

APRIL 1 SHERATON HAMILTON HOTEL 116 King St W, Hamilton, ON L8P 4V3

SPRING OPERATIONS SEMINAR (SOPS) 2.0





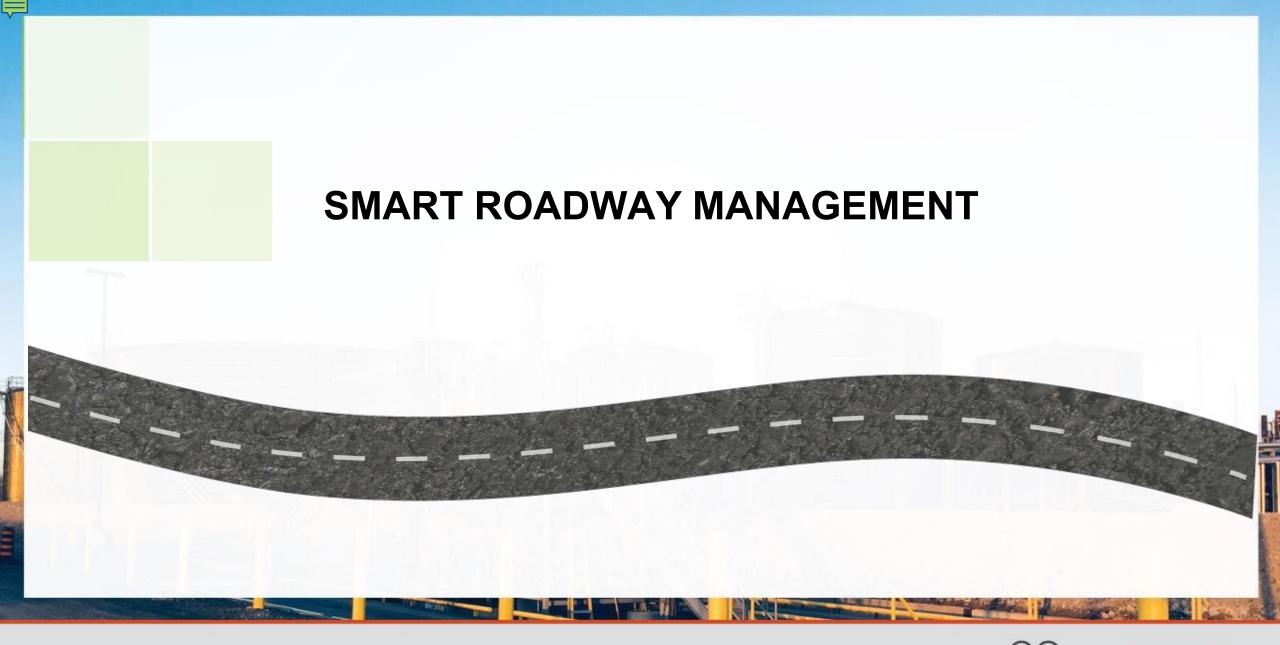


















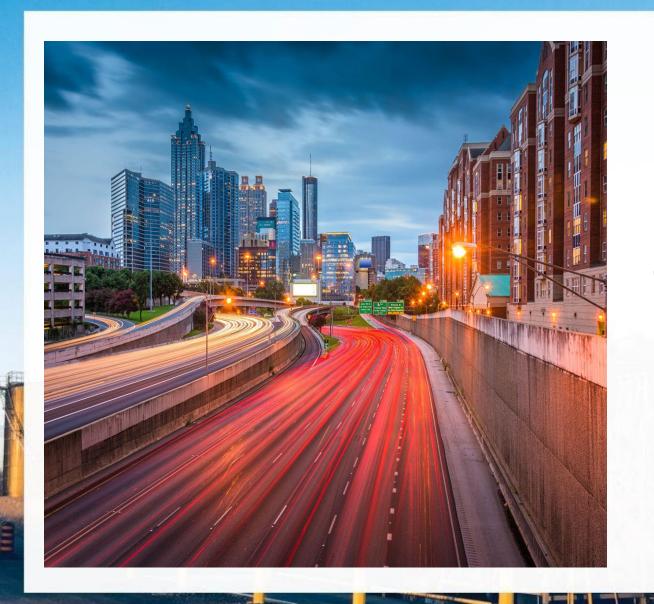
STATS

- Area: 892,000 Sq Km
- Population: 16 million, projected 21million in 20yrs
- 401: 18 km costs 639 mil 35m/km (IO)
- Bradford Bypass: + 1B for 16km 15mil/lane km
- Multiple Hwy projects, + 80 mil for 7 to 10 kms
- 241,000 KM of Road Network (2 Lane eq)
- 20% of Canada's Road Network
- Carbon Footprint: Transportation 28%
 of Canada's GHG ems. (187Megatones)
- ON responsible for 22% of GHG

- Assets ON: 2.4T Dollars (Conservative)
- Estimated 13.3 Billion Annual Budget (by 2030)
- Traffic Congestion 44 Billion Economic Loss
- QB to Spend 35 Billion on Road Network (25-26)







ARE WE MANAGING OUR ROADS SMART ENOUGH?







SMART?

- Smart Technology
- Smart GOALS









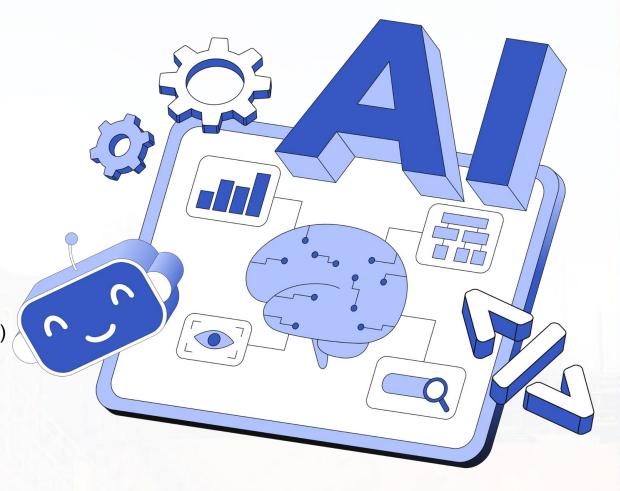






AI HYPE

- How Al is reshaping the world? (Since 2018, Chat GPT idea till today's craziness!)
- Impacting 40% to 60% of all jobs and businesses
- May displace 85 million jobs and create 97 million
- Transportation AI market to triple by 2030 (2B to 6B)
- Automation comes in the picture
- (Business Insider)









- We always want to know the future!
- How we see patterns?
- How we address a problem?
- Manually Planning and Visual Inspection
- How we map road flaws
- Find the need for a roadway, soon enough?

OVERWHELMING DATA BUT REACTIVE SOLUTIONS

MEASURABLES

PCI: Pavement Condition Index: 17 Flaw Categories as per PCI



Excellent (PCI 92)

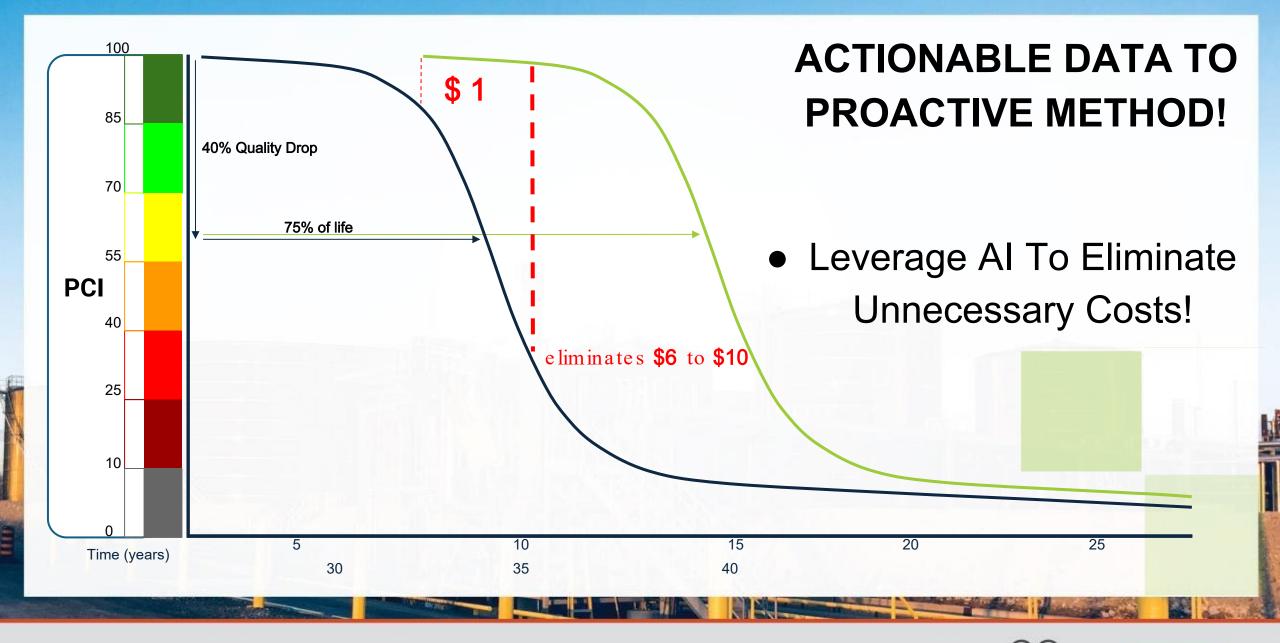


Good: (PCI62)



Poor: (PCI 4 1)



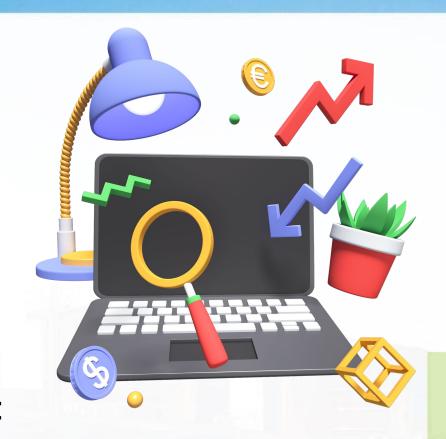




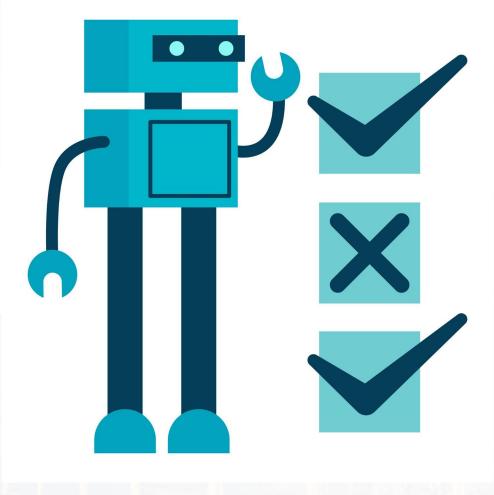


What if . . . Improving 1%

- Make Aging Slower
- Expanding Infrastructure
- Every 1 % Improvement Could Be Huge :
- New Roads (Need 300,000 Only in ON)
- 40% of Canada Roads Poor Condition (400,000 Km approx)
- Carbon Footprint







APPLY AI TO ROAD MAINTENANCE

REACTIVE TO PROACTIVE

- Create more project opportunities
- Saving costs and more jobs to create
- Powerful Processing Powers = Better Road Quality
- Better Resource Allocation
- Provide Accurate Surveys Minimizing Errors
- Take Advantage of Gov. Grants (Scale AI, SR&ED)
- Many More!







Thank You!















References

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