Vaisala Wx Horizon

Decision Support for Winter Maintenance



Winter Maintenance – Tasks You Need to Get Right

- Know the current impact of hazardous winter weather on your entire road network
- Know how hazardous weather will impact your network in the future
- Plow and/or treat your network at the optimal time
- Learn and improve from past events
- Analyse and act on large amounts of data





Winter Maintenance – Tasks You Need to Get Right

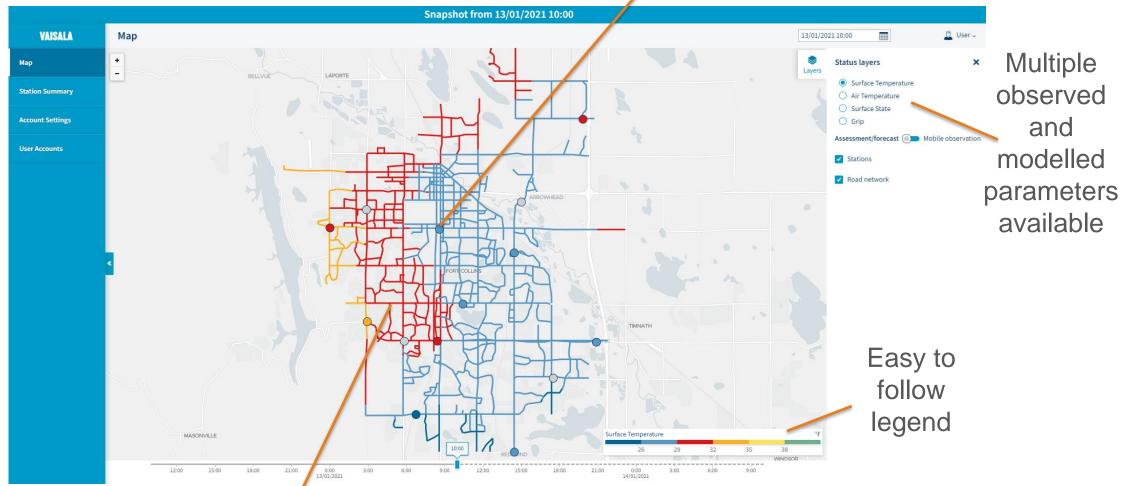
Restricted

- Do I need to take an action?
- If so:
 - When?
 - Where?
 - How much?





Latest observed data from weather stations

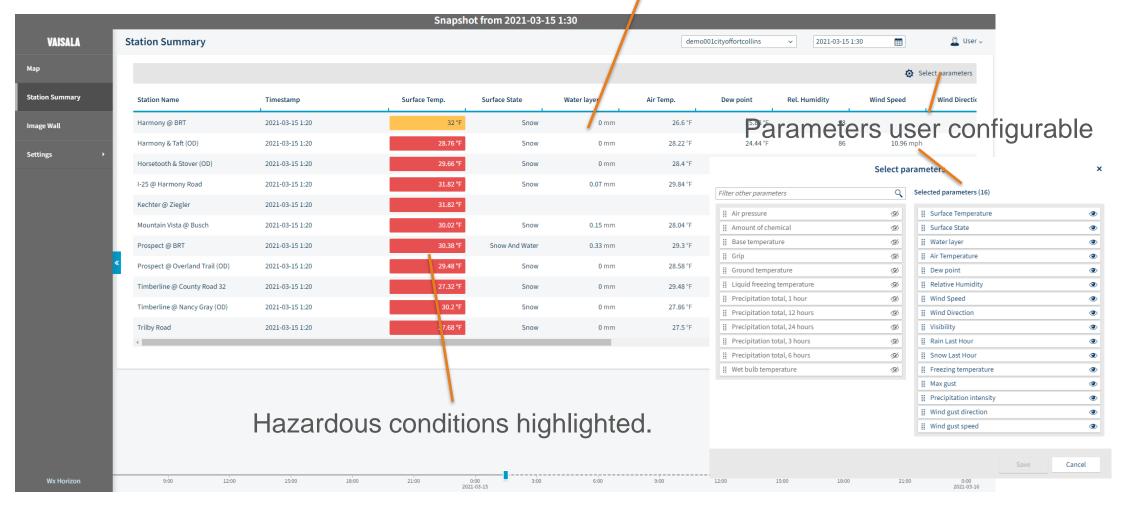


Latest assessed data from segments between the weather stations

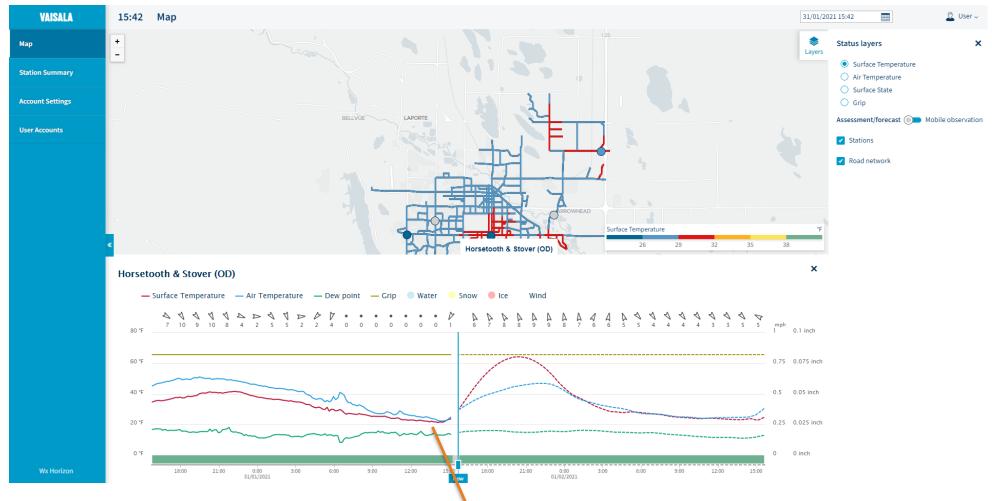


Table of multiple observed parameters from weather stations.

Situational Awareness

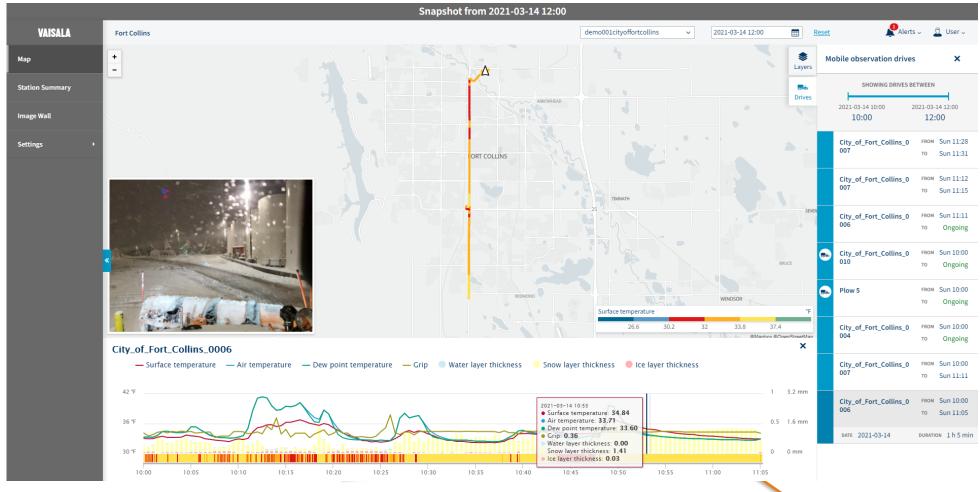






Observed parameters from weather stations available in a graph





Shows data from any Mobile Sensors out on the network.



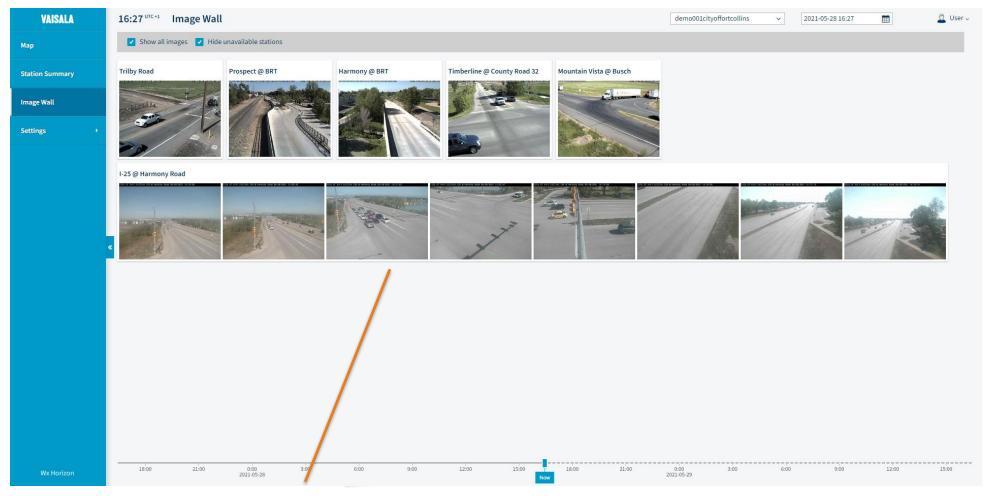
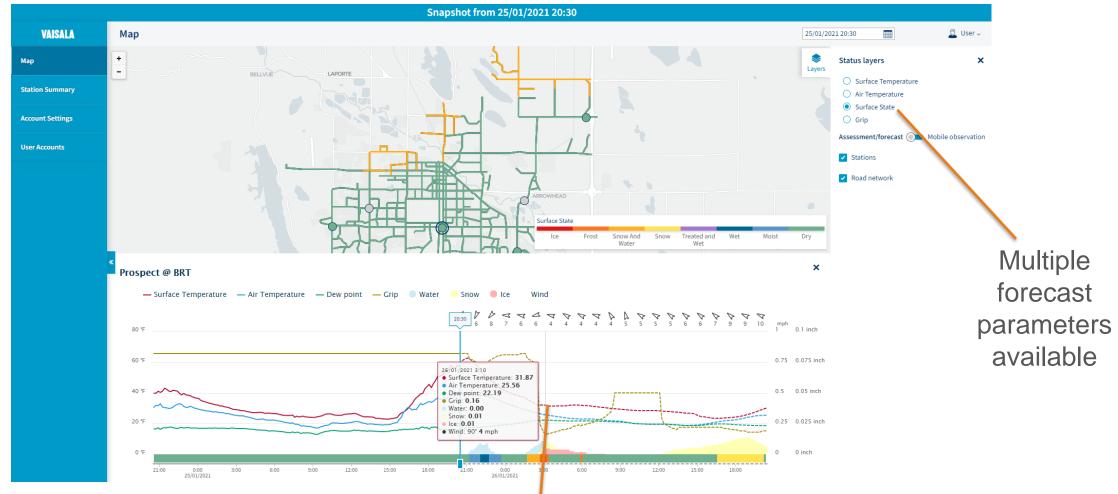


Image Wall shows camera images from fixed weather stations to allow visual confirmation of current conditions.



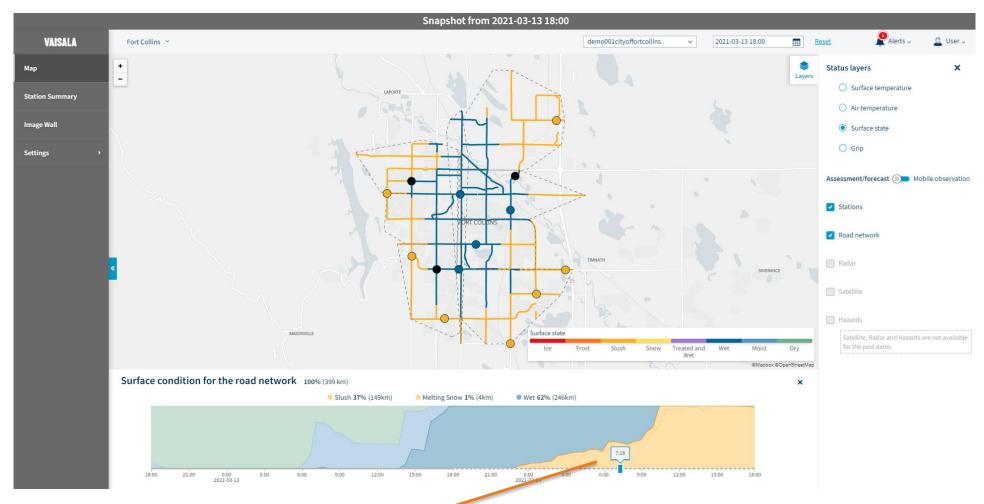
Future Awareness



Clicking anywhere on the network brings up a graph showing 24 hours of forecast information for that location



Future Awareness

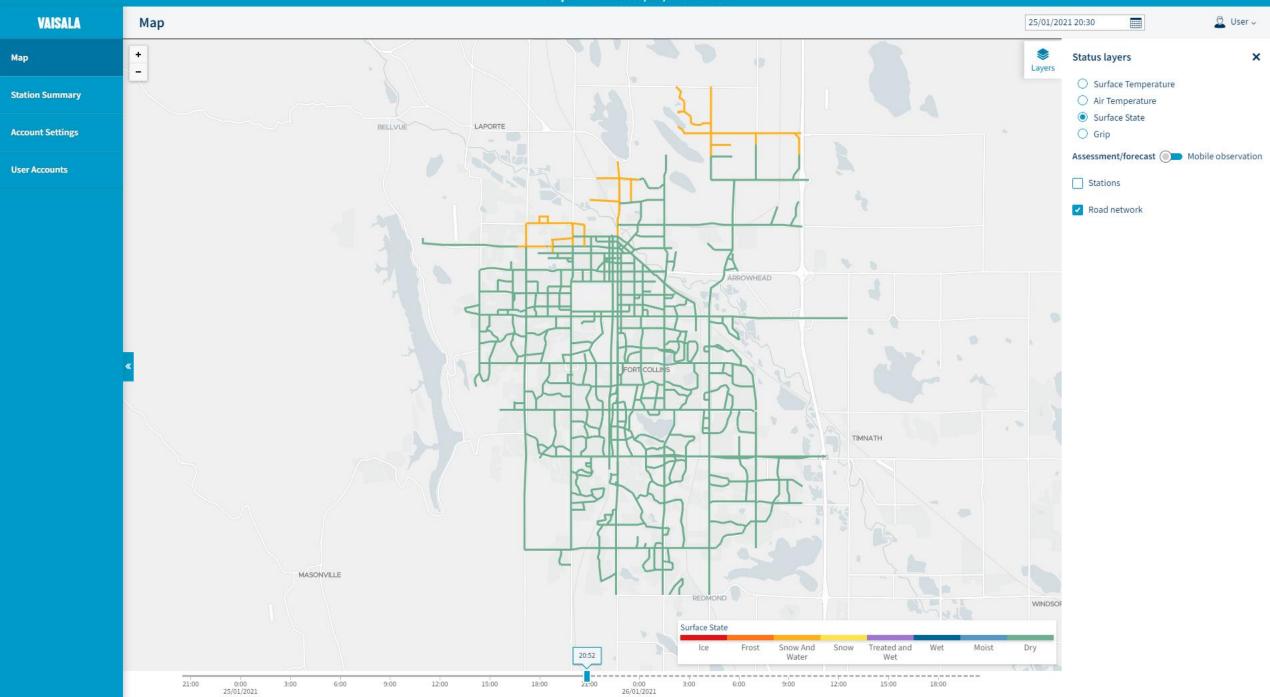


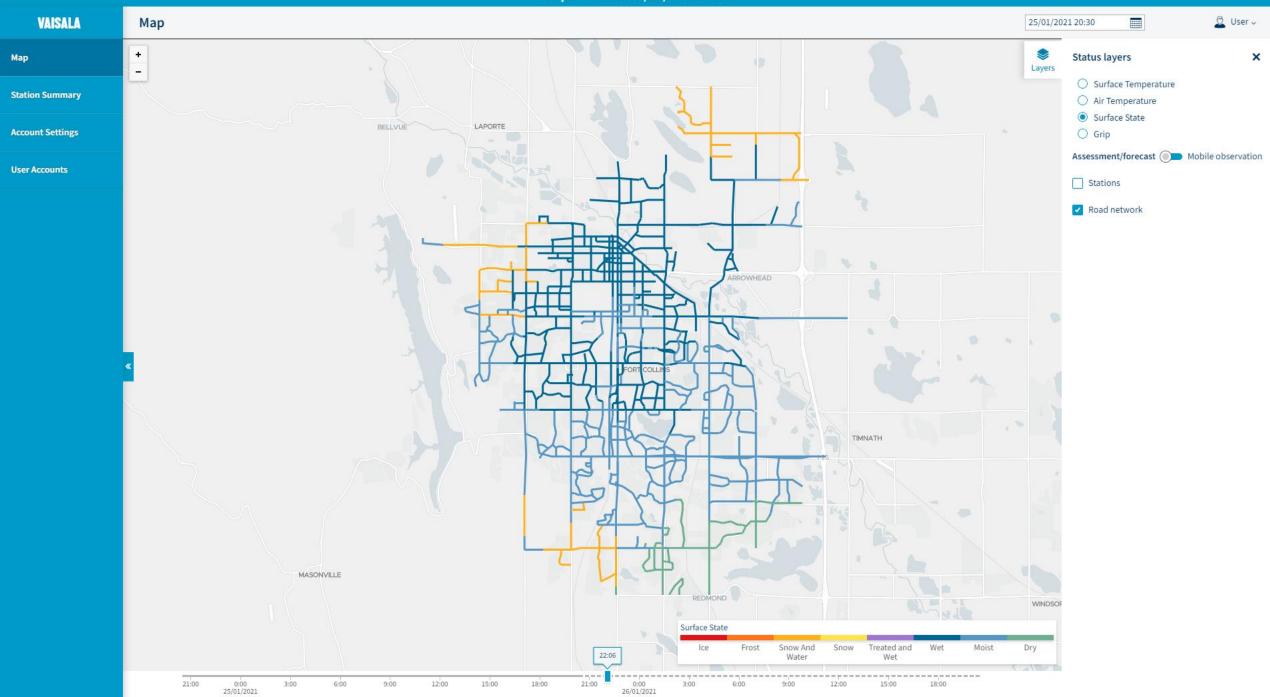
Network Summary Graph shows current and forecast percentage of network covered by each surface state. Allows easy understanding of timing and extend of upcoming hazards.

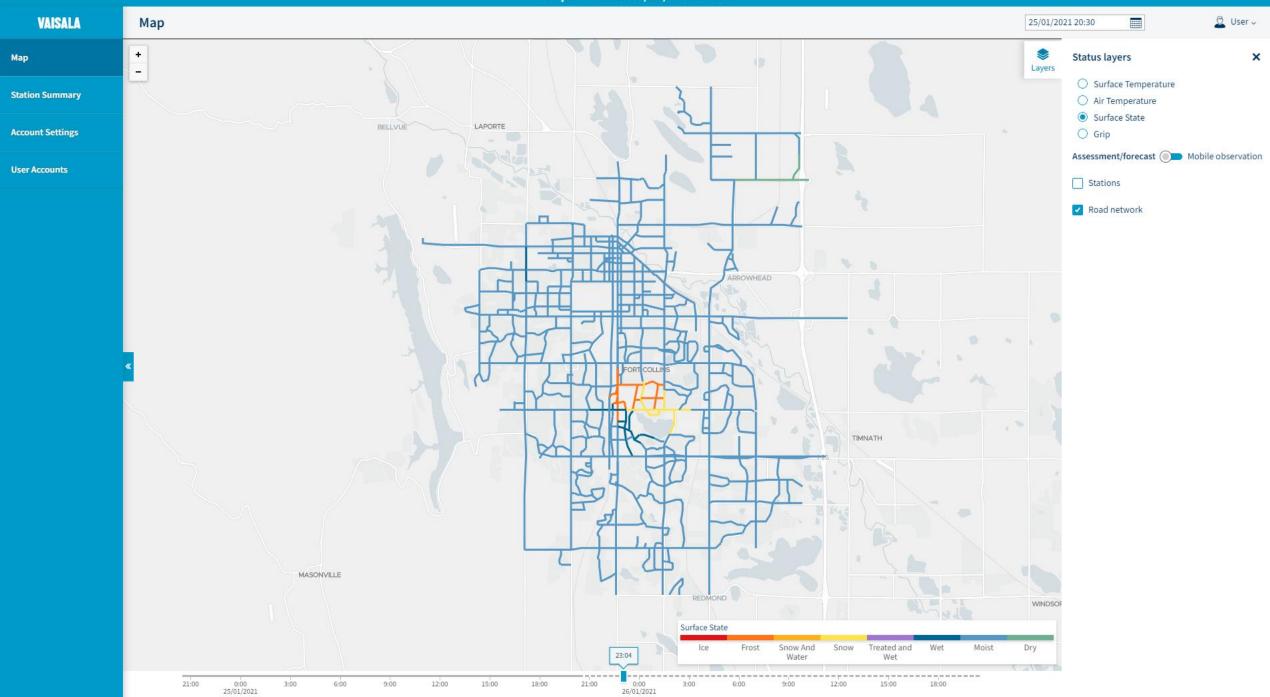


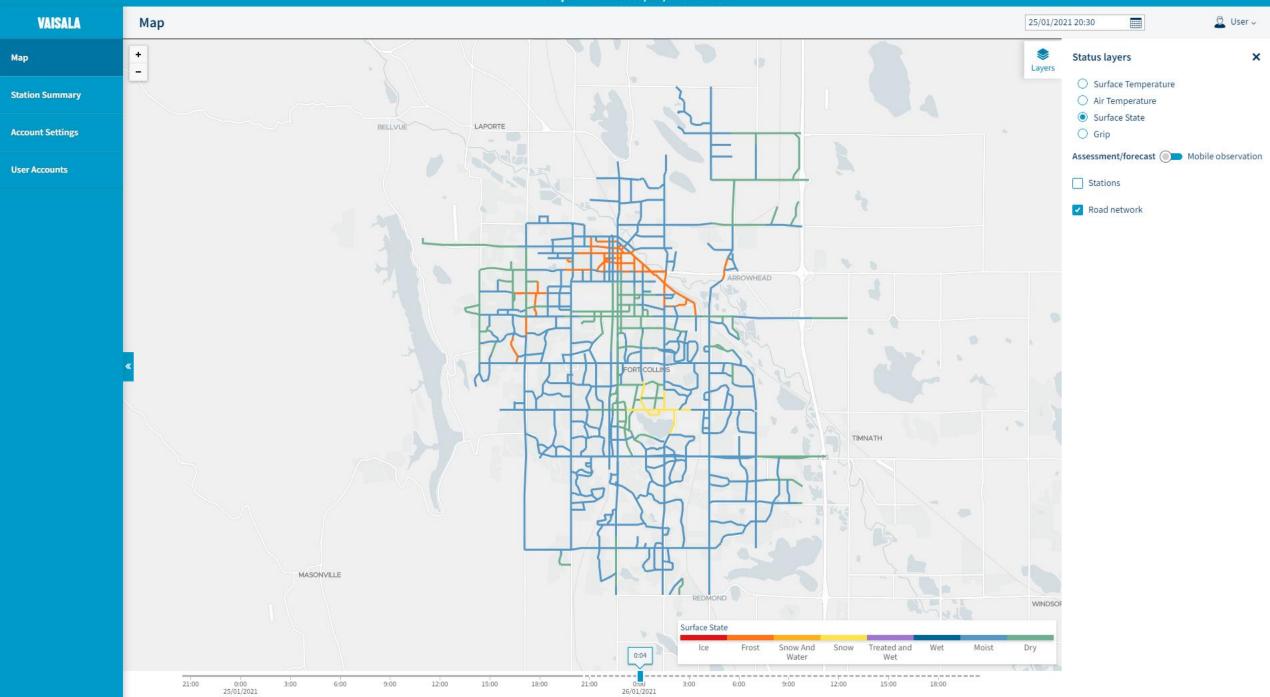
Targeted Treatments

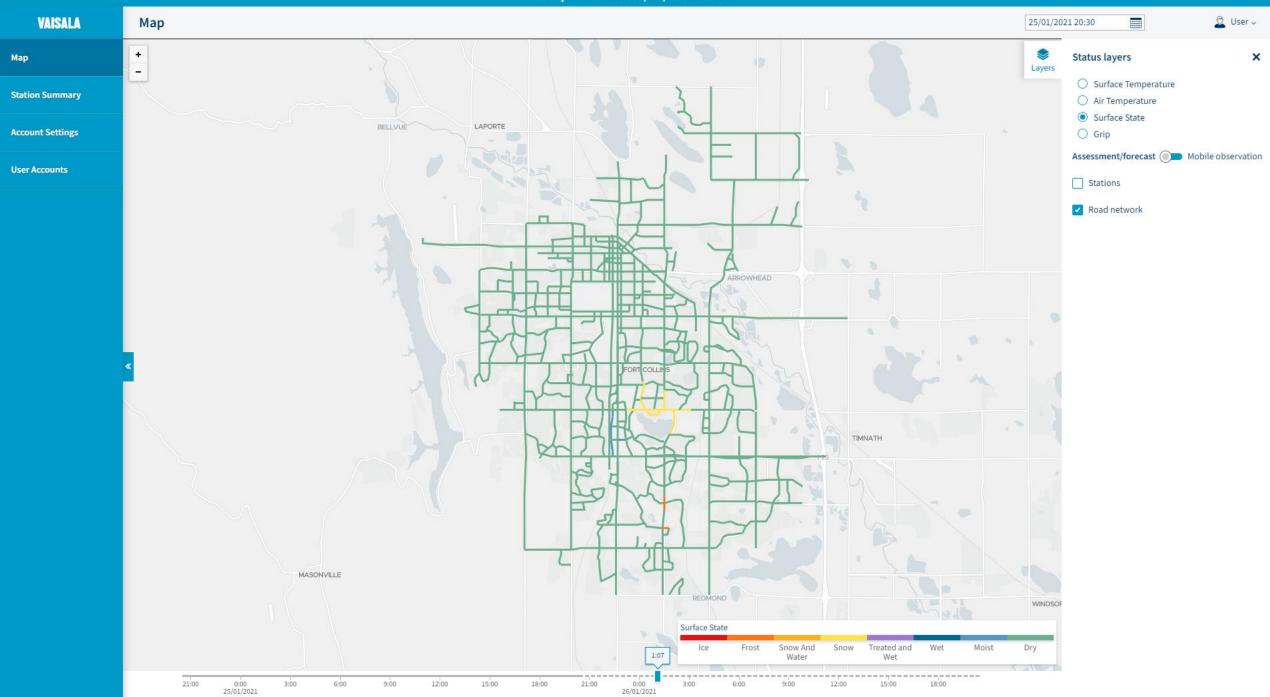
I need to know the optimal time to plow or treat my network in accordance with my published policy and stakeholder commitments

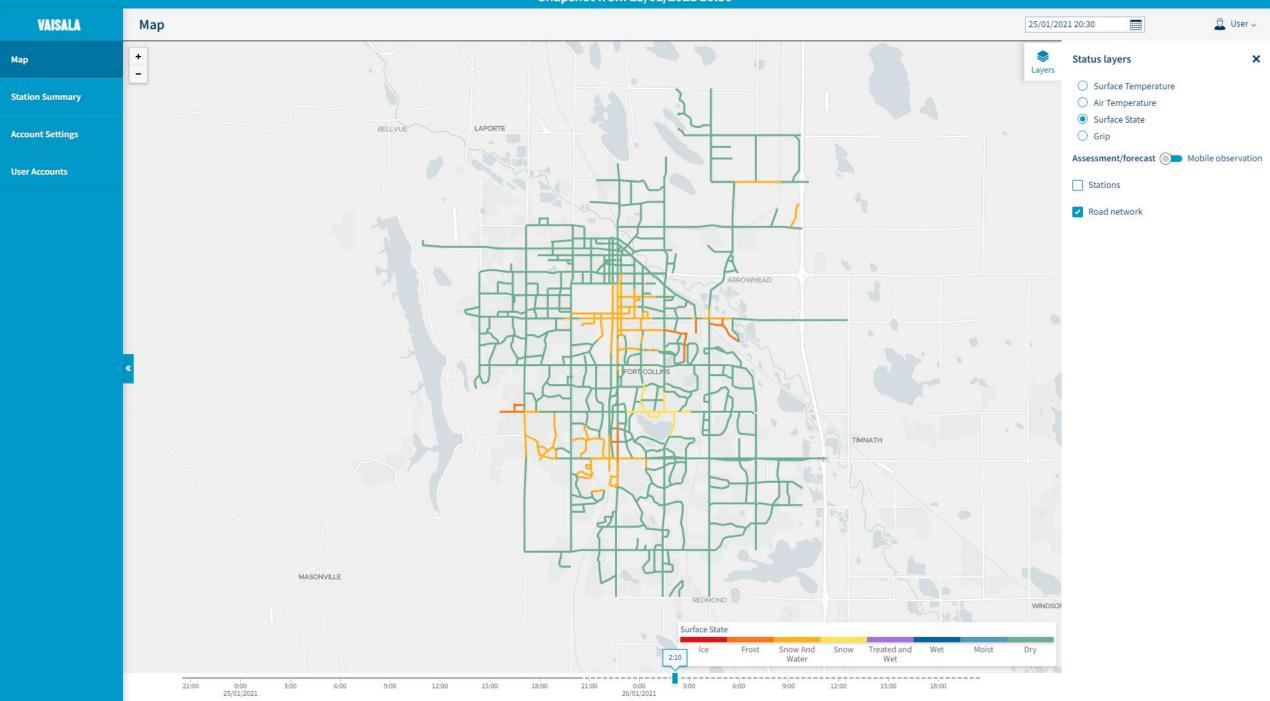


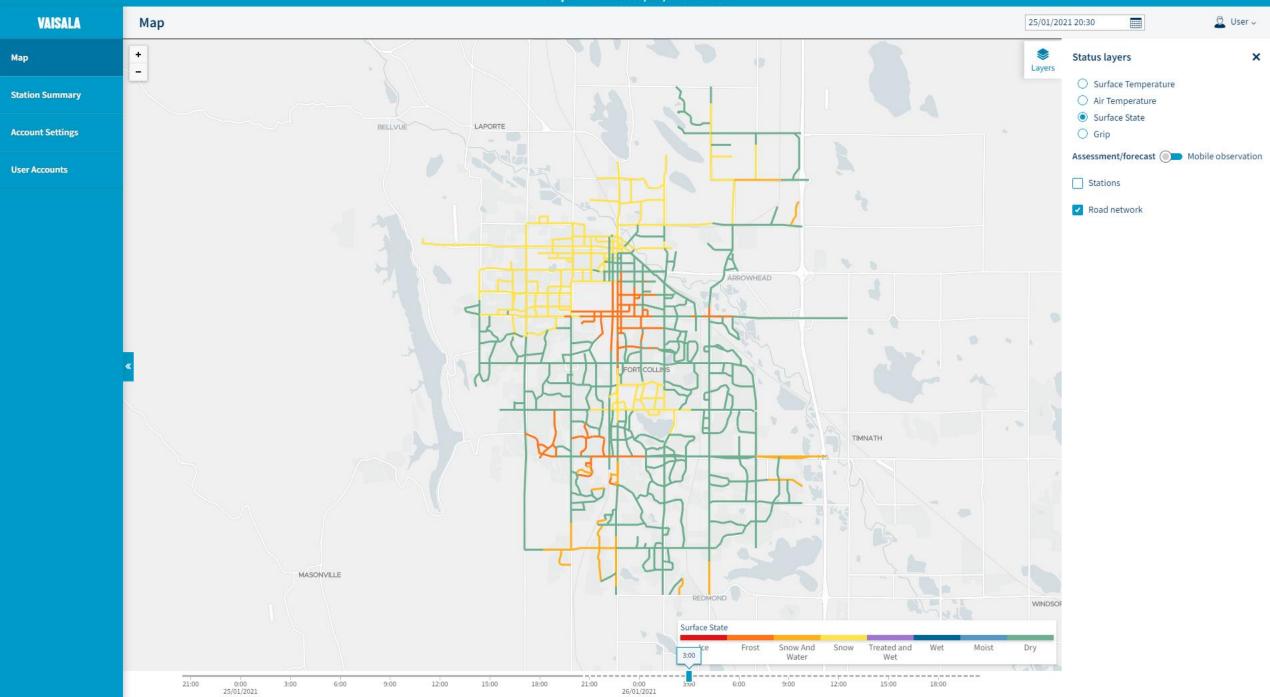


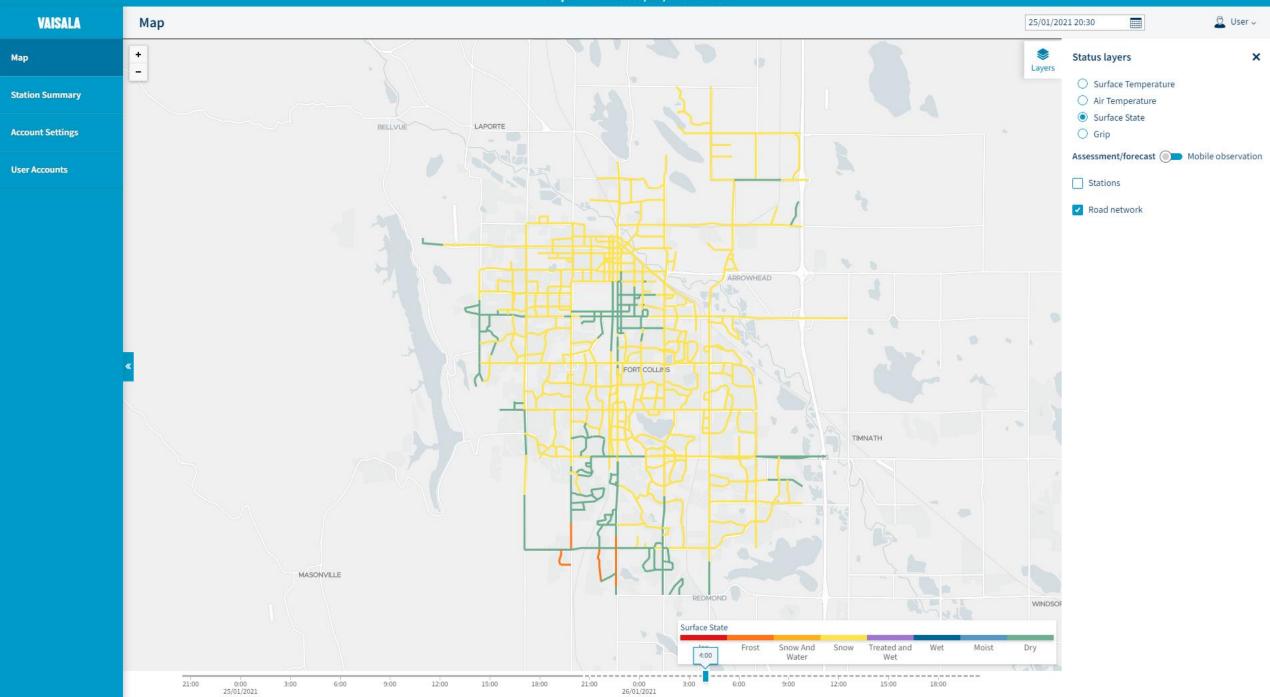


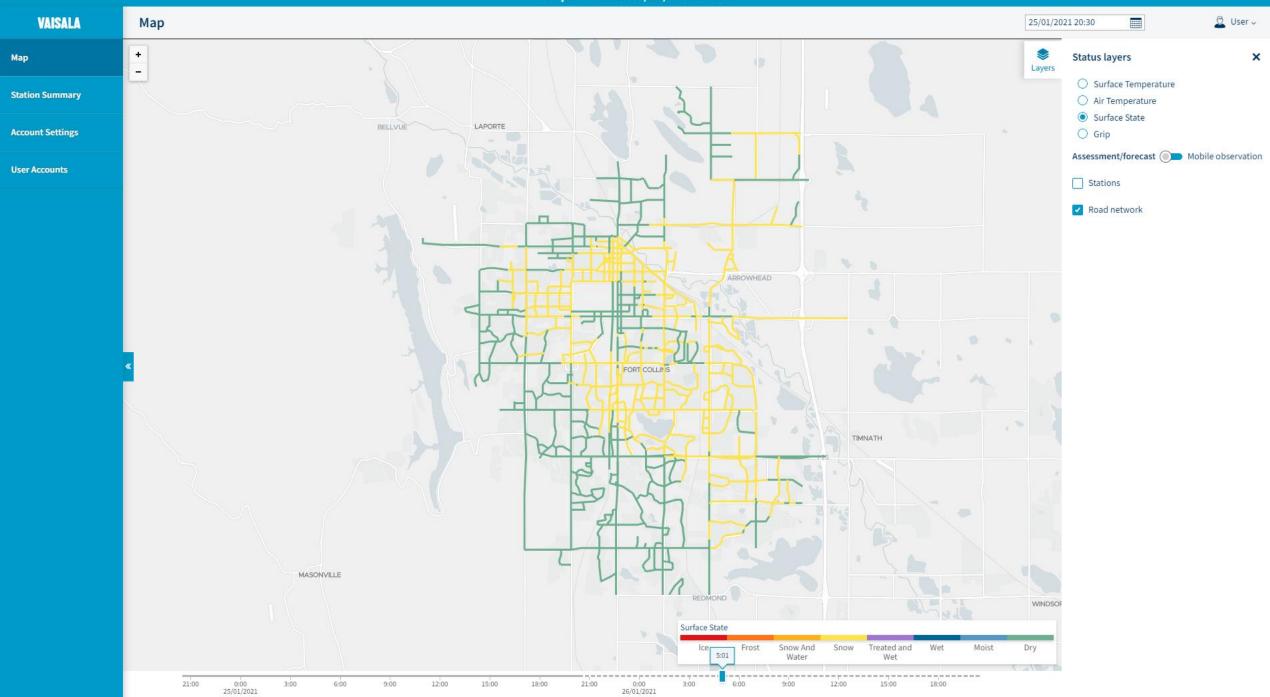


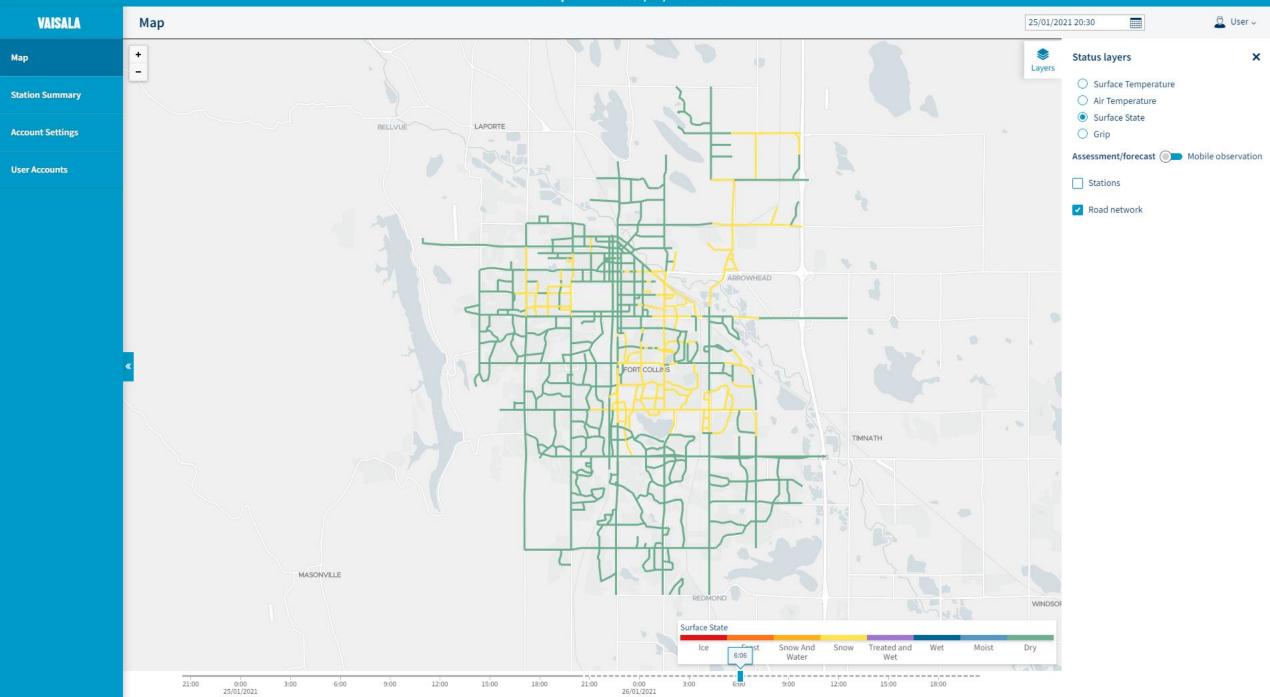












Customer Driven

Future Developments

Future Developments

- Impact Maps
- Alerting
- Recommendations





VAISALA