

VRS Video Clip's



Work Zone Watch



VRS Camera's on TMAs in the States most vulnerable areas

- **Chris Engelbrecht, Safety & Emergency Management Director**
- **Jill Bruss, Area Engineer, Kansas City District**





Truck/Trailer Mounted Attenuator
(TMA)

TMA on the Job



Work Zone Stats

133 MoDOT workers lost their lives on the job since 1932.

33 lives lost in Workzones in Missouri in 2023

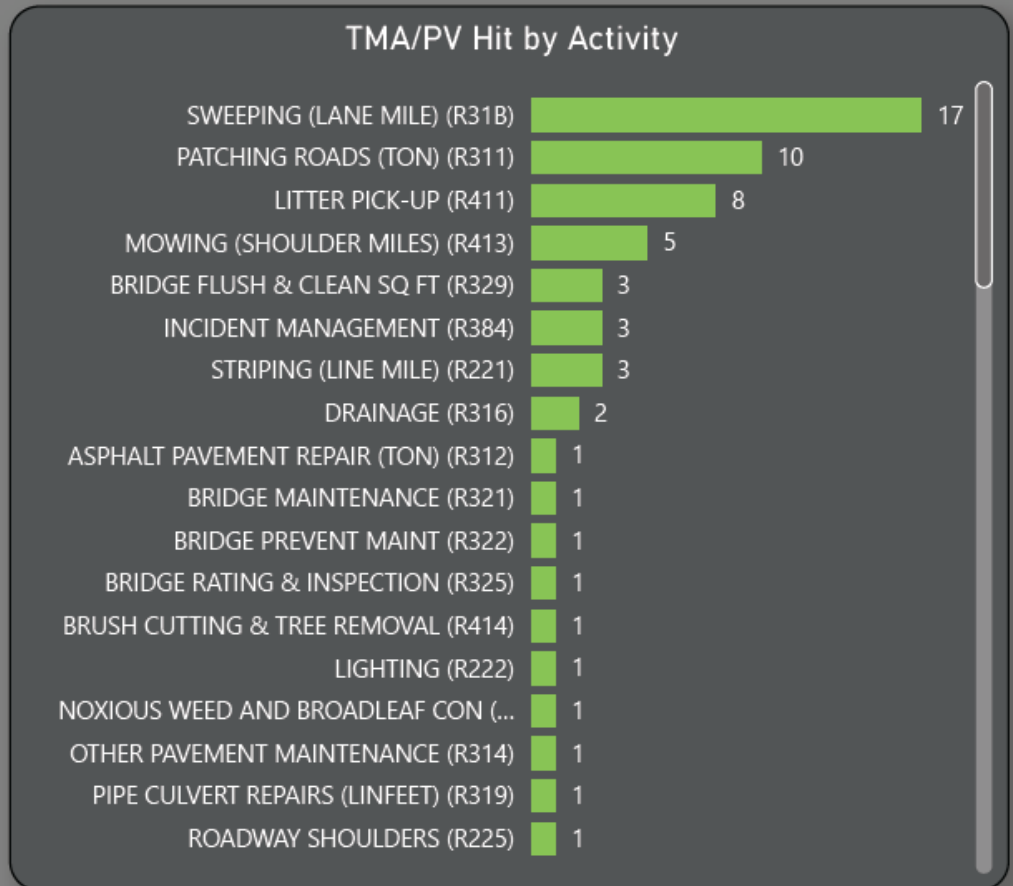
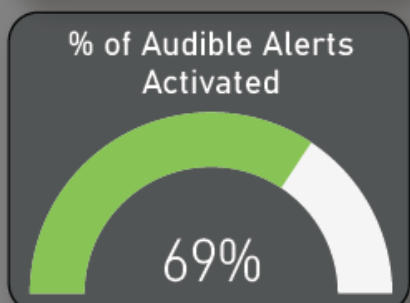
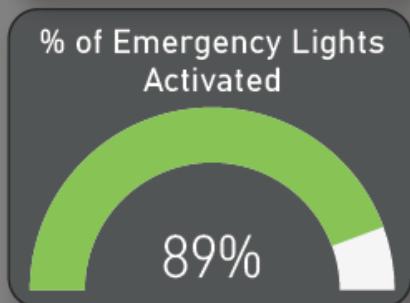
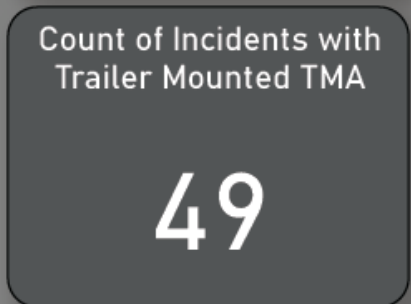
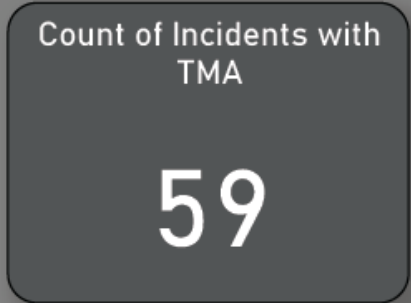
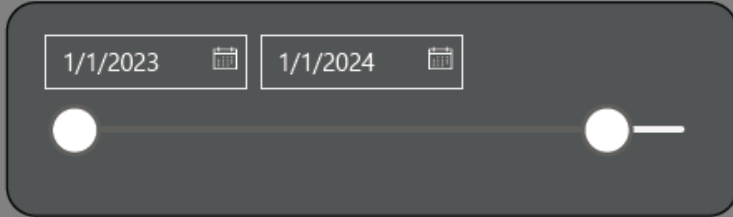
2023 59 MoDOT TMAs hit

41 in 2 districts, Kansas City & St. Louis



MMS Safety Management: TMA/PV

*Only contains incidents with status of Level 2 Reviewer through Completed Status



TMA CRASHES 2022

DISTRICT LOCATION



LANE LOCATION



TIME OF DAY

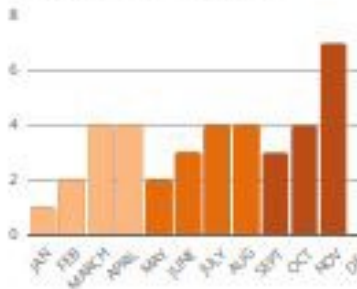


WORK BEING PERFORMED



*OTHER OPERATIONS INCLUDE BRIDGE FLUSHING, SPRAYING, SALTING, REPAIRING EDGE RUTS, CLEANING DRAINS AND MORE.

TIME OF YEAR



TMA STRUCK



36 TOTAL CRASHES

TMA Injuries to MoDOT Worker	TMA Injuries Third Party	TMS Crashes
2018- 4	2018- <u>4</u>	2018- <u>34</u>
2019- 2	2019- <u>0</u>	2019- <u>36</u>
2020- 0	2020- <u>0</u>	2020- <u>48</u>
2021- <u>0</u>	2021- <u>0</u>	2021- <u>61</u>
2022- <u>5</u>	2022- <u>7</u>	2022- <u>36</u>
2023- 20	2023- 0	2023- 58

Protecting our Assets

1. Why are so many TMA's getting hit? Many hit and run. How can we lesson this number to protect both workers and traveling public?
2. Rear Facing Dash Cam to record and view incident.
3. Potential Funding Source Identified – CO Maintenance Safety Funds

Joint initial planning from Maintenance & Highway Safety & Traffic



Protecting our Assets

St. Louis District mostly of truck Mounted

KC District mostly of trailer mounted TMAs.

Springfield 22 cameras putting them on the TMAs in the urban corridor

St. Louis	Kansas City	Springfield
86	92	22
Truck Mounted	Trailer Mounted	Truck Mounted

Project Delivery

Project Approval

July Of 2020 approval from legal allowed Central office to begin the RFP process:

- Chief Counsels Office, General Services, Maintenance, Highway Safety & Traffic, Safety & Emergency Management, Information Systems, Individual Districts from fleet management to end users. writing specs for the RFP
- RFP went out 3/22

Contractor Selection

- RFP Called for trial installation
- Striping Services & Supplies submitted
- Trial installation in St. Louis on 2 TMAs summer 2022.
- Contract awarded and Agreement signed 7/22

1. Central Office Highway Safety & Traffic solicited the RFP and Executed the Agreement
2. Agreement for 500 Camera's outfitted, entire statewide fleet.
3. Decision to outfit our most vulnerable Districts first as a trial project before going statewide.

Obstacles;

- Staff Turnover.
- New Design Liaison Ray Shank and myself started on the project in Sept 22 with contractor ready to install.
- Simultaneously getting internal policy reviewed and to the finish line
- Organize/Schedule 200 installs in KC and St. Louis



Administering & Executing Contract

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Project Delivery



Adapting for different District needs

St. Louis fleet was mostly truck mounted, truck was always utilized with the TMA, so mounting the monitor in the truck on the dash.

KC fleet is all trailer TMAs and wired so any truck can hook to any TMA. KC decided to not mount the monitors and rewire the monitors so they can be plugged into auxiliary power to make sure camera is pointing the right direction and powered on.



Camera's in Action
