Implement AHEAD Successfully

How it works safely in your organization

Technical Track

DATA, SYSTEMS AND EQUIPMENT

Roads, classes and routes decided
Routes recorded for salt spreader
Routes adjusted for AHEAD

Salt spreader ability
Salt table decided

Treatment Policy Track

SITUATIONAL OPERATIONAL OPTIONS

When Confidence in forecast is High (Stable weather)

When Confidence in forecast is low (Volatile weather situation)

Set lower margin “never less than 5 grams”
Maximum dosage set
Safety margin – 1 degree on freezing point

Training Track

MONITORING (KLIMATOR)

Weather Stations Installation and Service

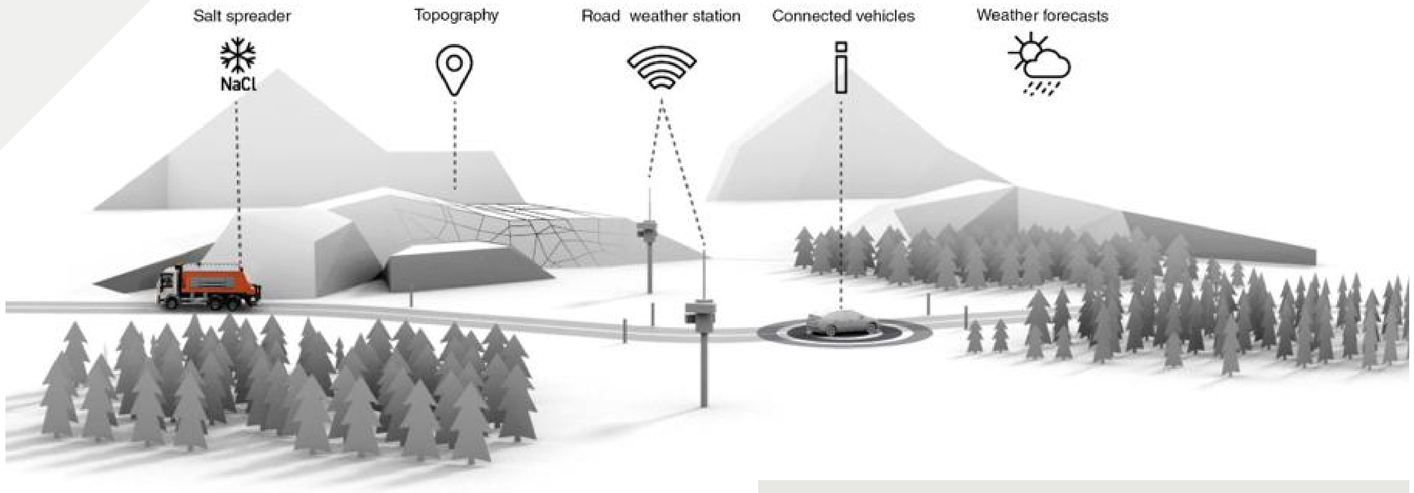
Road Status Information

TECHNICAL SET UP

Salt spreader functions and controller

OPERATIONS (FOLLOW UP)

Project management



> AHEAD for adaptive salting for winter maintenance operators is a new, highly advanced technology.
>
> It brings new opportunities to how the road network is treated, thus has impact on set up of systems and equipment and treatment policies depending on how you wish to operate it.
>
> The overall understanding of how it works and how the operation organization is trained for using it is crucial for harvesting the benefit it provides.

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Checklist – AHEAD

System setup before start

WINTER ORGANIZATION ELEMENTS

- [ ] Management decision to use AHEAD as part of winter maintenance solutions
- [ ] Policy on weather situations
- [ ] Assessment on impact on winter regulations
- [ ] Trained operations management, winter duty staff and drivers
- [ ] Select routes/spreaders for AHEAD, supply route information to Klimator
- [ ] Ensure that spreaders are supported for AHEAD
- [ ] Install laser, camera, computer. Connect to salt spreader and calibrate

KLIMATOR ELEMENTS

Purchase:

- [ ] Climatologist report for clarification of supplementary measurements for hyper local model
- [ ] Installation and data feed - IoT stations
- [ ] License for RSI
- [ ] AHEAD hardware and licenses

Klimator jobs:

- [ ] Configure route for AHEAD
- [ ] Training/certification of users

SPREADER ELEMENTS

Purchase:

- [ ] Epoke or Falköping spreaders and controls
- [ ] Smaller adaptations/ updates to controllers

Operation of AHEAD

BEFORE CALL

- [ ] Monitor the weather situation in RSI

→ CALL ROUTES

- [ ] Call out the route
- [ ] Call out other routes/ spreaders in the usual way with dosing in the usual system

→ OPERATE THE ROUTE

- [ ] Fill the salt spreader
- [ ] Turn on spreader control and AHEAD control
- [ ] AHEAD now controls the dosage
- [ ] Other functions, like spreader width still controlled by manufacturers controller

→ END CALL

- [ ] The data collection shows the exact amount of salt spread on each segment
- [ ] Salt quantity per segment has been continuously sent to RSI for salt residue calculation
- [ ] Details of recording and more can be seen in RSI*

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