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Background

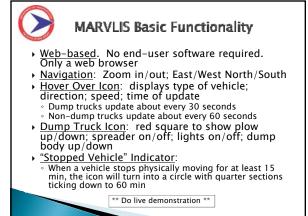
- Why we needed a new system:
 - Better allocation and control of NJDOT resources
 - Ability to "playback" the location of our resources
 - Improve the collaborate with NJSP and other state agencies in an emergency
- Capitalized on the NJSP new state wide "P-25" communication system that was being installed by Motorola.









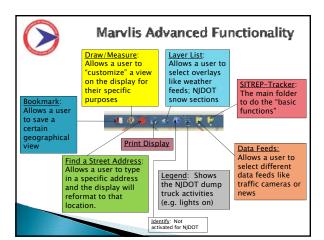




MARVLIS Basic Functionality

- Search for a Vehicle. Allows a user to find the current location of a vehicle
- Playback Feature. Allows a user to replay the route a vehicle took for a select period of time
- Location Report. Allows a user to extract the exact locations a vehicle was for a select period time. Can be exported to Excel

** Do live demonstration **





User Rights and Access

- LEVEL 1: System Administrators. 4 DOT and 2 NJ State Police Personnel
 - Full access to add/delete accounts; perform special queries; modify icons; adjust timing settings; etc.
- LEVEL 2: Operations Management; Traffic Systems Management; Area Supervisors
 - State-wide views to all types of vehicles; full ability to do playback and location reports
- LEVEL 3: Crew Supervisors and below
 - Regional view; playback of their area vehicles only



System Use and Potential

- Emergency Operations/Snow fighting:
- "MARVLIS/Radio operators" staff our Regional Emergency **Operating Centers**
- Function as the "eye in the sky" to Area and Crew supervisors. Can assist in diverting resources from one area to another area
- Provide "real time" situation reports to NJDOT leadership
- Regular Operations:

 Passively monitor NJDOT vehicle activity. (e.g. "Where in NJ is the Commissioner right now?")
- Deters crews from improper use of vehicles
- Verification tool to prove or disprove NJDOT vehicle location or activity (e.g. "I saw an NJDOT truck speeding on I–80 today")



Other Information

- NJDOT will install radio/GPS in every vehicle in entire fleet where feasible
- We have experienced installation/roll out challenges
 - · Needed customized cabling for some trucks
 - Software glitches and system performance issues needed to be resolved by Motorola
- NJSP and NJDOT do not plan on making this public information because it is behind the NJSP firewall for security purposes