

### Regionwide collaboration among Southern Nevada agencies



















### Current Transportation ecosystem



Road Infrastructure is outdated and relies on old legacy systems.



Inter-agency **communication** and collaboration is poor.



Transportation agencies have limited access to advanced analytics.



Updating public infrastructure is very expensive.







### Cloud architecture allows multiple agencies and drivers on the road to connect









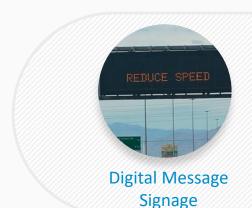


Traffic Control

Freeway Service Patrol

Law Enforcement

Emergency Services









Social Media



In-vehicle applications









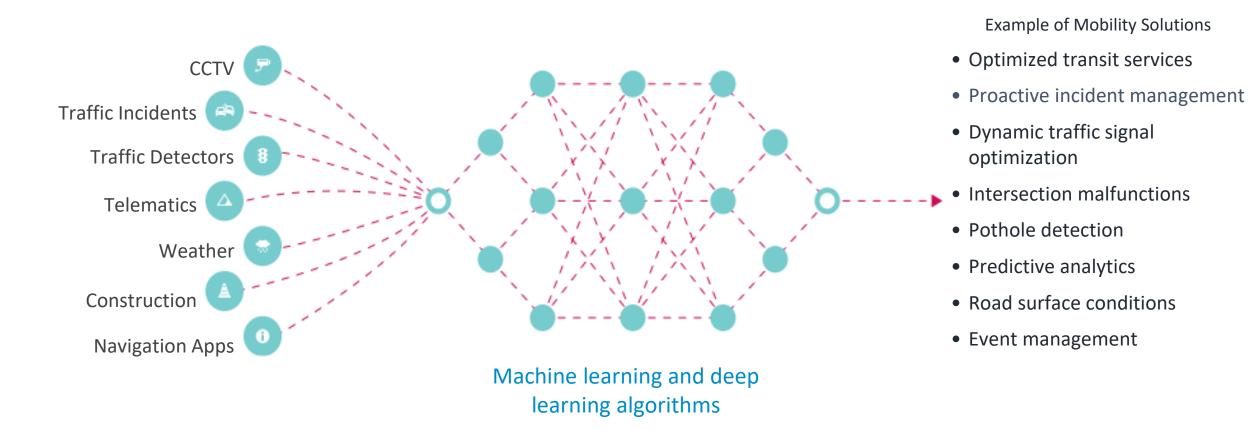
# Our challenge is not gathering more data, but rather how to effectively and efficiently turn data to information to <u>insights</u>







## Artificial intelligence and mobility data sources help unlock key insights to improve traffic safety and capacity on our roads









#### External data sources





























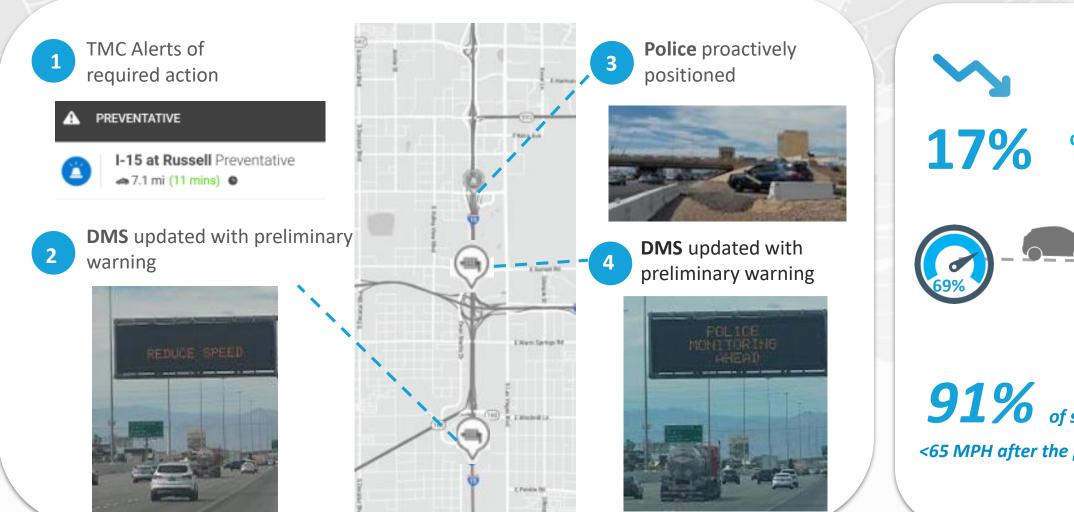


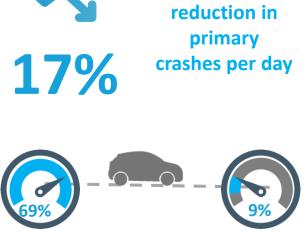






#### Al & Deep learning allowed RTC, NDOT, and NHP to proactively deploy preventative measures to reduce primary crashes on I-15





**91%** of speeding drivers <65 MPH after the preventative site



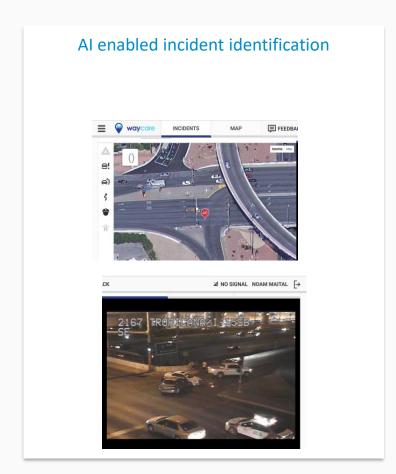


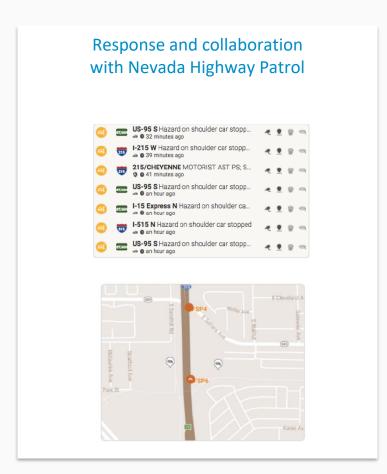


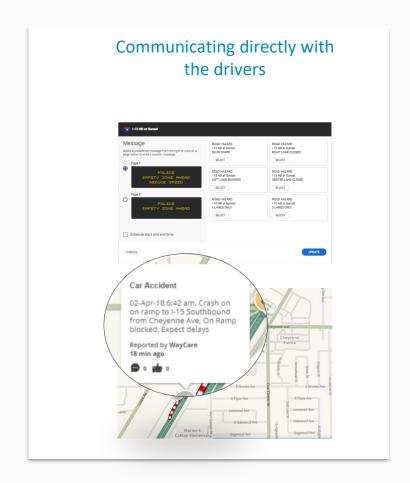




### Automated incident identification





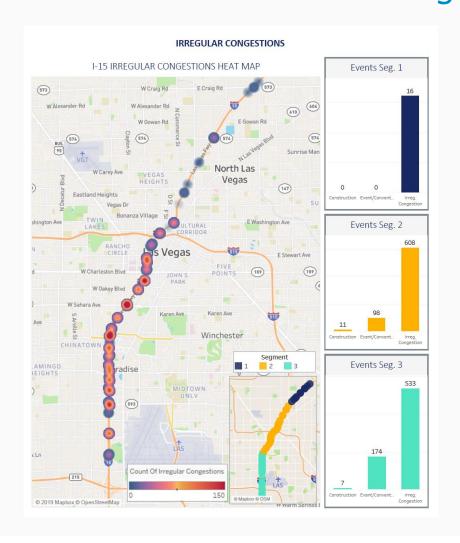


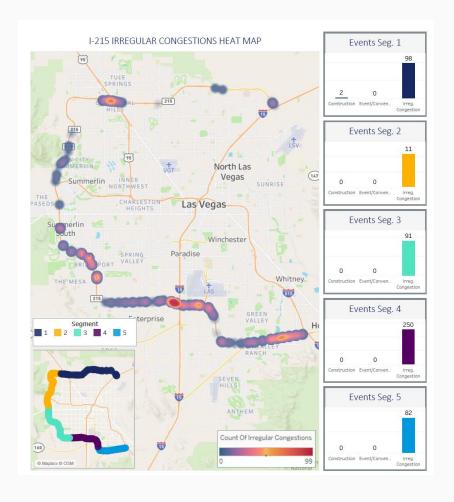






## In-vehicle data combined with AI provides new insights on <u>irregular</u> congestion patterns











Adoption of autonomous vehicles will be contingent on the public sector managing the mobility ecosystem. NDOT is taking an incremental approach allowing for iterations along the way

