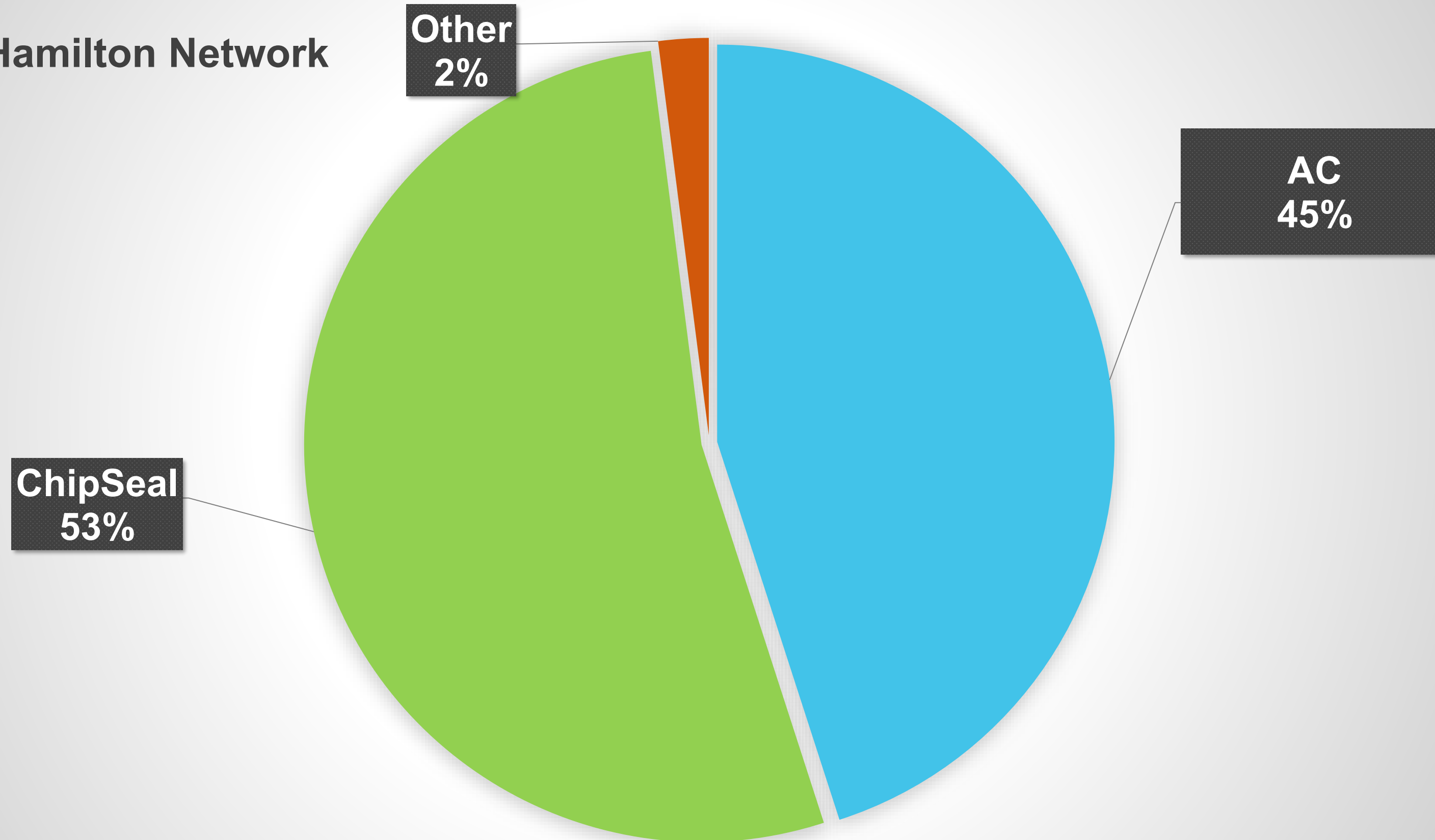


# Specialised Emulsion Preservation (SEP)

**A Collaborative and Innovative Approach to  
Pavement Preservation**

# The Context :

Connect Hamilton Network



# Challenges With Traditional Methods



## Tauranga road resealing a 'massive downgrade'

6:02 pm on 21 April 2022

Share this     

 **Alisha Evans**, Local Democracy Reporter  
✉ [alisha@nzme.co.nz](mailto:alisha@nzme.co.nz)

Suburban residents say the quality of Tauranga City Council's road resealing resembles "a dog's breakfast".



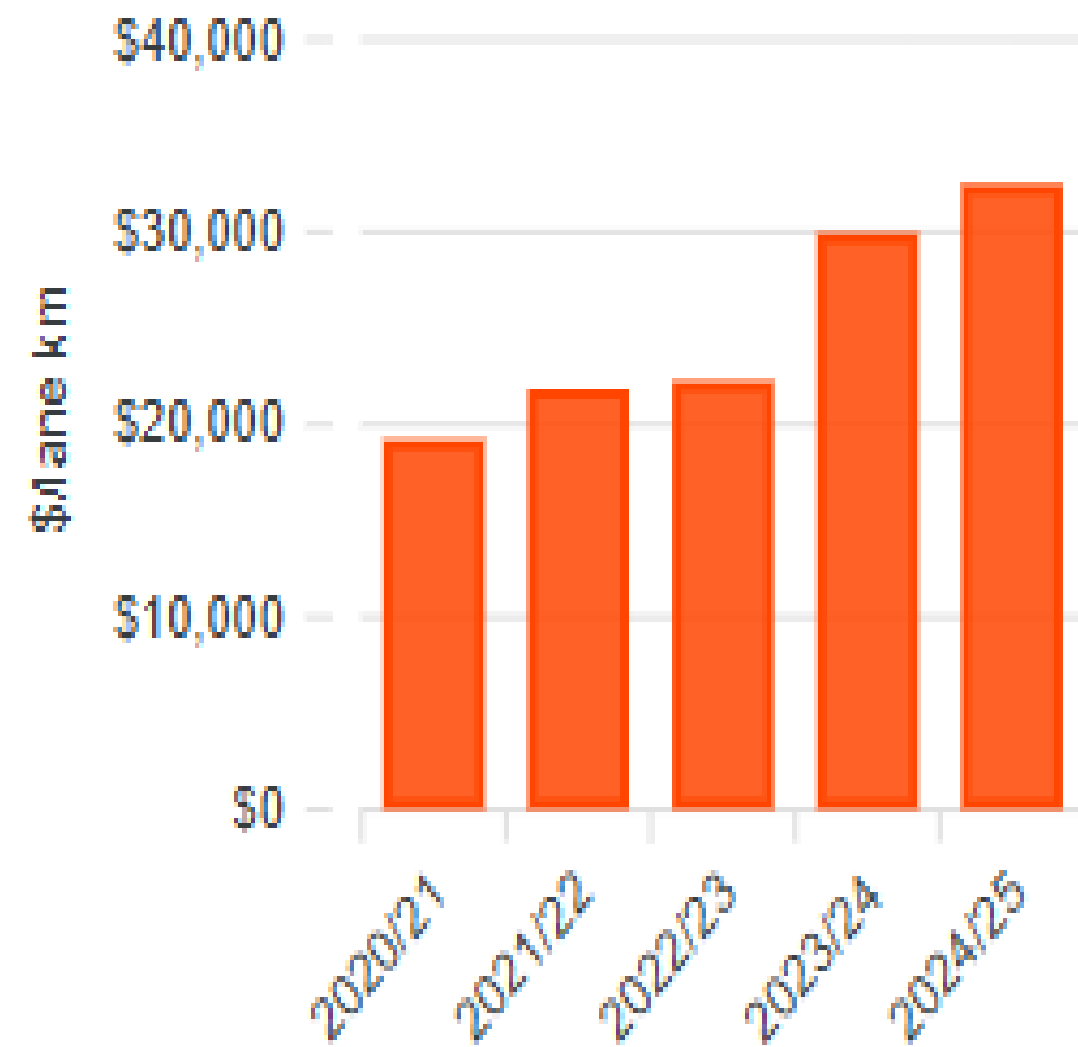
Colin Lawrence and other Springfield residents are angry with the "poor quality" resealing on their streets. Photo: Bob Tulloch / Sun Media

# Road Maintenance Activities

## Road Maintenance Costs (i)

2024/25

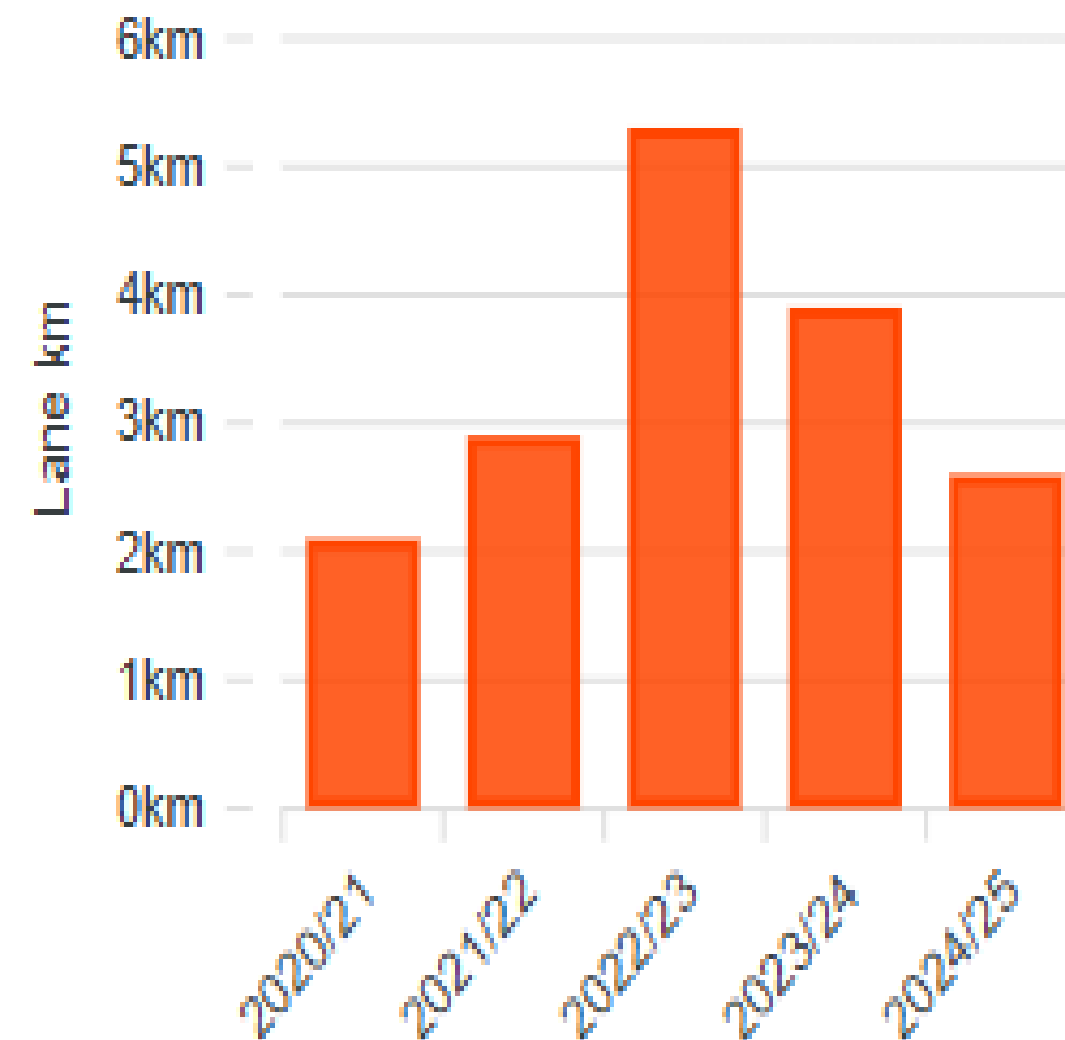
Road maintenance cost / lane km (\$)



● Variance % ● Approved ● Claimed

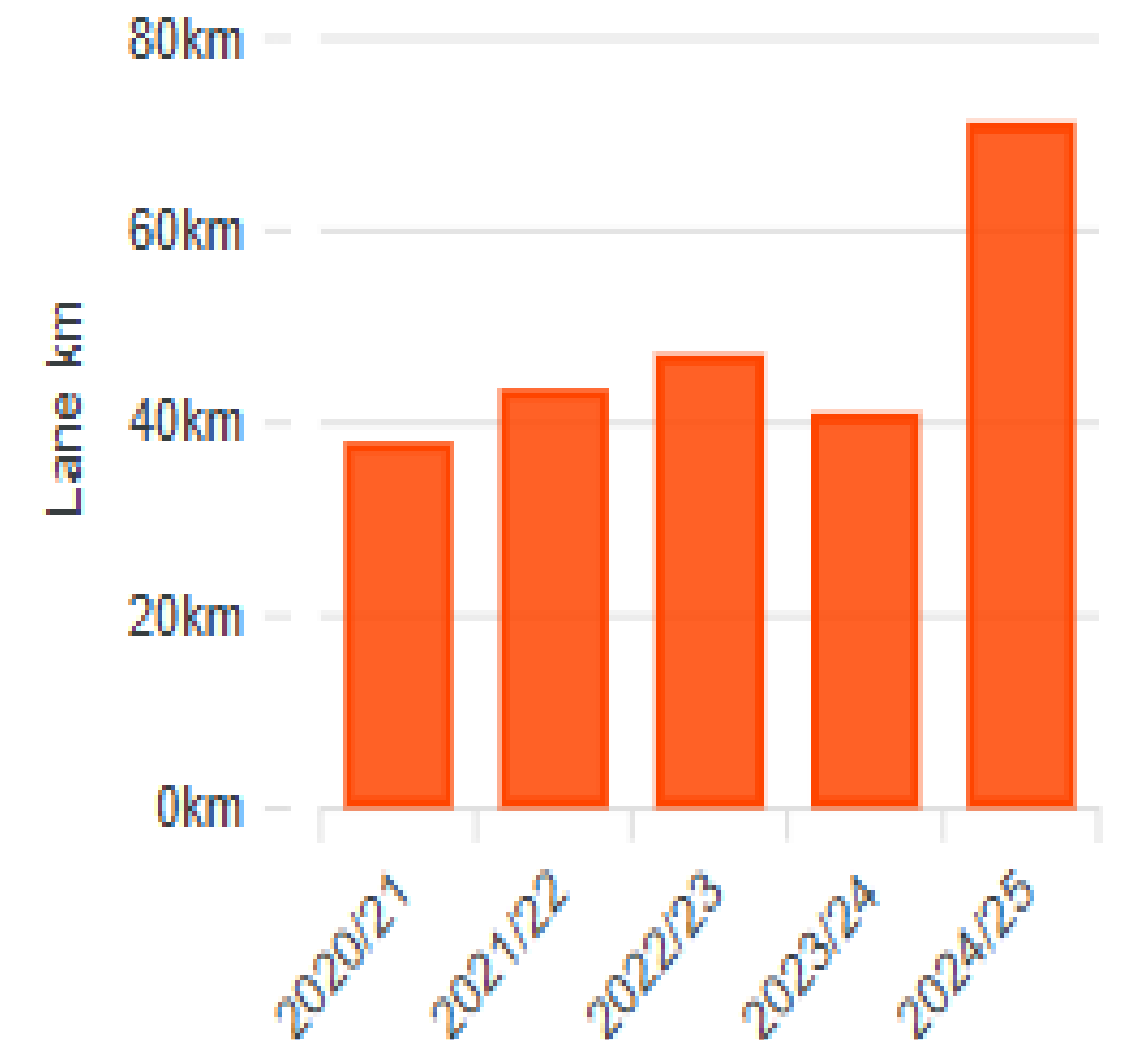
## Road Maintenance Activities (Roads) (i)

Pavement rehabilitation (lane km)



● Variance % ● Forecast ● Achieved

Pavement resurfacing (lane km)

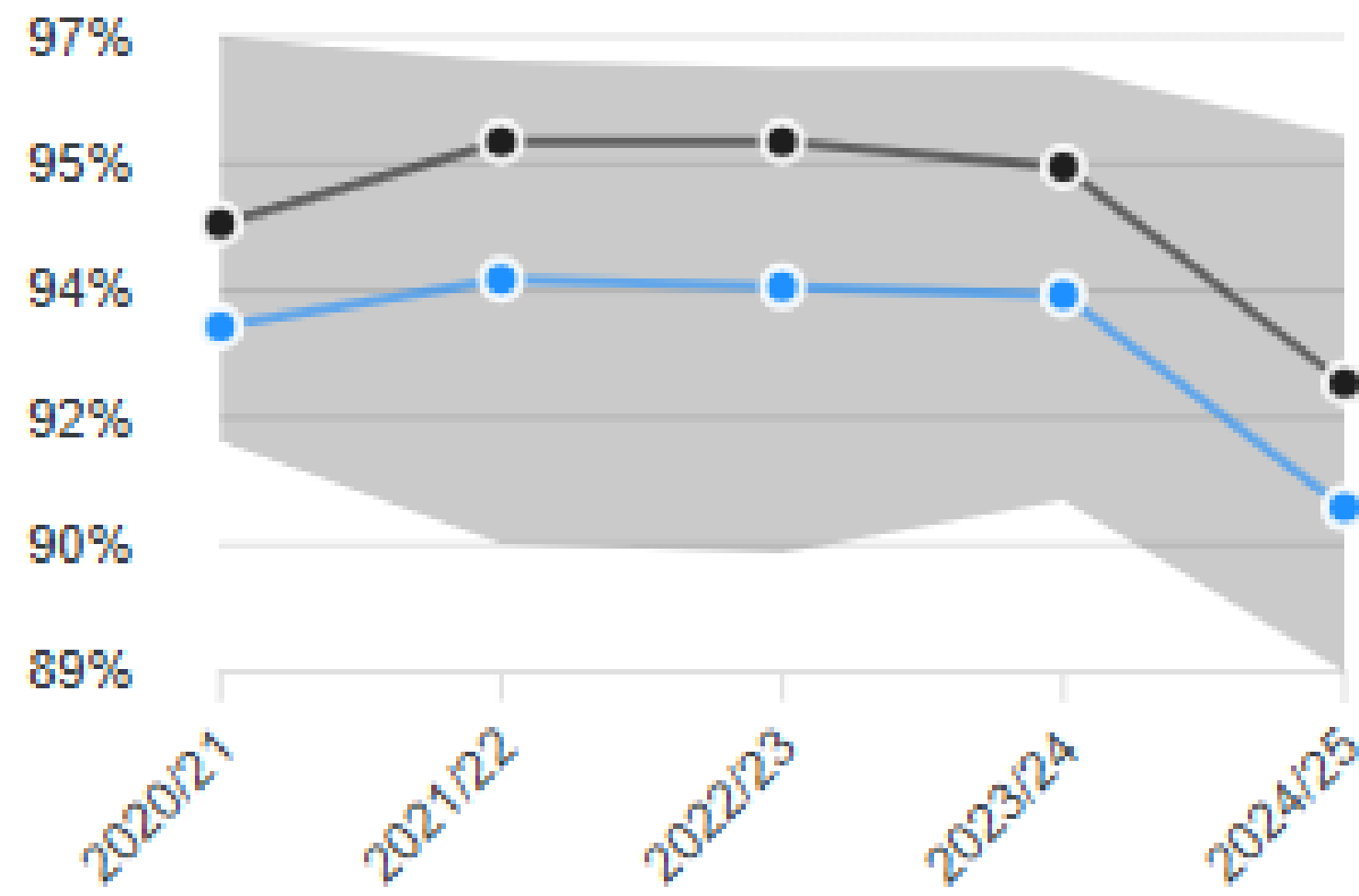


● Variance % ● Forecast ● Achieved

# Road Condition over Time

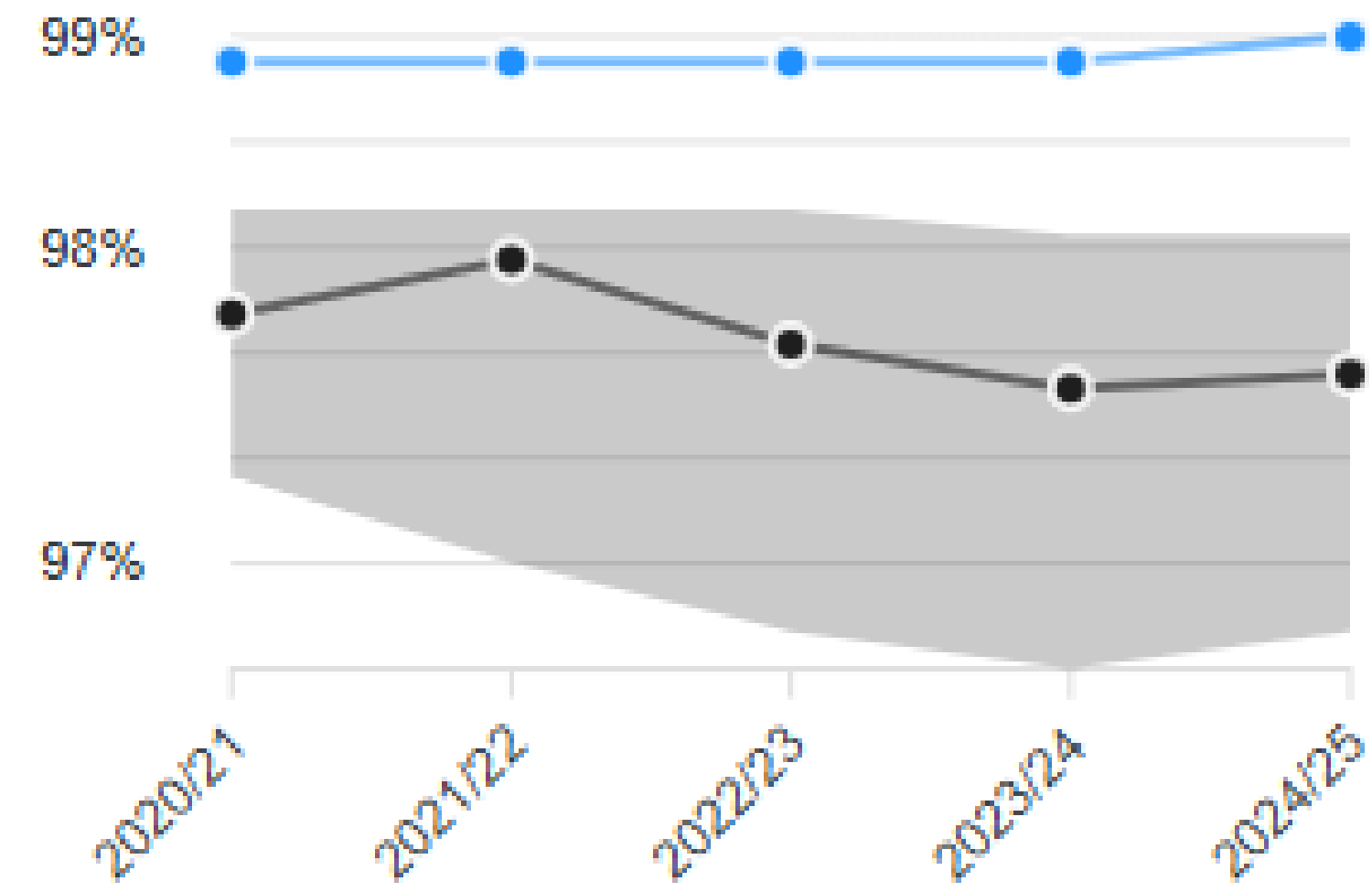
## Road Condition (Sealed Roads) i

Pavement Condition



● Hamilton City Council ● Peer Group  
● 25-75th Percentile

Surface Condition

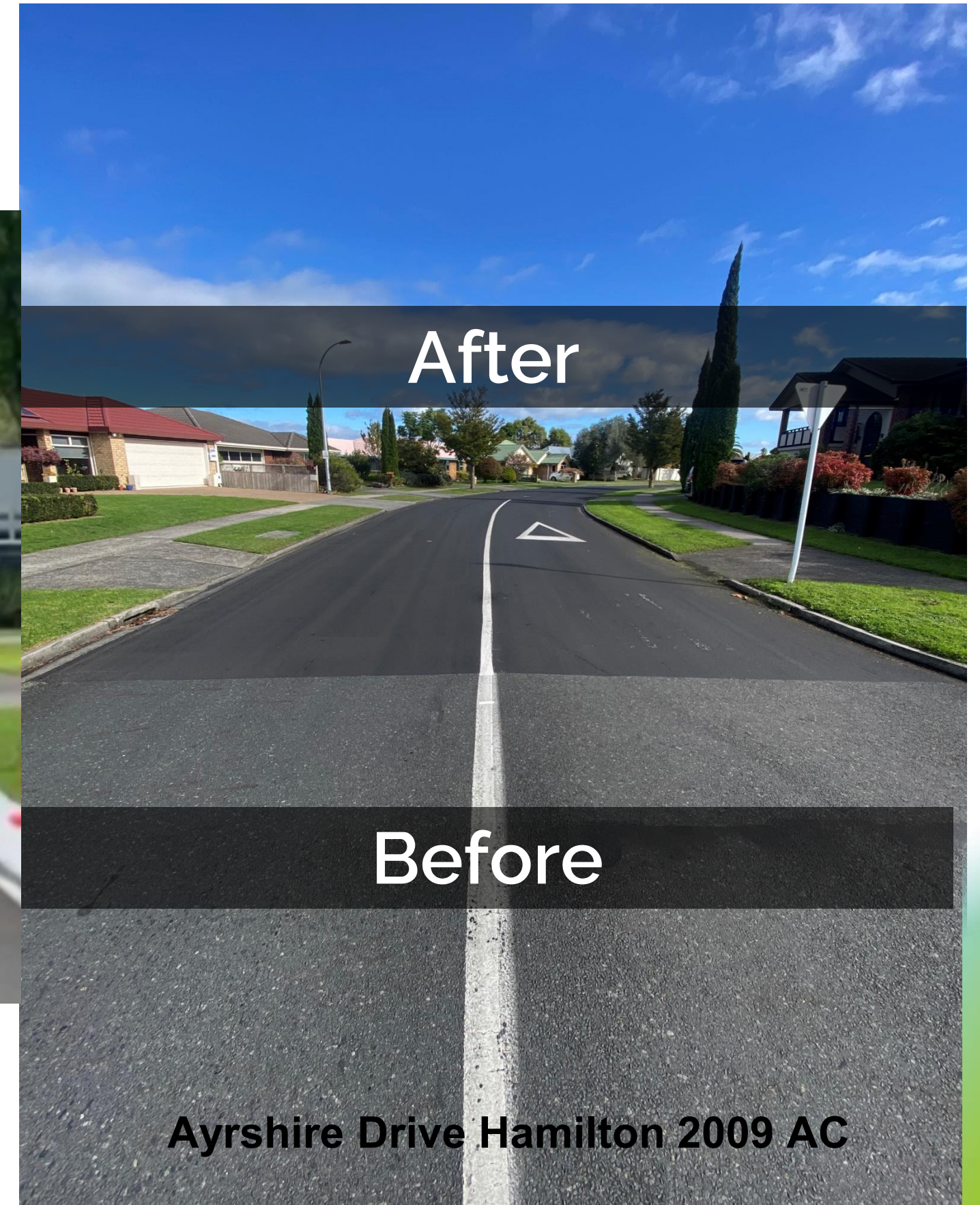


● Hamilton City Council ● Peer Group  
● 25-75th Percentile

# SEP Application



Huntington Drive ,Hamilton



Ayrshire Drive Hamilton 2009 AC



# What is **EnviroShield** ?



Standard Bitumen



EnviroShield



Grit

### Targeted Environment



Residential



Rural



Airports

### Problems it resolves



Cracking



Ravelling



Waterproofing

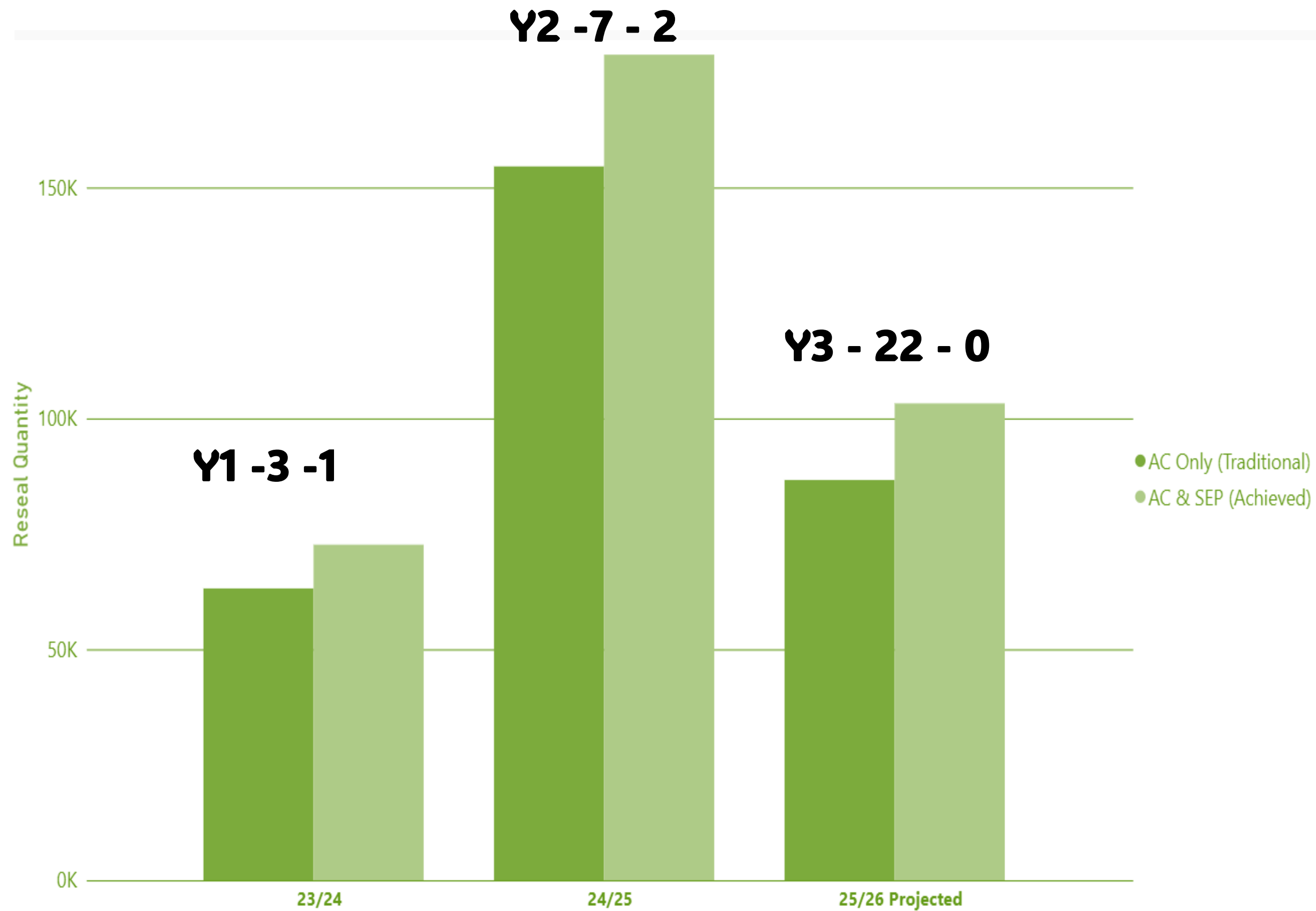


Chip Loss



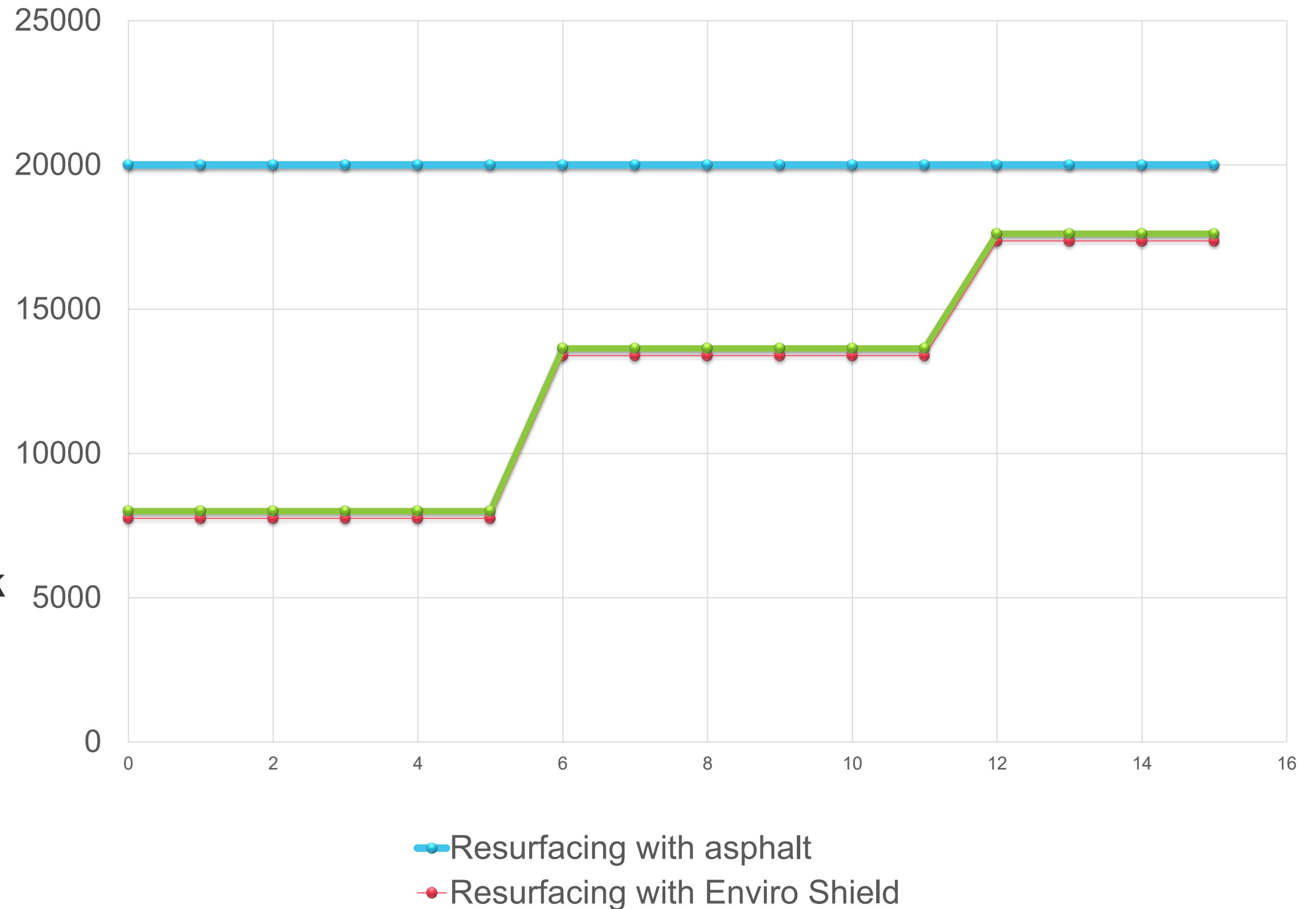
Oxidation Resistance

# Connect Hamilton Approach



# Benefits of SEP (Specialised Emulsion Preservation)

- ✓ Whole life to cost
- ✓ 75% lower cost than asphalt
- ✓ Adds 5-7+ years to asset life
- ✓ Can be reapplied to extend life further
- ✓ Proactive, preventative maintenance — avoids costly failures
- ✓ Maintains smooth ride and surface look
- ✓ Quick Application
- ✓ Minimal disruption to public
- ✓ Quieter roads while maintaining skid resistance





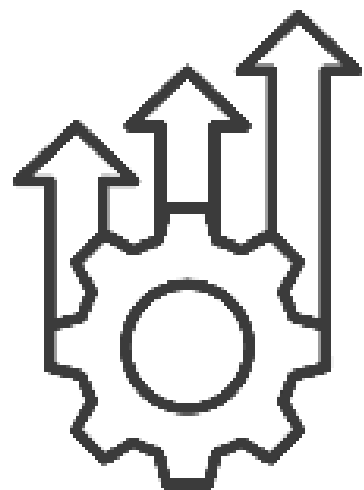
## Financial Benefits

- ✓ Lower upfront and whole of life costs
- ✓ Asphalt look at a fraction of the cost



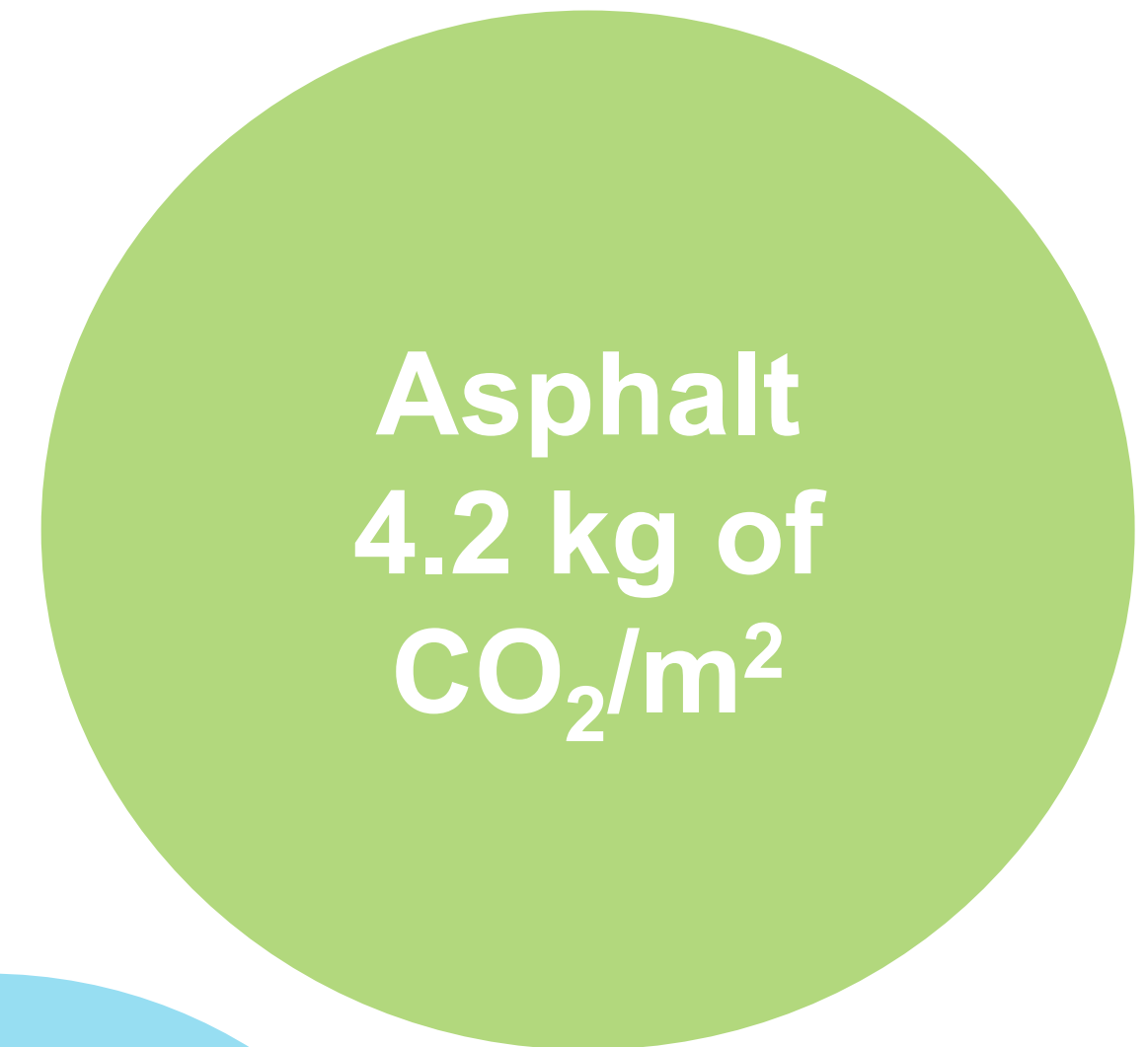
## Sustainability benefits

- ✓ 12 times Lower CO<sub>2</sub> Than Asphalt



## Other benefits

- ✓ Improves water proofing
- ✓ Maintains skid resistance
- ✓ Less Complaints
- ✓ Minimal disruption



# “What if smarter care can make roads last longer?”



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