MoDOT Data
Behind the Scenes

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Statewide Planning Partner Meeting
Missouri Department of Transportation
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MoDOT’s #1 Data Resource
TMS: Transportation Management System

- Applications
- Reports
- Mapping Tools
- Metadata
MoDOT Data Behind the Scenes

Permanent and Portable Traffic Counts
Permanent Traffic Counts
Continuous traffic data collection

- 24/7 365
- 170 Sites statewide
- Rural and urban
- Series of pavement sensors
- Measure axle spacing
- Classifies vehicles into 1 of 13 classes
- Data is uploaded for in-house processing
Portable Traffic Counts
- 3 Year traffic count cycle
- 48 hours
- Rubber tubes and traffic module
Data is uploaded weekly for processing.

- 4500 – 5500 counts annually.
- Collects pavement data and video
- $850,000 x 2
- Collect over 36,000 miles annually
- 4 technicians, 2 per vehicle
Utilize multiple on-board devices

- Forward facing HD camera
- Laser smart bar
- DMI
- 3-D pavement cameras
- 360 camera
Forward Facing HD Camera

- HD camera collects images on demand
Laser Rut Bar

- Measures IRI (International Roughness Index)
Accurately measures distance
3-D Pavement Camera

- Captures 3-D image of the pavement
360 Degree Camera

- Collects a 360 view
A look inside the van…

Data collected from

- Front facing HD camera
- Smart bar
- DMI
- 3-D Pavement camera
- 360 camera

is processed through onboard computers.
Operator’s View During Collection
Traffic data is processed and prepared for FHWA.

Yearly process to convert raw counts into AADT.
Collection is complete – now what?

- Road construction
- Emergency planning for detours
End of Calendar Year

- Data validation/cleanup
- Batch jobs annualize raw data
- Snapshot of current year data available February 1 of next calendar year
TMS Traffic Data

TMS Data Zone AADT Map
Collection is complete – now what?

Video used internally to look at features such as guard cable, guardrail, signs, rumbles, etc.
Collection is complete – now what?

The pavement data is used for reporting purposes.
Collection is complete – now what?

Capture post flooding video needed for matching funds from FEMA
Collection is complete – now what?
Yearly Data Package

Roadway, Bridge, Traffic, Crash

All Files > Transportation_Data_2017

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Safety First

Questions?