



INDIANA DEPARTMENT OF TRANSPORTATION

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Mike Braun, Governor
Lyndsay Quist, Commissioner

Subject: IDOA Request For Information - INDOT AVL Needs

Background: AVL is essential to INDOT's operation. INDOT needs AVL on all dump trucks, passenger vehicles and heavy equipment to meet its mission to the public.

Current Uses: INDOT currently uses Parsons Systems for our AVL on Dump Trucks and Gauge Telematics for our AVL on Passenger Vehicles and select equipment.

Parsons provides GPS data, salt spreader data, digital pre-and post-trip inception, login credentials for tablet, visual weather information in cab, website for desktops including dashboards and raw data reporting, camera images from front camera facing road, and vehicle diagnostics.

Gauge Telematics provides GPS data, and website for desktops including dashboards, raw data and reporting.

Current Needs: We need all of the features and data included in "current uses" above plus the following:
Dump Trucks: We need plow up/down information, visualization and analytics on raw data that comes in from the truck (including, but not limited to: speeding, idle time, spread rate, spread totals, wing plow deployment, immediate alerts on vehicle diagnostics), route completion information, last pass on snow route, manual dashboard configuration and GPS data and messaging information uploaded to INDOT's Work Zone Data Exchange Feed.

Passenger Vehicles and Heavy Equipment: Vehicle diagnostics, visualization and analytics of raw data from the vehicle (including but not limited to: speeding, idle time, lights on/off, immediate alerts on vehicle diagnostics) and GPS data and messaging information uploaded to INDOT's Work Zone Data Exchange Feed.

AI : While not a necessity, any AI that could use our current camera information to identify potholes or other issues in the roadway would be a big help. It would be even more helpful if it could use other customers data in our state to aggregate roadway issues.

INDOT Demo: We are currently doing a demo with Samsara and Geotab at our Wabash Subdistrict located in Wabash, IN. This will cover 12 trucks total, 6 with Samsara and 6 with Geotab. The Demo will last through winter and end on March 31st. The Demo will give us full functionality of the software and trucks. We are looking for how they perform in real time during our "high use" season and success would be if the data and information in real time is good enough for our executives to use to make informed communication to the motoring public and that the aggregate data allows our supervisors and above to make informed decisions about future storms, future buying plans, and day-to-day operational needs.