



## But what about winter?

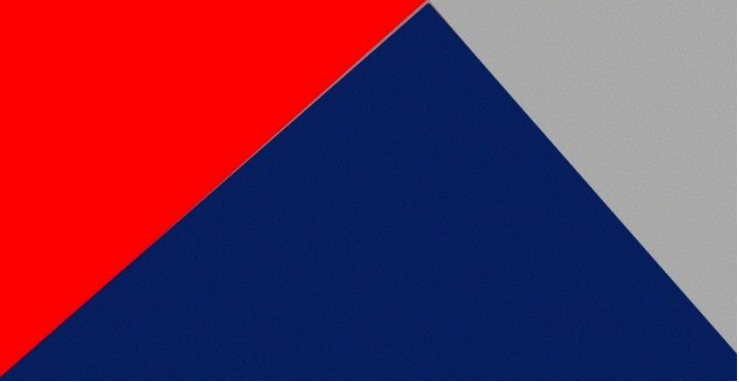
Meeting the needs of Active  
Travel during winter

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- 5<sup>th</sup> Generation family run business est. 1874
- UK's largest importer of white marine salt
- Distribute all grades of salt, equipment and de-icers
- We help local authorities prepare for winter



INCREASE RESILIENCE



LOWER ENVIRONMENTAL IMPACT

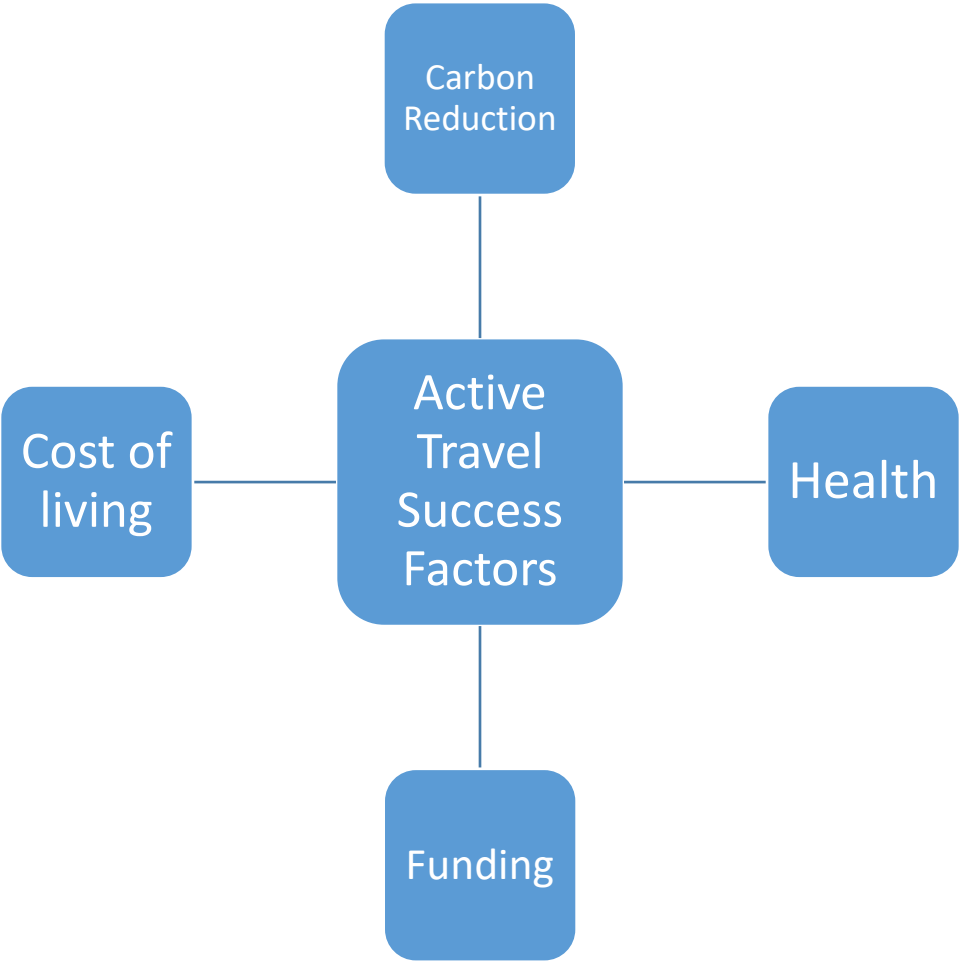


REDUCE SPEND



DE-ICE QUICKER

# Momentum behind Active Travel





Funding to match aspirations

- Growth in new routes
- England, ATF4 - “£200M funding”
- Levels of funding varied

Barriers to Maintenance

- Capital funding, OPEX stretched
- Design ... actual barriers, drainage, surface materials, path width, foliage, proximity to marine environment



But what about winter?

## The power and limitations of salt

- Traditional treatments require traditional traffic
- Salt enters liquid phase to begin de-icing
- Liquid de-icers are already in solution

## Liquid de-icing Infrastructure

- De-icer production vs purchase
- Narrow vehicle vs wider access
- Liquid de-icing sprayer
- Corrosive v Non-Corrosive
- Environmental considerations





# Case study

- South East Trunk Roads Network
- 5 depots, 500km roads including 2 major bridges
- 40km of cycleway / footpaths
- Brine produced from rainwater through salt saturator systems
- Applied through demountable electric de-icing sprayers
- Challenges
  - Brine less visible than salt
  - Application rate accuracy
  - Snow events



Date-time	2018-02-07 09:19:16	×
Vehicle	VU65 VTK	
Operating mode	Spraying brine	
Liquid	Custom liquid 1	
Amount	30 ml/m <sup>2</sup>	
Spray width	3 m	
Vehicle speed	17 km/h	



# Case study

- Bridge application
- 2 de-icers deployed in separate tanks
- Brine for approach path
- Potassium acetate for bridge path
- Controlled and tracked from cab
- Challenges
  - Originally tractor mounted and redeployed on Multihog
  - Brine out of specification – salt carried through





# Putting a resilient plan in place

## Research


- Stakeholder engagement including maintenance personnel, scenario plan
- Best practice review – NWSRG
- Test and trial options before specification
- Cost v benefit analysis

## Implement

- Stakeholder engagement
- Ensure training and support available

## Review

- Stakeholder engagement
- Efficiencies
- Life cycle of solutions
- Seasonal works cycle



**NWSRG**  
NATIONAL WINTER SERVICE RESEARCH GROUP

## Section Eleven

### Winter Service on Footways and Cycleways

**Key check list:**

- Have footways and cycleways been selected and prioritised for treatment in accordance with a risk based approach?
- Has consideration been given to footway and cycleways when specifying weather forecast requirements, location of weather stations and sensors?
- Has the footways and cycleways Winter Service delivery policy been clearly communicated to all relevant stakeholders?

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In association with **IHE** INSTITUTE OF HIGHWAY ENGINEERS





# Peacock

Serious about Salt

Q & A

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