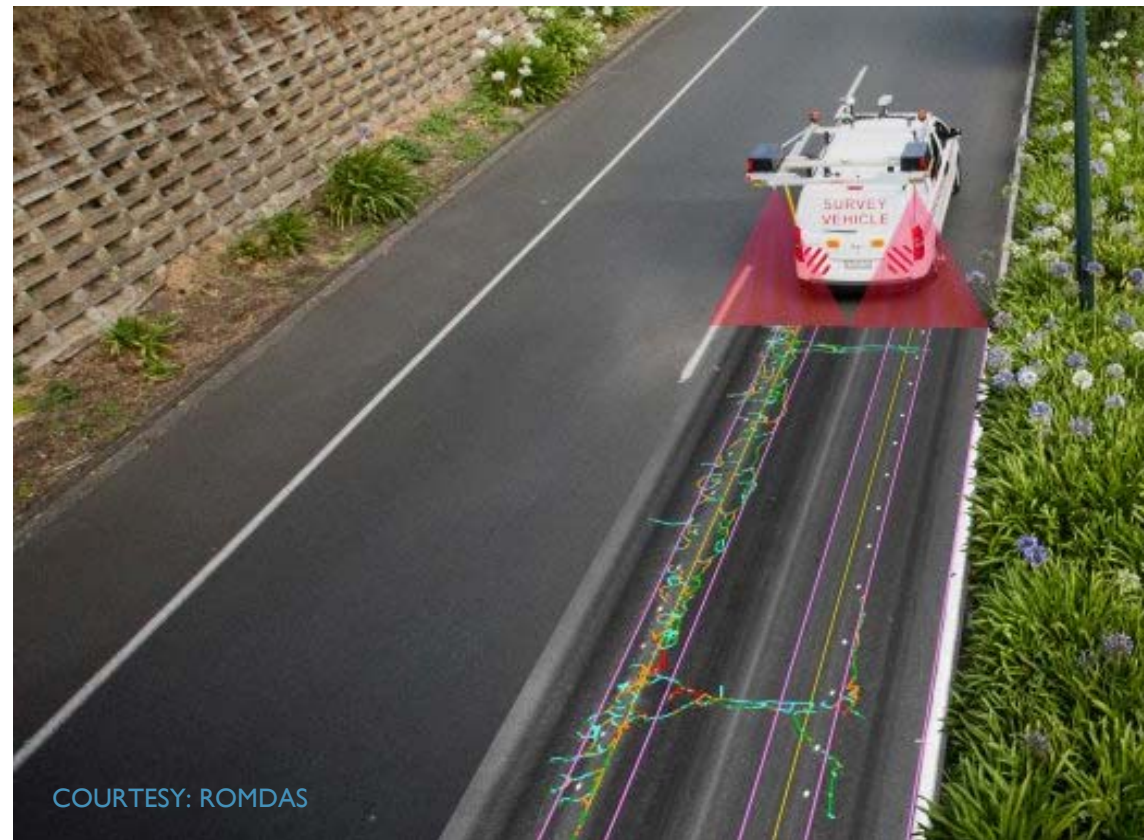
AUTOMATED CONDITION DATA COLLECTION DELDOT USES STATE-OF-THE-ART TECHNOLOGY



AUTOMATED CONDITION DATA COLLECTION



- Vehicle Mounted Data Collection Equipment
- Right of Way Imagery
- Laser Crack Measurement System (LCMS)
- Rut Depths
- International Roughness Index (IRI)



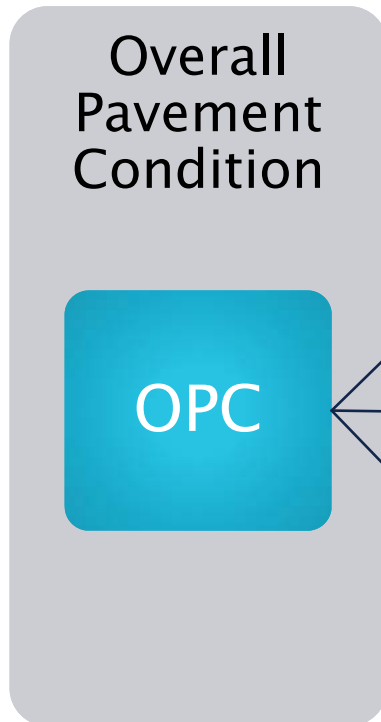
© 2019 THE KERCHER GROUP, INC.



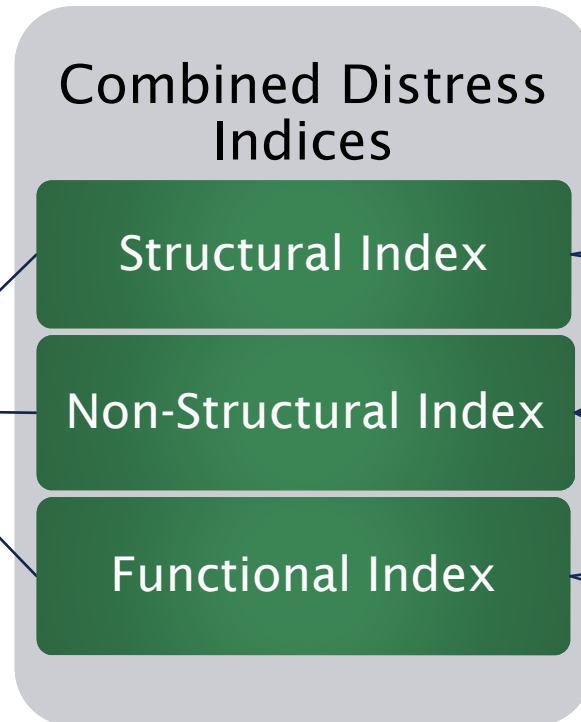
DATA MANAGEMENT RELATIONSHIP



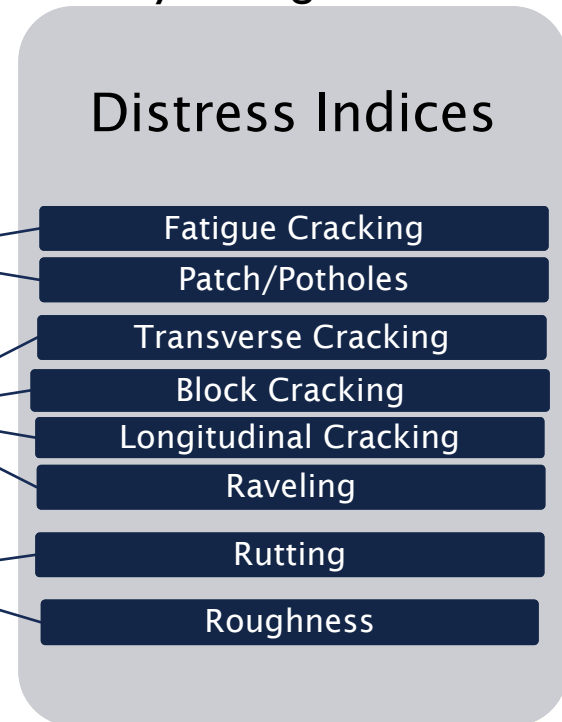
Network Health Level



Decision Making and Performance Model Level



Data Collection and Quality Management Level



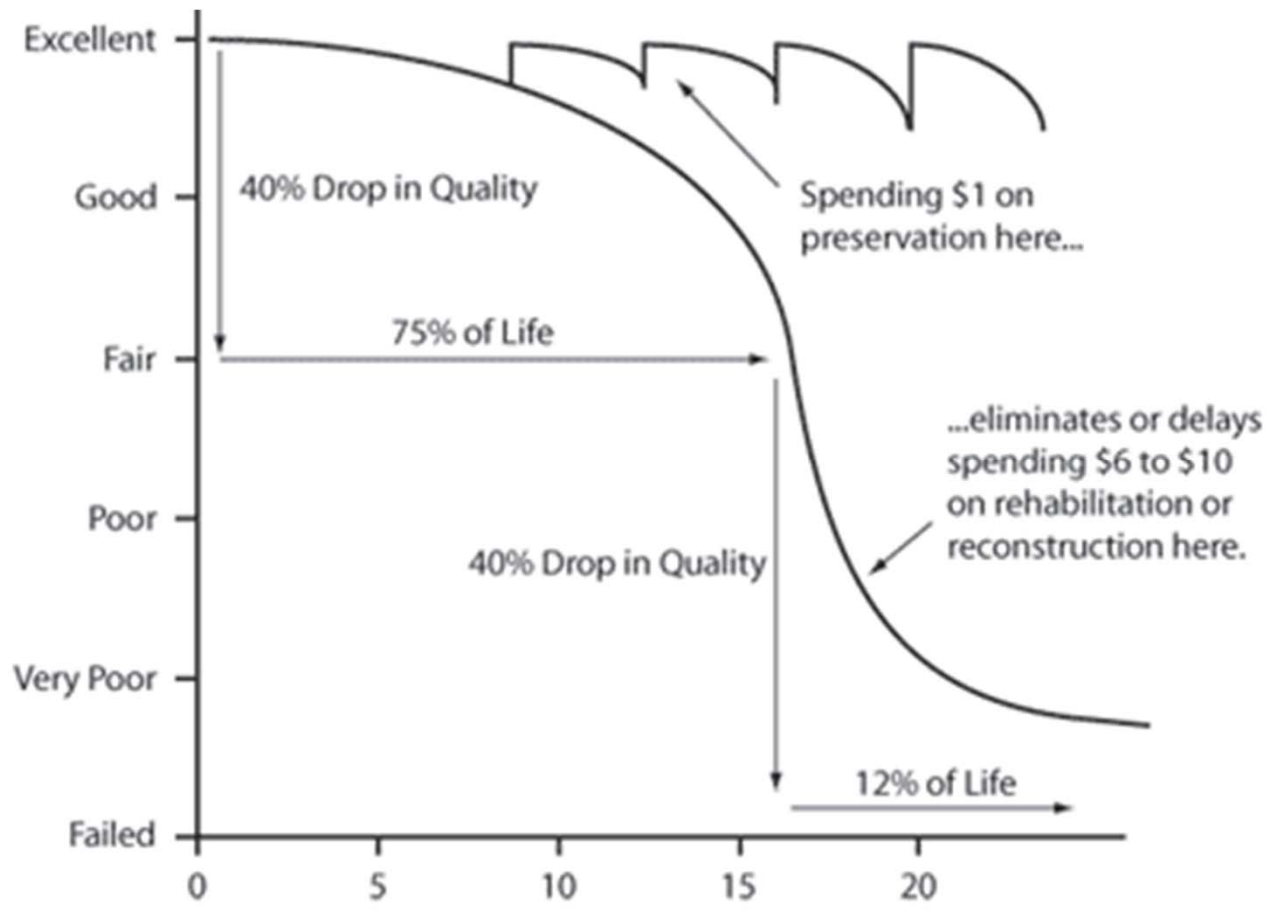
COMPONENTS OF THE PAVEMENT MANAGEMENT SYSTEM



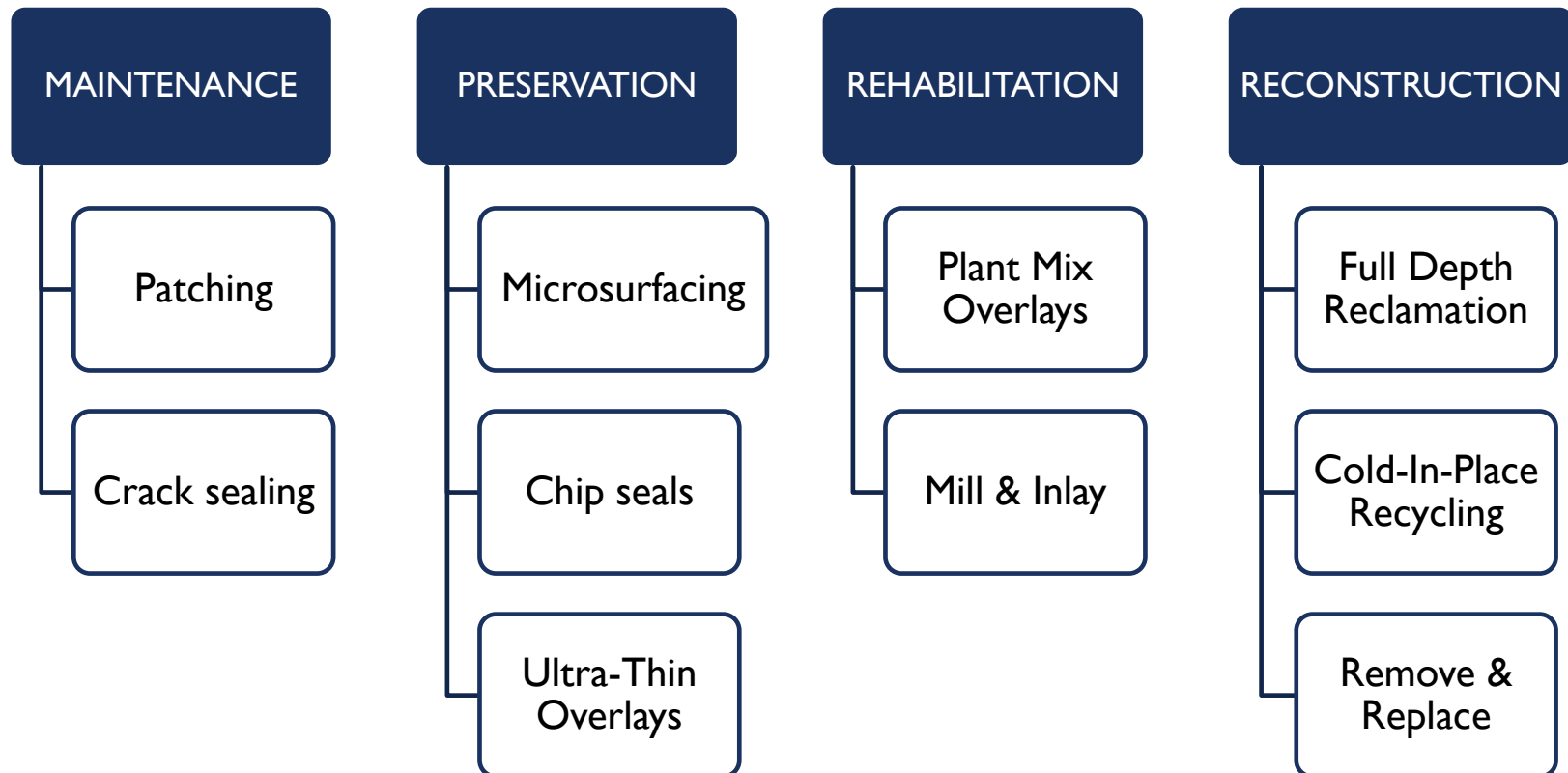
**Data
Management**

**Policy
Management**

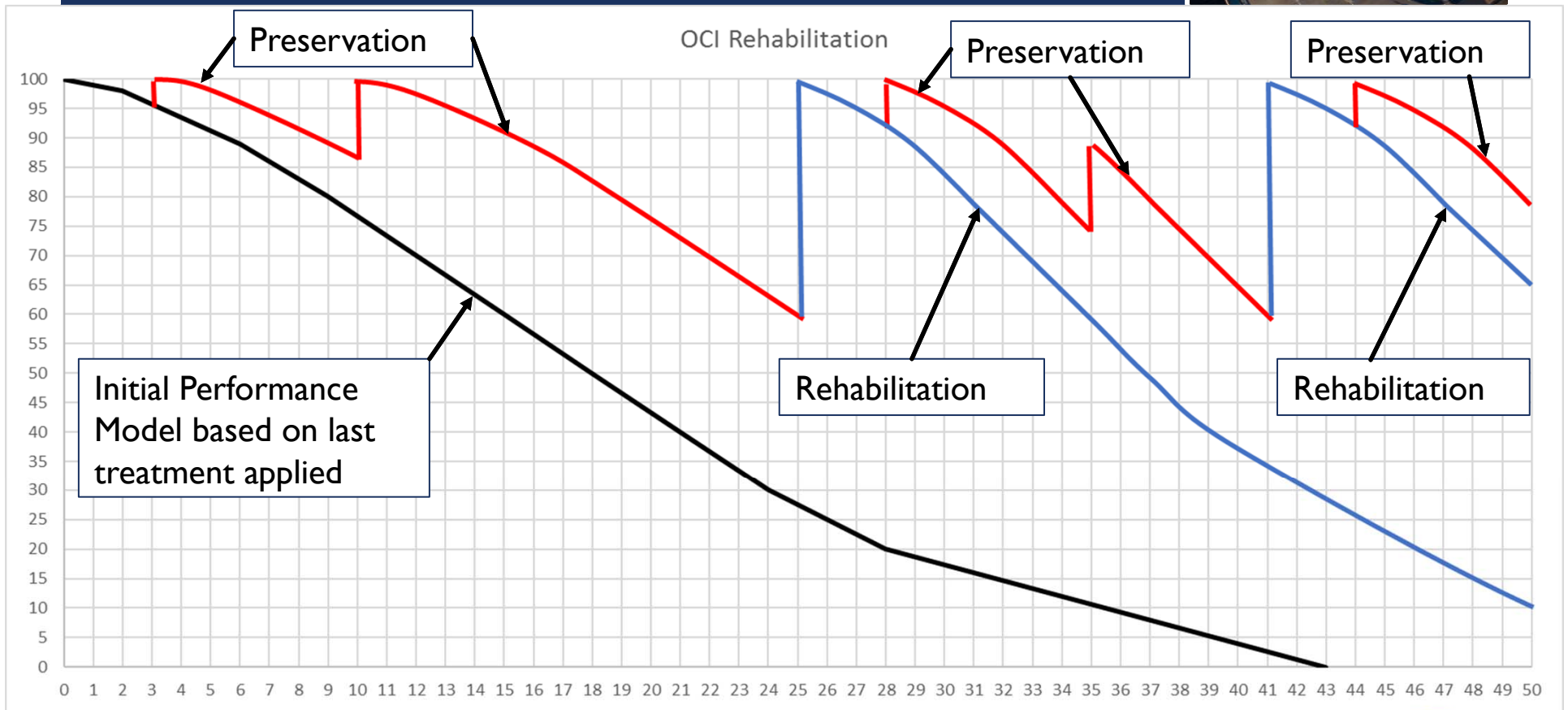
IMPORTANCE OF TREATMENT TIMING THE CLASSIC PAVEMENT MANAGEMENT PROBLEM!



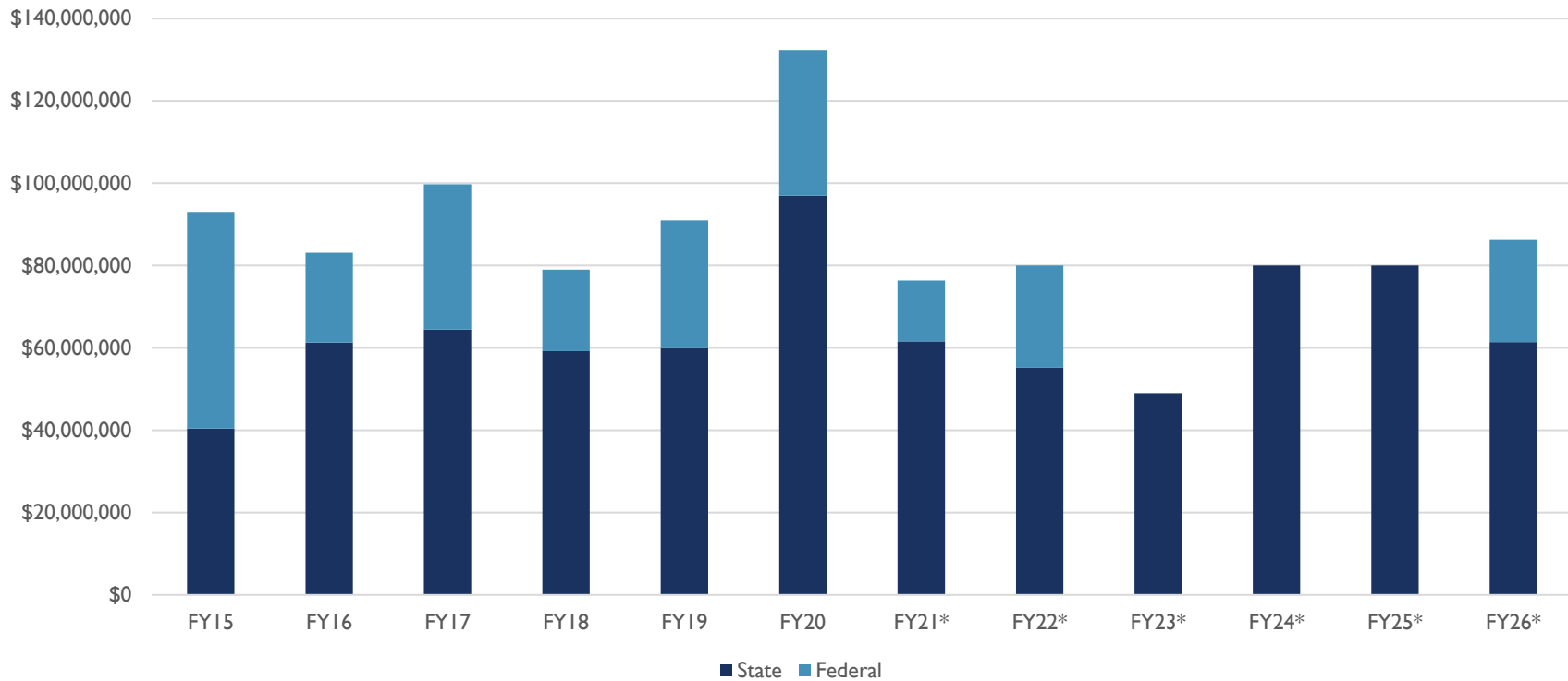
PAVEMENT TREATMENTS



EFFECTIVE LIFE CYCLE MANAGEMENT IS THE OBJECTIVE



PAVEMENT MANAGEMENT BUDGET



© 2018 THE KERCHER GROUP, INC.



THANK YOU



© 2019 THE KERCHER GROUP, INC.