WZDx Project

- Building on existing investments to publish a new WZDx-compliant data feed
- Create a program template that other agencies may follow in establishing their own WZDx data feeds
- Demonstrate a flow process to transform estimated to verified lane closure information from Smart Work Zone ITS Devices
- Work with both internal and external Stakeholders

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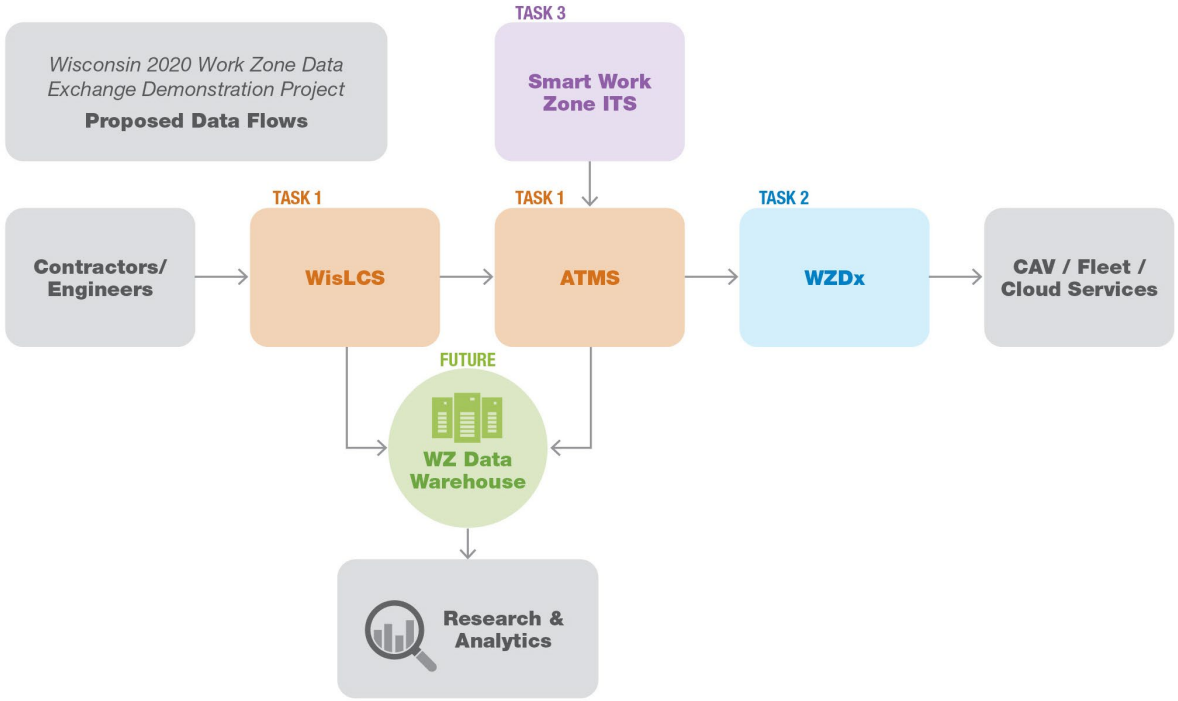
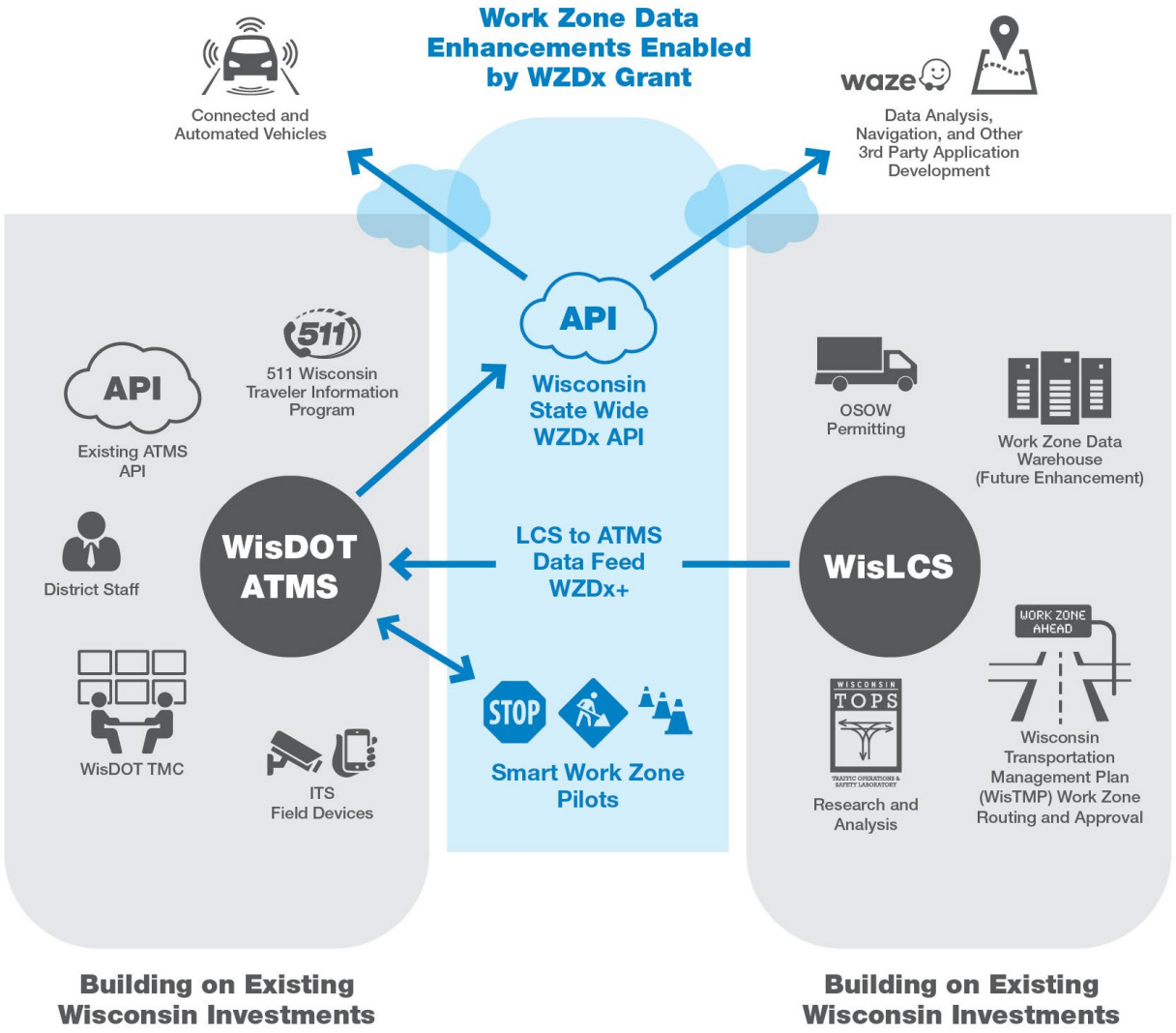
Project Work Plan

1. Develop an internal WZED data service between the WisLCS and ATMS
2. Provide a public facing WZDx compliant data feed as a component of the ATMS, and
3. Incorporate field verified WZED from Smart Work Zone ITS deployments.

FIGURE 2: PROPOSAED DATA FLOWS



Future



U.S. Department of Transportation

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

Work Zone Data Initiative

- FHWA's Work Zone Data Initiative (WZDI), launched in 2017, is an effort to enable easier sharing and application of Work Zone Activity Data (WZAD) across the country.
- WZAD is the "what," "where," and "when" of work zone activities.
- Looking to develop a standard approach for collecting, organizing and sharing data.

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

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

Key Benefits

- Planning and Design
  - Better integration between stakeholders
  - Improved coordination and prioritization of projects to minimize impacts to public
  - Information on past projects for mobility and safety of future projects
- Real-Time Operations
  - Traveler information
  - Future deployment of CAV's
- Historical WZAD Records

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

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

Work Zone Data Exchange (WZDx)

- The WZDx Specification enables infrastructure owners and operators (IOOs) to make harmonized work zone data available for third party use.
- The intent is to make travel on public roads safer and more efficient through access to data on work zone activity.
- Specifically, the project aims to get data on work zones in to vehicles to help automated driving systems (ADS) and human drivers navigate more safely.

Source: https://collaboration.fhwa.dot.gov/wzmp/abouttheWZDx/Forms/EditForm.aspx

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

Work Zone Data Exchange (WZDx)

- Improving access to work zone data is one of the top needs identified through the USDOT Data for Automated Vehicle Integration (DAVI) effort
- Up-to-date information about dynamic conditions occurring on roads – such as construction events – can help ADS and humans navigate safely and efficiently.
- Longer term, the goal is to enable collaborative maintenance and expansion of the specification to meet the emerging needs of ADS

Source: https://collaboration.fhwa.dot.gov/wzmp/abouttheWZDx/Forms/EditForm.aspx

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