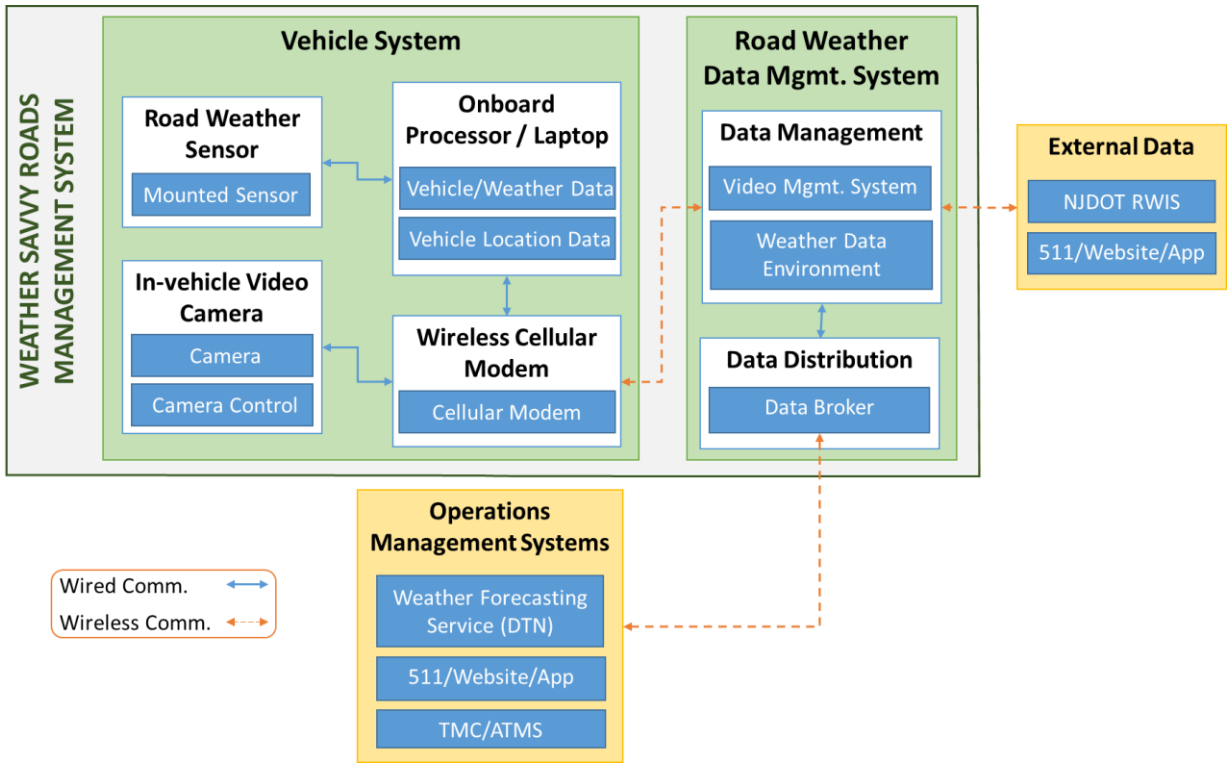

Figure 1. Functional diagram of the pilot WRTMS (Weather-Responsive Traffic Management System) deployment for the NJ Weather Savvy Roads project

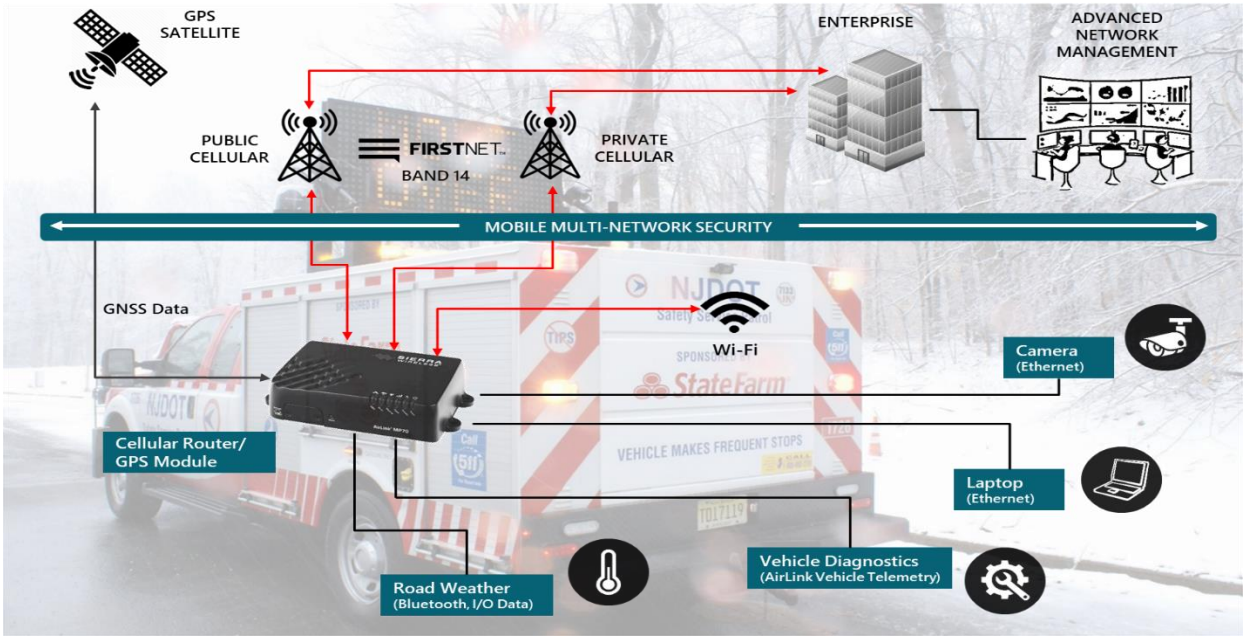

Figure 2. System design schematic for NJ Weather Savvy Roads pilot deployment

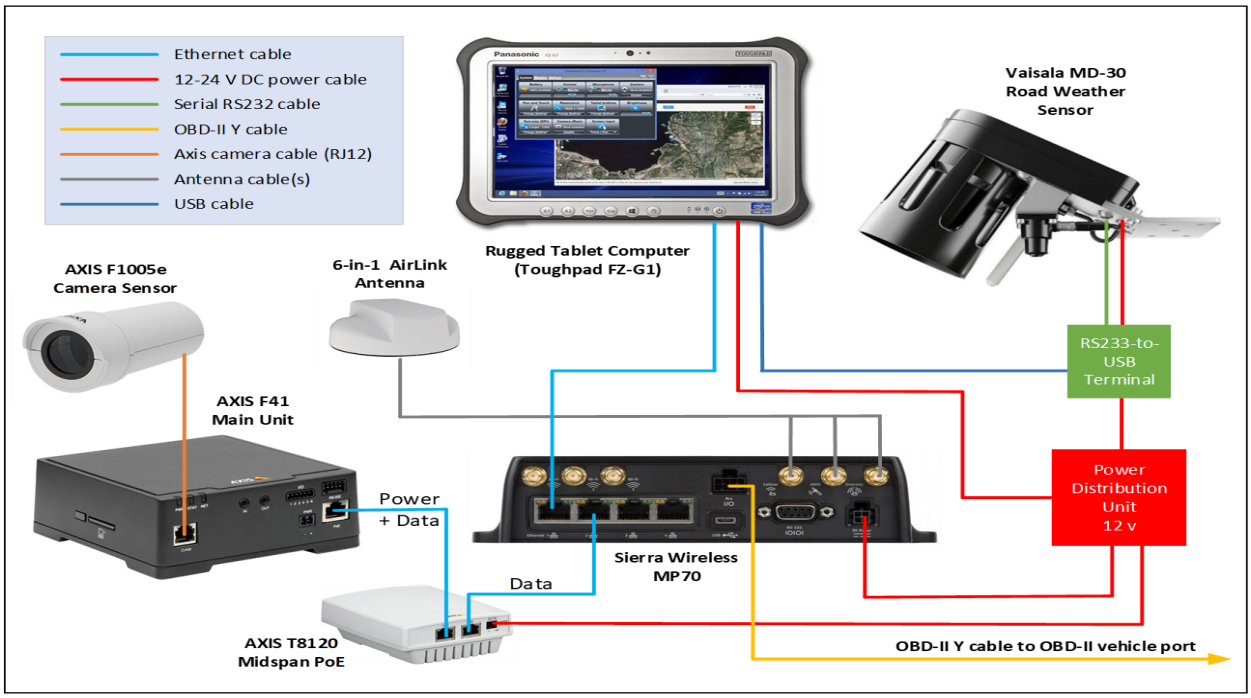

Figure 3. Weather Savvy in-vehicle system wiring diagram

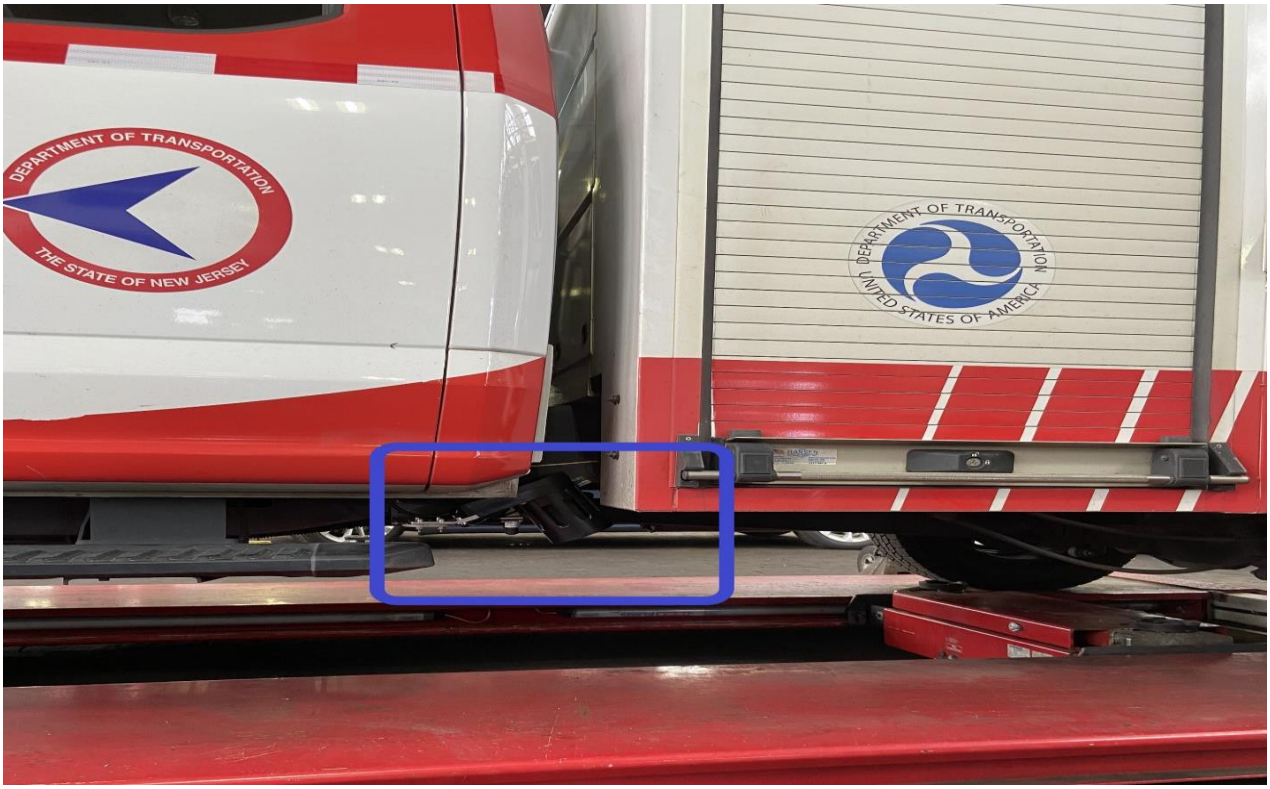

Figure 4. Location of the road surface temperature and condition sensor installed under the cab of an SSP (Safety Service Patrol) truck

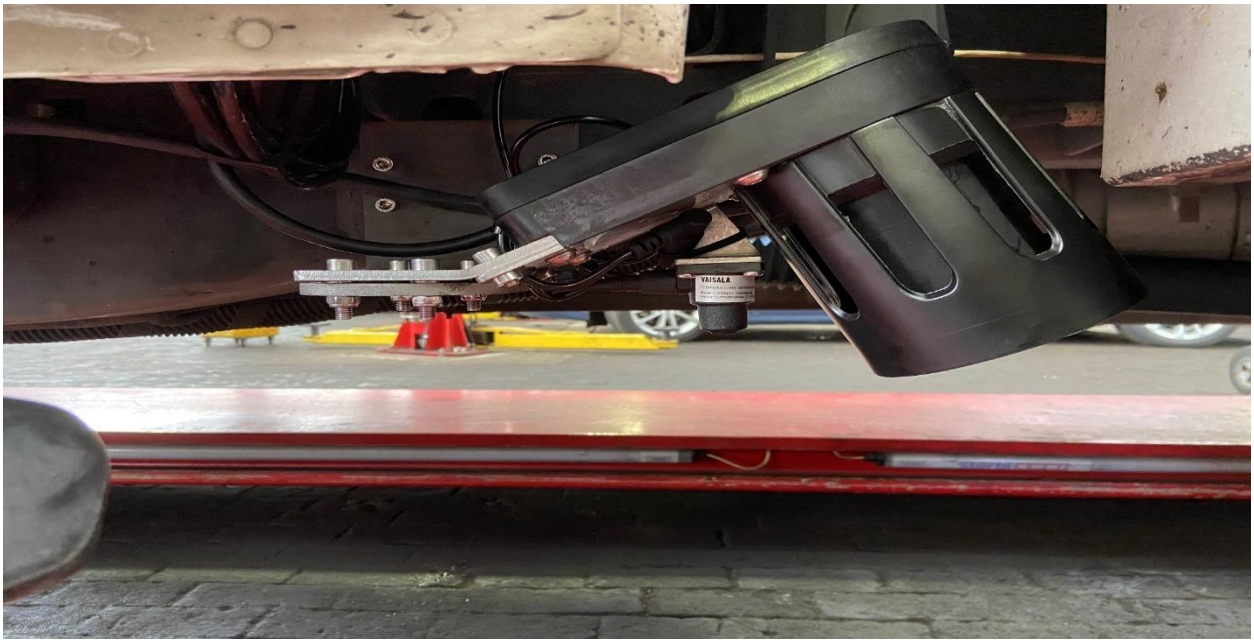

Figure 5. Closeup of the road surface temperature and condition sensor installed under the cab of an SSP truck

Figure 6. Air temperature and humidity (ambient weather) sensor installed on an SSP truck (attached to the base of the message board frame on the roof of the vehicle)

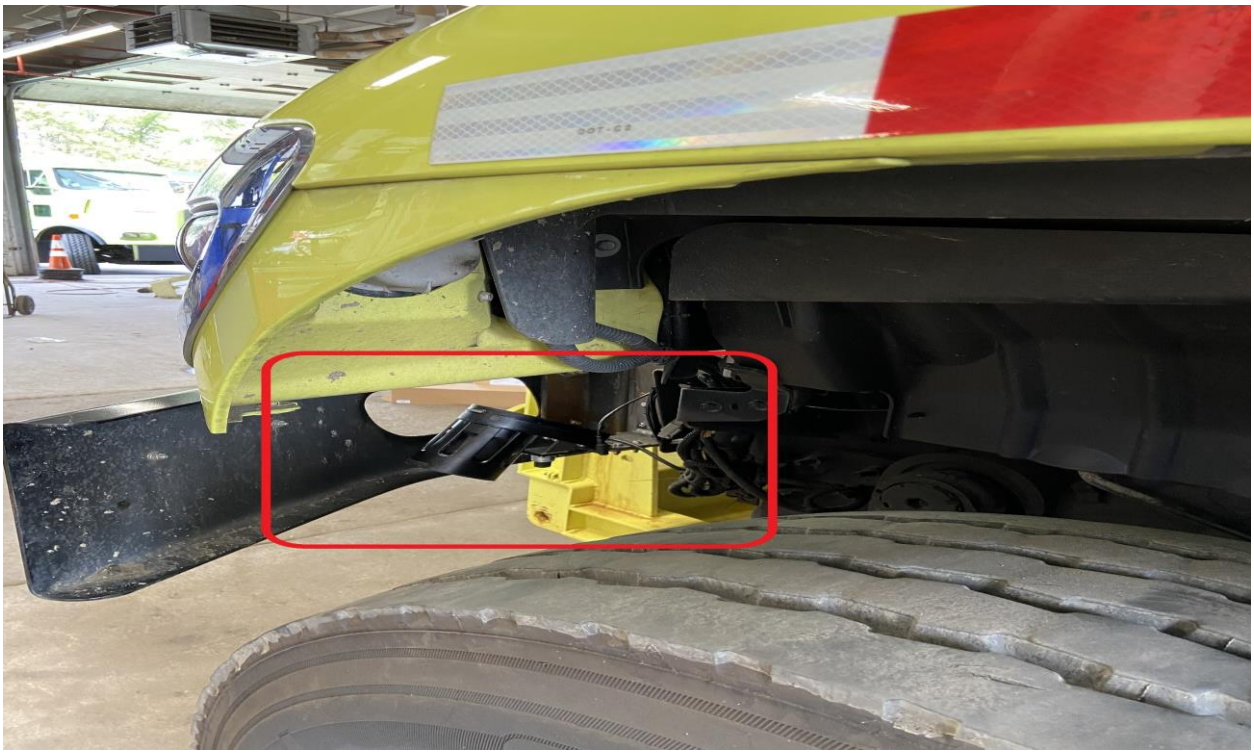

Figure 7. Location of the road surface temperature and condition sensor installed on the front bumper of a plow truck

Figure 8. Air temperature and humidity (ambient weather) sensor installed at the back of the cab on a plow truck

Figure 9. Windshield camera and the tablet computer installed in the cab of a plow truck

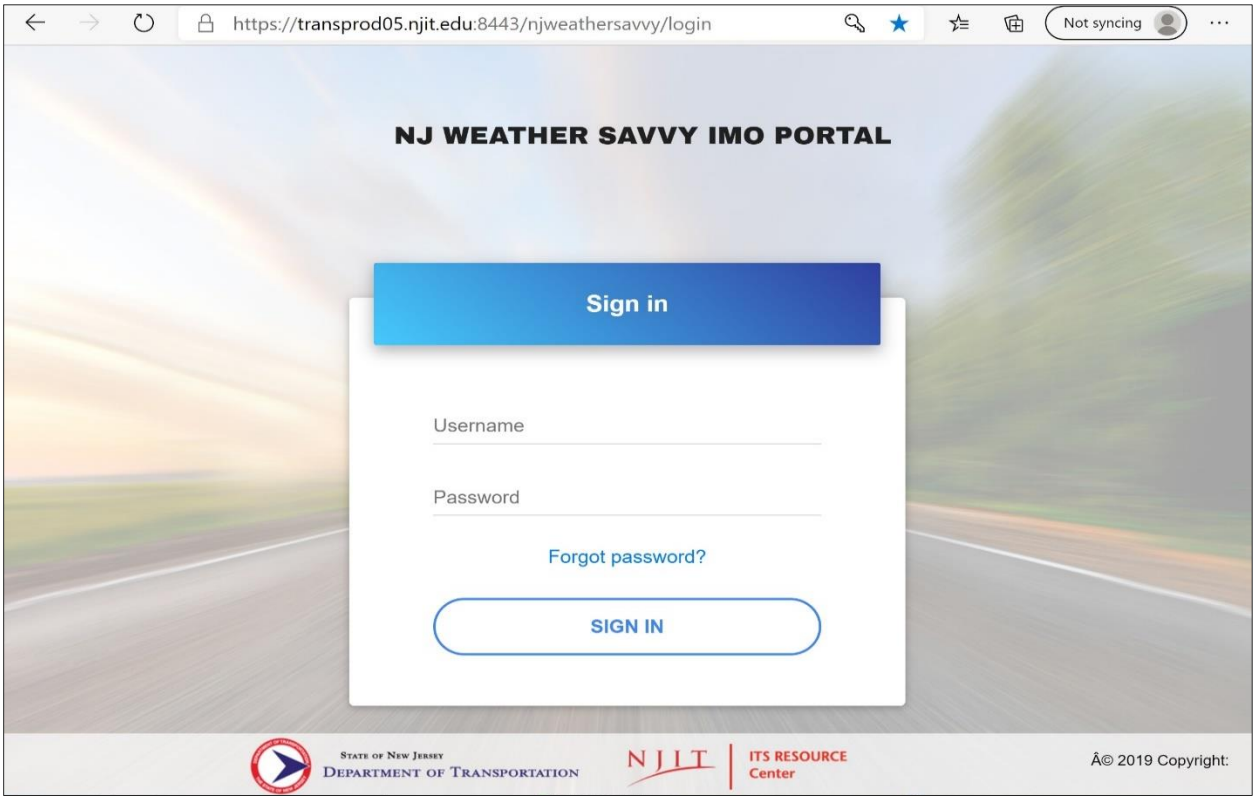

Figure 10. NJ Weather Savvy web-based portal login page

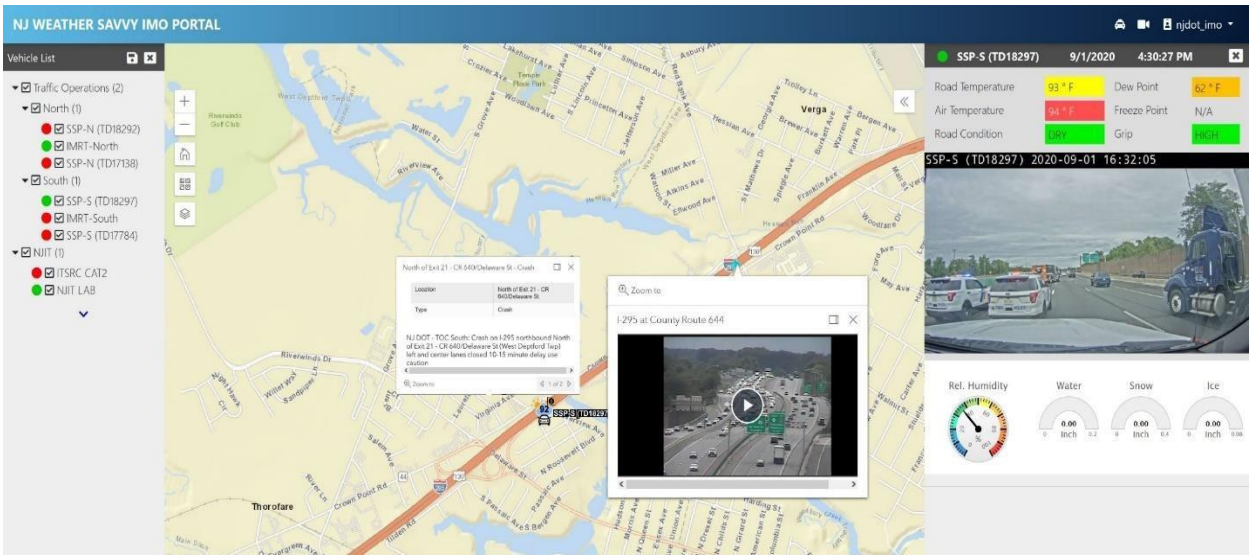

Figure 11. Screenshot of the System Map from the NJ Weather Savvy web-based portal

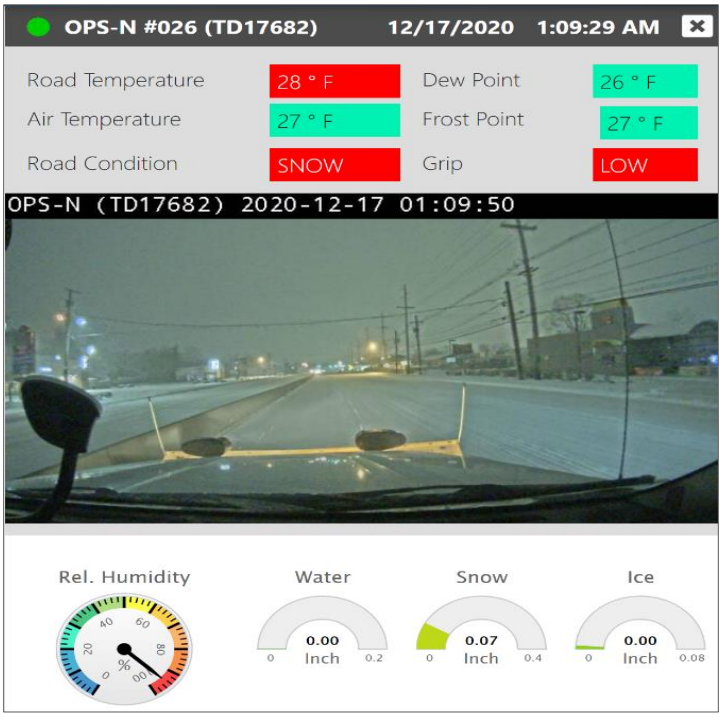

Figure 12. Screenshot of the Vehicle Dashboard from the NJ Weather Savvy web-based portal

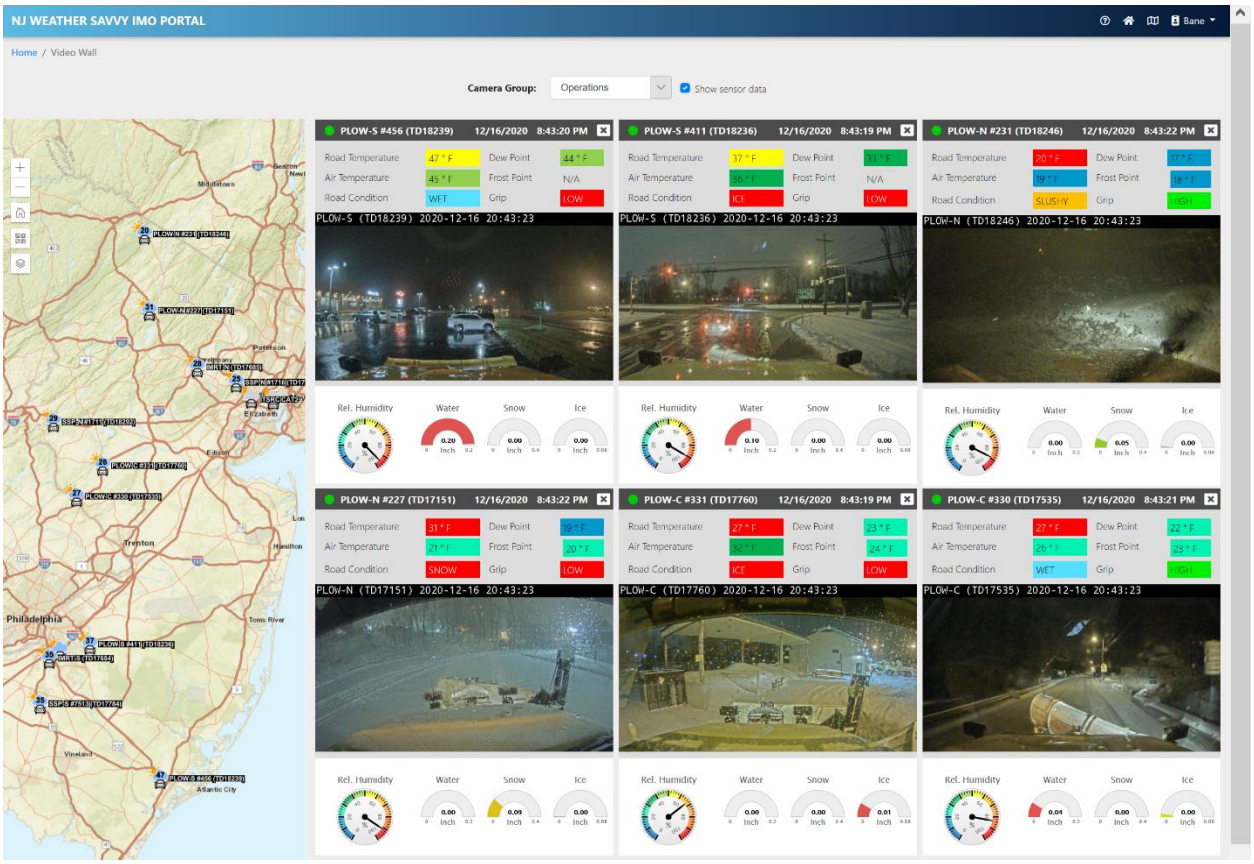

Figure 13. Screenshot of the Virtual Video Wall (with the system map) from the NJ Weather Savvy web-based portal (December 16-17, 2020 snowstorm)

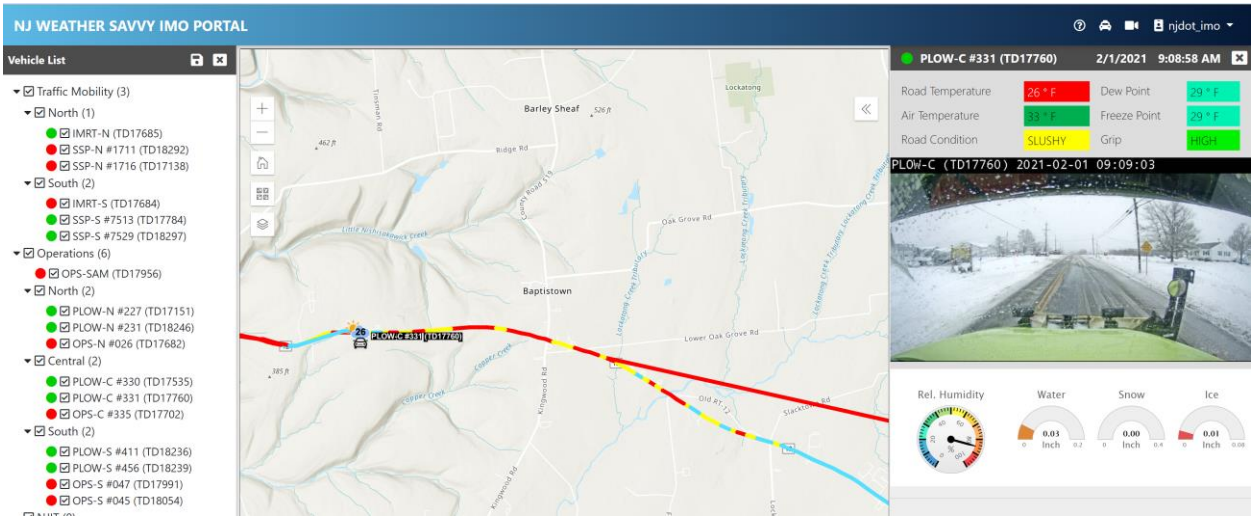

Figure 14. Screenshot #1 of the vehicle map and dashboard from the NJ Weather Savvy web-based portal (January 31 – February 2, 2021 snowstorm)

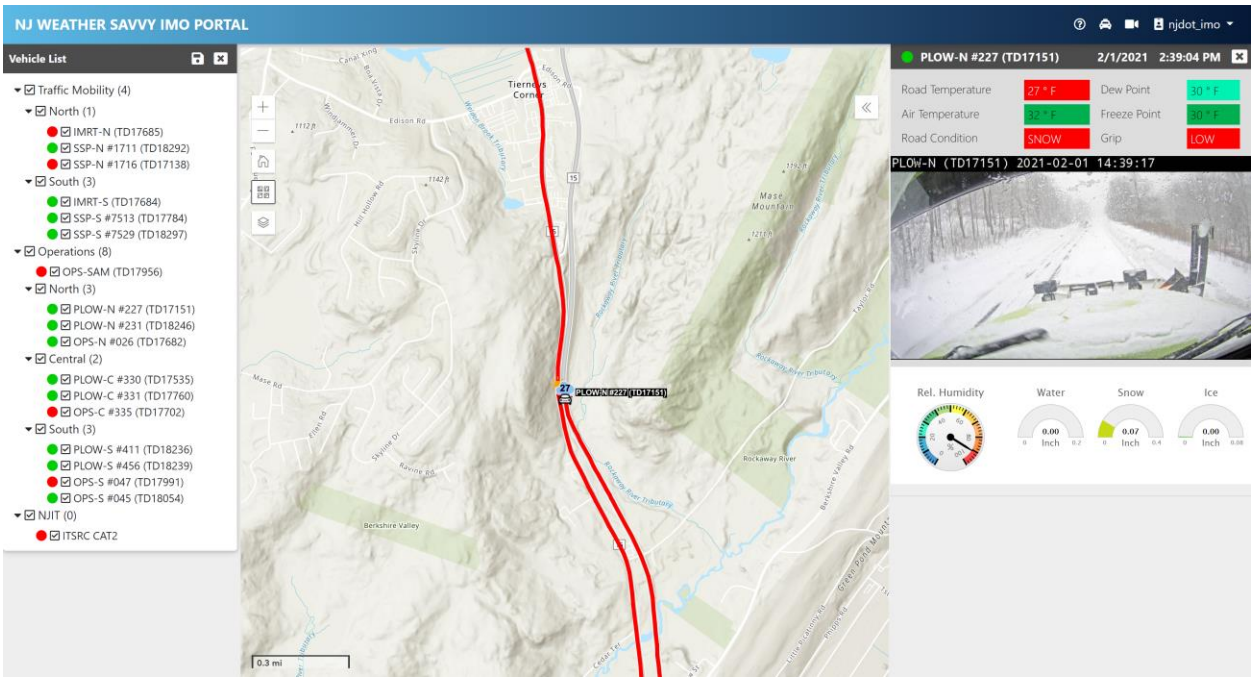

Figure 15. Screenshot #2 of the vehicle map and dashboard from the NJ Weather Savvy web-based portal (January 31 – February 2, 2021 snowstorm)

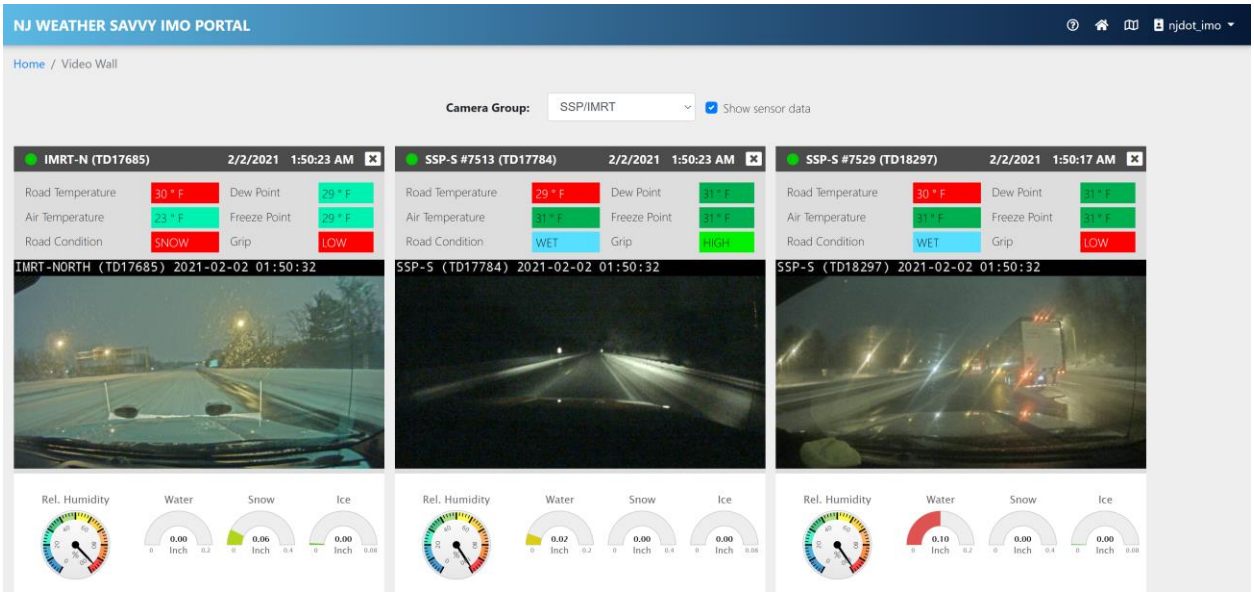

Figure 16. Screenshot of the Virtual Video Wall from the NJ Weather Savvy web-based portal (January 31 – February 2, 2021 snowstorm)