



U.S. Department of Transportation

AASHTO

# Increasing Worker and Driver Safety through Access to Work Zone Data

*Virtual Event  
May 19, 2020*



# Housekeeping Items



Your phone will be muted during the presentation.



Type your question into the chat box. Q&A will occur at the end of the event.



This virtual event will be recorded.



Slides and recording will be available at:

<https://www.transportation.gov/av/data/wzdx>

# Introduction

- Co-Sponsored
  - U.S. Department of Transportation (U.S. DOT)
  - American Association of State Highway Officials (AASHTO)
- Purpose
  - To unite GIS and transportation professionals to discuss increasing worker and driver safety through the publication and consumption of work zone data.



AASHTO 2020 GIS-T SYMPOSIUM  
**NAVIGATE TO TRUE NORTH**  
MINNEAPOLIS, MINNESOTA



U.S. Department of Transportation

# Upcoming AASHTO Geospatial Events

- Geospatial Online Transportation Users Group (GOTUG)
  - Webinars held the first Wednesday of June, September, December, and March
    - The next batch of webinars will feature sessions from the 2020 GIS-T meeting
  - For more information and to sign up for notifications of webinar dates, times, and content, visit: <https://gotug.transportation.org/>
- Upcoming GIS-T Symposium
  - Minneapolis, Minnesota – April 2021
  - North Charleston, South Carolina – April 2022

For more information, visit: <https://gis-t.transportation.org/>



# Agenda

## 1. FHWA's Work Zone Data Initiative (WZDI)

Todd Peterson, Federal Highway Administration (FHWA)

## 2. Work Zone Data Exchange (WZDx): Improving Roadway Safety for Drivers and Automated Vehicles

Amy Nelson – Office of the Secretary of Transportation (OST)

## 3. WZDx: MC-85 Project in Maricopa County

Tomas Guerra – OZ Engineering

## 4. Panel Discussion

## 5. Interactive Q&A

# FHWA's Work Zone Data Initiative



**Todd Peterson**

Transportation Specialist, Work Zone Management  
Federal Highway Administration (FHWA)

 [Todd.Peterson@dot.gov](mailto:Todd.Peterson@dot.gov)



# **WORK ZONE MANAGEMENT PROGRAM**

## **National Work Zone Data Management Refresh**

**Todd Peterson, FHWA**



U.S. Department  
of Transportation

**Federal Highway  
Administration**



# Work Zone Data Initiative (WZDI)

Creating a **consistent language for communicating Work Zone Event Data** across organizational boundaries and throughout project life cycles

- Accelerate the adoption of Work Zone Data Exchange (WZDx) specification
- Advance development of agency processes and applications around availability of standardized data

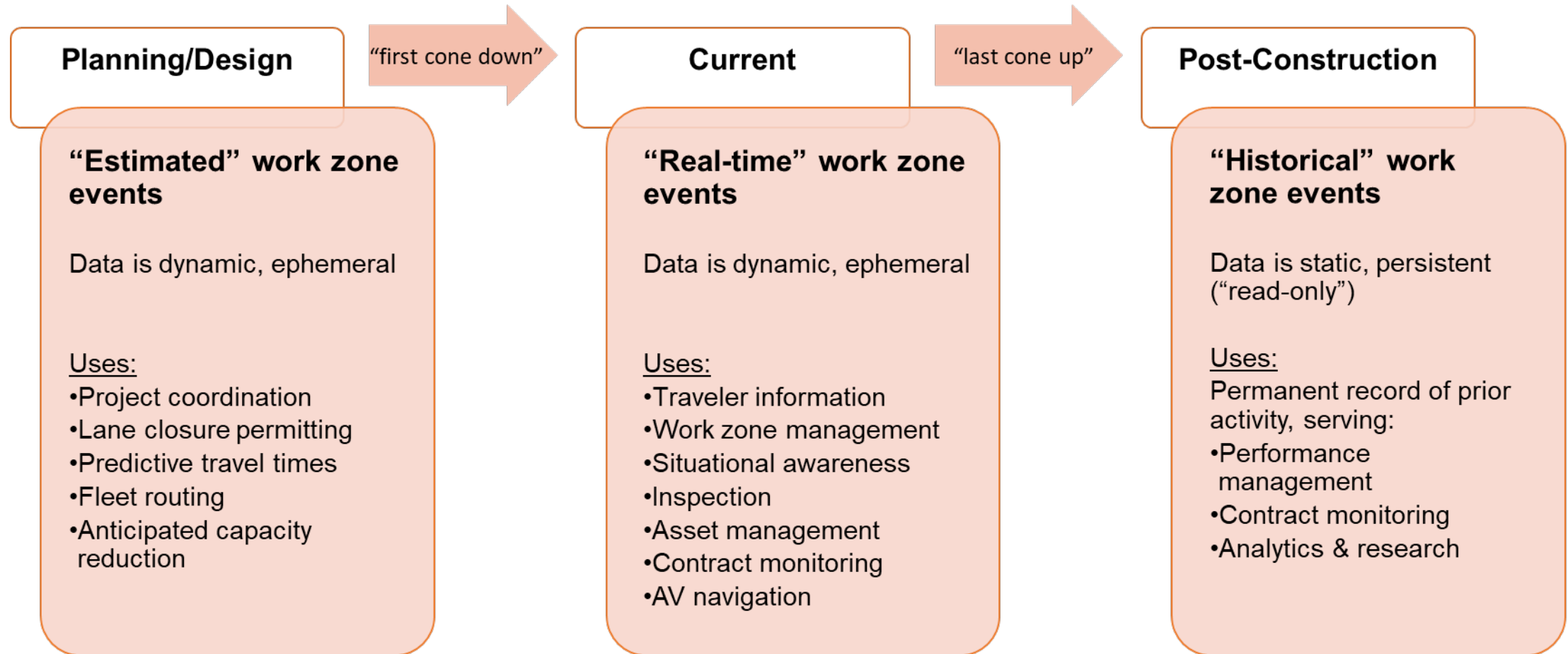




# WZDI Motivations

- Work zone management is increasingly data-driven
- Data describing work zone events are critical for emerging use cases
- Uniformity, accuracy, and portability will enhance development of tools and methods for next-generation work zone management.

# Data and the Project Delivery Life Cycle





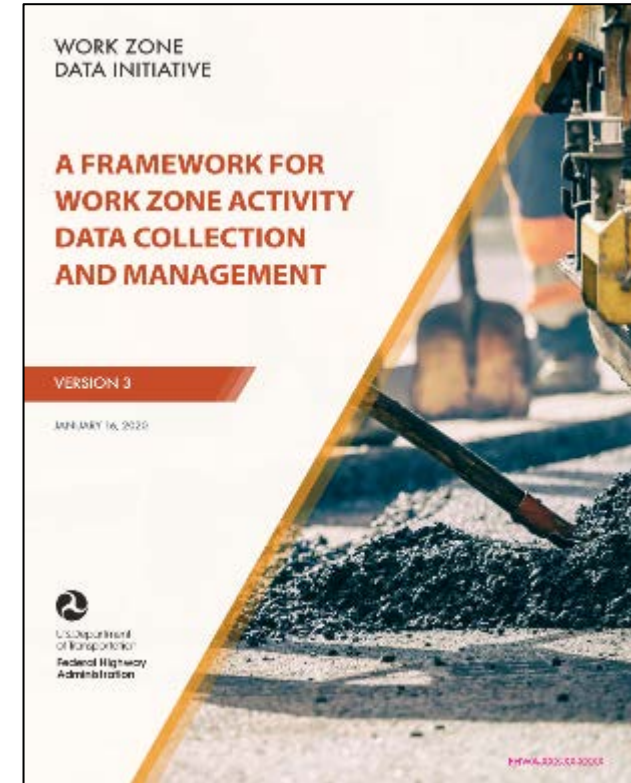
# Components of Data-Driven Work Zone Mgmt.

## Data

- Information about when, where, and how work zones are occurring - **Work Zone Event Data**

## System

- Resources and business processes supporting the generation, validation, and distribution of Work Zone Activity Data, and its applied uses. – “Work Zone Data System”

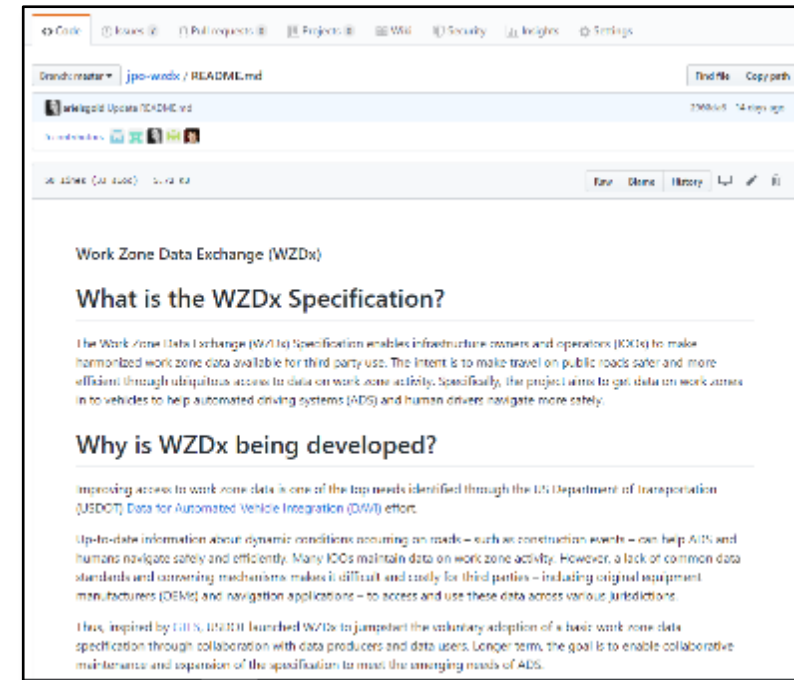


# WZDI Resources

Available on the WZDI Collaboration Site

<https://collaboration.fhwa.dot.gov/wzmp/wzdi/Forms/AllItems.aspx>

# Work Zone Data Exchange (WZDx)



<https://github.com/usdot-jpo-ode/jpo-wzdx>





# Work Zone Data Working Group

**Formalized under the Federal Geographic Data Committee, the objectives are to:**

- Maintain the current WZDx Specification;
- Groom the backlog of potential future changes and sources of technical input;
- Use open development methods to foster community involvement and support;
- Identify and promote best practices for creating, publishing, consuming, mapping, and analyzing work zone activity data and the WZDx Specification.

## **Priorities for 2020:**

- Release WZDx Specification version 2.0 - announced January 2020
- Develop technical assistance for local agencies deploying WZDx feeds
- Develop version 3 of the WZDx Specification



# WZDx Demonstration Grants

Planned one-time funding for public roadway operators to make unified work zone data feeds available

- **Total funding:** \$2.4M
- **Number of Awards:** Up to 12
- **Potential Award Amounts:** Up to \$200,000 each
- **Period of performance:** 14 months
- **Cost Share:** 20% Non-Federal Share
- **Federal involvement:** Performance monitoring, technical guidance, and participation in status meetings, workshops, and technical group discussions.

# Work Zone Data Exchange (WZDx): Improving Roadway Safety for Drivers and Automated Vehicles



**Amy Nelson**

Deputy Geospatial Information Officer  
U.S. Department of Transportation

 [Amy.Nelson@dot.gov](mailto:Amy.Nelson@dot.gov)



# Next Steps

Three subgroups have been formed to enhance the Work Zone Data initiative



Specification Update



Worker Presence



Technical Assistance

# Specification Update

Objective: Enhance and improve the specification for Version 3

- Lead steward in making changes to v2 of the WZDx Specification and managing future development of the specification
- Review and recommend WZDx specification updates
- Focus on defining explicit, comprehensive, and consistent definitions of the features, attributes, and vocabulary needed to effectively model work zone activity data





# Specification Update (con't)

- Recommendations will be based on an evaluation of the issue log
- Improvements can be proposed through GitHub or directly to WZDWG members
- Recommendations may include expanding or narrowing the specification
- Modifications will support open scalable standards
- Expected publication date is 8/30/2020



# Worker Presence Subgroup

Objective: Include real-time worker presence information in the WZDx feeds

- Data will be used to
  - Improve worker safety
  - Alert drivers to reduce speed
  - Alert automated driving systems that humans are present
- Key questions
  - How should we define worker presence?
  - How do we collect worker presence information?
  - How will this data be used?
  - What are the privacy, ethical, competitive, and liability issues with this data?



# Worker Presence Subgroup (con't)

## Current Focus

- Surveying stakeholders and users to understand needs
- Conducting interviews
- Subgroup will make recommendations on worker presence data collection for the v3 spec



# Technical Assistance Subgroup

Objective: Educate data producers and consumers on how to access the WZDx's most recent specification and achieve data conformity

- Lead steward in developing and reviewing business rules and best practices for setting up WZDx feeds or updating current feeds as new versions of the specification are released
- Subgroup members will review and propose validation tools for setting up feeds and provide technical guidance to adopters



# Technical Assistance Subgroup (con't)

- Will provide step-by-step details on how early adopters implemented the v2 specification
- Will create a form through which WZDWG members can share questions and answers





# Contact Information

**Amy Nelson**

Deputy Geospatial Information Officer

U.S. Department of Transportation

(202) 366-9479

[amy.nelson@dot.gov](mailto:amy.nelson@dot.gov)

# Work Zone Data Exchange (WZDx): MC-85 Project in Maricopa County



**Tomas Guerra**

Principal

OZ Engineering

 [tguerra@ozengineering.com](mailto:tguerra@ozengineering.com)





## Work Zone Data Exchange (WZDx) MC-85 Project in Maricopa County

**Tomas Guerra**  
OZ Engineering



# Introduction of Work Zone Data Activities

## Pilot

- MCDOT/ADOT/U of A Connected Vehicle Work Zone Freight application
  - Freeway and Arterial
- MCDOT Arterial Smarter Work Zone
- ADOT Freeway Smarter Work Zone
- WZDx 1.1 work (Focus on MCDOT MC-85; arterial pilot)



## Current

WZDx 2.0 (or later) work ADOT and MCDOT Pilot

## Future

- Regional Expansion



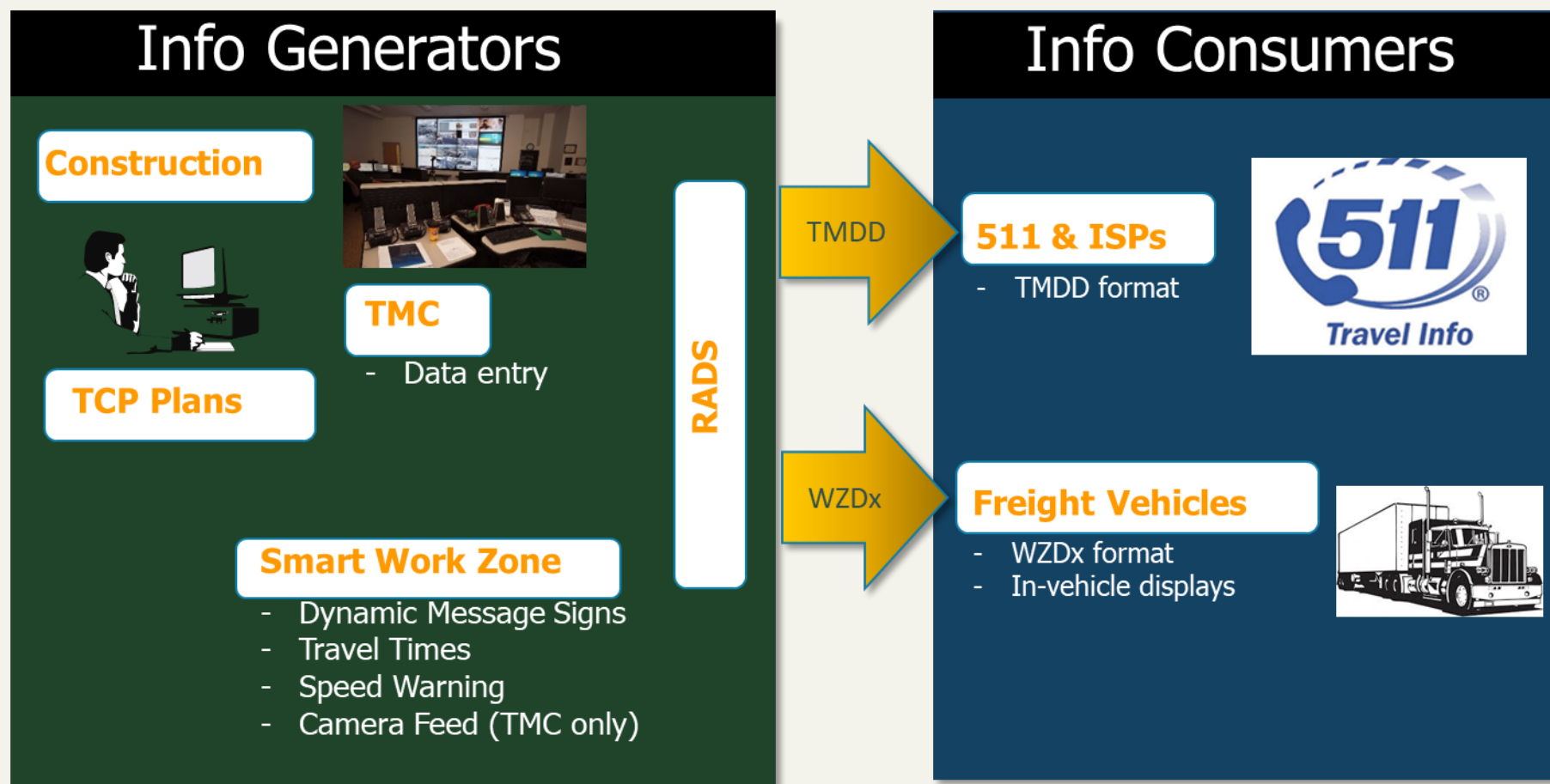
## WZDx – Why?

- Understand WZDx specification and applicability
- Provide feedback to US DOT on the specification
- Mainstream and broadcast to third parties for real-time use





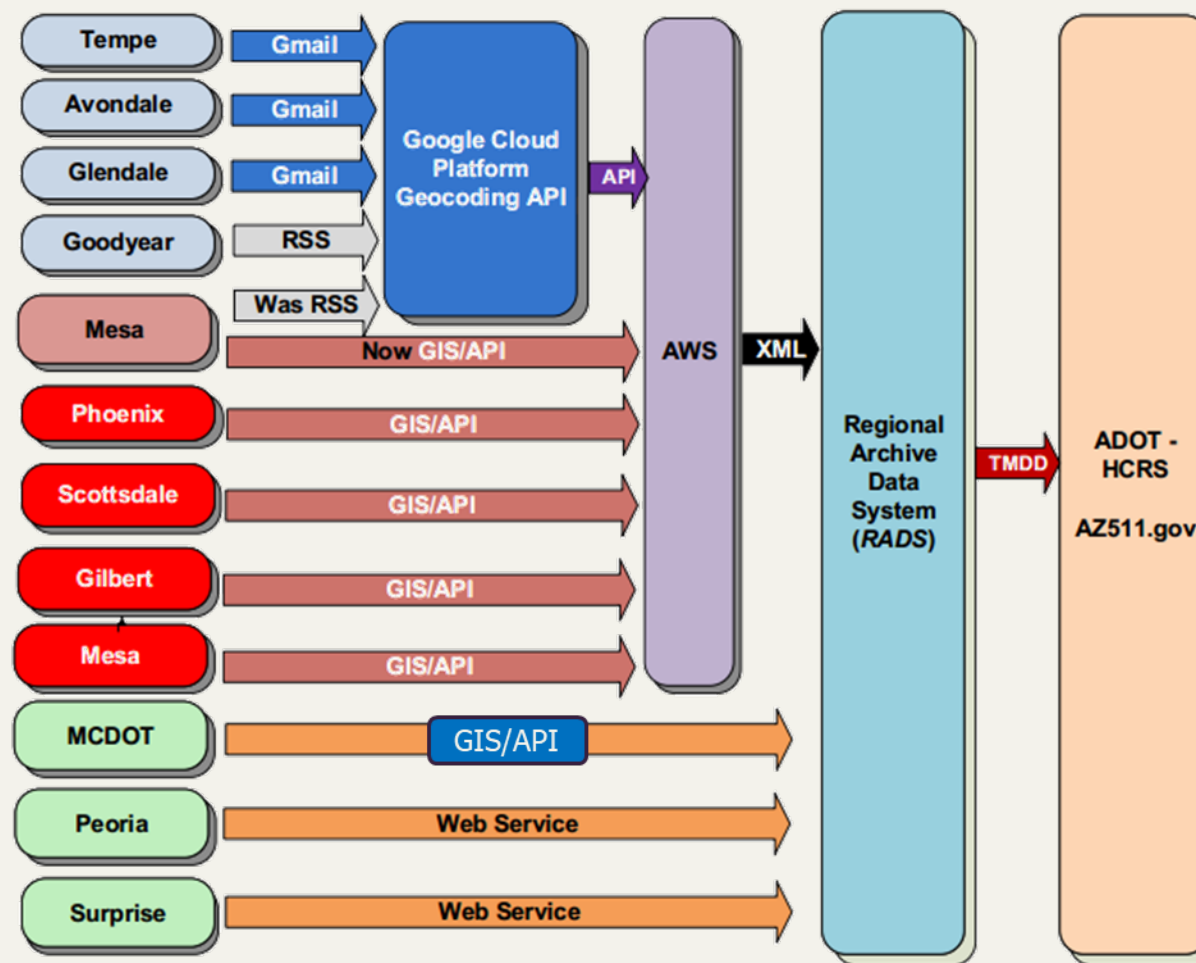
# Demonstration Pilot





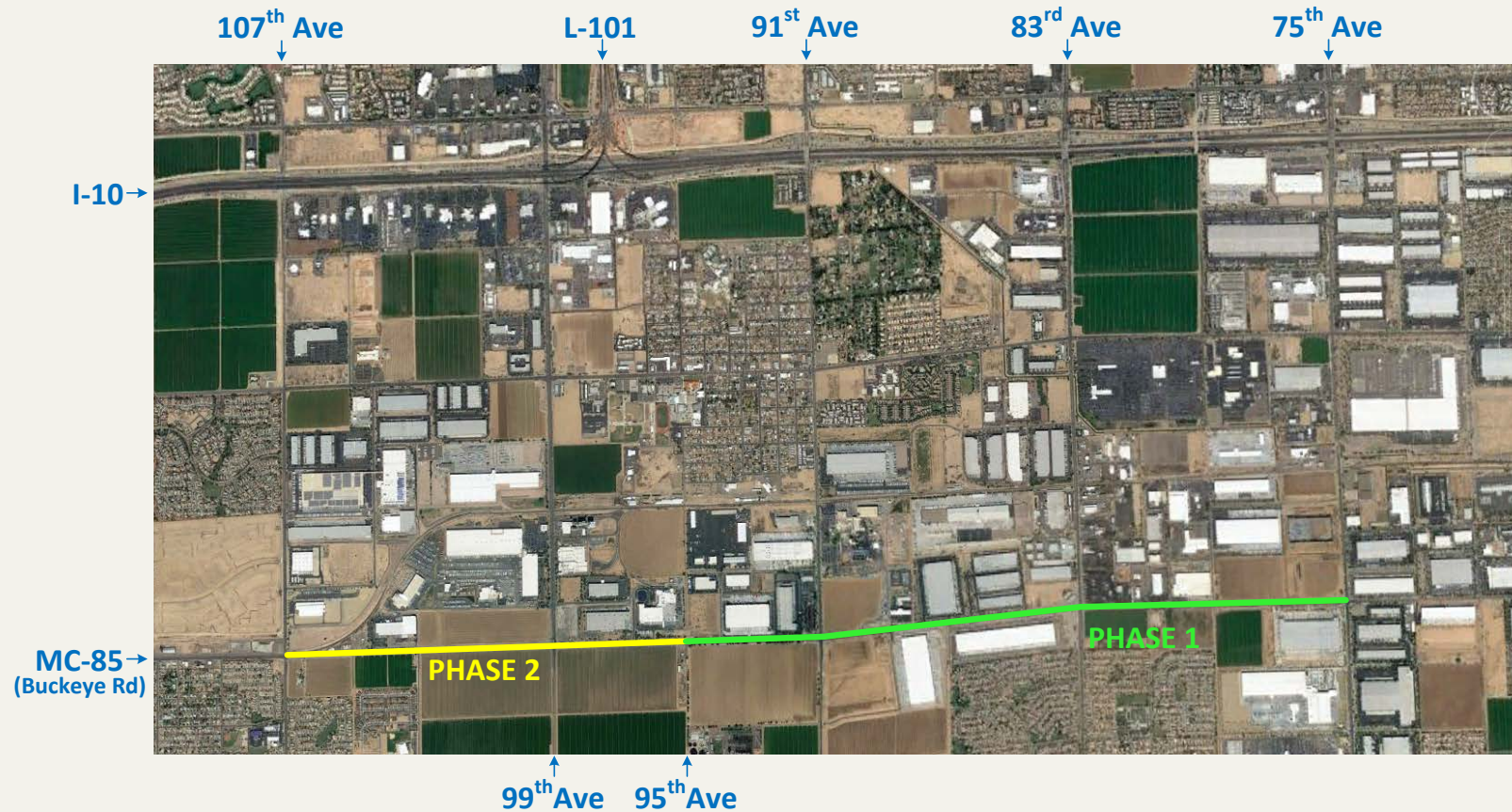
# Current GIS Processes (TMDD)

- GIS/API
- Gmail
- RSS
- Web Service
- Next Steps:  
Regional WZDx  
(Multiple Sources)





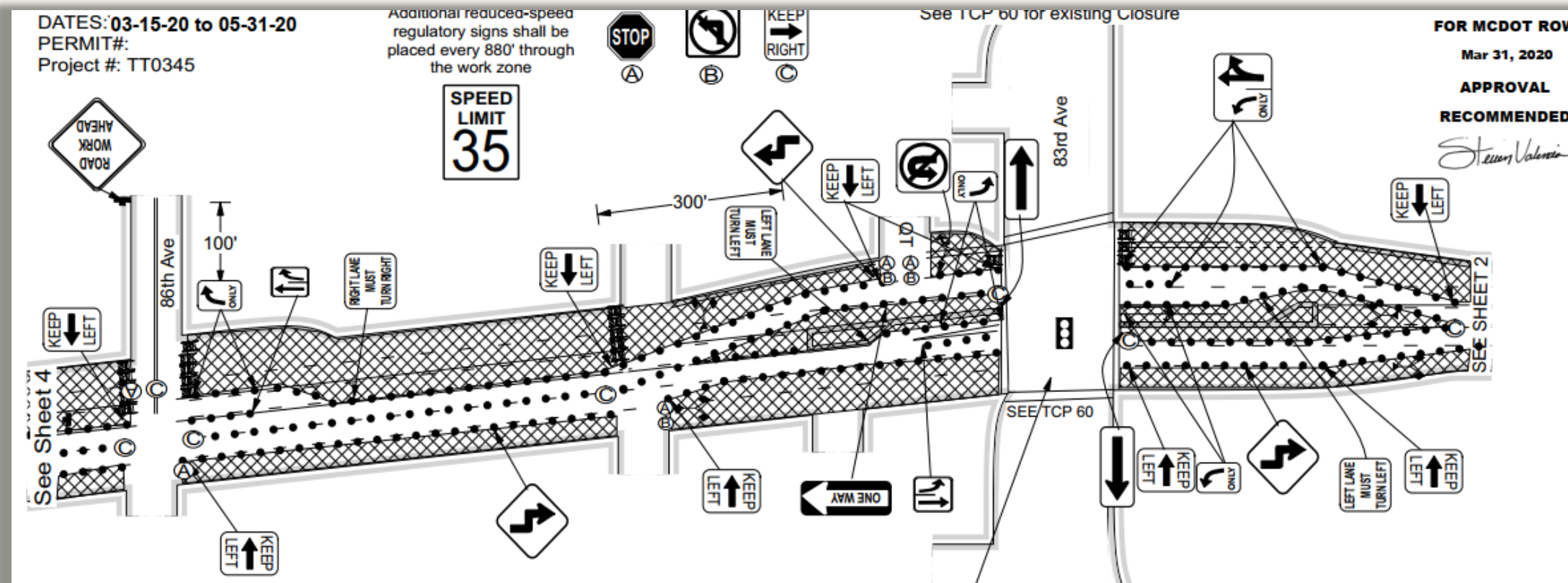
# Project Area



- Major Freight Corridor
- Long Project Duration
- Available Alternate Routes
- Challenging Industrial Area



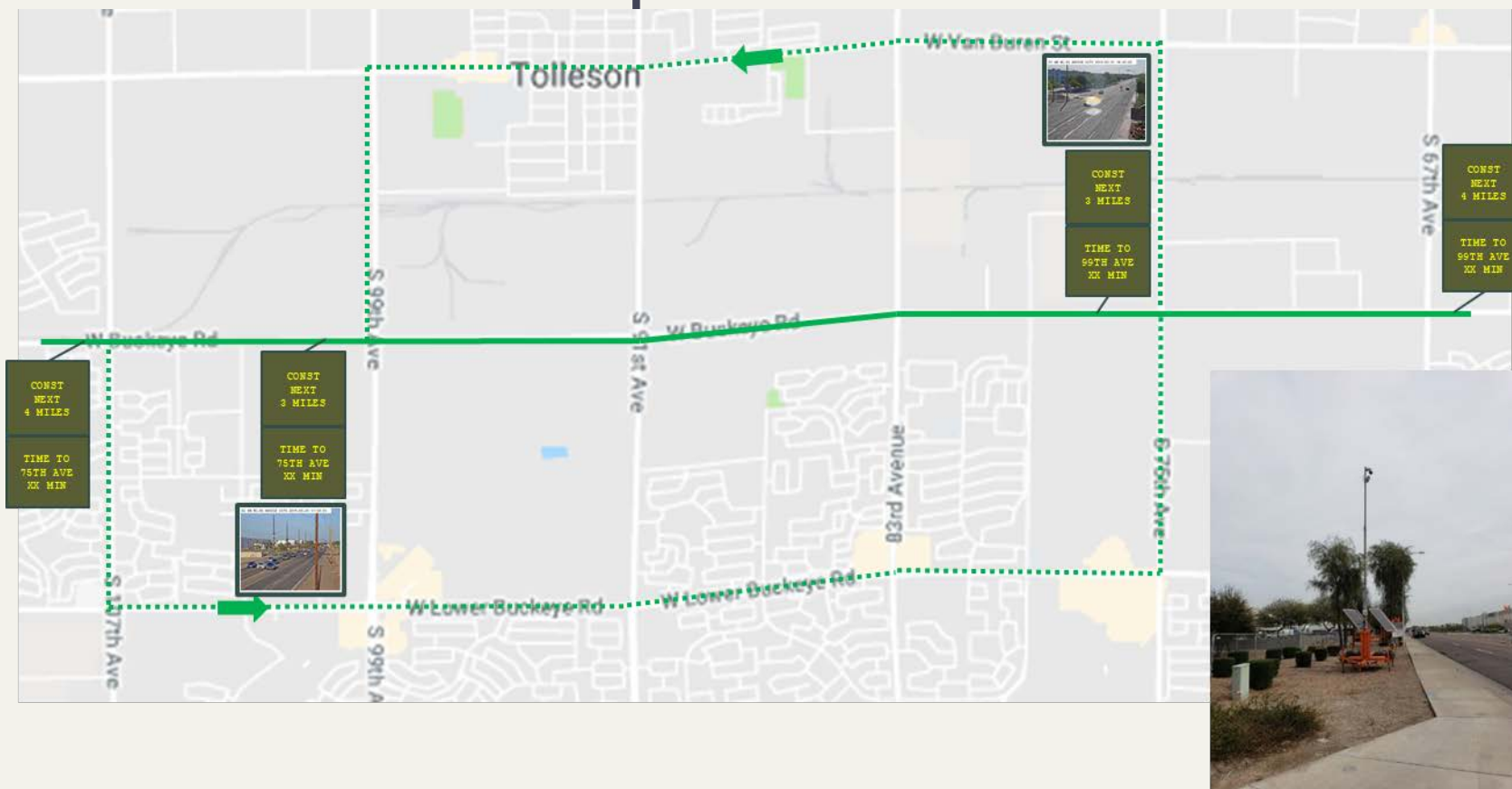
# Traffic Control Plans



- January 2019 to June 2020, to widen MC-85 to a total of 5 lanes; storm drains, sidewalk, lighting, irrigation.
- Minimum of 1 lane in each direction open, shifting all traffic to opposite side of road, first south half, then north half.
- 24 x 7 restrictions, workers on-site M-F 8 AM to 5 PM.



# Smart Work Zone Components



## ITS Components:

- Detection (Speed, Occupancy, Volume)
- ARID readers calculate travel times
- Displayed DMS content varies depending on travel times
- Excessive speed feedback signs
- CCTV Cameras
- RSU



# USDOT WZDx v1.1

- Work Zone Data Exchange (WZDx)
  - Common Core Data Specification Reference Document
  - <https://www.transportation.gov/av/data>



# Sample WZDx Data Frame

## Traffic Control Plan #12 Eastbound

Tag	Value	Notes/Comments
identifier	Maricopa.gov.2019012001	
subidentifier	TT0345;TCP_12;eastbound	Use Project # and TCP #. A single TCP could generate two restrictions, one in each direction.
StartDateTime	startDateTime-ver: 2019-01-20T06:35:00-07:00	By convention, we will include timezone value (-07:00) since AZ does not recognize DST; could also use UTC (Z). Suggest this be a convention for all.
EndDateTime	endDateTime-est: 2019-08-20T23:59:59-07:00	How would day-time construction (8 AM to 5 PM, M-F) be represented? Make five entries?
BeginLocation	roadName: MC-85 (Buckeye Rd) roadDirection: eastbound latitude-est: 33.435795 longitude-est: -112.259716 crossStreet: 91st Ave	
EndLocation	latitude-est: 33.437151 longitude-est: -112.224501 crossStreet: 79th Ave	
wz_status	active	Could this field include a separate Date/Time field if Work Zone will only be set up during off-peak hours during an extend time period?
totalLanes	2	



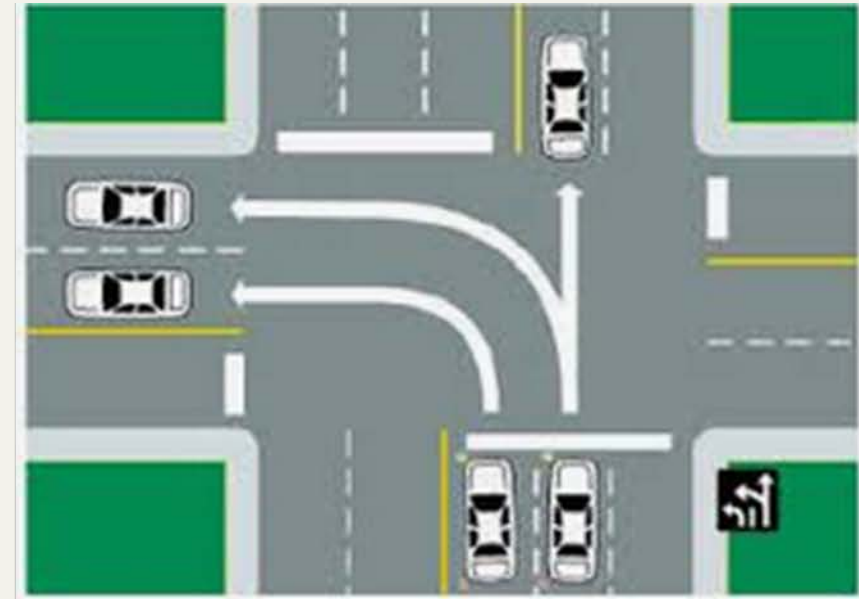


# Sample WZDx Data Frame (con't)

## Traffic Control Plan #12 Eastbound (Continued)

Tag	Value	Notes/Comments
openLanes	shift-left (yes)  left-lane(also good?) alternating-flow-lane (no)	Trying to describe the case where all lanes are actually blocked and <u>one</u> lane of traffic is shifted over into the opposing traffic lane. Used shift-left since it means "all open lanes shift to the left". Could also use left-lane? Note, discrepancy in WZDx_final01.xsd, line 185: "shift-left", vs "left-shift-lanes" in reference document.
closedLanes	right-lane	Shared two-way left turn center lane not available or closed; no left turn allowed. Other: How would one represent a center two-way left turn lane on an arterial? See next slide.
closedShoulders	Both	
workersPresent	True	This could require a Date/Time field separate from the Project Start/End Date/Time fields if the closure is always present but workers are only present during certain work hours/days
Description	Eastbound lanes reduced to one lane and shifted to opposing side of roadway on MC-85 (W. Buckeye Rd) from near 91st Ave to near 75th Ave. for approx. 7 months. Westbound traffic also reduced to 1 lane.	Where would real-time ITS information such as travel times / speeds, and DMS message text be represented? Consider embedding within this field, or provide a URL link in this field to another data page, other?
issuingOrganization	Maricopa County DOT	
timestampCreation	2019-01-20T06:35:00-07:00	
timeStampUpdate	2019-03-29T14:42:00-07:00	

# Representing Left Turning Lanes



- Shared two-way left turn center lane
- Center two-way left turn lane on an arterial



# MCDOT WZDx JSON API (v1.0)

(<https://api.mcdot-its.com/WZDx/Activity/Get>)

```
▼ WorkZoneActivity:
  ▼ 0:
    identifier: "maricopa.gov.2019012001"
    subidentifier: "TT0345;TCP_12;eastbound"
    ▼ startDateTime:
      startDateTime-ver: "2019-01-20T06:35:00-07:00"
    ▼ endDateTime:
      endDateTime-est: "2019-08-20T23:59:59-07:00"
    ▼ beginLocation:
      roadName: "MC-85 (Buckeye Rd)"
      roadNum: "MC-85"
      roadDirection: "eastbound"
      latitude-est: 33.435795
      longitude-est: -112.259716
      crossStreet: "91st Ave"
    ▼ endLocation:
      latitude-est: 33.437151
      longitude-est: -112.224501
      crossStreet: "75th Ave"
    wz_status: "active"
    totalLanes: 2
    openLanes: "shift-left"
    closedLanes: "right-lane"
    closedShoulders: "both"
    workersPresent: "true"
    ▼ description: "Eastbound lanes reduced to one lane and shifted to opposing side of roadway on MC-85 (W. Buckeye Rd) from near 91st Ave to near 75th Ave. for approx. 7 months. Westbound traffic also reduced to 1 lane."
    issuingOrganization: "Maricopa County DOT"
    timestampEventCreation: "2019-01-20T06:35:00-07:00"
    timestampEventUpdate: "2019-03-29T14:42:00-07:00"
```



# In-Truck Demonstration

- Drivewyze uses WZDx API and defines geo-fenced events within their product
- Swift Trucking company in-vehicle ELD automatically receives workzone notifications





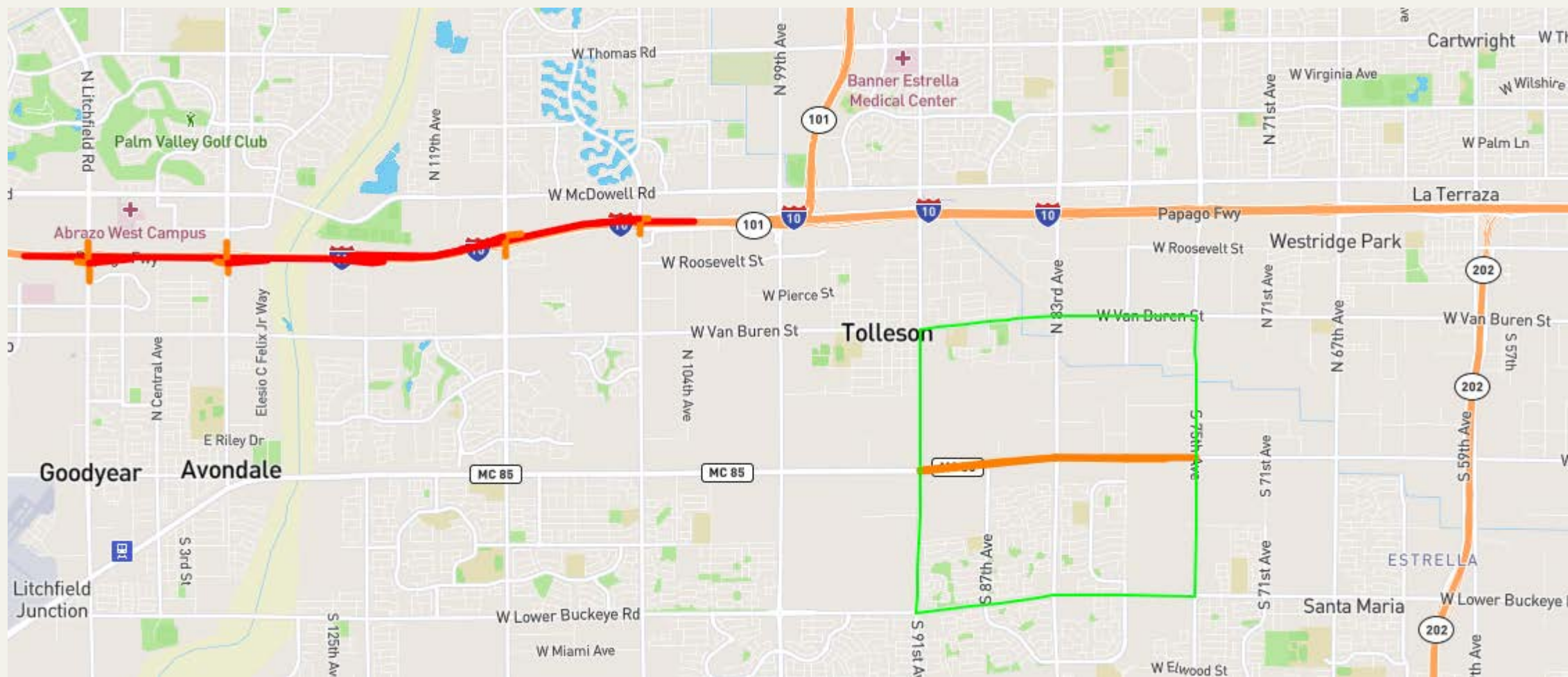
# WZDx GeoJSON API (v2)

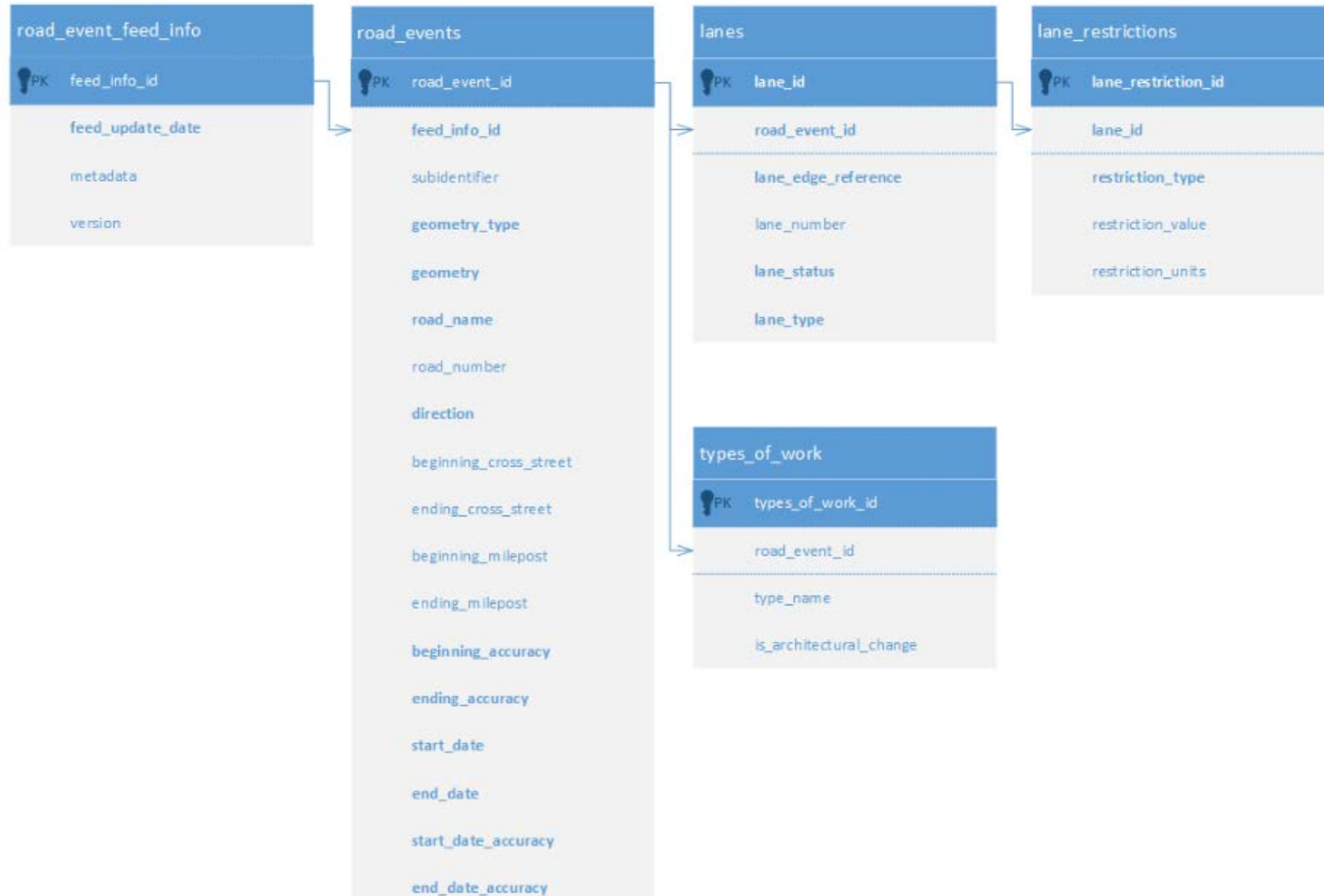
(<https://www.transportation.gov/av/data/wzdx>)

- The following changes were made to the WZDx Specification in version 2:
  - **Adopted a relational data model approach** to eliminate nested tables and make the specification more scalable
  - **Required feeds to be published in GeoJSON** to facilitate data consumption and use
  - **Simplified road closure impact reporting** to indicate whether a road is partially closed, fully closed, or fully open
  - **Captured lane-level restrictions** (when available) to specify work zone impacts for each lane of a roadway



# MCDOT WZDx JSON API (v2.0) - GeoJSON

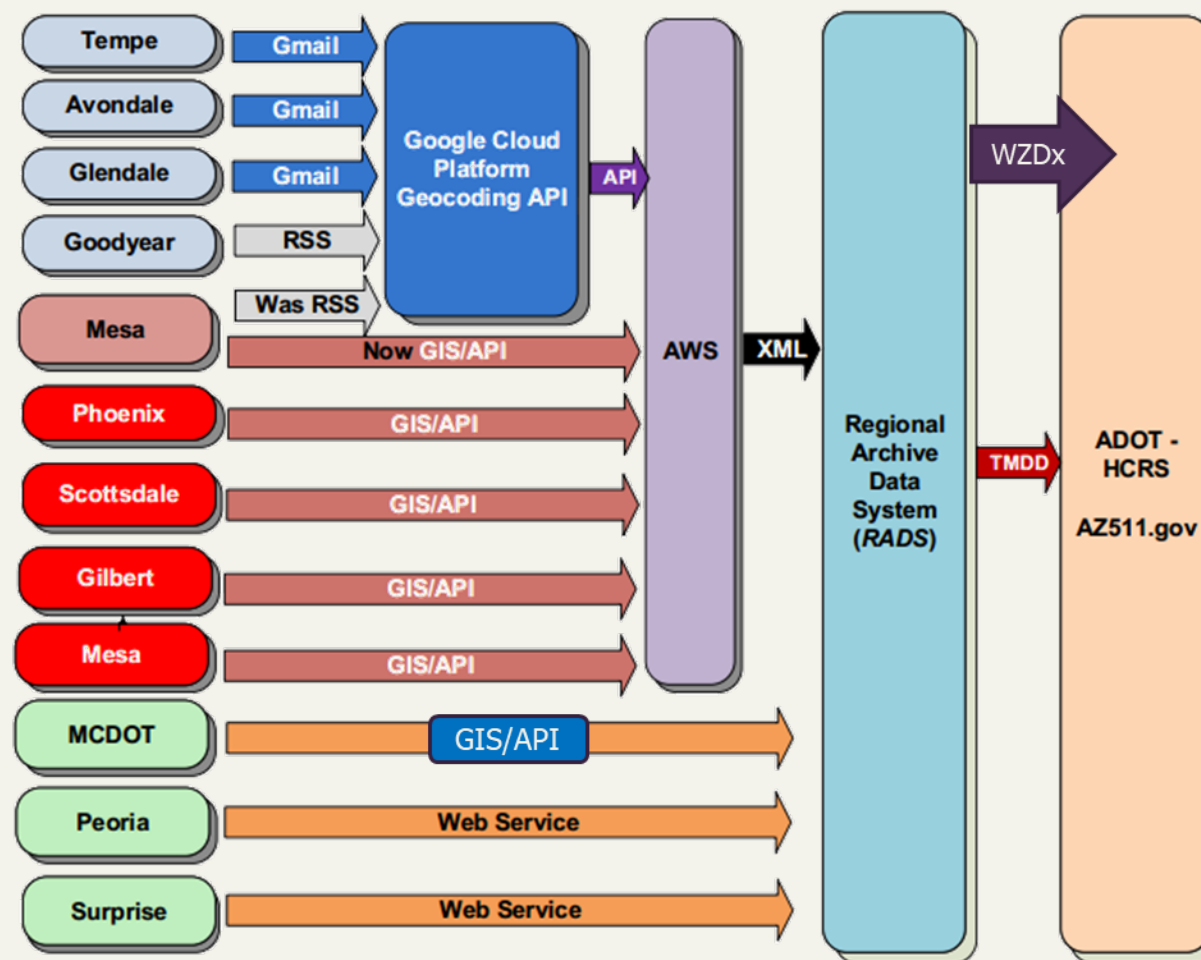






# Next Steps Regional WZDx

- GIS/API
  - Gmail
  - RSS
  - Web Service
- 
- Next Steps:  
Regional WZDx  
(Multiple Sources)







# Thank You!

## Point of Contact

ADOT Adam Carreon  
Operations & Safety Engineer  
Special Projects  
[Acarreon@azdot.gov](mailto:Acarreon@azdot.gov)  
602-712-2212

## Point of Contact

MCDOT Faisal Saleem  
ITS Branch Manager  
[Faisal.Saleem@Maricopa.gov](mailto:Faisal.Saleem@Maricopa.gov)  
602-506-1241

## Point of Contact

Tomas Guerra  
OZ Engineering  
[tGuerra@ozEngineering.com](mailto:tGuerra@ozEngineering.com)  
(602) 457-5754

# Panel Discussion



**Derald Dudley**  
**MODERATOR**

Geographer  
Bureau of Transportation Statistics

 [Derald.Dudley@dot.gov](mailto:Derald.Dudley@dot.gov)



**Neil Boudreau**  
**PANELIST**

Asst. Administrator for Traffic and Safety  
Massachusetts DOT

 [Neil.Boudreau@dot.state.ma.us](mailto:Neil.Boudreau@dot.state.ma.us)



**Skylar Knickerbocker**  
**PANELIST**

Research Engineer  
Iowa State University

 [sknick@iastate.edu](mailto:sknick@iastate.edu)



**Tony Leingang**  
**PANELIST**

State Incident Mgmt. & Operations Administrator  
Washington State DOT

 [LeingaA@wsdot.wa.gov](mailto:LeingaA@wsdot.wa.gov)

# Work Zone List

[Create New](#)

Region

Olympic ▾

County

All ▾

State Route

All ▾

Start Date

05/14/2020

End Date

Filter

Show 100 ▾ entries

Name	Type	Status	SR	Direction	Milepost	Common Name	Contract No	Start Date	End Date	Action
5th St to S H St Paving and ADA Compliance	Contract	Active	101	Eastbound	87.49 - 91.51	Hoquiam & Aberdeen	009491	2/18/2020	10/30/2020	<a href="#">View Edit Duplicate</a>
70th St Bridge (SR-167 Extension Stage 1A) Week of 05/11/2020	Contract	Active	005	Northbound	136.5 - 138.5	I-5 NB near 70th St Bridge	9333	5/13/2020	5/14/2020	<a href="#">View Edit Duplicate</a>
Agate Pass Bridge - Bridge Painting	Contract	Active	305	Both Directions	6.82 - 7.05	Agate Pass Bridge	009409	3/10/2020	10/30/2020	<a href="#">View Edit Duplicate</a>
Asphalt Repair	Maintenance	Active	101	Both Directions	133.9 - 130.9			5/12/2020	5/14/2020	<a href="#">View Edit Duplicate</a>
Asphalt Repair	Maintenance	Active	101	Both Directions	133.9 - 130.9			5/19/2020	5/21/2020	<a href="#">View Edit Duplicate</a>
Bridge	Maintenance	Active	101	Both Directions	120 - 120	Skunk creek		5/14/2020	5/14/2020	<a href="#">View Edit Duplicate</a>
bridge Maintenance	Maintenance	Active	101	Southbound	120.4 - 120.4	skunk creek		5/13/2020	5/14/2020	<a href="#">View Edit Duplicate</a>
Chehalis River Bridge Structural Rehabilitation & Painting	Contract	Active	107	Both Directions	6.74 - 7.16	Chehalis River Bridge	009360	4/6/2019	9/30/2020	<a href="#">View Edit Duplicate</a>
Crack Seal	Maintenance	Active	101	Northbound	361 - 353			5/18/2020	5/21/2020	<a href="#">View Edit Duplicate</a>
ditching	Maintenance	Active	101	Both Directions	229 - 231			5/12/2020	5/14/2020	<a href="#">View Edit Duplicate</a>
E. of Elgin Clifton Rd To SR16 - Remove Fish Barriers, Paving, ADA & Bridge	Contract	Active	302	Both Directions	10 - 11	Minter Cr.	9446	5/11/2020	5/15/2020	<a href="#">View Edit Duplicate</a>
E. of Elgin Clifton Rd To SR16 - Remove Fish Barriers, Paving, ADA & Bridge	Contract	Active	302	Both Directions	10 - 11	Minter Cr.	9446	5/18/2020	5/22/2020	<a href="#">View Edit Duplicate</a>
Geo Tech Boring	Other	Pending	308	Both Directions	3 - 3			5/25/2020	5/29/2020	<a href="#">View Edit Duplicate</a>
Heron St. Bridge flushing	Maintenance	Pending	012	Eastbound	0.08 - 0.13	Heron Bridge		5/13/2020	5/14/2020	<a href="#">View Edit Duplicate</a>
Interstate 5 / Port of Tacoma Road Interchange - Phase 1	Contract	Active	005	Both Directions	135.91 - 136.62		TA5180	5/14/2020	5/22/2020	<a href="#">View Edit Duplicate</a>
JBLM	Contract	Active	005	Both Directions	120.01 - 124.45	JBLM	9133	11/18/2019	10/30/2020	<a href="#">View Edit Duplicate</a>
Kilisut Harbor Remove Fish Barrier	Contract	Active	116	Both Directions	4.15 - 4.95	Kilisut Harbor	9447	5/11/2020	5/15/2020	<a href="#">View Edit Duplicate</a>
Kilisut Harbor Remove Fish Barrier	Contract	Active	116	Both Directions	4.15 - 4.95	Kilisut Harbor	9447	5/11/2020	5/15/2020	<a href="#">View Edit Duplicate</a>
Kilisut Harbor Remove Fish Barrier	Contract	Active	116	Both Directions	4.15 - 4.95	Kilisut Harbor	9447	5/18/2020	5/22/2020	<a href="#">View Edit Duplicate</a>
Landau Assoc. Geo-Tec. Boring	Maintenance	Pending	003	Both Directions	48.3 - 48.8	Geo Tech Boring		5/18/2020	5/22/2020	<a href="#">View Edit Duplicate</a>
large littler pick up	Maintenance	Active	167	Both Directions	0 - 11	river rd/ SR 167		5/13/2020	5/14/2020	<a href="#">View Edit Duplicate</a>

# SR 510 Interchange Reconstruct Interchange

Project Information				
<b>Region</b> Olympic	<b>Counties</b> Thurston	<b>Work Zone Type</b> Contract	<b>Contract Number</b> 9297	<b>Status</b> Active
<b>Create Date</b> 05/08/2020 01:19 PM	<b>Last Modified</b> 05/08/2020 01:19 PM	<b>Created By</b> [redacted]	<b>Last Modified By</b> [redacted]	

Location				
<b>State Route</b>	<b>Direction</b>	<b>Start Milepost</b>	<b>End Milepost</b>	<b>Common Name</b>
005	Northbound	110.000	112.000	Marvin Rd.

WSDOT Contacts				
	<b>Name</b>	<b>Primary Phone</b>	<b>Alt. Phone</b>	<b>Email</b>
1	[redacted]	(360) [redacted]	See Crew Manager	[redacted]@wsdot.wa.gov
2	[redacted]	(360) [redacted]	(360) [redacted]	[redacted]@wsdot.wa.gov
3	[redacted]	(360) [redacted]	(360) [redacted]	[redacted]@wsdot.wa.gov

4		Project Manager		
5		Foreman		

Traffic Impacts

State Route	Direction	Start Milepost	End Milepost	Common Name
005	Both Directions	110.500	111.500	Marvin Rd. Interchange
Type	Priority	Weather Permitting		
Left Lane	Contract	No		
Start Date	End Date	Start Hour	End Hour	Work Days
5/11/2020	5/15/2020	8:00 PM	05:00 AM	Mon Tue Wed Thr Fri
Description of Work				
Constructing Compost Vegetated Filter Strips in the NB I-5 median shoulder night time Monday thru Friday.				
Description of Traffic Control Required				
No traffic impacts expected during day time hours Monday thru Friday.				
Monday Night 8 pm to 5 am: NB I-5 left lane closure MP 110.5 to 111.5				
Tuesday Night 8 pm to 5 am: NB I-5 left lane closure MP 110.5 to 111.5				
Wednesday Night 8 pm to 5 am: NB I-5 left lane closure MP 110.5 to 111.5				
Thursday Night 8 pm to 5 am: NB I-5 left lane closure MP 110.5 to 111.5				
Friday Night 9 pm to 8 am: NB I-5 left lane closure MP 110.5 to 111.5,				

State Route	Direction	Start Milepost	End Milepost	Common Name
510	Both Directions	0.000	0.400	Marvin Rd. Interchange
Type	Priority	Weather Permitting		
On Ramp	Contract	Yes		
Start Date	End Date	Start Hour	End Hour	Work Days
5/11/2020	5/15/2020	7:00 AM	03:00 PM	Mon Tue Wed Thr Fri
Description of Work				
Monday thru Friday day time; No work scheduled				
Description of Traffic Control Required				
Monday thru Friday day time; No traffic impacts expected				
Comments				

Commercial Vehicle Restrictions

None Specified



Region

All ▾

State Route

All ▾

Starting After

05/03/2020

Ending Before

05/17/2020

Filter

+

-

Traffic Impacts

Contract Work

Maintenance Work

Utilities Work

Other

CV Restrictions

Contract Boundaries

Zoom to Marker

Work Zone

Maintenance Work

Route: 005

MP: 114 to 102

Southbound

5/14/2020 until 5/16/2020

Work Zone

Contract Area

Route: 005

MP: 110 to 112

Northbound

Contract Work

Route: 005

MP: 110.5 to 111.5

Both Directions

5/11/2020 until 5/15/2020

Work Zone

Contract Area

Route: 005

MP: 110 to 112

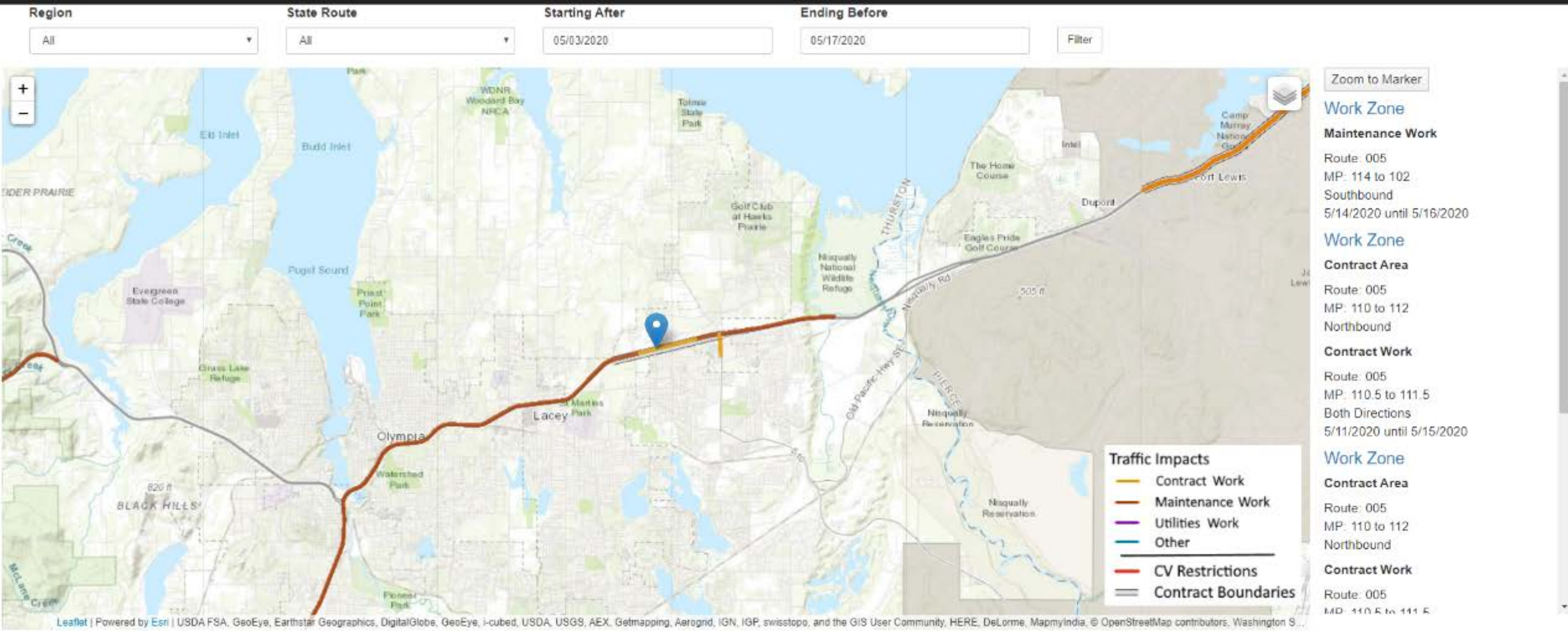
Northbound

Contract Work

Route: 005

MP: 110.5 to 111.5

Leaflet | Powered by Esri | Earthstar Geographics, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Washington State Department of Transportation



# Questions & Answers

Please type your question into the chat box



# Call to Action

<b>Visit the WZDI and WZDx Websites</b>	WZDI Website: <a href="https://collaboration.fhwa.dot.gov/wzmp/wzdi/Forms/AllItems.aspx">https://collaboration.fhwa.dot.gov/wzmp/wzdi/Forms/AllItems.aspx</a>  WZDx Website: <a href="https://www.transportation.gov/av/data/wzdx">https://www.transportation.gov/av/data/wzdx</a>
<b>Access and contribute to the WZDx Specification</b>	WZDx Specification (v2.0): <a href="https://github.com/usdot-jpo-ode/jpo-wzdx/blob/master/README.md">https://github.com/usdot-jpo-ode/jpo-wzdx/blob/master/README.md</a>
<b>Access WZDx Data Feeds</b>	TxDOT's v2 and MCDOT's v1.1 feeds: <a href="https://data.transportation.gov/Roadways-and-Bridges/Work-Zone-Data-Exchange-WZDx-Feed-Registry/69qe-yiui">https://data.transportation.gov/Roadways-and-Bridges/Work-Zone-Data-Exchange-WZDx-Feed-Registry/69qe-yiui</a>
<b>Join the Work Zone Data Working Group (WZDWG)</b>	To participate in the working group, contact <a href="mailto:avdx@dot.gov">avdx@dot.gov</a>
<b>Leverage WZDx Technical Support</b>	Technical Assistance and Help Desk – <b>Coming Soon!</b>

# Post Event Activities

- Provide feedback on today's virtual event
  - A survey will be distributed to all participants
- Access the presentation and recording on the WZDx website
- Attend future AASHTO Geospatial Events
  - Geospatial Online Transportation Users Group (GOTUG)
    - Learn more at: <https://gotug.transportation.org/>
  - Upcoming GIS-T Symposium
    - Minneapolis, Minnesota – April 2021
    - North Charleston, South Carolina – April 2022

For more information, visit: <https://gis-t.transportation.org/>



# Thank you for your participation!