

Rx for Reducing the Use

Sustainable Salt Use Best Practices

2ND ANNUAL
SAVE THE LAKE SALT SUMMIT



Sustainable Salt Initiative (SSI)

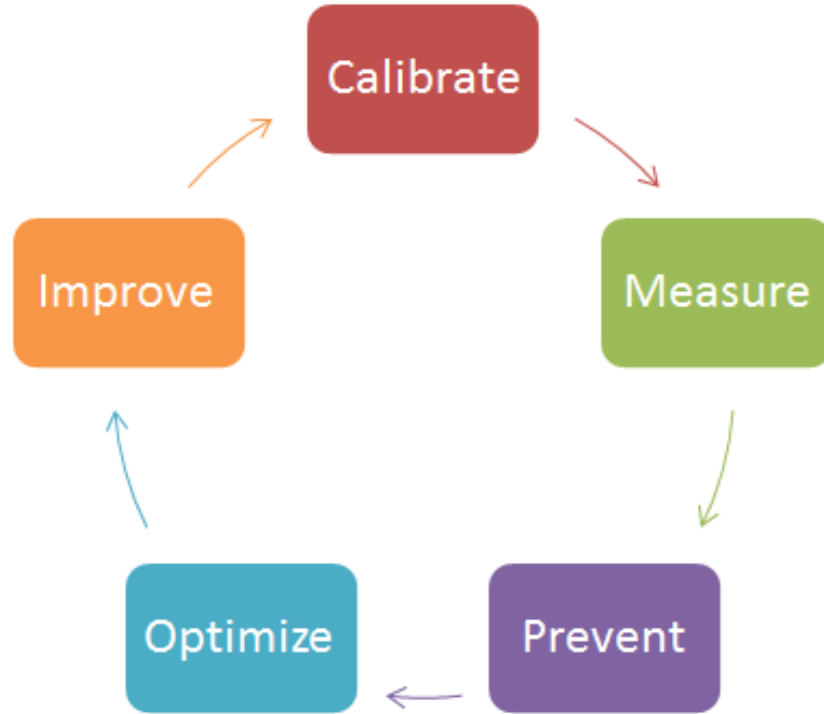


Sustainability = Risk Management



5 Stages

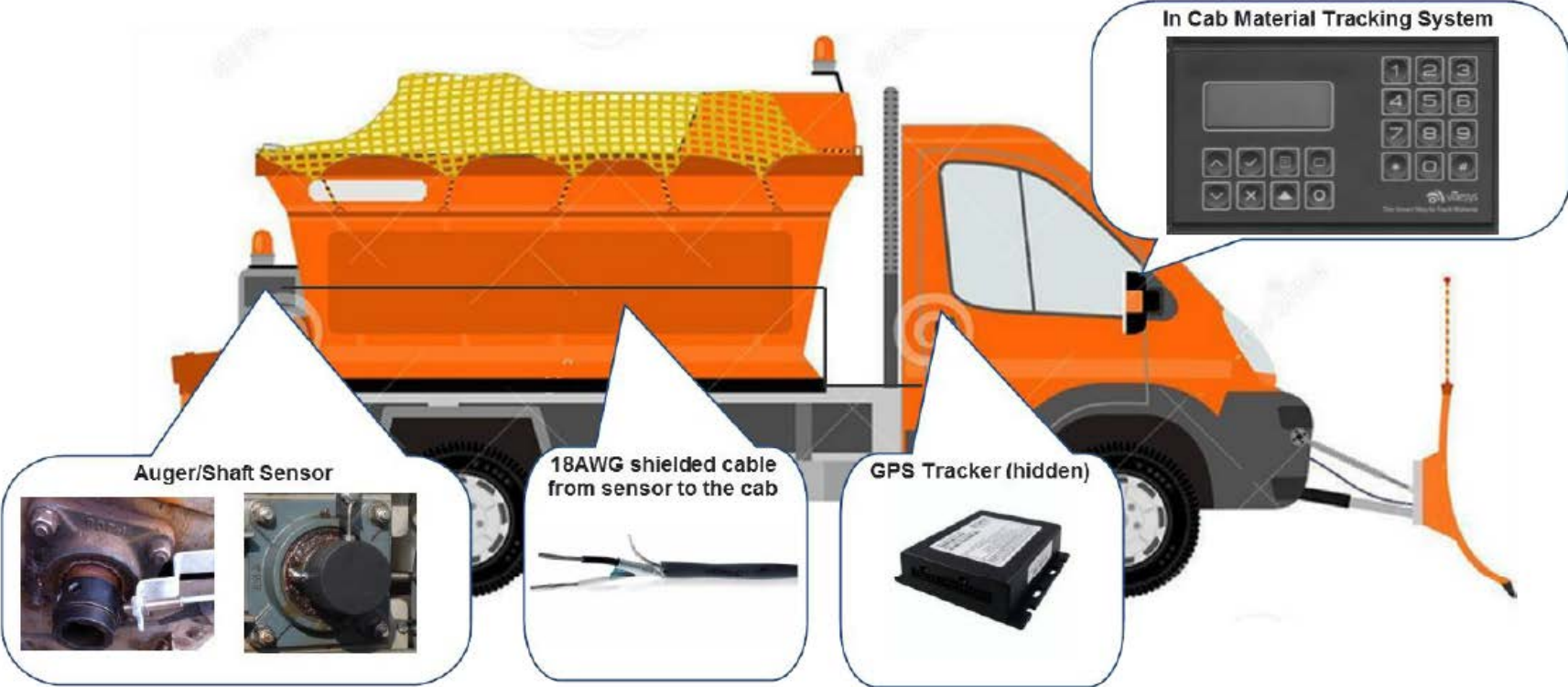
- Calibrate
- Measure
- Prevent
- Optimize
- Improve



Calibrate



Measure



In Cab Material Tracking System



Auger/Shaft Sensor



**18AWG shielded cable
from sensor to the cab**



GPS Tracker (hidden)



Prevent

Anti-Icing: “A strategy in which a chemical is applied directly to a roadway surface before a storm begins or **before any snow or ice has bonded to the pavement.**”

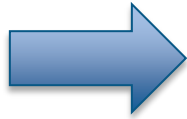
- **Proactive** approach to winter management
- ‘Jump starts’ the melting process
- Forms a **“bond-preventer”** between the road surface and the snow/ice layer

Why Anti-Ice?

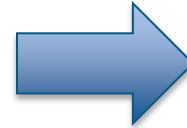
Would You Ever Do This?



“Stick”
Frying Pan



Cook Without
Butter or Oil

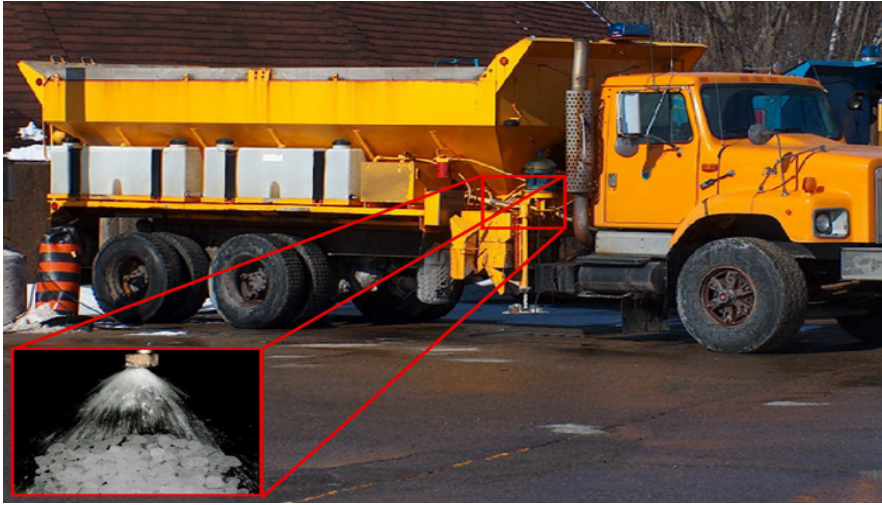


Result?



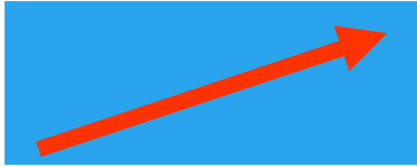
Optimize

Pre-wetting at the Spinner

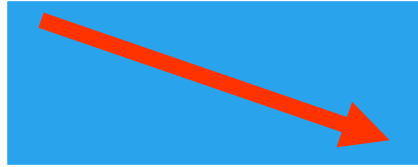


Use 8-14 gallons/ton of 23.3% salt brine

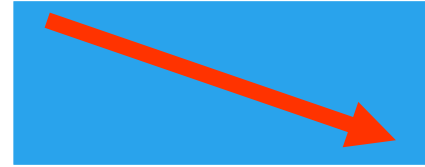
Benefits of Brine



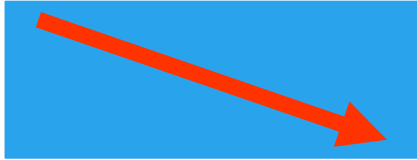
Liquids



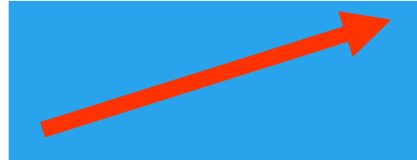
Solids



**Total
Salts/Abrasives**



**Environmental
Impact**



**Useful Life of
infrastructure**



**Total
Operational
Cost**

Improve

- Data Analysis
- Verify Level of Service
- Re-calibrate
- **REDUCE**
- Repeat

