



BUILDING INNOVATION
Conference

Paving the Path to Resilience

Technology & Resilient Communities

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My background:

- BA from McGill University in Urban Systems
- Entrepreneur in healthcare for 10+ years
- Driven to deliver measurable human impact through science and technology



What are we talking about?



$6.2 \times 10^{10} \text{ yd}^2$

$1.2 \times 10^9 \text{ yd}^2$

TRENDS



Demographics &
People Behaviors



Technology



Climate



Road Infrastructure



39% of roads in the U.S.
are in poor or mediocre
condition



\$684 billion funding gap
over the next 10 years



Rising temperatures will
add \$19B to pavement
repair costs each year
through 2040

Resilience

Roads

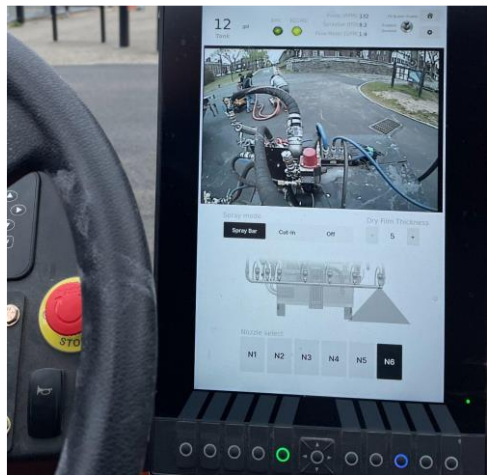




Traffic = Load

Weather = Oxidation





Systemic Approach



Adaptable & Data-Driven



Climate-Informed Design



Durable



Resilient Roads: Better Now, Better Later

ZERO

Repavings due to
top-down failures*

Better Roads

Save \$4K

per lane mile per
year†

Better Budgets

50%

of construction days
across lifespan‡

Better Communities

*Due to top-down pavement wear layer failures achieved through 5Y proactive re-treatment cadence based on specification. See warranty exclusions for full details at [GAF.com/roads](https://www.gaf.com/roads)

†Based on GAF modeling validated by third-party critical reviewers. Details on assumptions and external lab testing data found within our Maintenance Impact Report on [GAF.com/roads](https://www.gaf.com/roads)

‡Across 55 years and adherence to 5Y proactive re-treatment cadence and excludes surface damage that are the result of methods excluded in the warranty.

Thank You



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