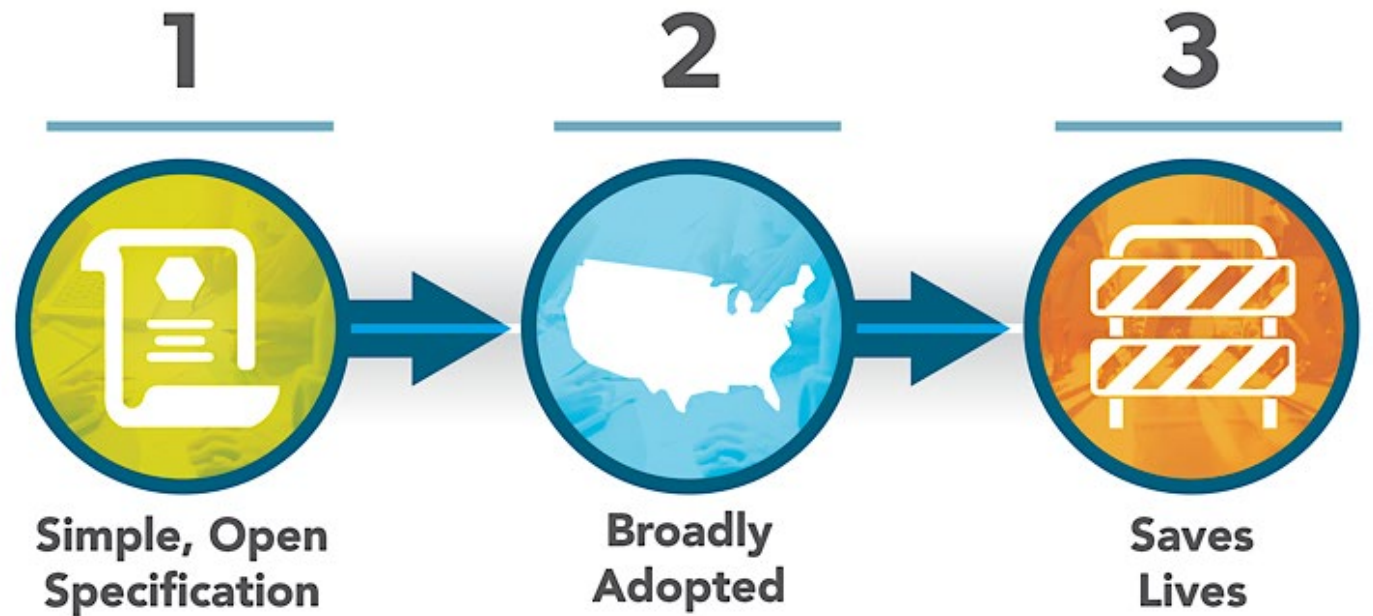


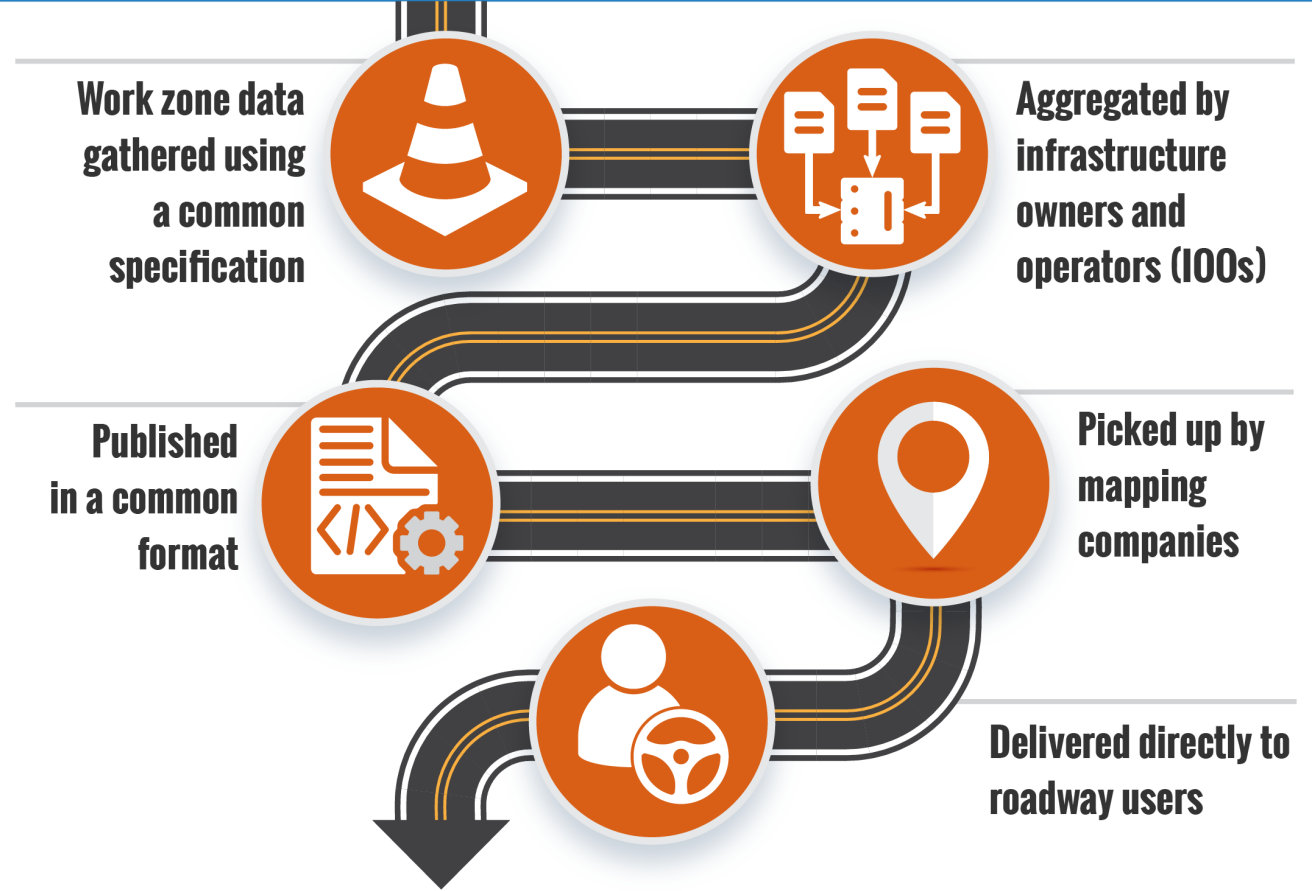
The Work Zone Data Exchange (WZDx)



USDOT ITS-JPO

WZDx is...

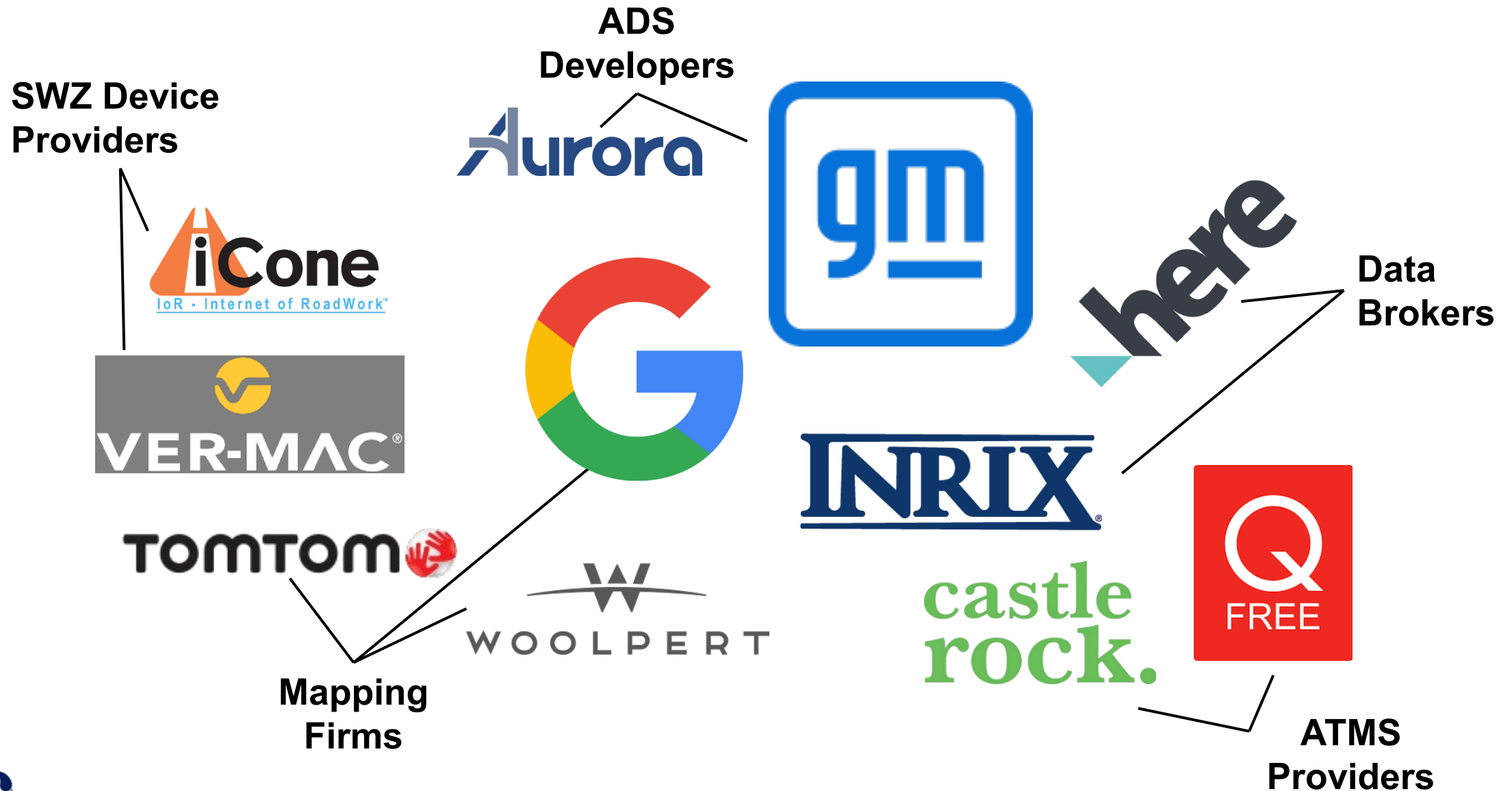
- A simple, open standard for sharing data about planned and active work zone events.



Source: FHWA

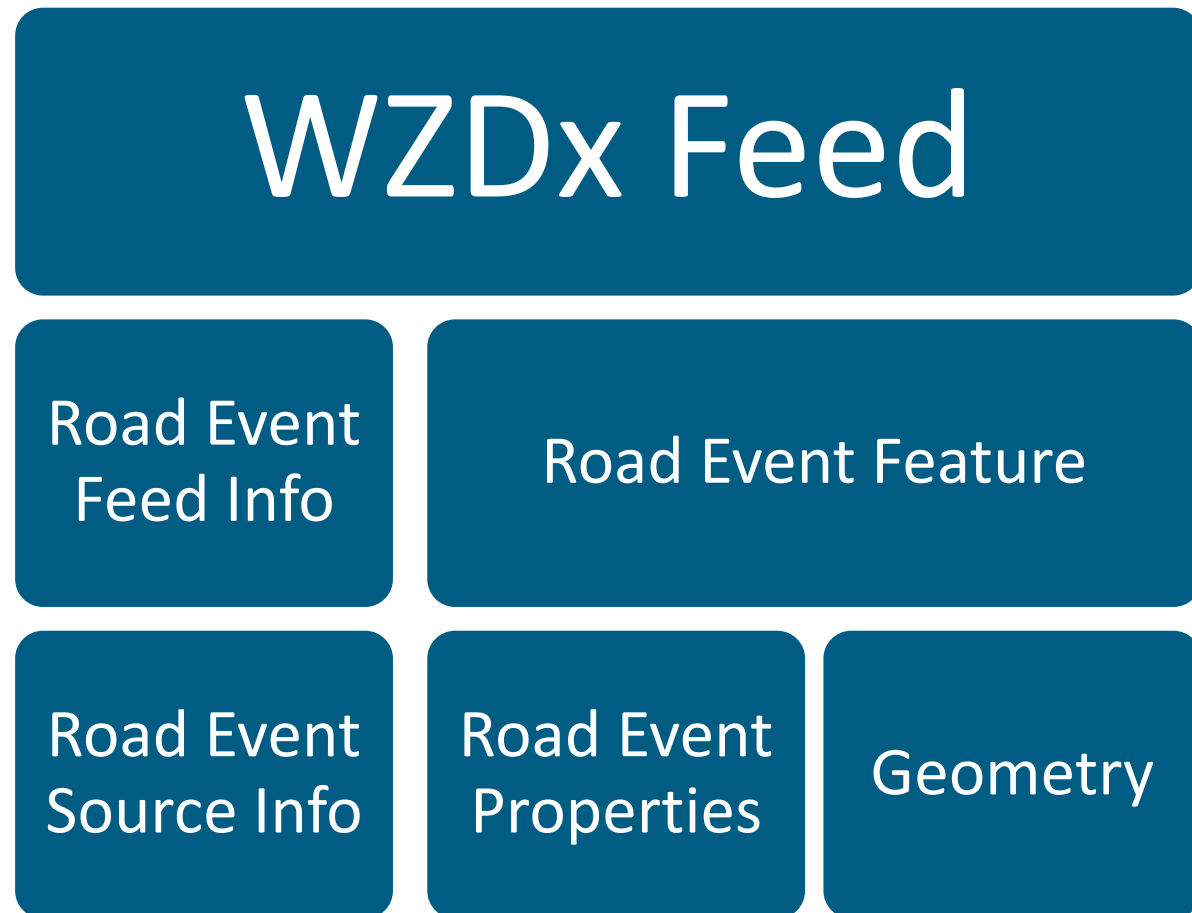
<https://www.transportation.gov/av/data/wzdx>

Private sector involvement in WZDx



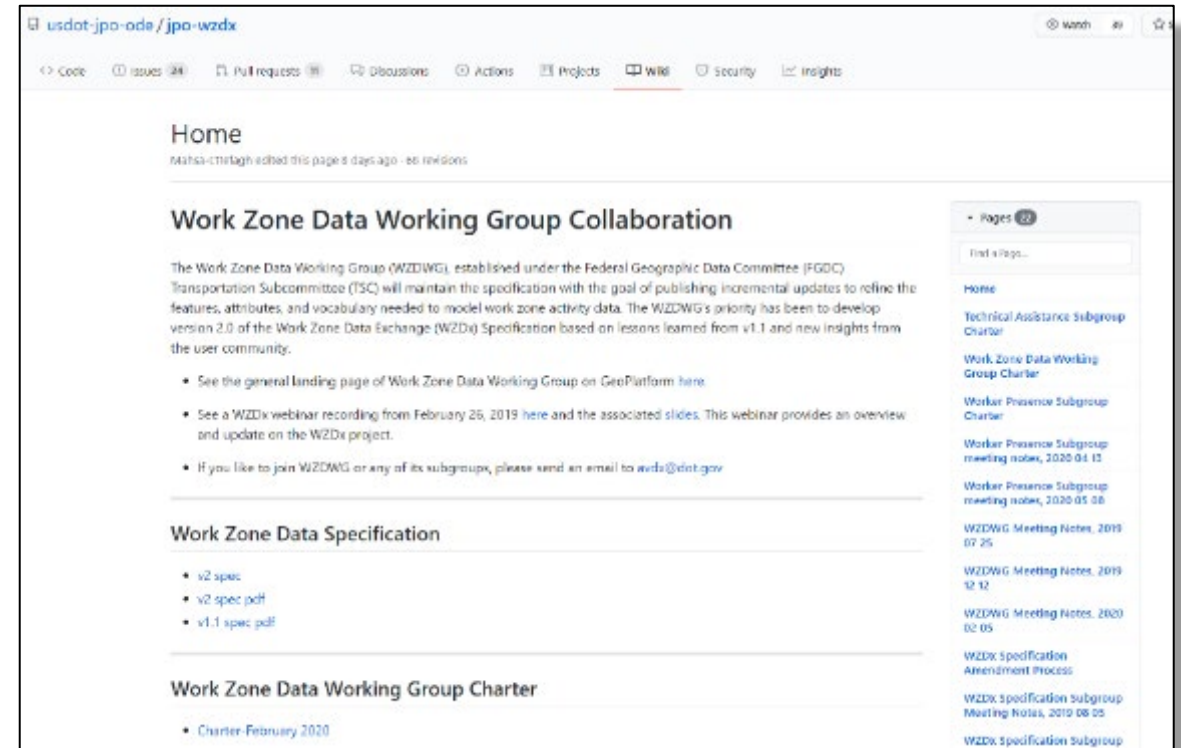
Current WZDx Version 4.0 & Structure

- The WZDx specification is structured in an object model
- A valid WZDx document is a valid GeoJSON document
- Human-readable documentation: object and enumerated type files
- Version 4.0 released in December 2021: WZDx is completely open and available at
- <https://github.com/usdot-jpo-ode/wzdx>



Work Zone Data Working Group

- Maintains the WZDx Specification
- Champions open development methods to foster community involvement and support
- Promotes best practices for creating, publishing, consuming, mapping, and analyzing work zone event data and the WZDx Specification



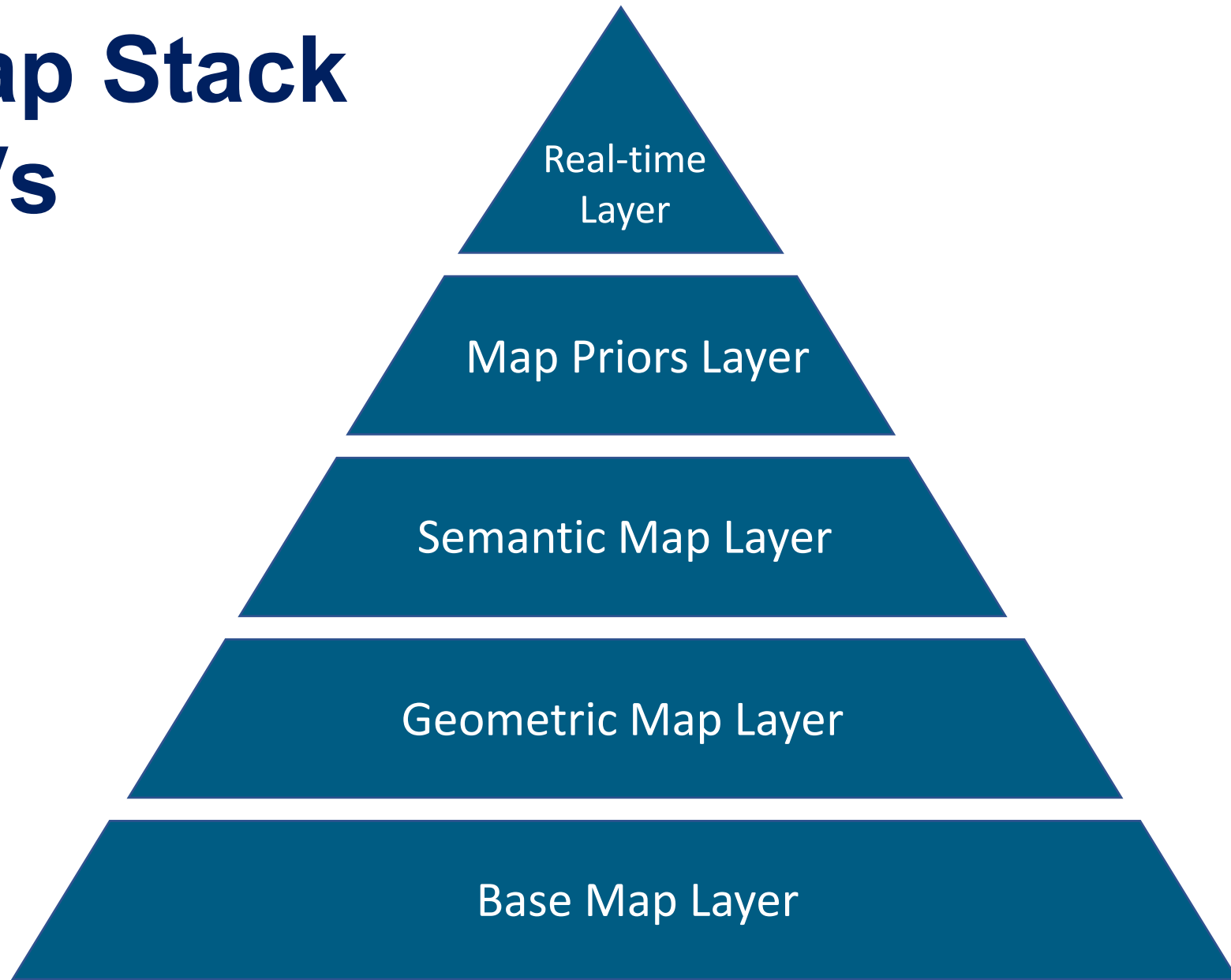
<https://github.com/usdot-jpo-ode/wzdx>

- Documents and meeting notes shared via [GitHub](#) Wiki page

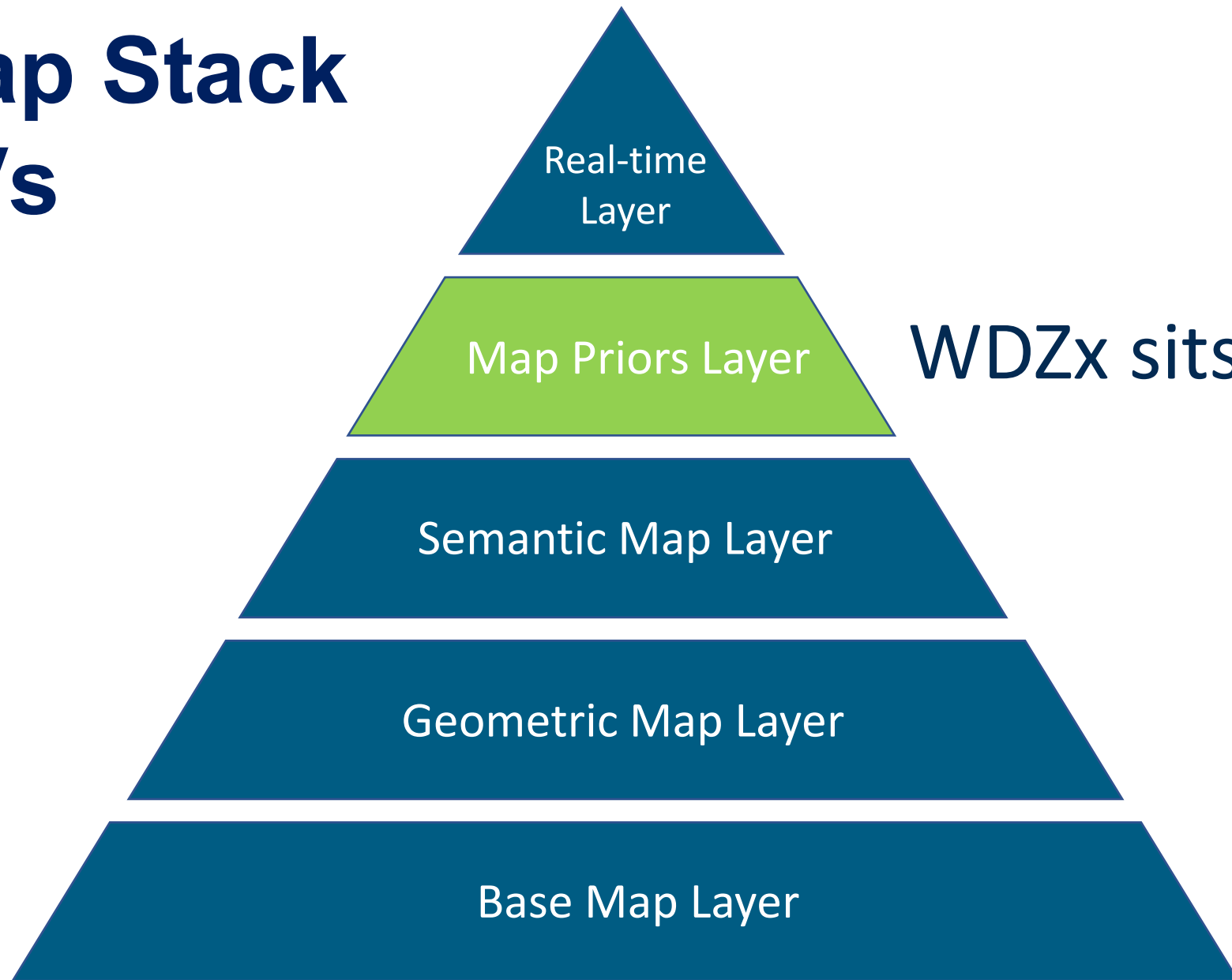
WZDWG Working Groups

Specification Update Subgroup	Update the WZDx specification
Worker Presence Subgroup	Promote the inclusion of real-time information on the presence of workers in work zones
Technical Assistance Subgroup	Identify best practices in implementing feeds
Smart Work Zone Devices Subgroup	Extend the specification to include real-time data from SWZ devices
Specification Extension Subgroup	Identify and draft extensions to the WZDx specification beyond work zones

HD Map Stack for AVs

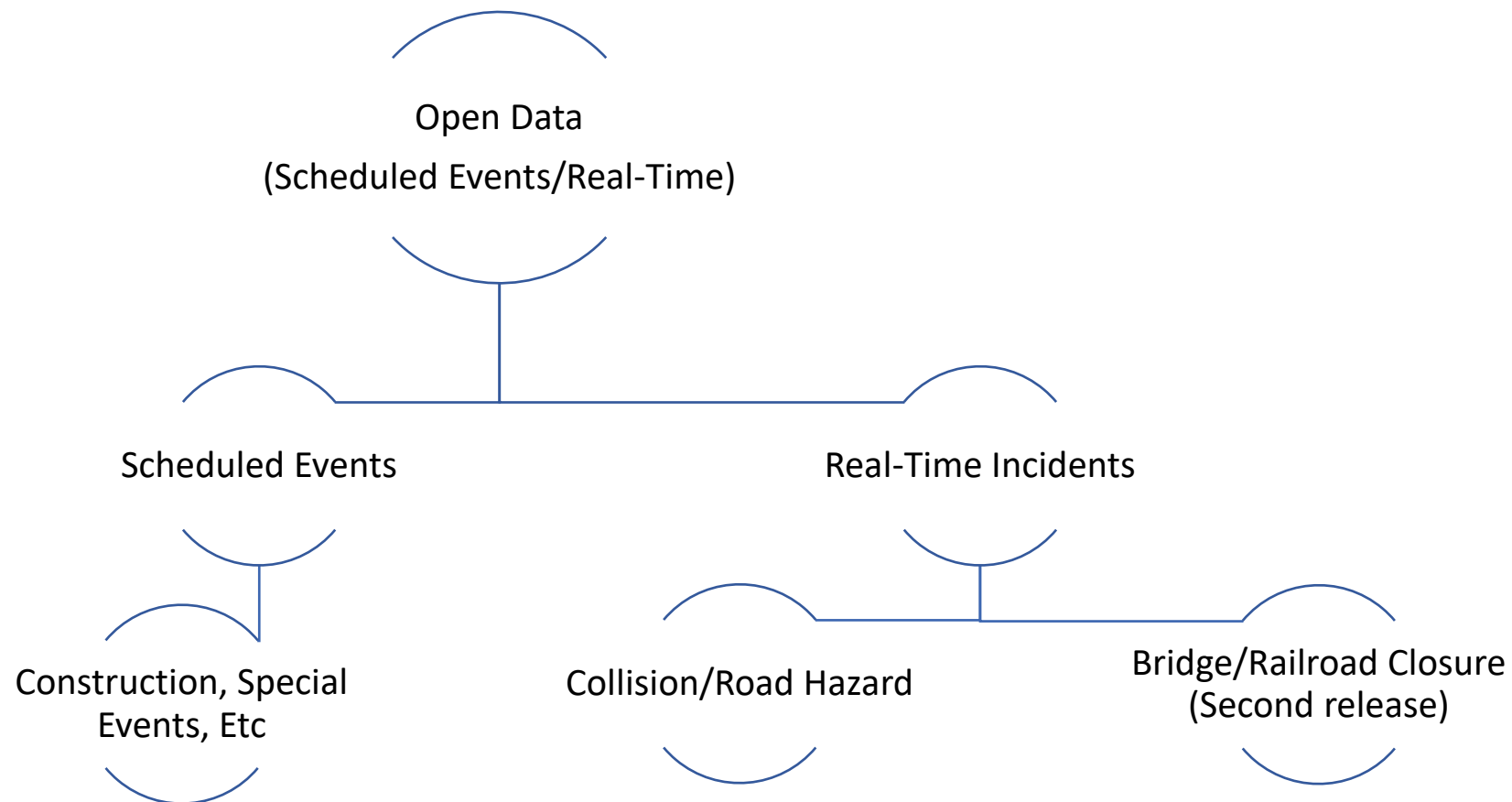


HD Map Stack for AVs



WDZx sits here

SDOT Data Feed



SDOT Data Feed

- [Current ArcGIS Map Service Endpoint](#)
- Next Steps for SDOT
 - Coverage for all of the city
 - Comply with current WZDx specification
 - Join WSDOT's regional feed

WZDx Use Case: Truck Operator Notification of Upcoming Work Zone

- Maricopa County (AZ) and Drivewyze demonstrated using WZDx to send work zone alerts to truck drivers via electronic logging devices
- WZDx feeds can include detour routes around a work zone
- Maricopa County and Arizona DOT will expand the scope of their WZDx feed with a WZDx Demonstration grant in 2021



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



Source:
Maricopa County

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

MDOT & GM Demonstration

- In early November 2021 MDOT set up a pilot v3.1 WZDx feed in coordination with GM.
- The demonstration used a GM Super Cruise-equipped vehicle to navigate around a lane closure using information provided from the WZDx feed.
- More information and materials will be available soon.

Questions?

Craig.Moore@seattle.gov



Resources

To learn more and access available resources, please visit:

- [WZDx Version 4.0 Specification](#)
- [WZDx GitHub Wiki](#) (Day-to-Day Subgroup Activities)
- [WZDx Technical Assistance Help Desk](#)
- [WZDx Data Feed Registry](#)
- [FHWA WZDI Data Dictionary and Framework](#)
- [Work Zone Data Collection Toolset](#)

For more information on the WZDx project or anything else related to the Work Zone Data Working Group, contact AVDX@dot.gov.