

Asphalt Pavement Association of Michigan

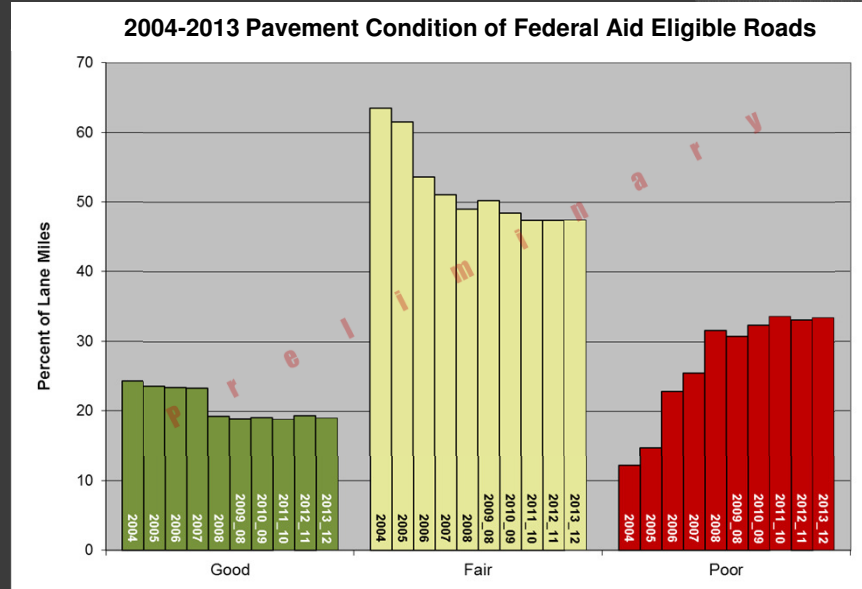
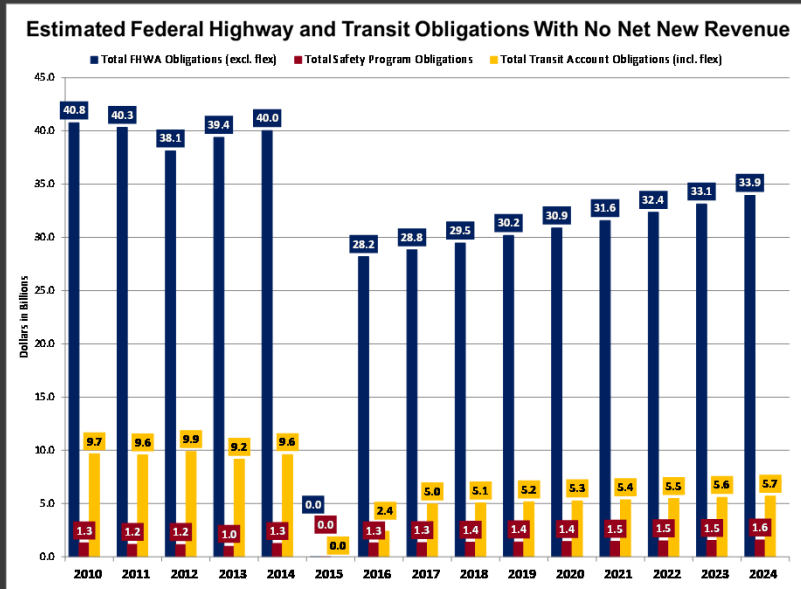
March 19, 2014

Director Kirk T. Steudle
Michigan Department of Transportation

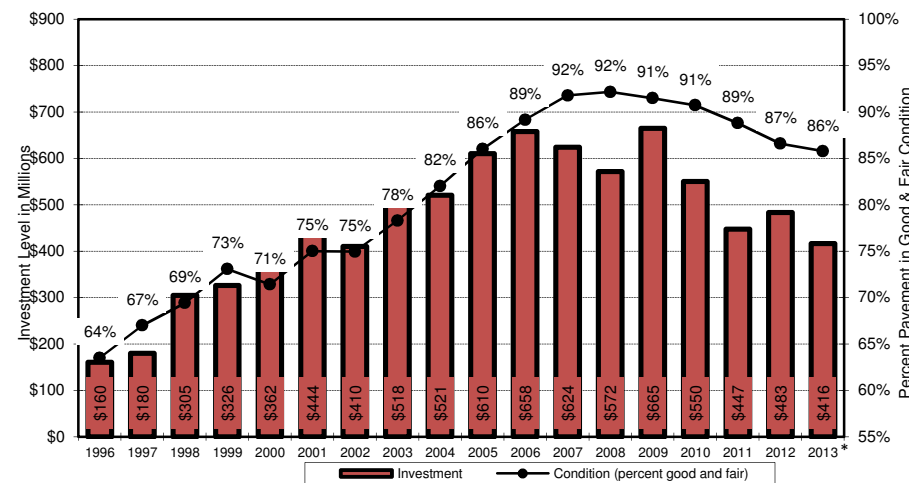


Customer Survey: www.michigan.gov/mdotsurvey

Assess the Current Challenge



Michigan Department of Transportation
Pavement Program Investment Level vs. Actual Trunkline Pavement Condition

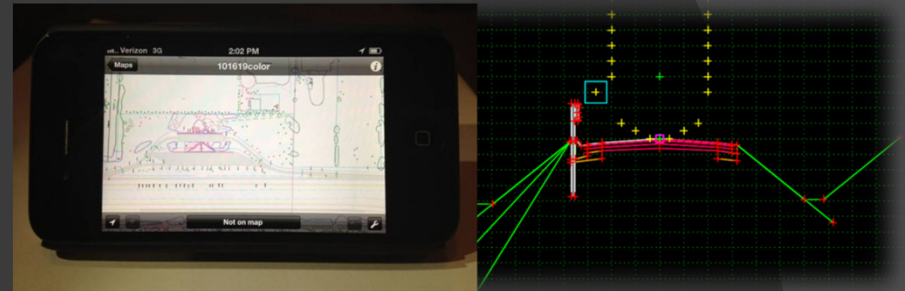


* Due to a change in reporting requirements, \$60 M in work on trunkline pavement was

Successful Innovations

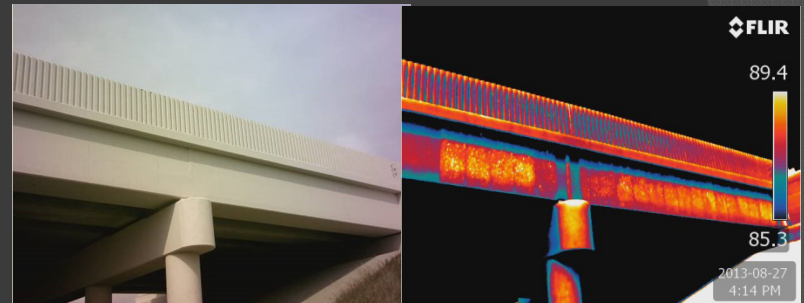
● E-Project

- 3D Modeling allows contractors to use GPS for machine grading
- E-Sign technology eliminates 7.4 million sheets of paper and could save \$4 million a year



● Infra-Red

- High resolution photos show the bridge to be in good condition
- Infrared photo shows delamination of CFRP box beam wraps



● Carbon Fiber

- M-102 over Plum Creek in Detroit is MDOT's first use of CFRP pre-stressing strands



Successful Innovations

Carbon Fiber Bridge Testing

**Bridge
Test
CIMR
2013**

Successful Innovations

Lateral Bridge Slide

**Lateral
Bridge
Slide
Video**

Asphalt Innovations

● Recycled Materials

- Increased Use of Recycled Asphalt Pavement
- Allowance of Recycled Asphalt Shingles
- Pilot of Recycled Tire Rubber



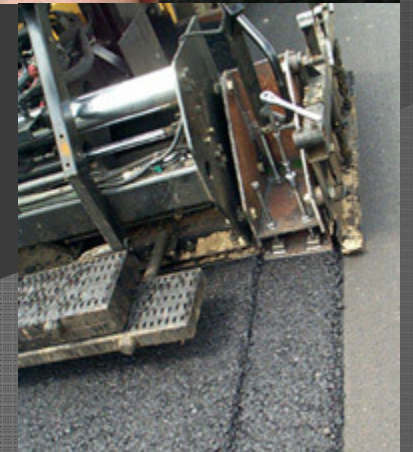
● Warm Mix Asphalt

- Allowance in all HMA mixes, including the allowance of some chemical additives
- FHWA Everyday Counts Initiative (EDC)



● Longitudinal Joint Density SP

- Contractors Using Innovative Technologies to Achieve Density
- Increased Pavement Performance



Successful Innovations



Tow Plow in action



Dual Wing Front and Back



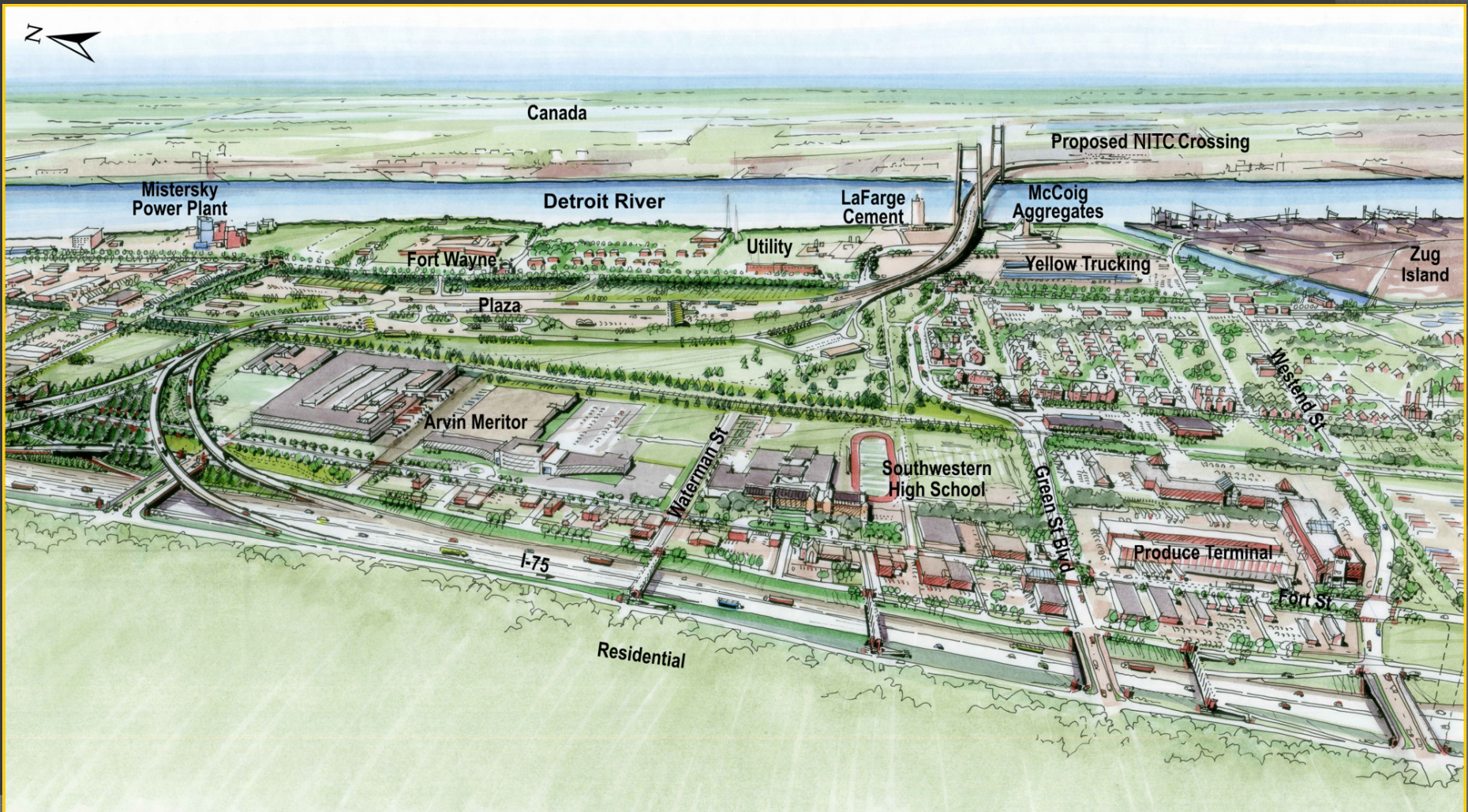
Right Wing



Left Wing



New International Trade Crossing (NITC)



ITS World Congress 2014

**To Be
Held
In
Detroit**

Questions?



**Customer Service is Important
Please take our customer survey:
www.michigan.gov/mdotsurvey**

