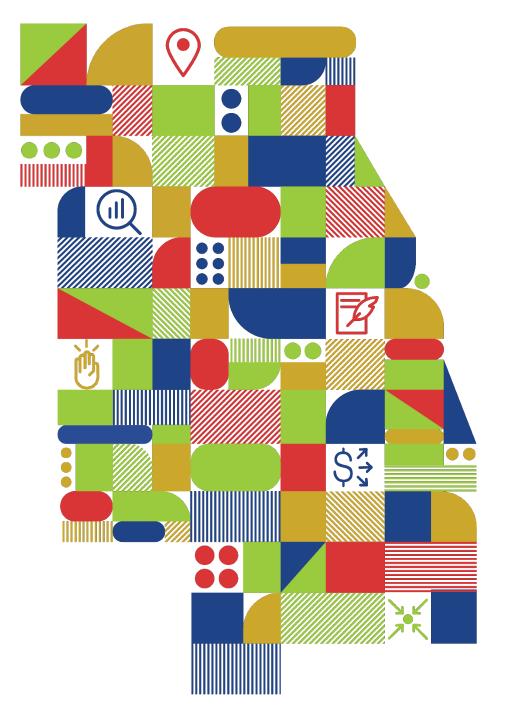


Regional Pavement Performance

Todd Schmidt August 7, 2020



Background

Transportation performance management



Background

Pavement performance measures

- 1. % of interstate system in good condition
- 2. % of interstate system in poor condition
- 3. % of non-interstate NHS in good condition
- 4. % of non-interstate NHS in poor condition

Minimum condition and penalties



CMAP region NHS mileage

Non-Interstate NHS Lane Miles						
Jurisdiction	Total	Percent				
Local	1,223.1	18.6%				
IDOT	5,326.2	80.8%				
Tollway	43.9	0.7%				
Total	6,593.2	100.0%				

Interstate NHS Lane Miles					
Jurisdiction	Total	Percent			
IDOT	1,318.9	52.3%			
Tollway	1,203.6	47.7%			
Total	2,522.5	100.0%			

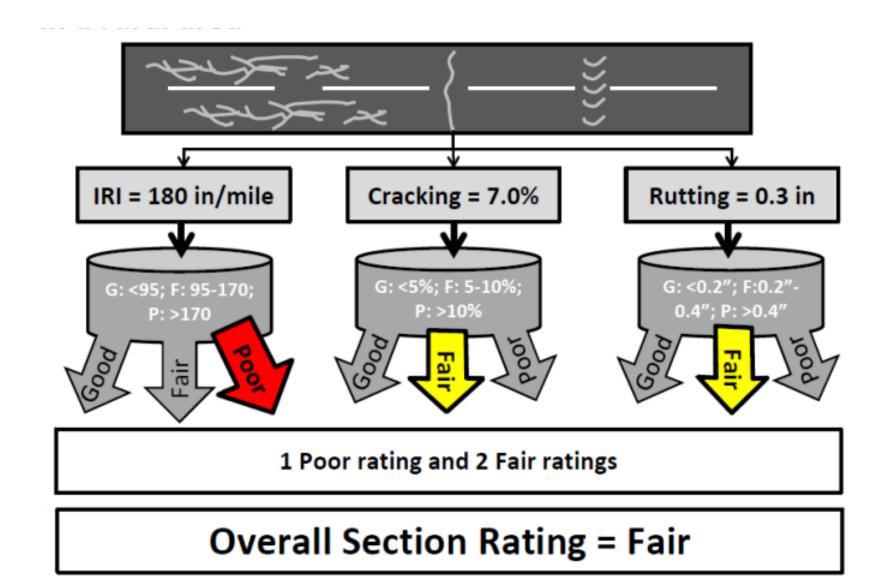


Pavement distresses and thresholds

	Good	Fair	Poor
IRI (inches/mile)	<95	95-170	>170
Rutting (inches)	<0.20	0.20-0.40	>0.40
Faulting (inches)	<0.10	0.10-0.15	>0.15
Cracking (%)	<5	5-20 (asphalt) 5-15 (JCP) 5-10 (CRCP)	>20 (asphalt) >15 (JCP) >10 (CRCP)



Example condition calculation



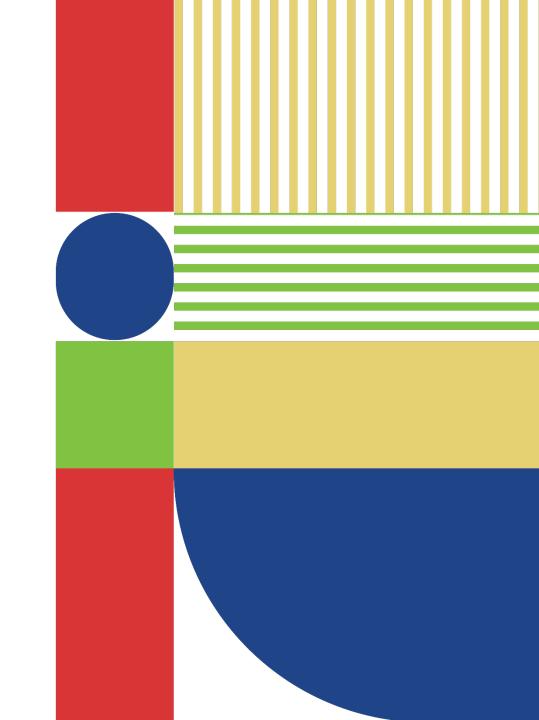


Pavement condition calculation

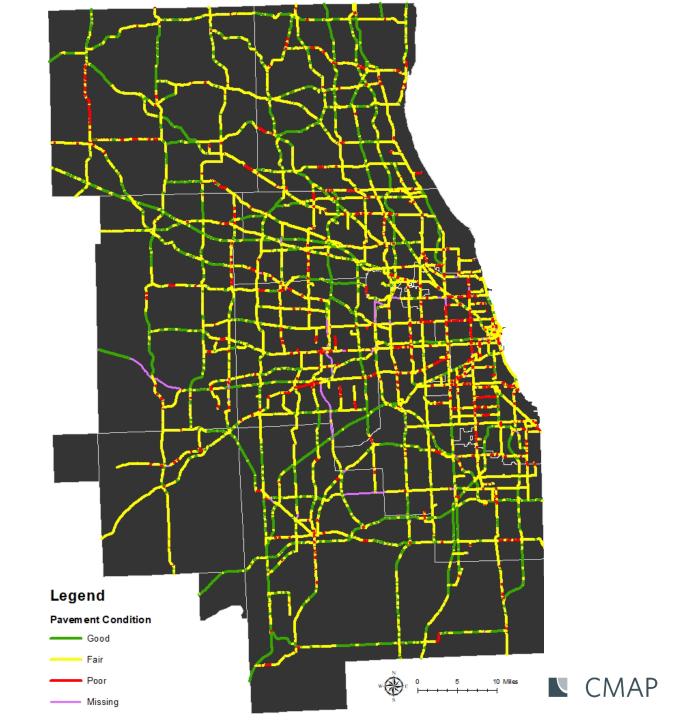
	Pavement Type			
	Asphalt and Jointed Concrete	Continuous Concrete		
Overall Section Condition Rating	3 metric ratings (IRI, cracking and rutting/faulting)	2 metric ratings (IRI and cracking)		Measures
Good	All three metrics rated "Good"	Both metrics rated "Good"	↑	percentage of lane- miles in "Good" condition
Poor	≥ 2 metrics rated "Poor"	Both metrics rated "Poor"	^	percentage of lane- miles in "Poor" condition
Fair	All other combinations	All other combinations		



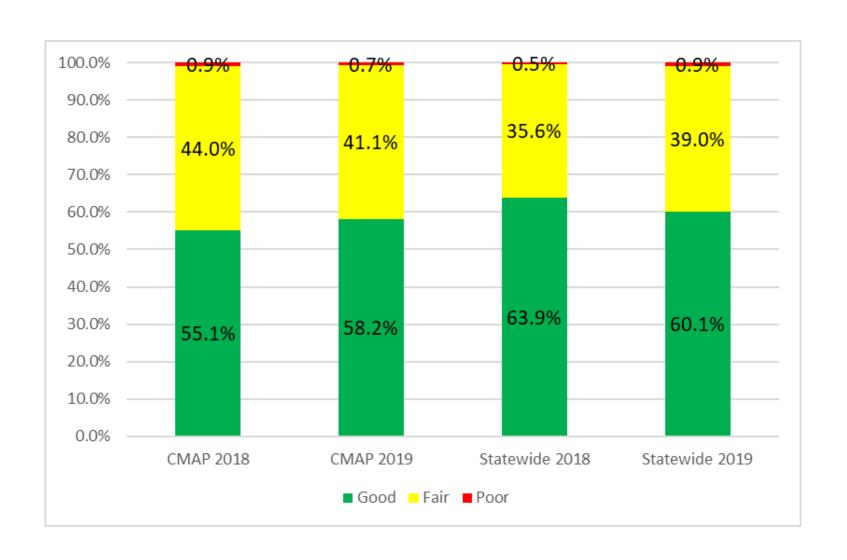
CMAP Regional Pavement Performance



CMAP NHS pavement performance

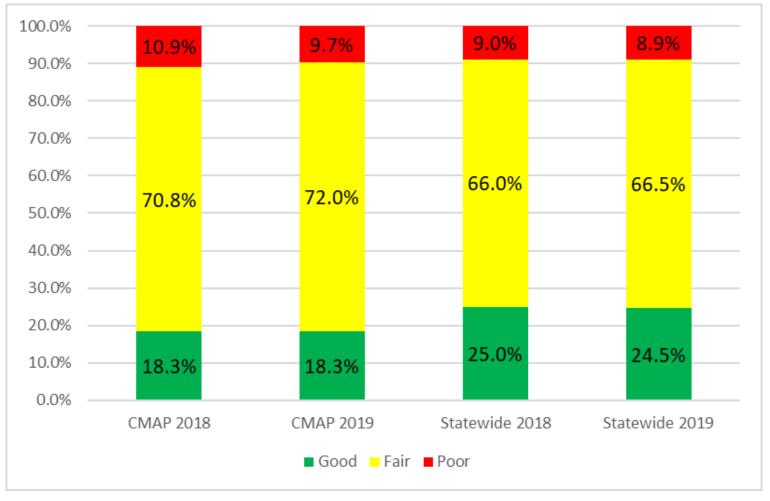


Interstate pavement performance





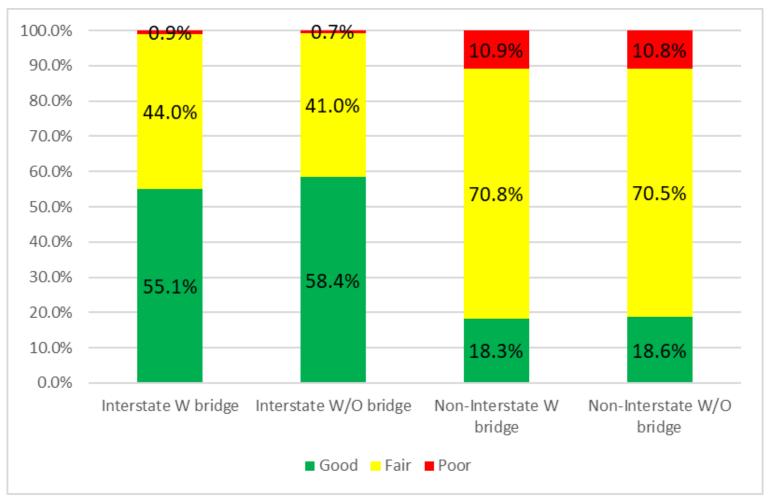
Non-Interstate NHS pavement performance





CMAP pavement performance

CMAP analysis of 2018 data with bridges removed





TIP pavement analysis

TIP Project Types - 2019 - 2022

Resurface (with no lane widening)

Widen lanes and resurface

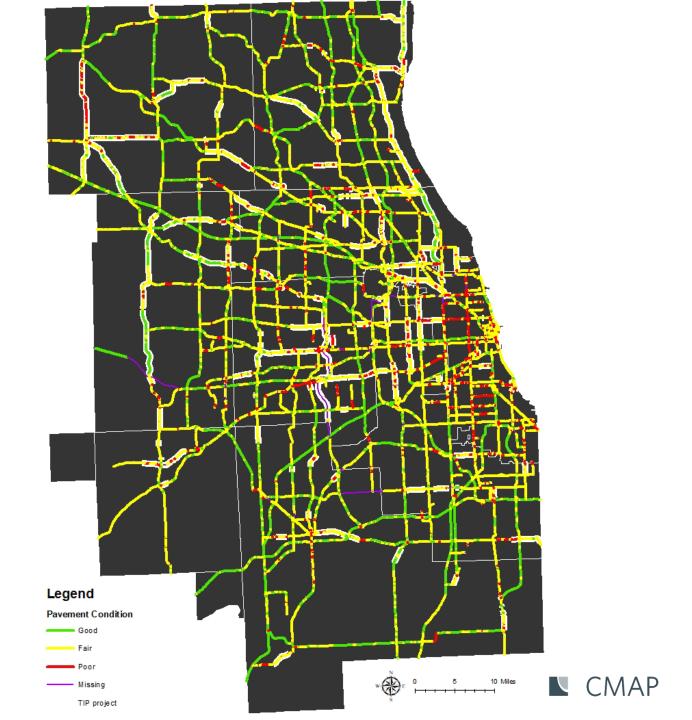
Intermittent resurfacing

Reconstruction in kind

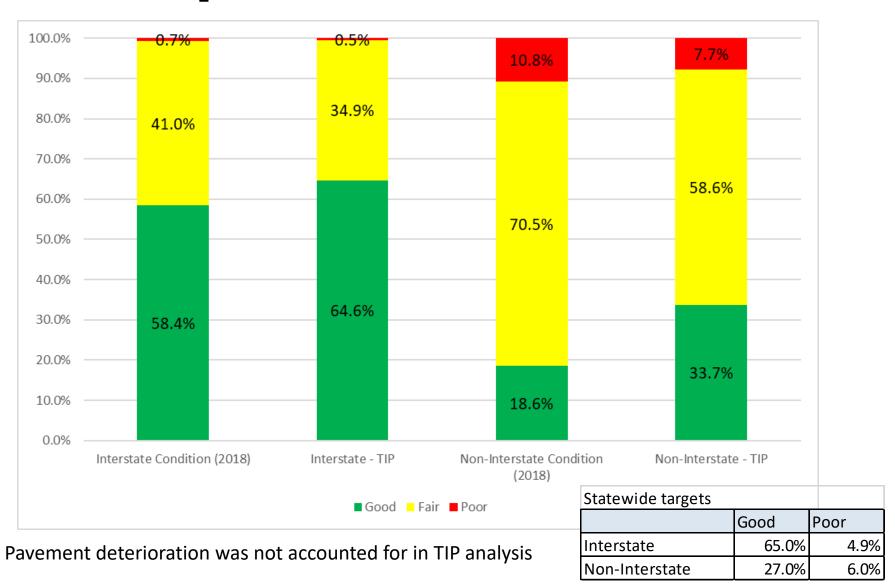
Add lanes

Reconstucting with change in use or width of lane

Pavement patching



Pavement performance with TIP



Pavement target setting timeline

CMAP timeline

IDOT October 1, 2020

Transportation Committee approval in December

Board & MPO Policy Committee approval in January



Pavement target setting discussion

Should the region support IDOT's targets or set its own targets?

How can CMAP and its partners help achieve the pavement goals/targets for the region/state?

Should the region have a goal/target for all federal aid eligible routes?



CMAP

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