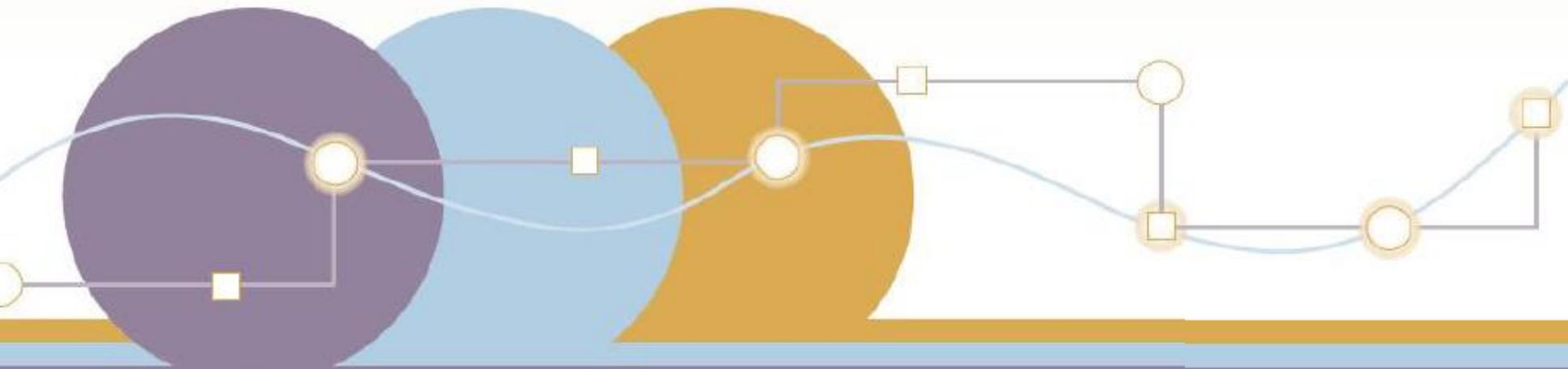


# MAP-21 and Pavement Performance

RMWPPP

October 2013

FHWA Office of Asset Management



-or-

“The interesting  
view from the  
Ivory Tower”



# Official Training Center

What is the secret  
to continued  
employment?



Do not confirm or  
deny anything!!!



# Interesting Issue I:

MAP-21  
Legislation

No adjustments  
To Legislation!



# More Interesting I:

- Risk-based Asset Management Plan
- Targets to be set every 4 years
- Minimum Standards for Interstate Pavements



# Digging Deeper...

"...Define data  
elements to  
support a  
performance-  
based program..."



# Interesting Issue II:

- What's reported?
- What's supposed to be reported?
- What data is reasonable to expect?





MAP LEGEND	
	Highways
	Glenn Highway
	Sterling Highway
	Alaska Highway
	Klondike Highway
	George Parks Highway
	Haines Highway
	Richardson Highway
	Yellowhead Highway
	Cassiar Highway
	Other Roads
	Campbell Highway
	Taylor Highway
	Dempster Highway
	Canol Road
	Dalton Highway
	Alaska Railroad
	White Pass Railroad
	BC Railroad
	VIA Railroad
	Alaska Southcentral & Southwest Ferry
	Alaska Southeast Ferry
	BC Ferry
	TransAlaska Pipeline

**Tok, AK**  
**Pop: 1,415**



Tok, AK



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Maps Labs - Help

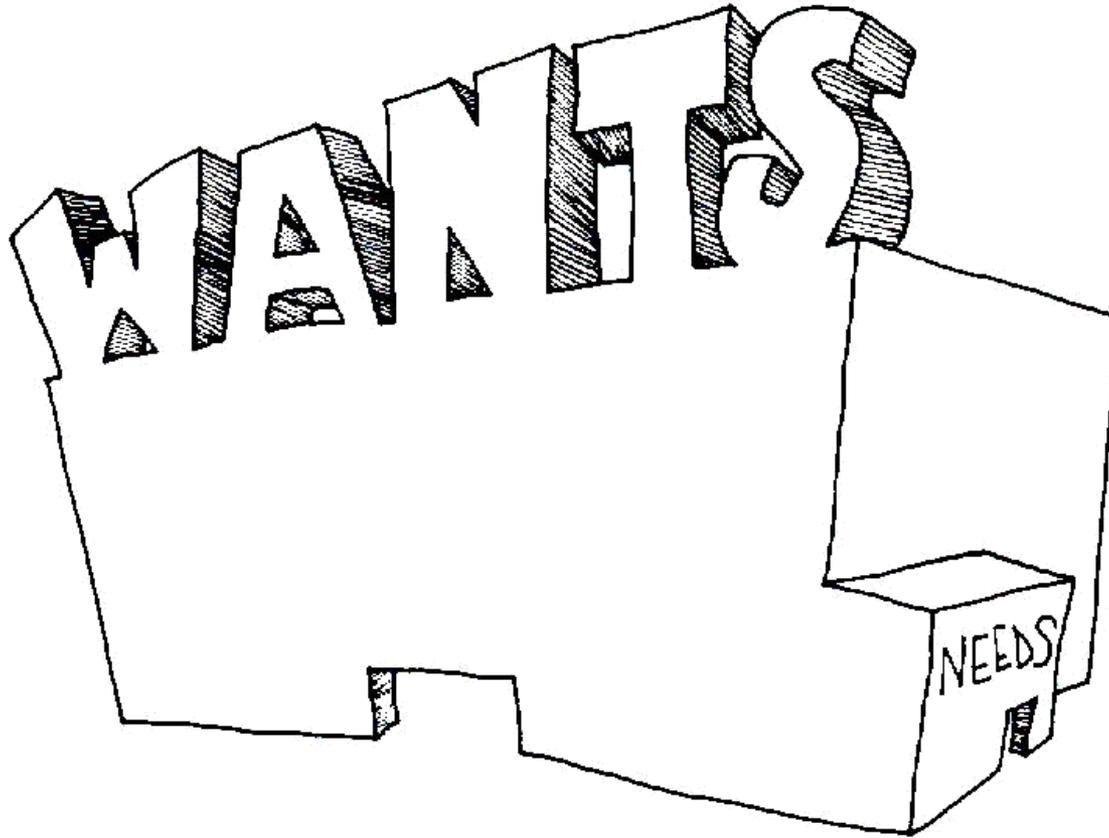
Google Maps - ©2013 Google - Terms of Use - Privacy



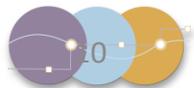
© 2013 Google - Image Date: October 2011

Report a problem





WOLFE



# More Interesting III:

# Adjustments?



**Rutting?**

**IRI?**

**Cracking?**

**ADT?**

**Faulting?**



**ISO!!**

**AASHTO!!**

**ASTM!!**

**Use Ours!!!**

**Proprietary!!**

**What  
Standards??**

**Trust Us!!!**

**Standards??**



# Interstate Highways:

**Eastbound = Westbound?**

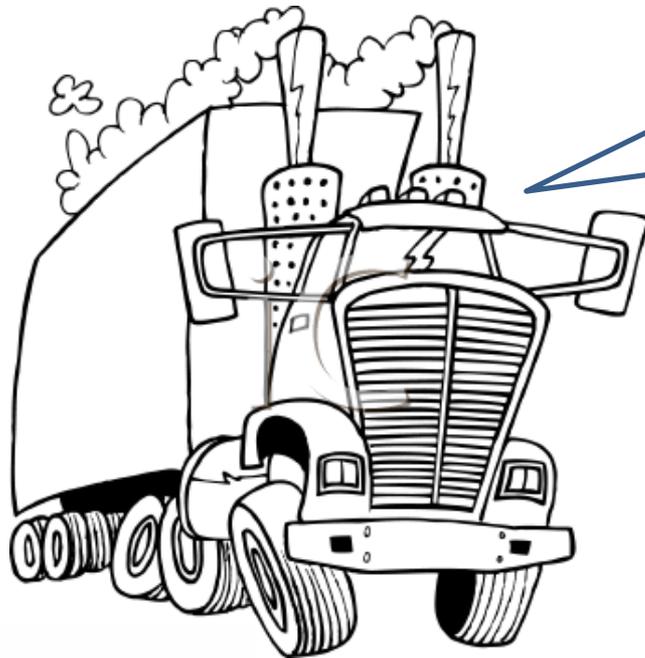
**Northbound = Southbound?**

**Inside Lane = Outside Lane?**



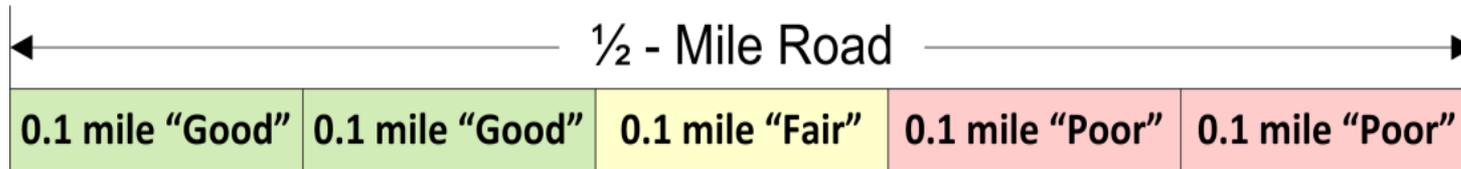
# More Questions???

## Rural Highways = Urban Highways?

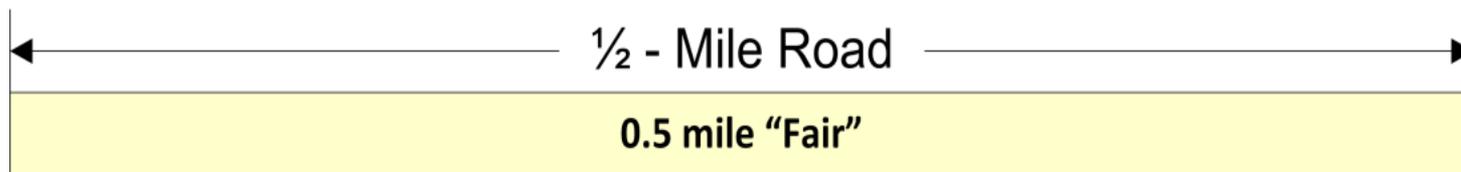


*Better Slow down Jake,  
Don't want to bust those  
wide screen TVs*





(a)



(b)

**Figure X - A  $\frac{1}{2}$ -mile road is measured at (a) 0.1-mile section and (b) the same road is measured at 0.5-mile section**





HA-ha!



# Reporting Frequency???



**What about Samples?**

**But, don't you have to be careful to measure similar kinds of things, like number of sick people?**

**I don't know, can we?**

**Scientists use Statistics all the time to estimate stuff...**

**We could do that with highway pavements, couldn't we?**

**Maybe using Samples is not such a good idea...**



*IRI= 169.3 in/mi*

*Cracking = 28.349%*

*Cross-slope = 12.376%*

*AADT=2933*

*Rutting=.....!!!!*

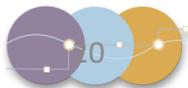
*#@ \*&%\$! = \*(9763%^7.*

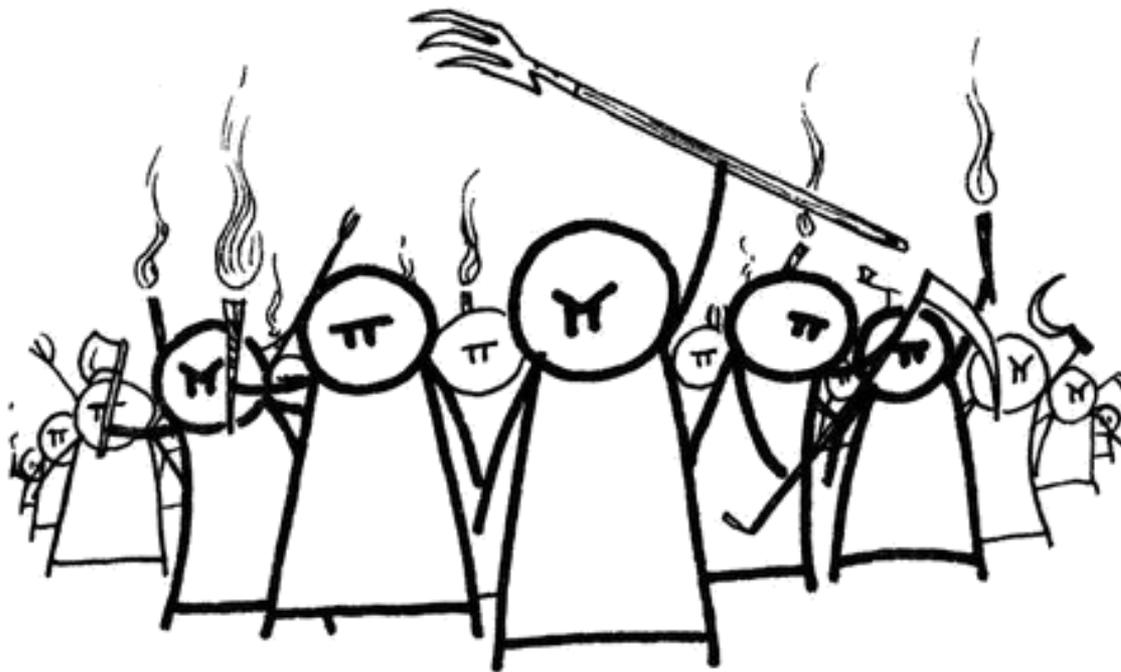
*1 ∫ x<sup>2</sup> dy x<sup>2.3</sup> ....*

**But, is it  
Good, Fair  
or Poor???**



Keep it Simple,  
Sss...





# Interested???

Send me your interesting comments:

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202-366-1341  
thomas.van@dot.gov



# Thank You!

<https://one.dot.gov/fhwa/PPMKM/>

