Northeast Pavement Preservation Partnership Meeting Burlington, VT

April 7, 2014

"Keep Good Roads Good!"

Is this "Mission Impossible?"





Keep Good Roads Good!

Challenges:

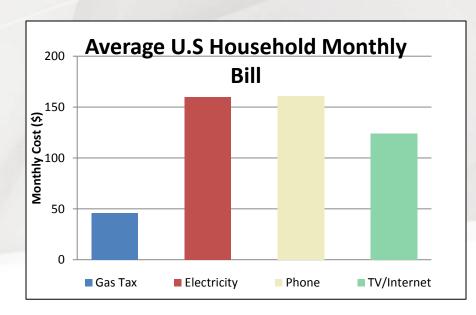
- Deteriorating Road Conditions
- Current Levels of Investment
- Available Funding
- Increasing Costs

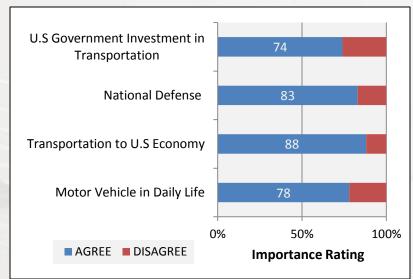


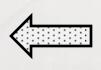
Personal investment in "good roads"

How <u>important</u> are "good roads" to the public?





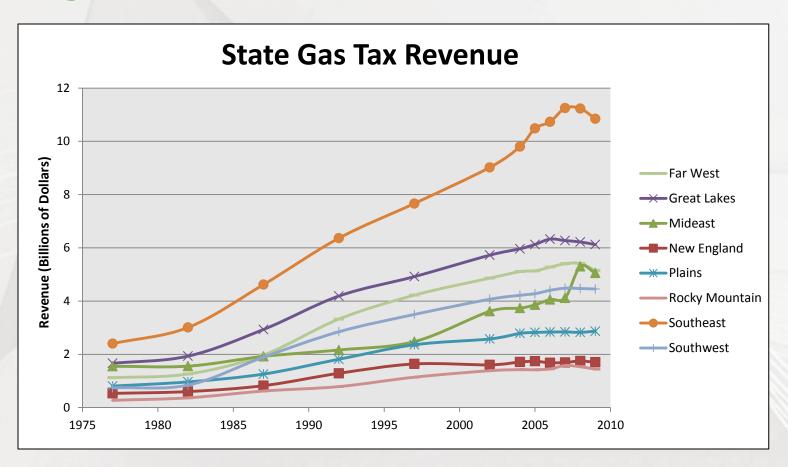




How much are "good roads" worth?



Regional investment in "good roads"



New England 2009 funding (actual):

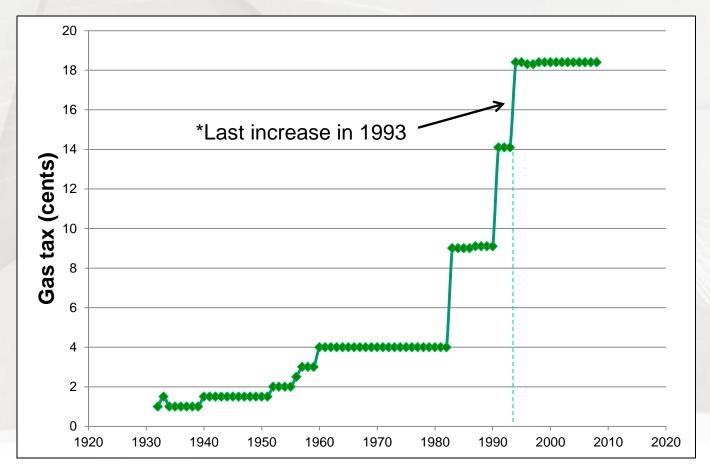
\$1.7 Billion

New England 1977 value (corrected for **inflation**): \$1.9 Billion



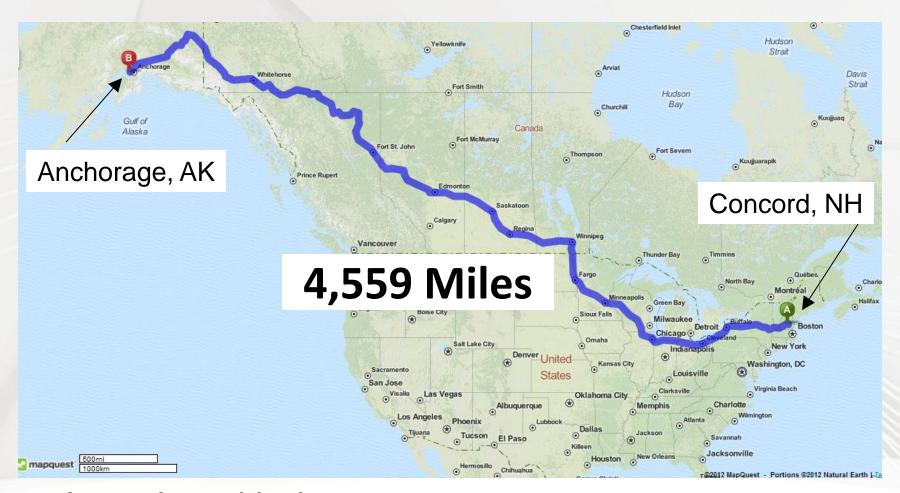
National investment in "good roads"

Federal gas tax





The NHDOT Maintained road network would stretch from Concord, NH to Anchorage, AK – 4,559 miles



A very long drive!



Poor Road Conditions



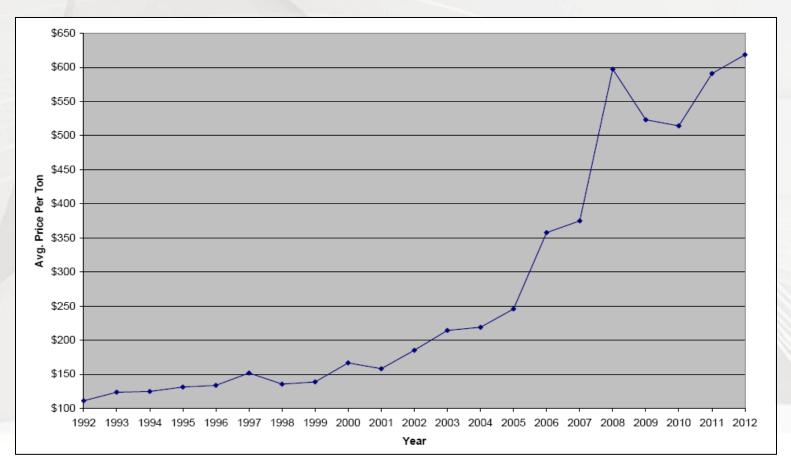
Funding Resources for NH

- State Funds (road toll tax a.k.a. gas tax, motor vehicle fees, court fees, misc.) (\$250M/ year)
- Federal Aid: Highway Fund (\$143M/year)
 - Currently matched with Turnpike Toll Credits
 - Reduces Capital Program by 15 to 20 %
- Turnpike Fund: For use on turnpike only (\$117M/year)
- Future Revenue Outlook



Increase in Material Costs

Asphalt Cement cost increased 460% from 1992-2012





What's the solution?

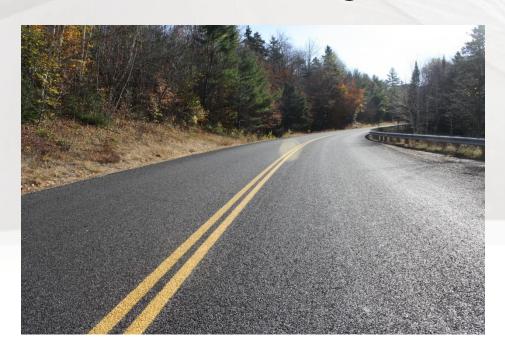
- Increase Revenue; gas tax, mileage fee, registration, etc
- Make our roads last longer
 - How do we accomplish with constrained funding?

Pavement Preservation!!



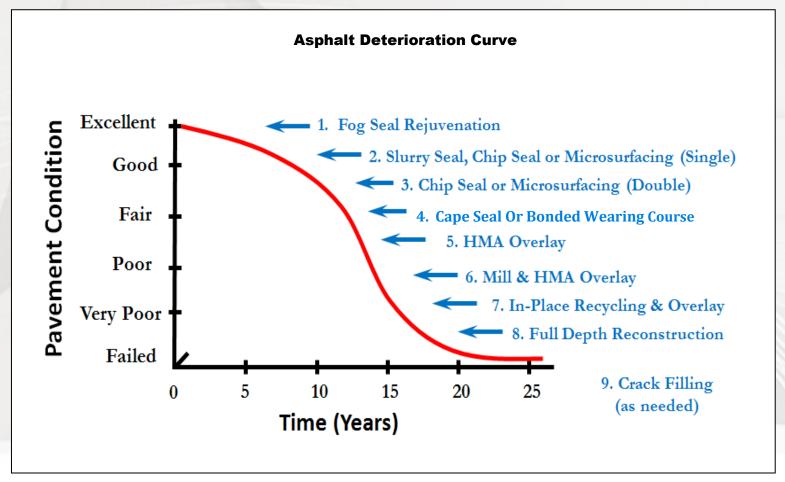
Pavement Preservation

- The RIGHT Treatment on the RIGHT Road at the RIGHT Time
- Cost Effectiveness
- Education and Promoting the Benefits





The RIGHT Treatment on the RIGHT Road at the RIGHT Time



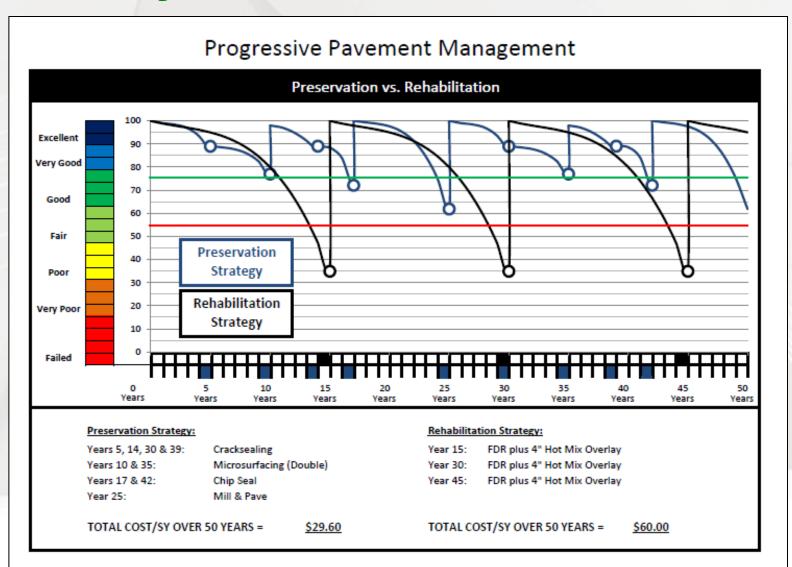


Why "Pavement Preservation"?

2013 NHDOT Equivalent Annual Costs (EACs)

TREATMENT			AVG.		
	COST		SERVICE LIFE	EAC (\$/SY/year)	
		(\$/SY)	(years)		
4.75mm HMA	\$	2.86	6	\$	0.48
Micro Surfacing	\$	3.11	6	\$	0.52
Double Chip Seal	\$	4.02	7	\$	0.57
1" HBP Overlay	\$	4.60	8	\$	0.58
Bonded Wearing Course	\$	5.94	10	\$	0.59
3/4" Paver Shim	\$	3.66	6	\$	0.61
Asphalt Rubber Chip Seal	\$	5.39	8	\$	0.67
1-1/2" HBP Overlay	\$	6.91	10	\$	0.69
1-1/2" HBP Inlay	\$	8.51	10	\$	0.85
FDR with 4" HBP	\$	20.03	15	\$	1.34
2" TW Inlay with 1-1/2" FW Overlay	\$	17.72	13	\$	1.36
4" CIP with 3-1/2" HBP Overlay	\$	29.15	15	\$	1.94

Why "Pavement Preservation"?



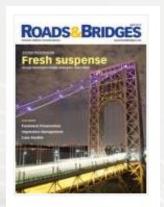


Promoting the Benefits

















Promoting the Benefits









were used to create the highway coating. By SARA YOUNG-KNOX

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Let's build tomorrow!

"Keep Good Roads Good"

Thank You!



