

# Pavement Preservation

## KC Edition



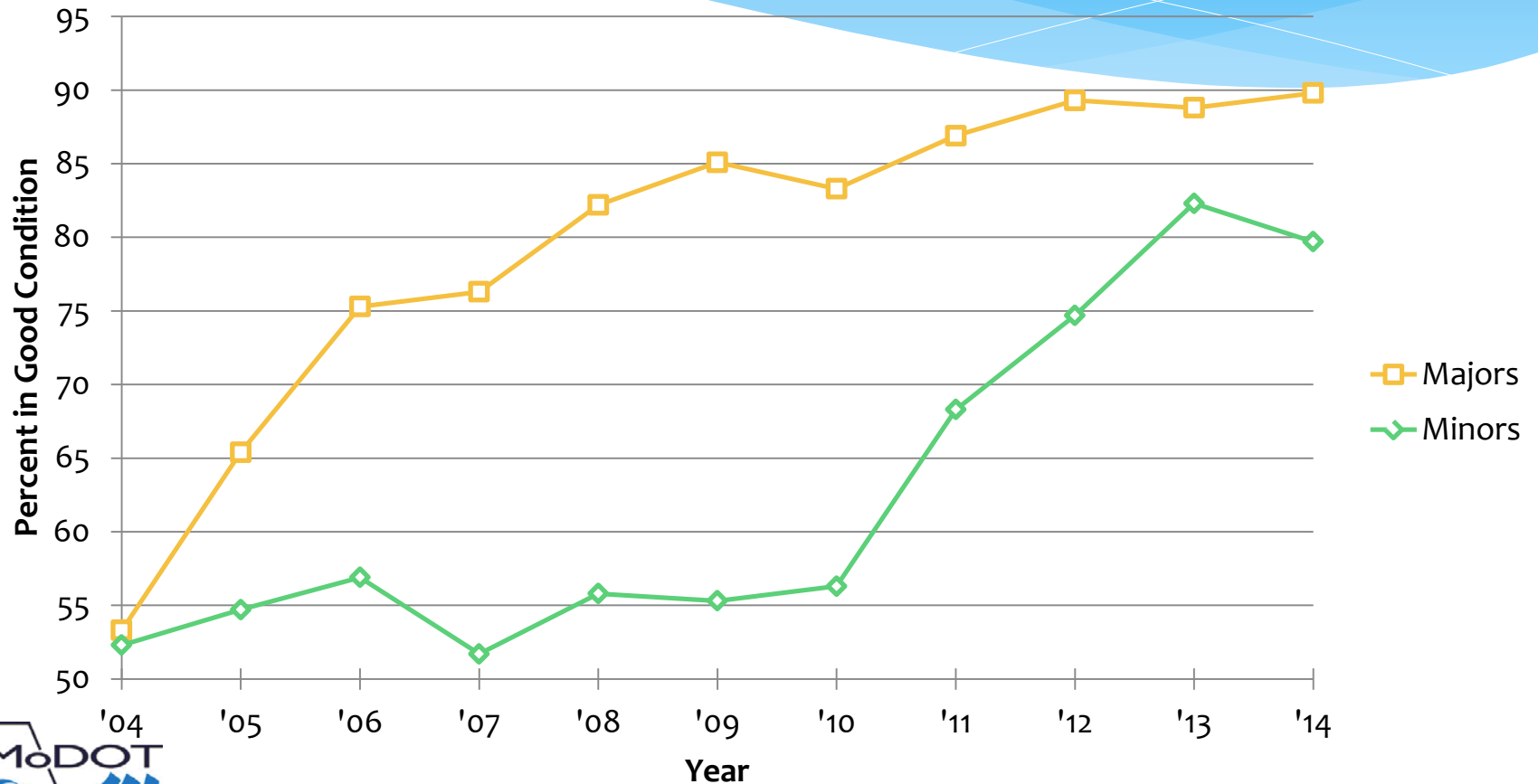
# Missouri





# Where We've Been...

## Pavement Condition - KC



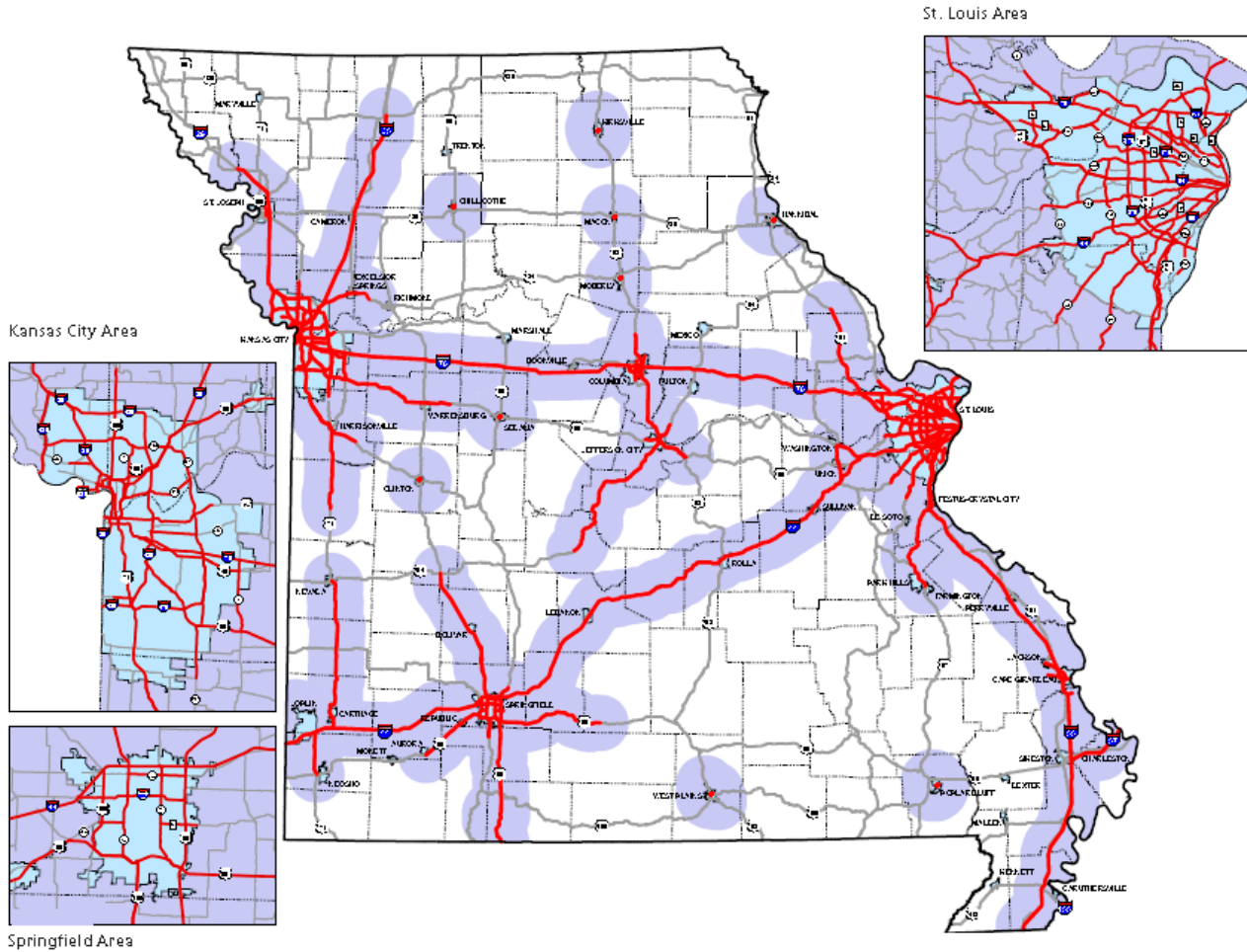
# Throw Money At It!!

- \* Amendment 3 in 2004
  - \* Mandated that MoDOT sell bonds to make roads and bridges safer sooner.
- \* Smooth Roads Initiative
  - \* Statewide estimated \$359,084,000 resurfacing projects
  - \* KC estimated \$47,086,00 in resurfacings projects



# Smooth Roads Initiative

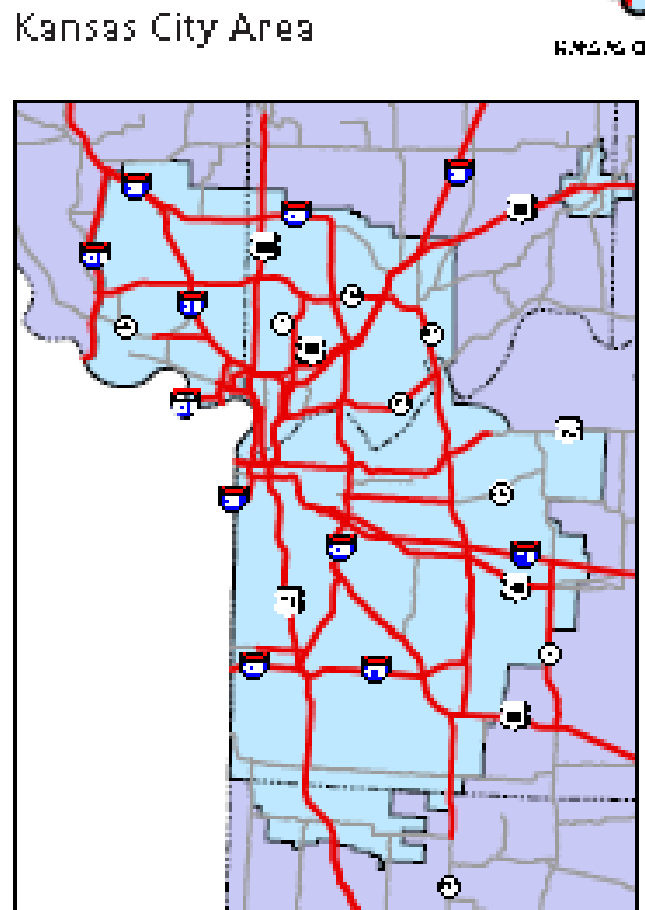
## Statewide



Springfield Area

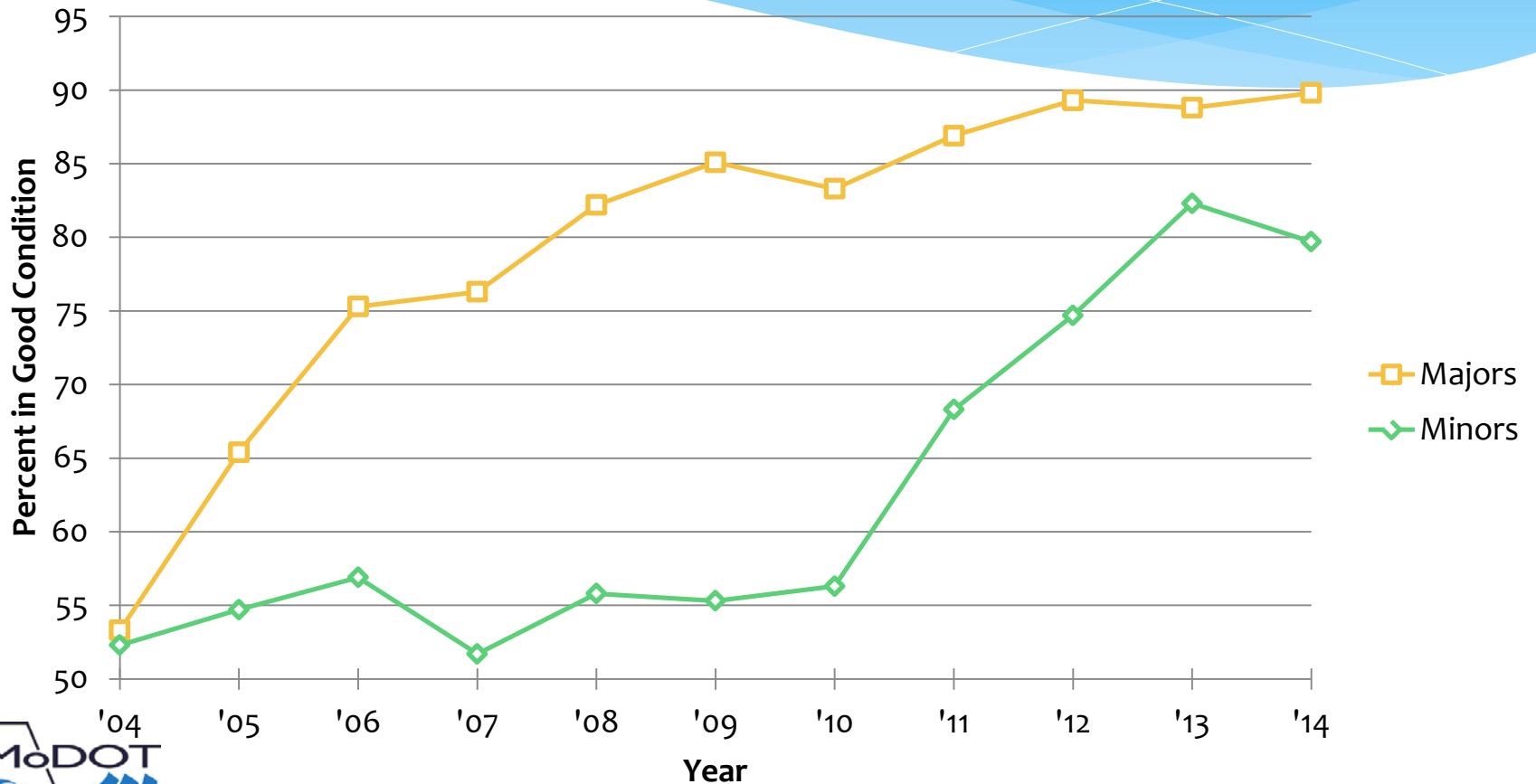
# Smooth Roads Initiative

## Kansas City Area



# Where We Are...

## Pavement Condition - KC





# How We Will Maintain This...

**KEEP GOOD ROADS GOOD**



# Project Development

Project Identification

Maintenance

Maintenance

Construction

Scoping/Estimating

Maintenance

Maintenance

Design



# The Tale of Two Pots

## Statewide Distribution

- \* Typically used for interstate and major route resurfacings.
- \* Performed by contractors
- \* Consists of hotmix overlays
- \* Plan development typically 3-4 years in advance

## Operating Budget

- \* Allocate a portion to pavement treatments for minor routes
- \* Performed by internal maintenance forces
- \* Coldmix, chipseals, fly coats
- \* Plan development typically 1-2 years in advance



# Pavement Plan Development

- \* Average 7 year pavement life
  - \* Scoping:
    - \* Interstate – 4 years in advance.
    - \* Majors – 3 years in advance
    - \* Other routes – Typically 1-2 years in advance



# Tracker Condition

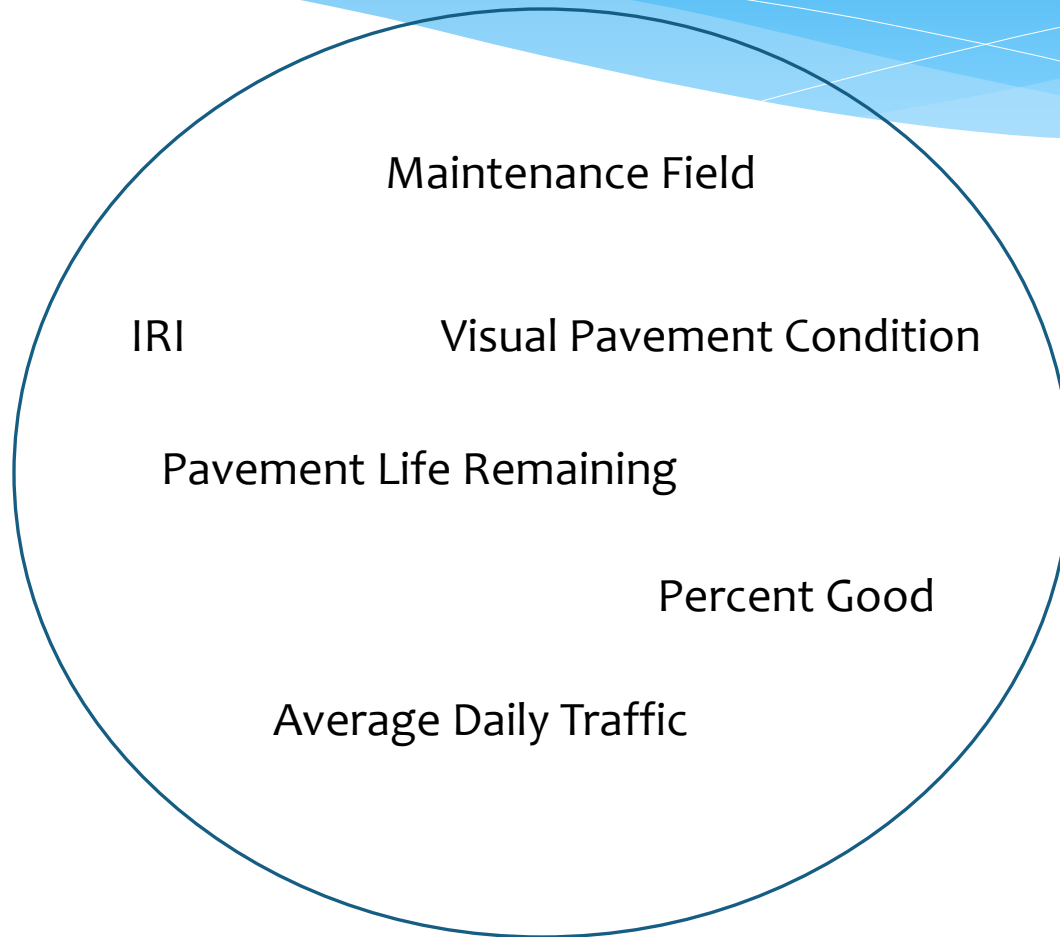


# ARAN Van



- \* IRI
- \* Visual Pavement Condition
- \* Photos every 52 feet
- \* Average Rut
- \* Date Collected
- \* Grade
- \* Latitude/Longitude

# Factors in Route Prioritization



# How We Got There...

- \* Overlay
- \* Mill/fill
- \* Ultrathin Bonded Asphalt Wearing Surface (UBAWS)
- \* Microsurfacing
- \* Chipseal
- \* Fog Seal (fly coat)
- \* Cracksealing



# Overlay or Mill/Fill with SuperPave



\$78,000/mile



# Ultrathin Bonded Asphalt Wearing Surface (UBAWS)



\$60,000/mile





# Microsurfacing



\$35,000/mile



# Crack Seal





# Coldmix Overlay



\$34,000/mile



# Chipseal



\$12,000/mile





# Chipseal



# Fog Seal



\$2,000/mile





# Innovation

- \* Kraton Polymer
- \* Polymer modified tack
- \* RAS/RAP
- \* Surface Sealing



# Kraton Polymer



# Surface Sealing



# Thank you.

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