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Deputy Director
Kent County Road Commission

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#### **Process**

- Primary focus of Asset Management Program
- Network level -- long-range surface conditions objectives
- Project level -- Five-Year Program investment and mileage targets
- Michigan's Transportation Asset Management Council (TAMC)

and MPO coordination

#### Results

- Surface condition rating PASER
- Network conditions and forecasts

### NCPP Appraisal

- Observations and recommendations
- "Extended Life" analysis



Kent County......2<sup>nd</sup> largest county road network Grand Rapids......2<sup>nd</sup> largest urbanized area

County Roads	1,959 mi.
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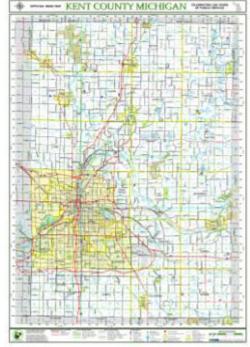
- Primary......100% paved......661 mi.
- - ❖ Townships cost share on Locals 55%/45%

#### Construction

•	Flexible	82.3%

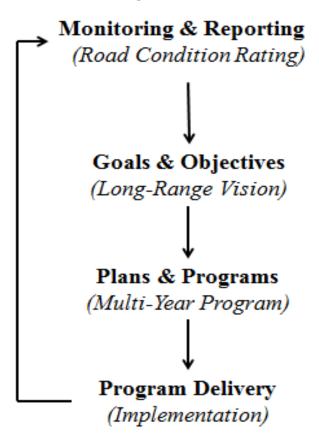
- Composite......1.6%
- Other......15.7%







#### Asset Management Process



#### **Pavement Preservation Activities**

- Conduct surface condition rating PASER
  - Primary roads -- annual w/MPO (1996)
  - Local roads -- every 3 years
  - TAMC -- annual condition report (2004)
- Analyze improvement and investment scenarios
  - Network level assessment (% G-F-P)
  - Annual lane mile targets
- Update Five-Year Program
  - Pvm't Preservation investment levels
  - Schedule of major improvements
  - Budget inputs
- Document project completion
  - Update RoadSoft database
  - TAMC investment report



# PASER Condition Rating Categories

GOOD



**POOR** 



PASER = 10, 9, 8

Routine Maintenance



PASER = 7, 6, 5

Preventive Maintenance

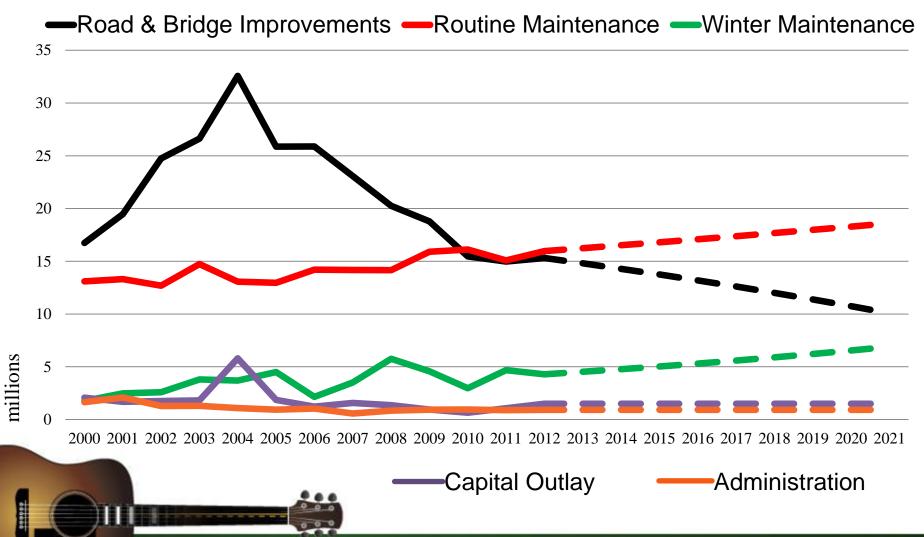


PASER = 4, 3, 2, 1

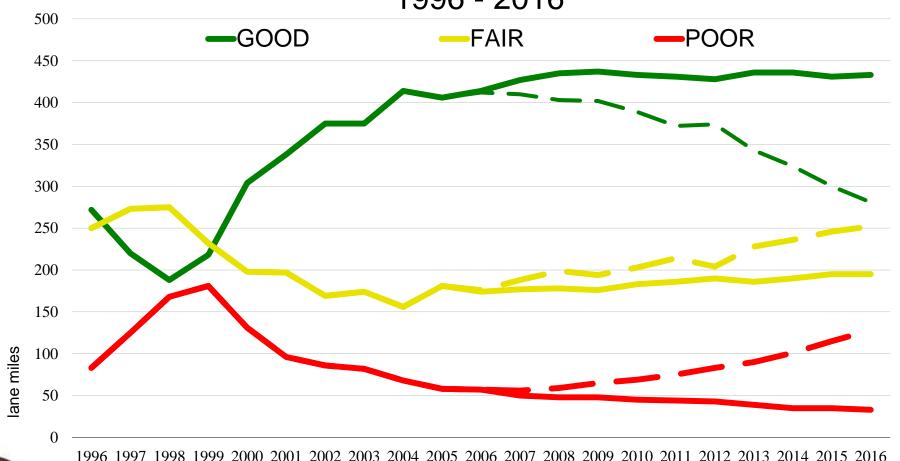
Rehabilitation & Reconstruction



# Expenditure Trends and Projections 2000 - 2020









#### **NCPP** Observations & Commendations

#### **Champion for Preservation**

✓ Strong support from Commissioners and Division Directors

#### **Dedicated Funding**

- ✓ Budget line item for Pavement Preservation
- Driven by long-range system condition goals and five-year improvement program investment targets

#### **Demonstrated Success**

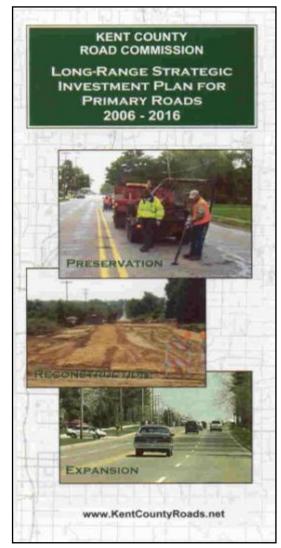
- Network conditions routinely monitored
- ✓ Improved performance over 15 years

#### **Commitment to quality Materials and Workmanship**

✓ Multi-county chip-seal program

#### Positive Public Relations and Stakeholder Buy-In

- ✓ Outreach to local officials, key stakeholders, and media
- Training for public officials through Michigan LTAP



#### **NCPP** Recommendations

#### **Budgeting**

✓ Protect annual funding levels for pavement preservation from fluctuations in the cost of winter maintenance

#### **Optimize Preservation Strategy**

 Utilize PMS to greater extent to develop optimized preservation strategies

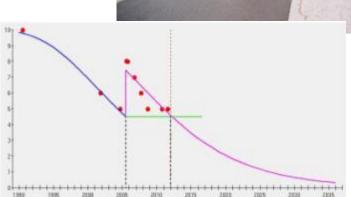
#### **Federal Funding**

✓ Work with MPO to establish a "General Program Area" for pavement preservation using the TIP amendment process to incorporate specific projects per year

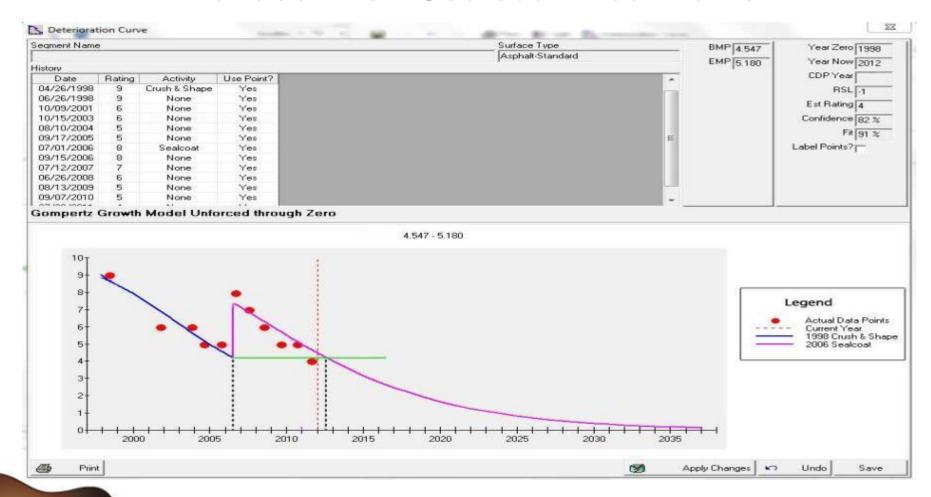
#### **Pavement Life Extensions**

✓ Establish formal procedures for tracking actual life extensions of pavement preservation treatments





#### Extended Life - Sealcoat Treatments



#### **Extended Life of Sealcoat Treatments**

Road Name	Year Applied	Extended Life (years)
Alden Nash Ave SE	2004	5
Edgerton Ave NE	2005	10.5
Freeport Ave SE	2006	8.5
Knapp St NE	2006	9
Larsen Ave NE	2006	9
Northland Dr NE	2005	5.5
Old Belding Rd NE	2005	4
Pettis Ave NE	2004	6.5
Rooksby St NE	2007	8.5
Wabasis Ave NE	2006	3.5
Whitneyville Ave SE	2006	4.5
Whitneyville Rd SE	2003	4.5
3 Mile Rd NE	2006	9
10 Mile Rd NE	2006	6
17 Mile Rd NE	2003	7
68th St SE	2005	6
92nd St SE	2005	7.5
Average Years of Extended Life		6.7

Unit Cost / Avg. Extended Life =

Cost per Year of Extended Life

Example:

\$3,989/lane mile / 6.7 years

=

\$595 per year of Extended Life



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