2021 GHSA Annual Meeting

Virginia Traffic Records Electronic Data System (TREDS)

September 11-15, 2021



Before TREDS Centralized Accident Processing (Mainframe)

- No state law/mandate for electronic reporting
- 9,000+ law enforcement
- 116,000+ paper police crash reports
- Missing 40% of CMV crash data

- NO electronic crash reporting
- 12-16 month backlog
- NO inter-agency sharing
- Data quality is incomplete, inconsistent, inaccurate

RED rating Federal Government

(Non-compliant with National Standards)

What did we do....?

- Created a new crash form including a CMV page to conform with national standards
- Replaced 25 year old legacy system
- Launched Virginia's Traffic Records **Electronic Data System (TREDS)**

- Automates and centralizes the Commonwealth's crash information
- Consolidates crash and highway related data into one accessible database
- Transforms data into various formats for reporting, mapping and analysis

100%

Electronic submission

- 325 business rules
- 55% auto accepted
- 88% LE submissions within 0-7 days
- 99.99% crash location data verified

Automates priority of crash reports based on crash type

- 1st priority fatal crashes
- 2nd priority CMV crashes
- 3rd priority medical related crashes

GREEN rating Federal Government

TREDS Data Share Points – 0 to 16

Crash Data

Driver-Vehicle-Records

Roadway System

VT-Crash Location Data

MC Student Training Data

Click-It-or-Ticket Data

DUI Strikeforce Data

Medical Review Data

Uninsured Data

Ignition Interlock System

SafetyNet Data

FARS-CRSS-CISS

Vital Records

Conviction Data

BAC (Forensic Science)

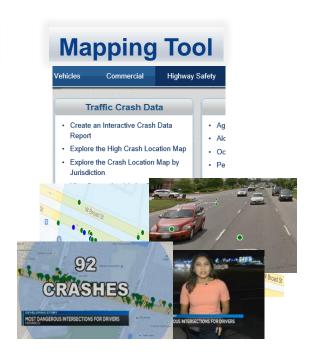
Reverse Integrations



TREDS

Real-Time Reporting







Best Practices in Integrations

FARS/CRSS/CISS - EDT Ignition Interlock

Virginia FARS (Fatality Analysis Reporting System)

VA FARS/EDT – What is it?

- Daily electronic transfer of fatal crash data between Virginia and NHTSA
- 800 fatal crash records are transmitted yearly

VA FARS/EDT - Benefits

- Pre-codes 120 FARS fields (61%)
- Reduces data entry time 2 hours a day
- Eliminates data entry errors

Virginia CRSS (Crash Report Sampling System)

What is CRSS ...?

- Estimates the overall national crash picture
- Identifies highway safety problem areas and measure trends
- **Drives consumer information** initiatives

VA CRSS/EDT

- Average 122,000 crash records are transmitted yearly
- No PII information
- Data transmission is encrypted

Virginia CISS (Crash Investigation Sampling System)

What is CISS ...?

- Randomly samples crash reports
- Collects data on injury and fatal crashes involving at least one passenger vehicle
- Obtains evidence from the crash site (skid marks, fluid spills, and struck objects)
- Documents vehicle crash damage

VA CISS/EDT

- Average 8,600 crash records are transmitted yearly
- No PII information
- Data transmission is encrypted

Virginia Ignition Interlock System

Virginia's Ignition Interlock System 2012 Baseline ...

- 24 local ASAPs and 4 vendors
- Manual workflow process
- No standardized statewide Ignition Interlock System
- No automation/technology

Ignition Interlock System One Year Later

- Automated and integrated 24 ASAP offices and 4 vendor systems
- Reduced the time to create a case from 10 minutes to 2 minutes

Ignition Interlock System

- 108% increase of cases from 2012 (4,725) to 2019 (9,845)
- 76,000+ electronic cases created and tracked since 2013

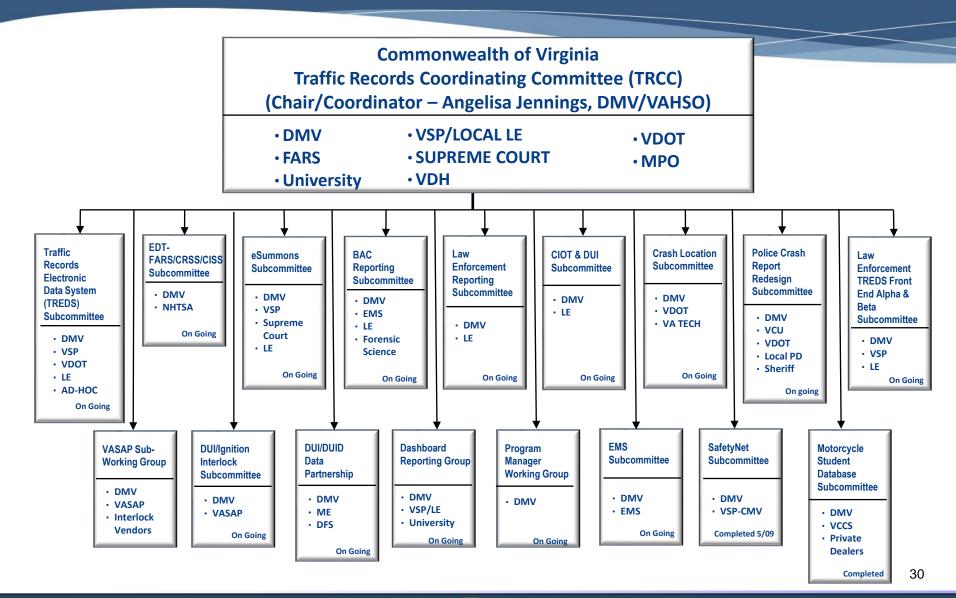
How did WE get here YOU ASK ... ?

- Virginia Highway Safety Office is located at DMV
- Access to the Crash/Driver/Vehicle **Systems**
- Began building partnerships one by one (TRCC expansion)

Traffic Records Coordinating Committee

- 3 members in 2006
- **16 members in 2021**
- 17 subcommittees with members assigned as needed

Traffic Records Coordinating Committee



Future Enhancements

Future Enhancements

- VPic integration with NHTSA
- Auto populate driver/vehicle fields in **TREDS and Ignition Interlock System**
- Citation integration with TREDS



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Thank you

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