



# ***NEVADA TRAFFIC INCIDENT MANAGEMENT PROGRAM***

## ***SUCCESSSES AND LESSONS LEARNED***

**TRAFFIC OPERATIONS DIVISION  
NOCOE PRESENTATION  
APRIL 2019**







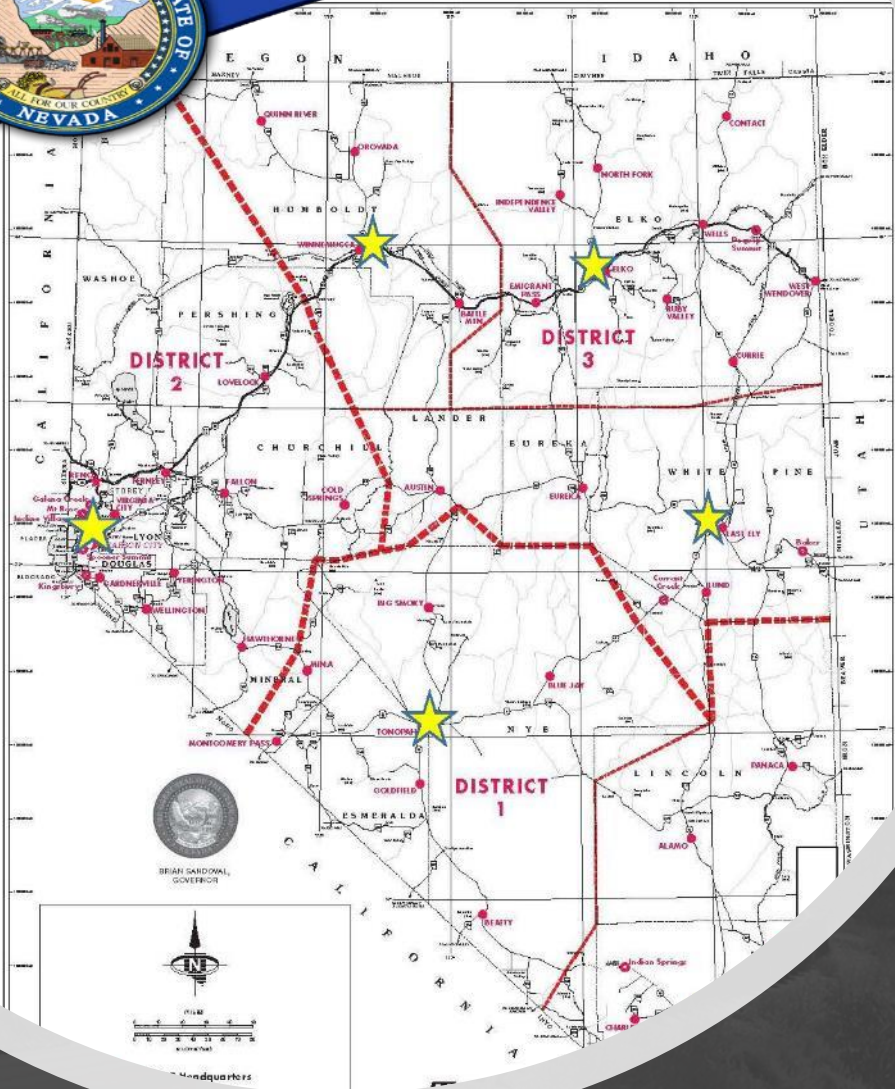
# AGENDA

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- **NV TIM Program Overview**
- **Capturing Consistent SHRP2 TIM Performance Metrics**
- **Conducting Full Scale Training Exercises at Conventions**
- **Improving Cross Agency Collaboration with Data**







# NEVADA TIM PROGRAM

- 6 TIM Coalitions throughout the State
- Bi-monthly TIM meetings
- 1,200 First Responder Members
- 54% of Nevada's first responders trained
- Statewide Open Road Policy in 2017
- Open Road Agreements with multiple agencies
- Wrote multiagency TIM Legislation (2017)
- Conducted 2 large scale first responder training exercises (2017, 2018)





# TIM Performance Metrics

## 1. Roadway Clearance Time:

- Time between first recordable awareness of an incident by a responding agency and first confirmation that all lanes are available for traffic flow.

## 2. Incident Clearance Time:

- Time between first recordable awareness of incident by a responding agency and time at which the last responder has left the scene.

## 3. Secondary Crash Data:

- A crash occurring within an incident scene or within a traffic queue, including opposite direction, resulting from an original incident. The original incident can be a collision, a disabled motorist, vehicles on the side of the road or any circumstance causing traffic backup as long as it played a role in distracting the driver or the causation in the incident.





# CAPTURING CONSISTENT SHRP2 METRICS

1. Roadway Clearance Time?

2. Incident Clearance Time?

3. Is This a Secondary Collision?

Event Number:		<b>STATE OF NEVADA TRAFFIC CRASH REPORT SCENE INFORMATION SHEET Revised 09/2017</b>			Crash Number:		Scene Information			
Code Revision: 01/01/2016										
<input type="checkbox"/> 1) Urban <input type="checkbox"/> 2) Rural	<input type="checkbox"/> 1) Emergency Use <input type="checkbox"/> 2) Office Report	<input type="checkbox"/> 1) Preliminary Report <input type="checkbox"/> 2) Initial Report	<input type="checkbox"/> 3) Resubmission <input type="checkbox"/> 4) Supplement Report	<input type="checkbox"/> 1) Hit and Run <input type="checkbox"/> 2) Private Property	<input type="checkbox"/> 1) Property <input type="checkbox"/> 2) Injury <input type="checkbox"/> 3) Fatal		Agency Name:			
Crash Date	Time	Day	Beat / Sector	<input type="checkbox"/> 1) County <input type="checkbox"/> 2) City						
<input type="checkbox"/> <b>Is this a Secondary Collision?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> <b>Roadway Clearance Time:</b>			<input type="checkbox"/> <b>Incident Clearance Time:</b>					
Mile Marker	# Vehicles	# Non Motorists	# Occupants	# Fatalities	# Injured	# Restrained				
Occurred On: <i>(Highway # or Street Name)</i> <input type="checkbox"/> 1) Parking Lot <input type="checkbox"/> 2) Active School Zone										
<input type="checkbox"/> 1) At Intersection With:										
<input type="checkbox"/> 2) Or		<input type="checkbox"/> 3) Feet <input type="checkbox"/> 4) Miles <input type="checkbox"/> 5) Approximate		Of (Cross Street)						
<b>Roadway Character</b>		<b>Roadway Conditions</b>		<b>Surface</b>	<b>Intersection</b>		<b>Total Thru Lanes</b>	<b>Access Control</b>		
<input type="checkbox"/> 1) Curve & Grade <input type="checkbox"/> 2) Curve & Hillcrest <input type="checkbox"/> 3) Curve & Level <input type="checkbox"/> 4) Straight & Grade <input type="checkbox"/> 5) Straight & Hillcrest <input type="checkbox"/> 6) Straight & Level <input type="checkbox"/> 7) Unknown <input type="checkbox"/> 8) Other		<input type="checkbox"/> 1) Dry <input type="checkbox"/> 2) Icy <input type="checkbox"/> 3) Wet <input type="checkbox"/> 4) Snow <input type="checkbox"/> 5) Sand / Mud/ Dirt / Gravel <input type="checkbox"/> 6) Other		<input type="checkbox"/> 7) Slush <input type="checkbox"/> 8) Standing Water <input type="checkbox"/> 9) Moving Water <input type="checkbox"/> 10) Unknown <input type="checkbox"/> 11) Oil	<input type="checkbox"/> 1) Asphalt <input type="checkbox"/> 2) Concrete <input type="checkbox"/> 3) Gravel <input type="checkbox"/> 4) Dirt <input type="checkbox"/> 5) Other	<input type="checkbox"/> 1) Four Way <input type="checkbox"/> 2) > Four Way <input type="checkbox"/> 3) T <input type="checkbox"/> 6) Other <input type="checkbox"/> 4) Y <input type="checkbox"/> 5) Roundabout <input type="checkbox"/> 7) L		<input type="checkbox"/> 1) One <input type="checkbox"/> 2) Two <input type="checkbox"/> 3) Three <input type="checkbox"/> 4) Four Total All Lanes: _____	<input type="checkbox"/> 1) None <input type="checkbox"/> 2) Full <input type="checkbox"/> 3) Partial	
Pavement Markings				Roadway Description			Weather Conditions			







# CONDUCTING FULL SCALE TRAINING EXERCISES

NV Annual Safety Summit

- 4HR SHRP2 training followed by
- Narrated full scale multi agency demonstration





## TRAINING SCENARIOS

- 4 total vehicles involved in the incident.
- A passenger vehicle traveling on I-15 in the #2 travel lane had a single vehicle accident.
- The vehicle comes to rest against the jersey wall.
- A secondary accident involves a box truck and 2 other vehicles.
- Multiple subjects trapped in the vehicles.







# Lessons Learned

- Review policy and procedures and assist law enforcement in writing agency recommendations regarding vests, etc.
- Additional multiagency training requested by all agencies.
- Schedule hard funds for future training and plan 12-18 months ahead.







# COLLABORATING WITH DATA

- NDOT and Local Agencies use the data for:
  - safety and engineering design
  - road assessment audits
  - analyze crashes
  - maintenance staffing needs
- Law Enforcement uses crash data to:
  - determine enforcement needs and improvement areas
- TIM Coalitions use crash data to:
  - Measure and identify program deficiencies





# COLLABORATING WITH DATA

## TIM Stakeholders Co-located










- NDOT
- SNV RTC
- Highway Patrol
- Freeway Service Patrol







# Leveraging machine learning applications for traffic optimization and traffic safety

-  Road camera feeds
-  Localized weather data
-  Construction
-  Traffic crashes & incidents
-  Telematics
-  Events
-  Inductive loop traffic detectors
-  Navigation apps
-  Public Transit

**More data  
means better  
insights**

City



20GB

Waycare










200GB

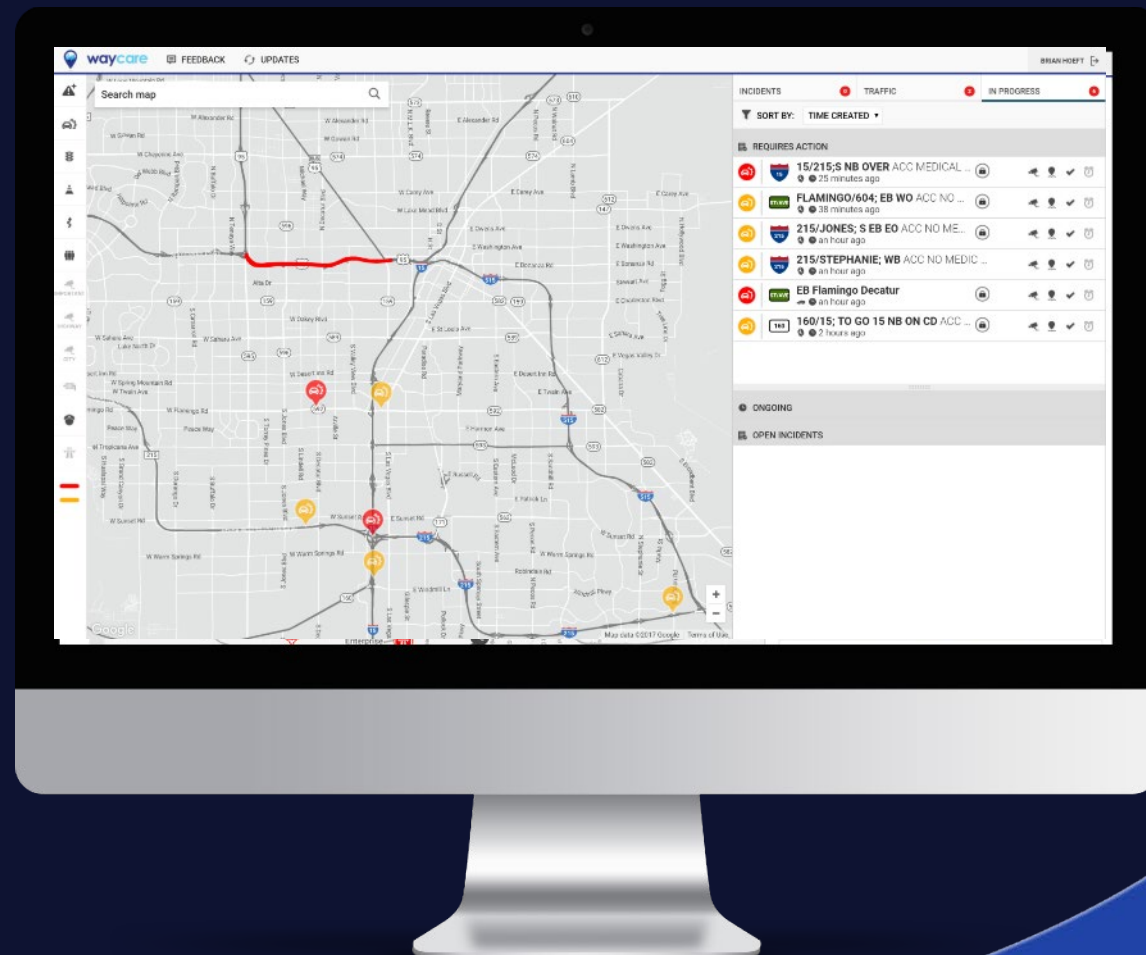
Average daily data currently collected from city infrastructure vs. Waycare's synthesized data sources





# Waycare Platform Services

-  Automated incident detection
-  Predictive analytics for proactive incident prevention
-  Cross agency collaboration
-  Incident Log Management
-  Unified data collection
-  Dynamic traffic flow analysis
-  First Responder Fleet Management







# Leveraging Waycare for Cross Agency Collaboration

Law Enforcement



Freeway Service Patrol



Traffic Management Center  
Waycare Platform System



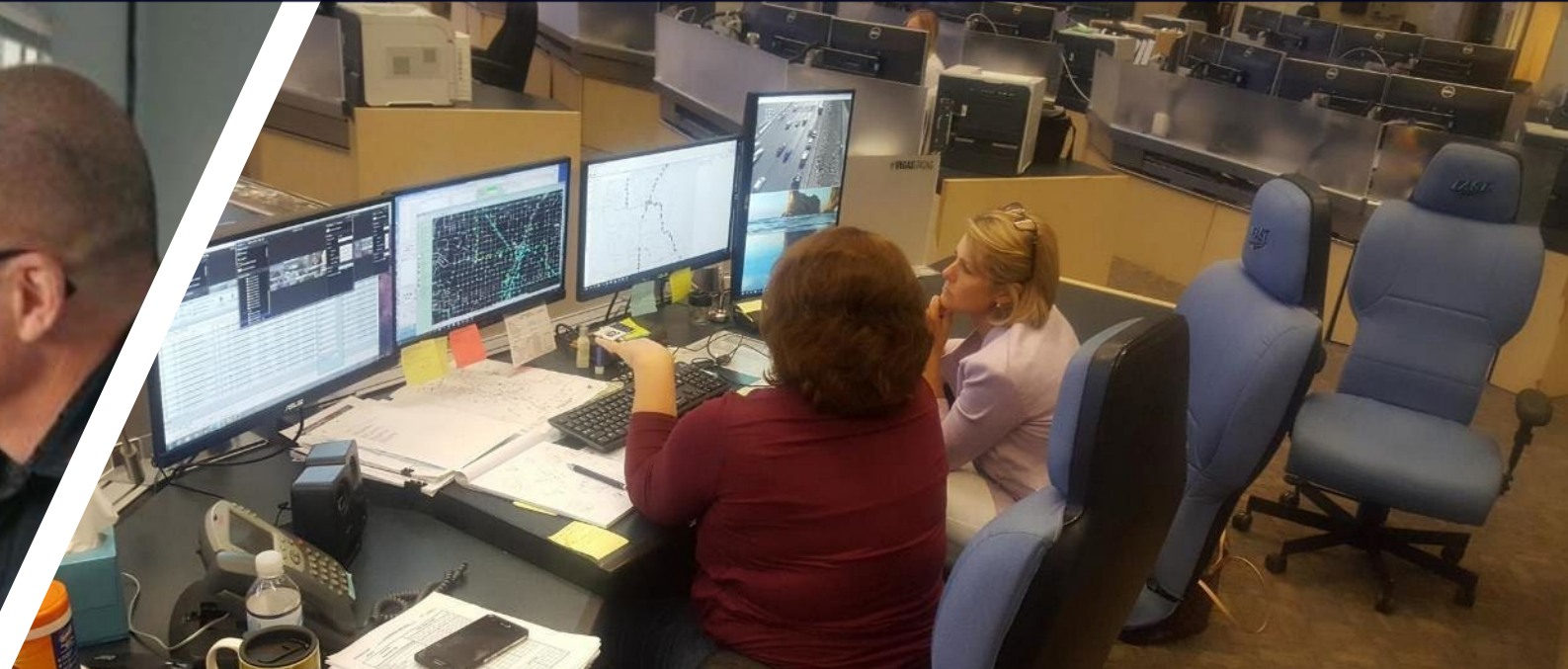
Crowd Source Data



Telematic Data







BRIAN HOEF

INCIDENTS 1 TRAFFIC 1 IN PROGRESS

▼ SORT BY: TIME CREATED ▼

REQUIRES ACTION

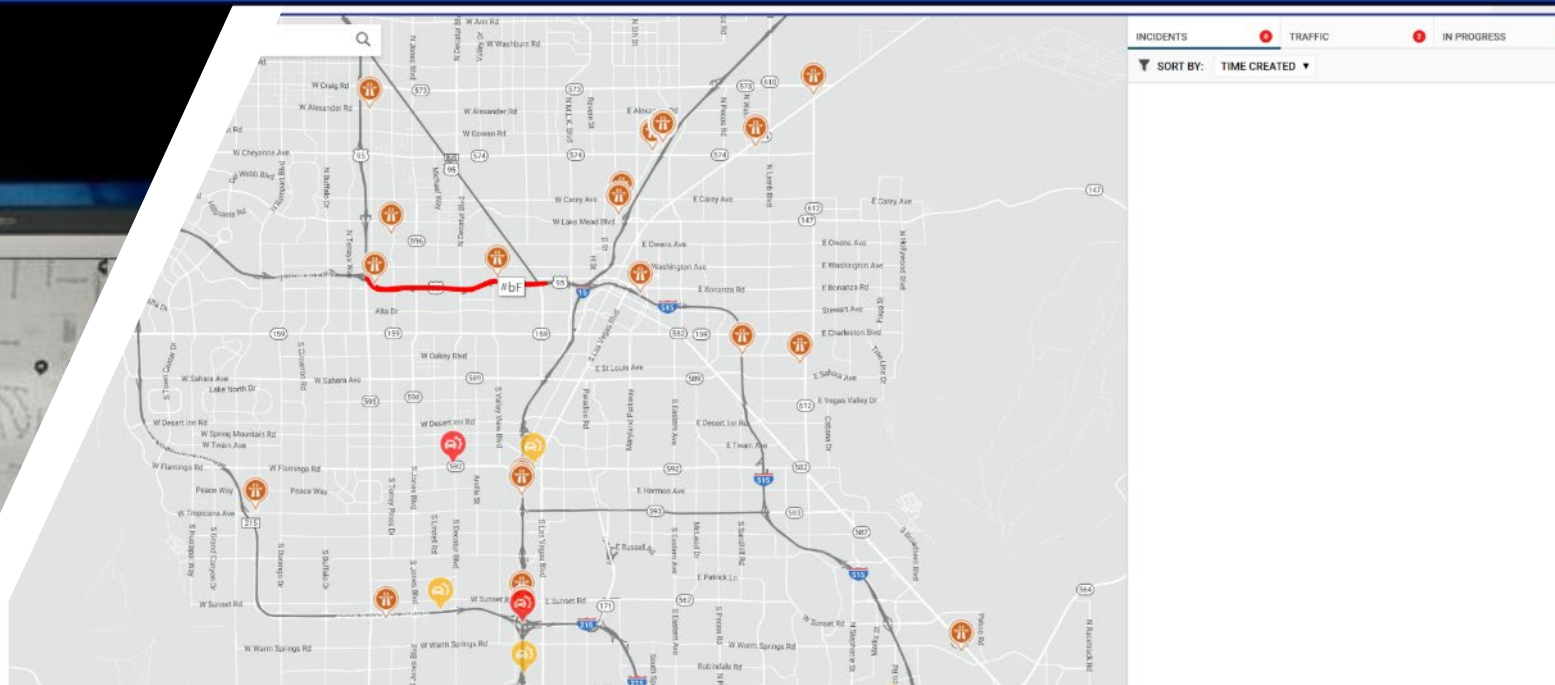
- 15/215;S NB OVER ACC MEDICAL ... 25 minutes ago
- FLAMINGO/604; EB WO ACC NO ... 38 minutes ago
- 215/JONES; S EB EO ACC NO ME... an hour ago
- 215/STEPHANIE; WB ACC NO MEDIC... an hour ago
- EB Flamingo Decatur an hour ago
- 160/15; TO GO 15 NB ON CD ACC... 2 hours ago

ONGOING

OPEN INCIDENTS











# Thank You!

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For questions or comments please contact:

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