Connected Vehicle Data for Work Zone Performance Measures

**Mile-Hours of Congestion: Statewide Interstates**

**Mile-Hours of Congestion: Crawfordsville Interstates**

**Frequency of Deltaspeeds ≥ 15 MPH by Date and Location**

**Purdue/INDOT Team**

**Key Takeaways:**
- Connected vehicle data can be used at both the statewide and work zone level.
- Connected vehicle data can be used to identify critical points.
- Bottleneck locations (recurring or work zone)
- Localized incidents (crashes)
- Regional incidents (weather events and holidays)
- LiDAR-based data collection of geometric features:
  - Can help diagnose critical points.
  - Is reproducible (two separate data sets 6 months apart yielded the same results at the same locations).
  - Can leverage INDOT construction inspector’s time.