

## Next Steps for Work Zone Challenges

Intelligent Transportation Systems (ITS) can be used in work zones to promote worker safety, enhance traveler safety, and improve mobility in a constrained environment. As technology continues to advance, increased opportunities to use ITS in work zones are being realized. ITS devices can aid in reducing crashes, encouraging safer travel speeds for drivers and workers, reducing delays caused by work zones, and informing drivers about travel conditions through construction areas.



### Work Zone Challenges

This project uses the results from MnDOT's "Systems Engineering to Address Work Zone Challenges":

- Work Zone Intrusion Warning System (WIWS)
- End of Queue Warning System for Work Zones
- Distracted Drivers Approaching or Within a Work Zone
- General Mobility Impacts Caused by Work Zone

### Project

To utilize low cost, high benefit technology solutions, it is important to link the appropriate technology with a project, secure funding early in project scoping, and acquire full support by the Project Stakeholders for ITS or Intelligent Work Zone (IWZ) implementation. This project will identify key projects to demonstrate ITS/IWZ technology deployments in order to establish a sustainable approach to address the top work zone challenges.

To achieve these goals this project will:

- Establish and institutionalize a process to identify ITS/IWZ options to address work zone challenges during project scoping. In doing so, this may result in earlier project identification, technology selection, and justification to fund ITS/IWZ technologies. Establishing a process can be accomplished by integrating identification and implementation of ITS/IWZ into the project scoping so that proper planning and funding can be secured for ITS/IWZ prior to STIP approval.
- Develop a sustainable process for annual project selection, standardized procurement packages, ITS/IWZ designs, performance metrics, etc. for ease of future ITS/IWZ deployments that address the top four work zone challenges identified above. All four of these top work zone challenges are in need of solutions which enhance safety, mobility, efficiency and productivity in Minnesota. It is anticipated that this project will result in providing 3-4 easy to deploy systems and an institutionalized process to address these top four work zone challenges.

### Project Partners

MnDOT  
SRF Consulting Group Inc.