



South Carolina Department of Transportation

Assessment as of January 2015

The background of the slide is a photograph of a surveyor in a blue jacket operating a yellow surveying instrument on a tripod. In the background, an orange truck with "ROAD WORK" written on its side is visible. The scene is dimly lit, suggesting a night or low-light environment.

ENGINEERING DIVISION

SC's Bridges

(State Owned Data Current as of January 23, 2015)

8,420 State Owned Bridges

1,600 (19.0%) are Substandard

- 822 (9.8%) are Structurally Deficient
- 778 (9.2%) are Functionally Obsolete

390 (4.6%) are Load Restricted

10 (0.1%) are Closed

Data as of January 23, 2015

SCDOT

ROAD
WORK

ENGINEERING DIVISION

Bridges by System, Classification and Restriction

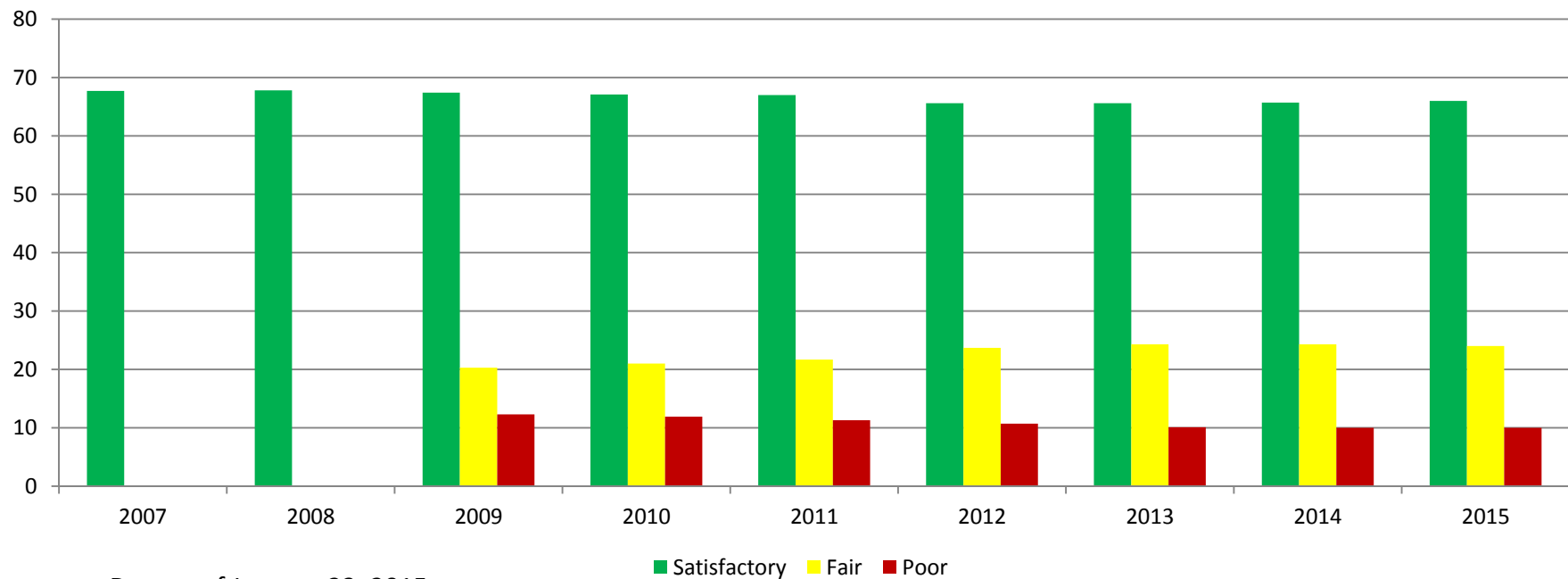
<i>System</i>	<i># Bridges</i>	<i>Substandard</i>	<i>Structurally Deficient</i>	<i>Functionally Obsolete</i>	<i>Load Restricted</i>	<i>Closed</i>
<i>Interstate</i>	734	147	28	119	0	0
<i>Primary (US and SC)</i>	2,574	593	262	331	12	0
<i>Secondary</i>	5,112	860	532	328	378	10
<i>Totals</i>	8,420	1,600	822	778	390	10

Data as of January 23, 2015



% Bridges in Satisfactory Condition

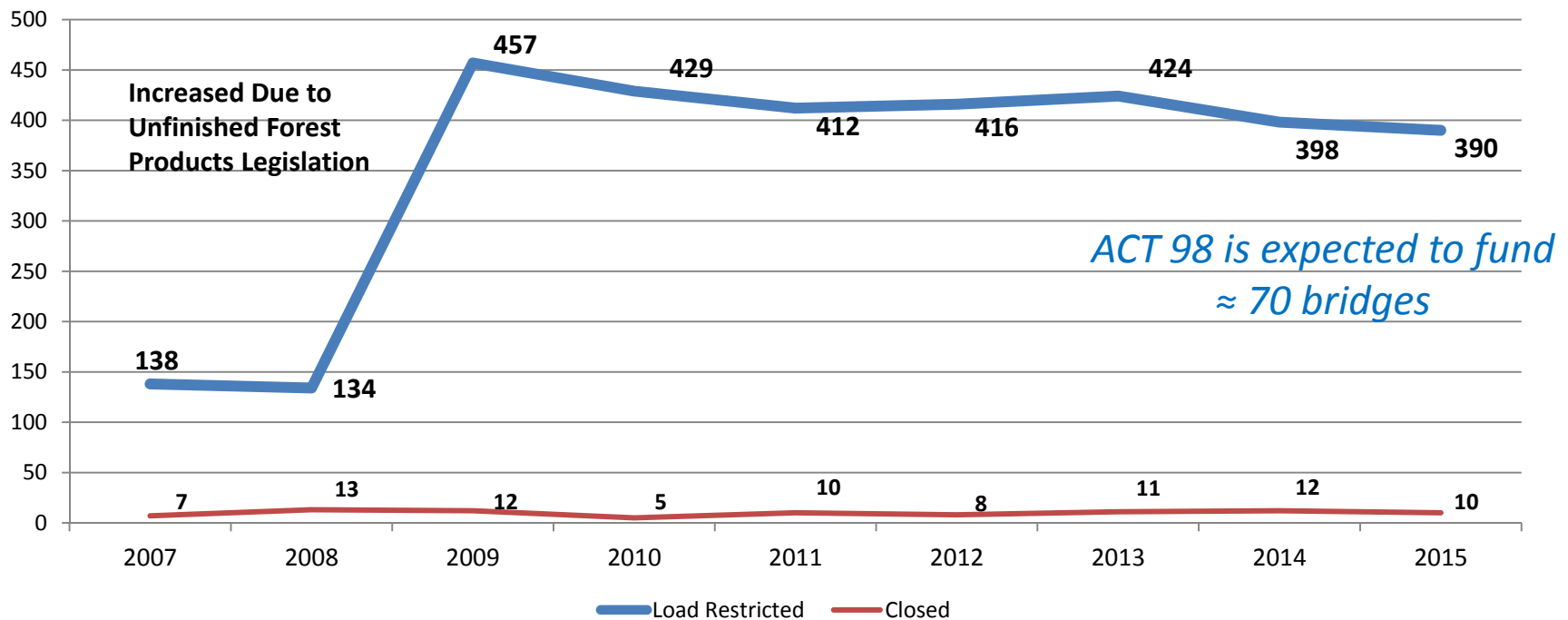
% in Satisfactory Condition w/ breakdown since 2009



Data as of January 23, 2015



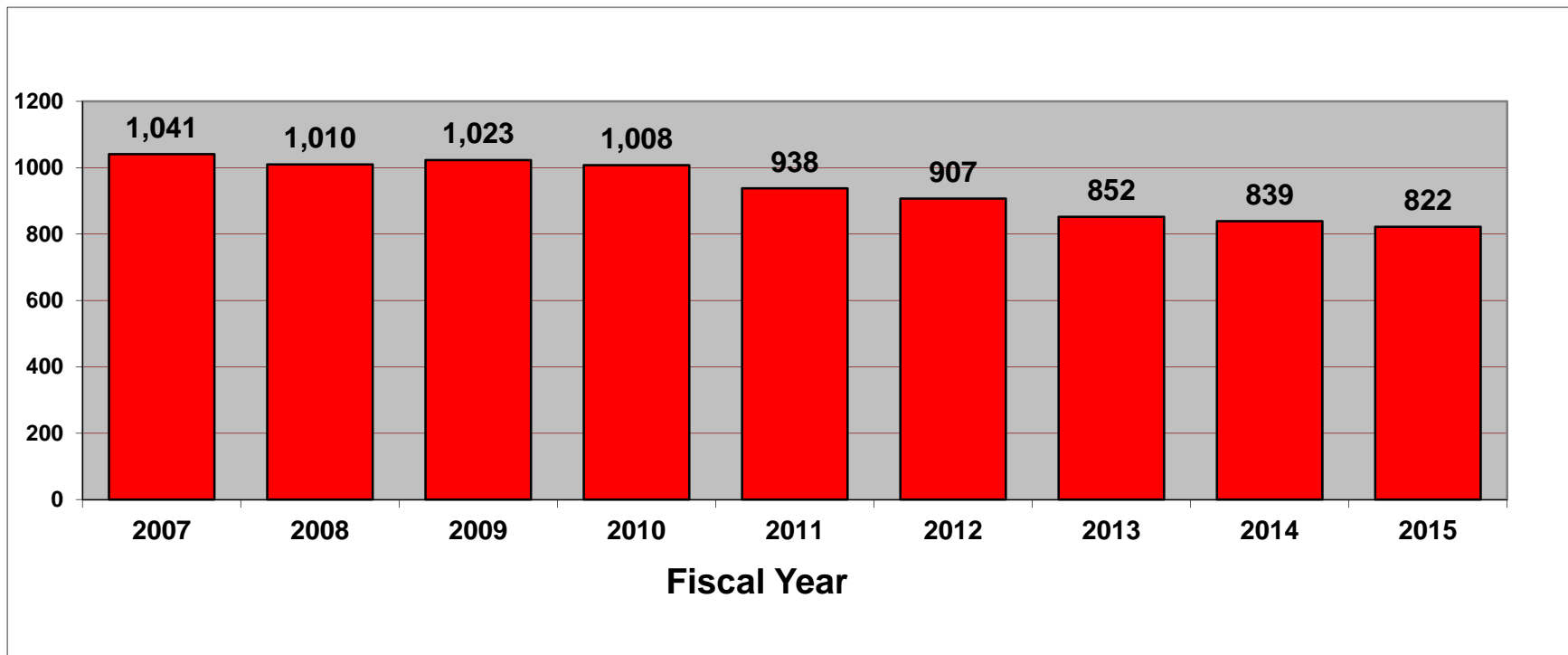
Load Restricted and Closed Bridges



Data as of January 23, 2015



Structurally Deficient Bridges



Data as of January 23, 2015

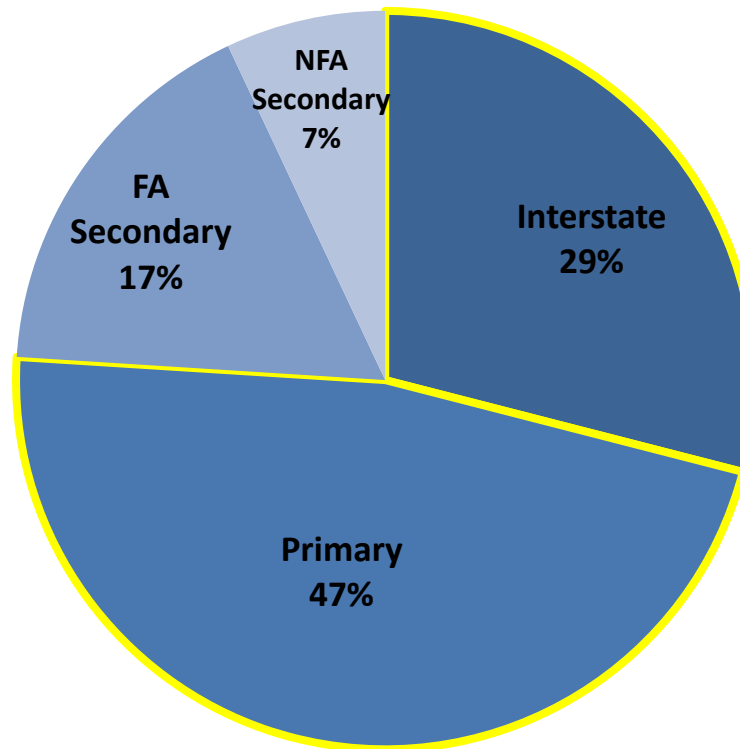


The State System

<i>Route Type</i>	<i>Centerline Miles</i>	<i>Lane Miles</i>
Interstate	851	3,796
Primary	9,472	23,869
Federal Aid Secondary	10,271	21,108
Non Federal Aid Secondary	20,821	41,758
Total	41,414	4th Largest 90,530



% Traffic Carried by Route Type



≈75% of SC's
traffic is carried on the
Interstates and Primary
Routes

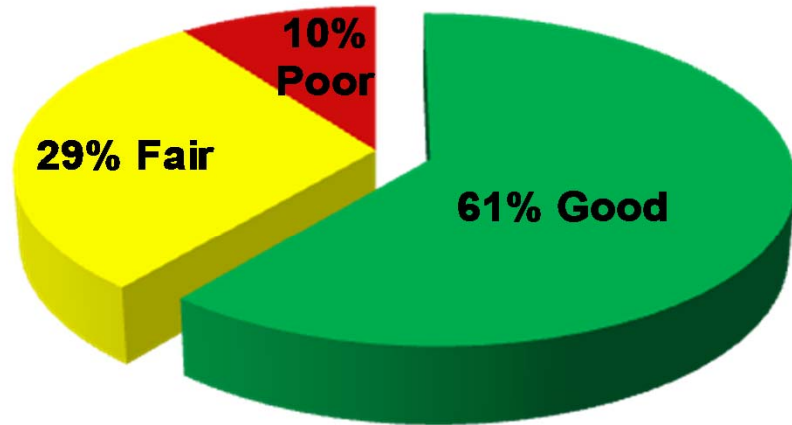
December 31, 2013 Data



Interstate System Pavement Condition

Federal Aid Eligible

- 851 centerline miles
- 3796 lane miles
- Interstate system is over 50 years old
- Nearly 29% of all roadway travel in SC occurs on the interstates
- Key component of Freight Network
- Heavy Truck volumes
- 13% of interstate are high usage, carrying over 70,000 vehicles per day



December 31, 2013 Data



Interstate System Pavement Condition Trends

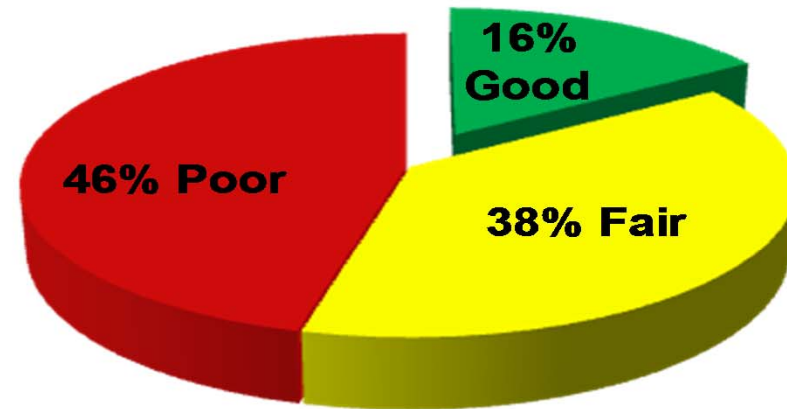
Carries 29% of the Traffic
Heavy Truck Volumes



Primary System Pavement Condition

Federal Aid Eligible

- 9,472 centerline miles
- 23,869 lane miles
- Comprised of US and SC routes
- Includes routes on the National Highway System (NHS)
- 47% of all travel in SC occurs on the primary system

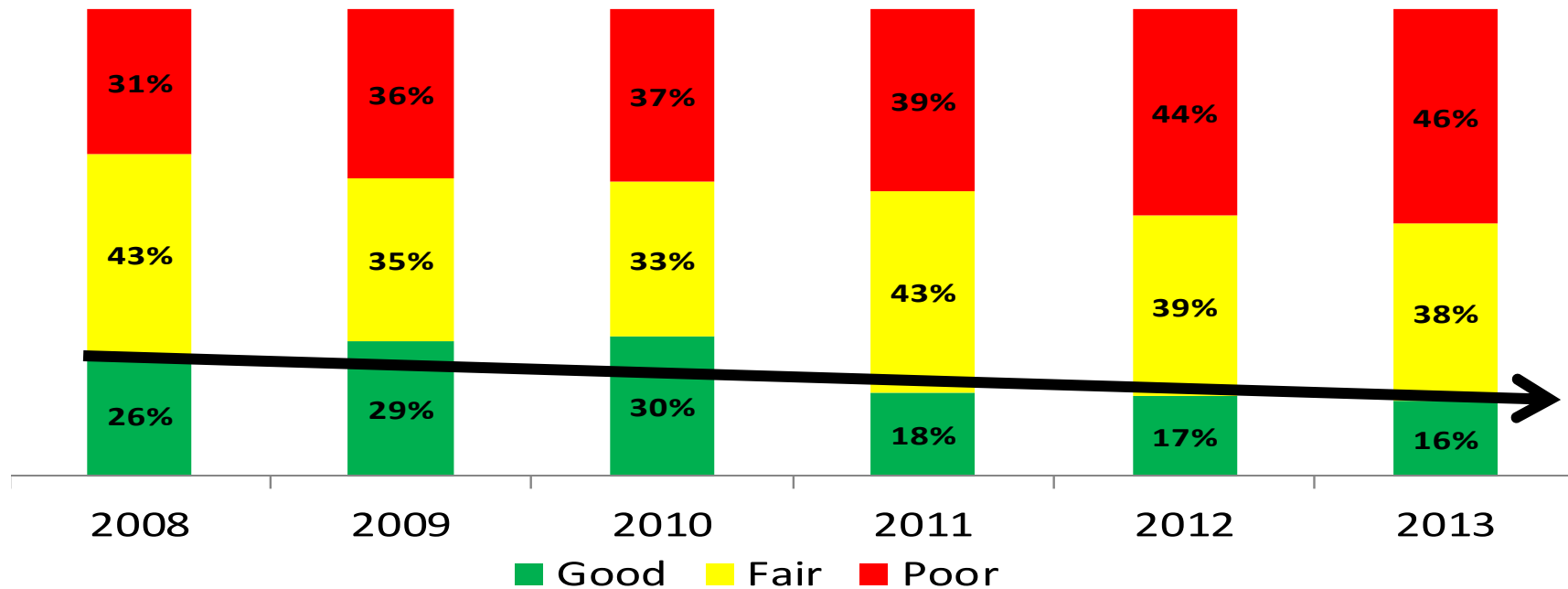


December 31, 2013 Data

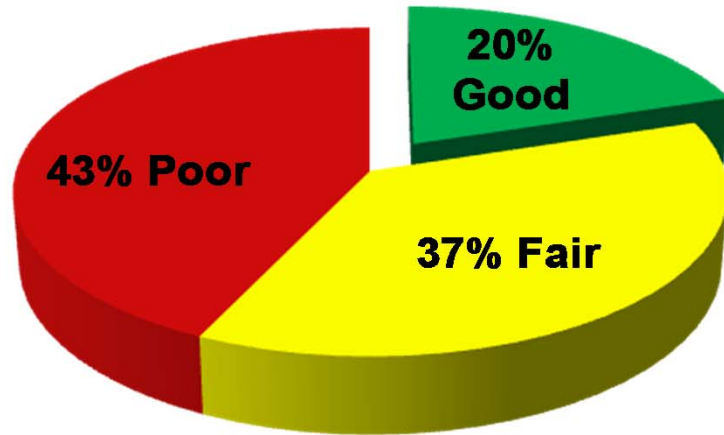


Primary System: Pavement Condition Trends

Carries 47% of the Traffic



Federal Aid Eligible Secondary System Pavement Condition



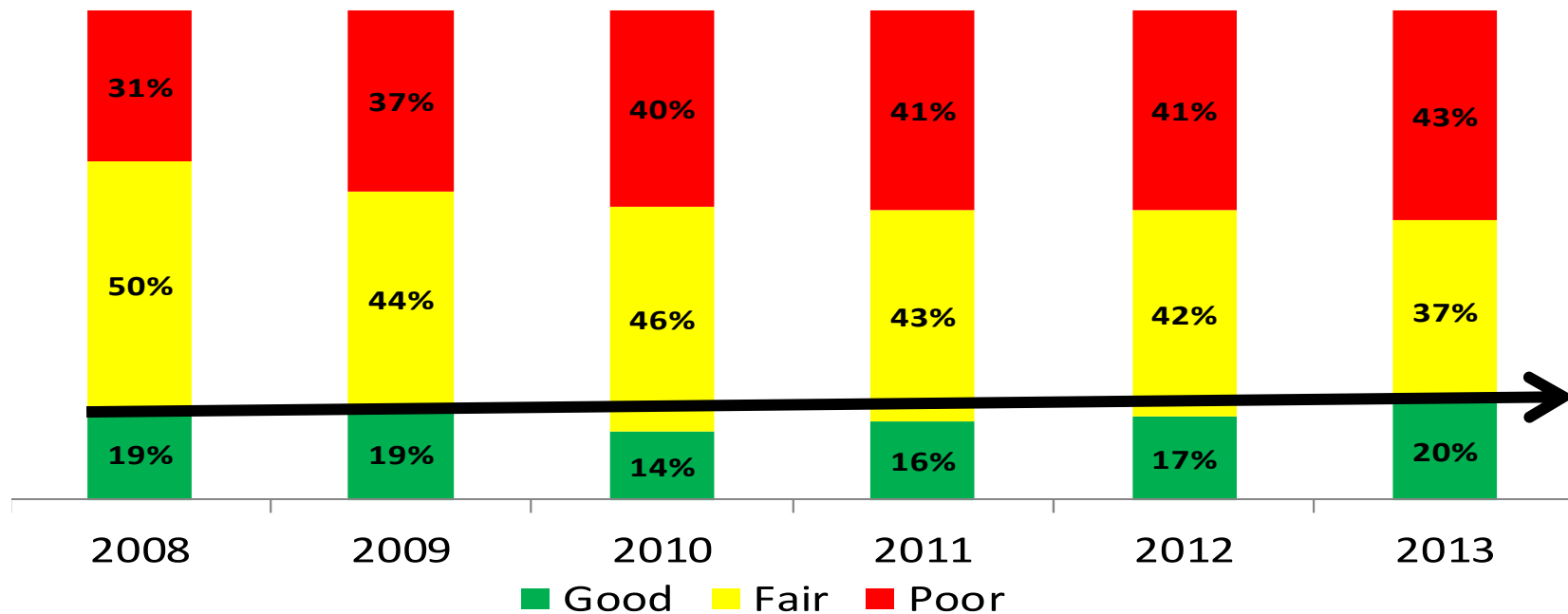
- 10,271 centerline miles
- 21,108 lane miles
- Higher volume secondaries
- 17% of travel occurs on the federal aid secondary system

December 31, 2013 Data



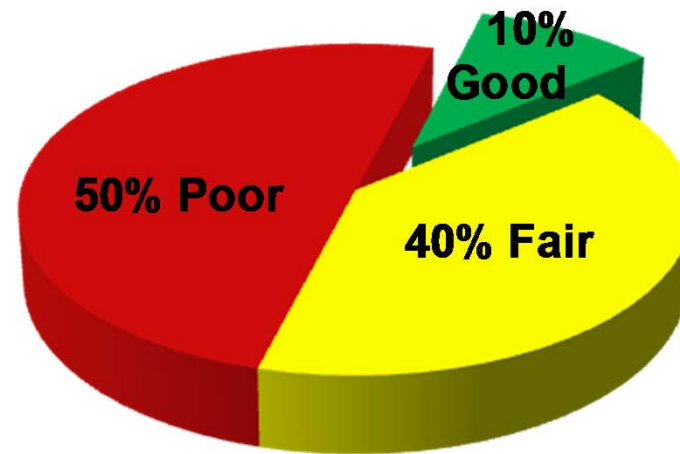
Federal Aid Eligible Secondary System: Pavement Condition Trends

Carries 17% of the Traffic



Non-Federal Aid Eligible Secondary System Pavement Condition

- 20,821 centerline miles
- 41,758 lane miles
- 30% are in urban areas, comprising over 12,000 individual road segments
- 7% of travel occurs on the non federal aid secondary system

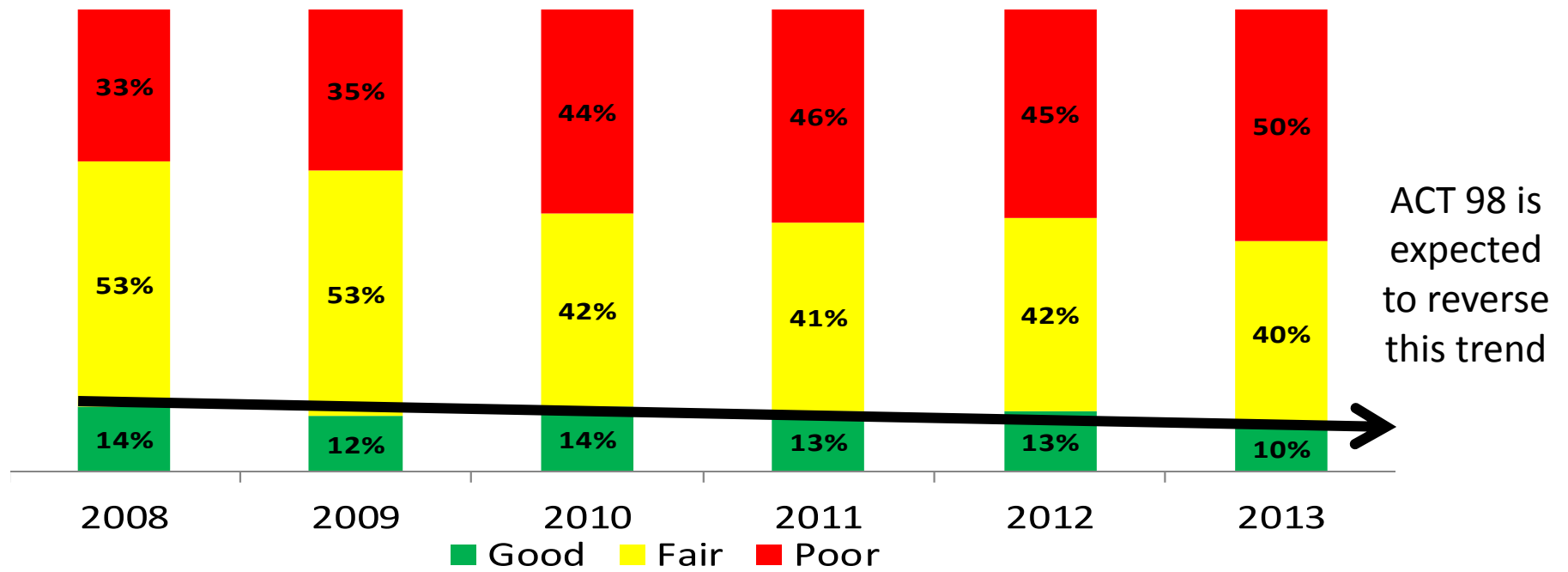


December 31, 2013 Data



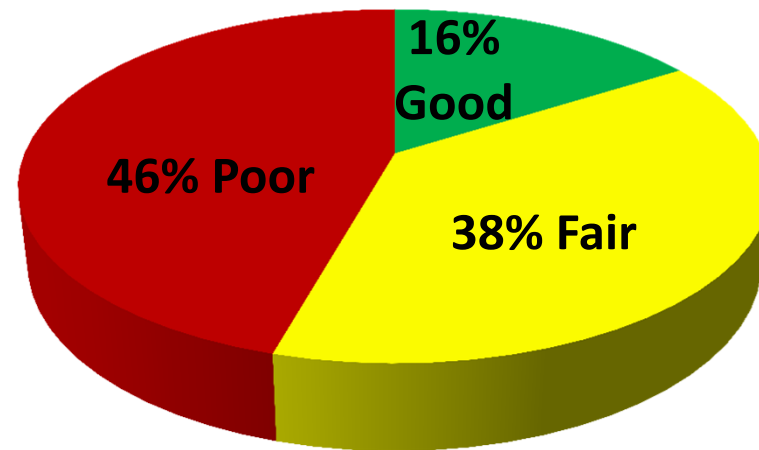
Non-Federal Aid Eligible Secondary System: Pavement Condition Trends

Carries 7% of the Traffic

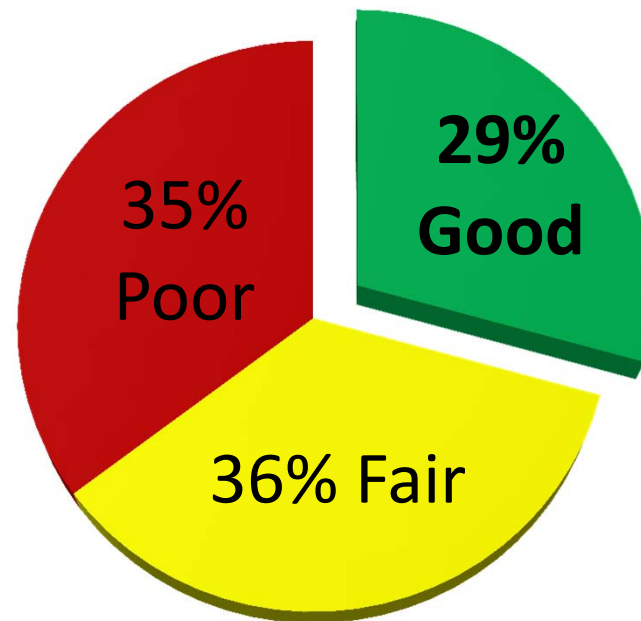


Overall Assessment of SC's Pavements

*Based on
Lanes Miles!*



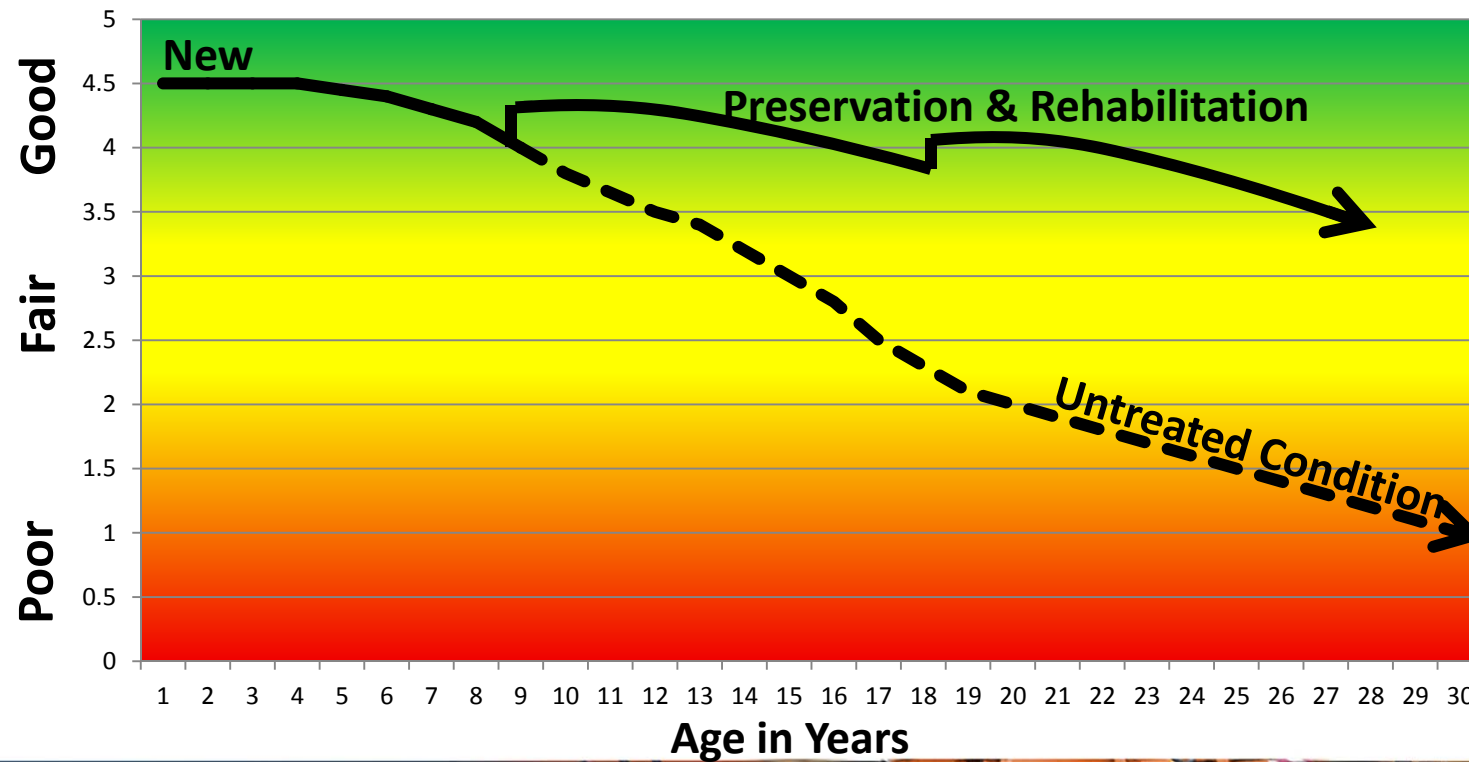
% VMT on Pavement Condition Type



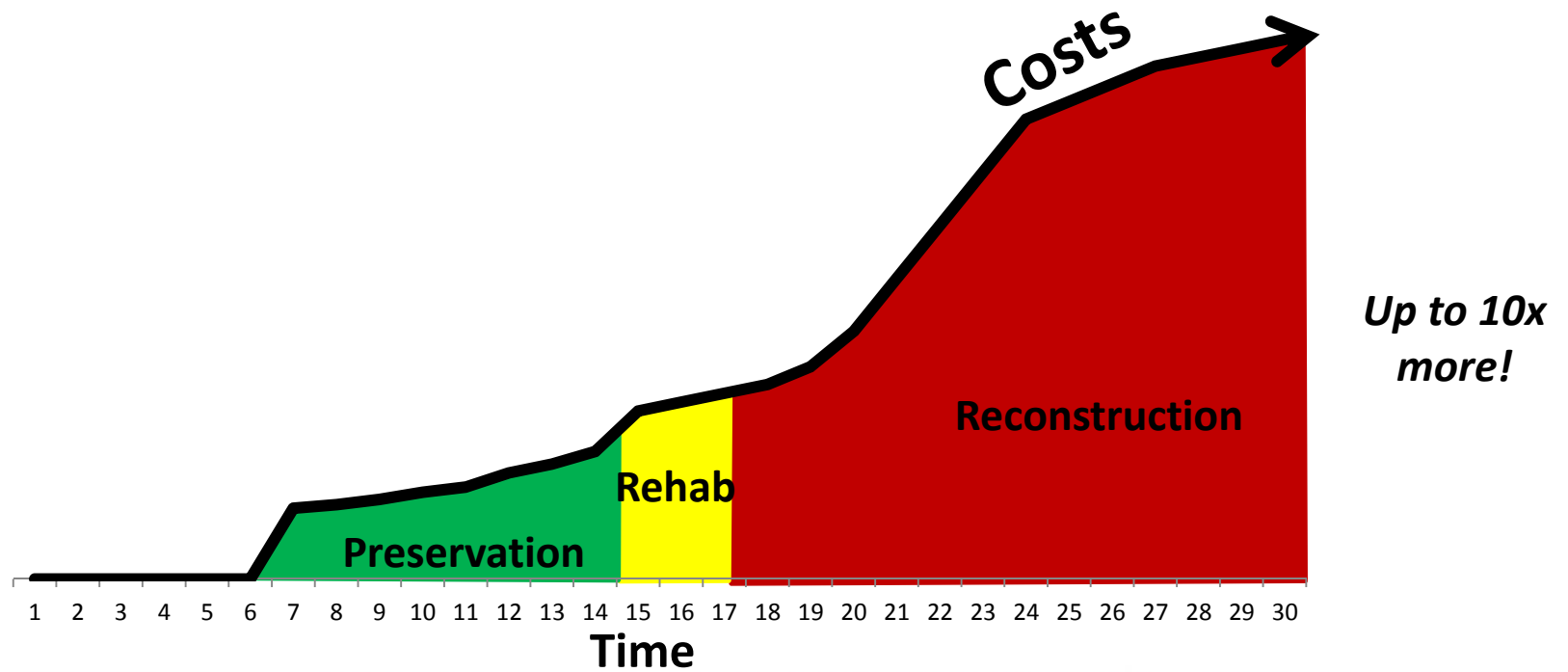
*29% of SC's
traffic is
riding on
good
pavements*



Pavement Performance



Cost of Deferred Maintenance



\$1 Million Investment Yield

