

Winter Service on Cycleways and Footpath

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- 5th Generation family run business est• 1874
- UK's largest salt importer
- Distribute all grades of salta import approx.
 200,000Te Salt
- We support councils with:
 - Salt deliveries
 - Grit bins and spreaders
 - Cycle path de-icing equipment and materials



Agenda

- Active Travel
- Impact on Winter Service
- Practical solutions...
- ... in practice





Active Travel

- Active Travel
- DFT Government backed:
 - Health
 - Environment
 - · COVID
- Increase in cyclists and cycling
- New cycling schemes...

"What about
Martional Cycling Network 17-18
786 Million journeys
16,500 miles of Network
4.4 Million people



Impact on Winter Service

The Power of Salt

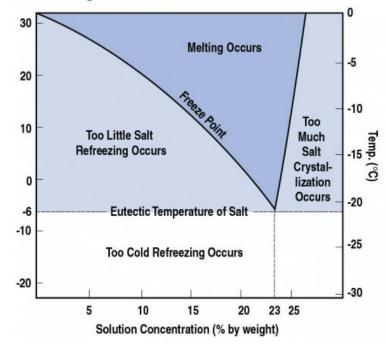
- · Salt lowers the freezing point of water
- Agitation (traffic) or moisture required
- Not always guaranteed on cycleways / footpaths
- Liquid de-icers activate on impact***

 • De-Icing VS Anti-Icing (NaCl) (NaCl) (NaCl) ***********

 Liquid de-icers with benefits:

Salt brine

Phase Diagram for Salt



Practical Solutions

Materials

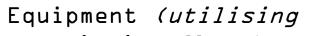






















In Practice

- Priority 1 segregated cycleway network treated through winter
- Using a low corrosive liquid de-icer called Pro-Brine
- Delivered in IBC and refilled on demand
- Corrosion inhibitor available
 in:
 - 15L bottle
 - 1,000L IBC
 - 28Te Bulk Tanker
- Applied via sprayer:
 - Multihog multi attachment vehicle

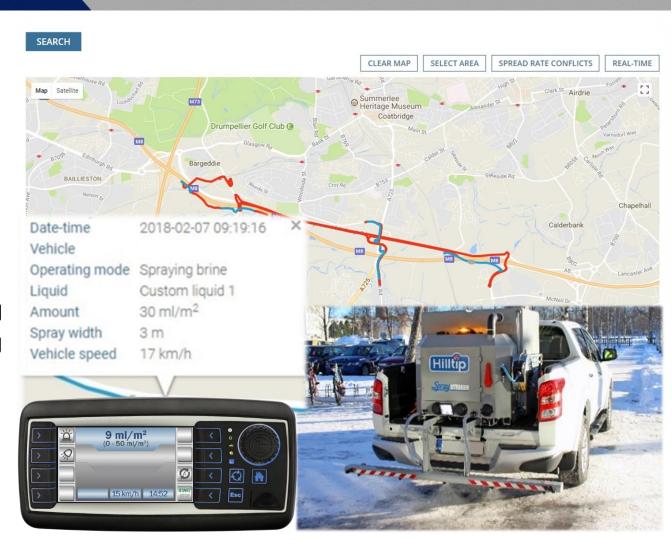




Image from different contract

In Practice

- 20km footpath
- 3-6m wide
- Treated from +
 l°C
- Brine
 manufactured on
 site
- Hilltip Spraystriker 500 onboard existing fleet pickup
- GPS control
- Directional Control spray
- Tracked using



In Practice

Brine production

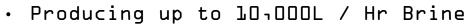
Small Scale

Mini Brine Saturators

Large Scale

Pre-Wet Salt

Automated Brine Saturators



- 2-way remote control
- Minimal intervention









Pump







NWSRG

National Winter Service Research Group

Useful Resources

- · NWSRG Guidance
- SUSTRANS
- · Gov-uk
- A New Winter Approach (Next week)
- · www.anewwinterapproach.c

A NEW
WINTER APPROACH
DIGITAL SUMMIT

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