

Overview:

- ☐ Signal Four Analytics is a statewide interactive, webbased geospatial crash analytical tool.
- ☐ Developed by and hosted at the University of Florida, Geoplan Center.
- ☐ Application site: <u>S4Analytics (signal4analytics.com)</u>
- ☐ Informational site: <u>Signal Four Analytics (ufl.edu)</u>

Target Audience:

☐ Developed for Florida Government Agencies:

Law Enforcement, Traffic Engineering, Transportation Planning, School Transportation, Injury Prevention, Universities, Other Organizations related to Traffic Safety. For questions on access, you can refer to the information website and request account section.

☐ Private Contractors/Consultants that are contracted by Florida public agencies.

Support and Funding:

- ☐ Funded by the State of Florida-Florida Traffic Records Coordinating Committee (TRCC)
- ☐ TRCC's mission is to improve traffic information systems in the state.
- ☐ TRCC manages federal funds available.

Florida Traffic Records Coordinating Committee (fltrafficrecords.com)

Support and Funding:

☐ TRCC Representatives Include:

Department of Transportation

Department of Health

Department of Highway Safety and Motor Vehicles

Agency for Health Care Administration

Florida Highway Patrol

MALYTICS

Signal Four Analytics Focus:

- ☐ Accessibility
- ☐ Timeliness
- ☐ Utilization
- ☐ Geospatial Analytics

Signal Four Analytics Database Records:

- ☐ Crash Records nearly 7 million from 2011 to date, received nightly from FLHSMV.
- ☐ Citation Records over 35 million from 2011 to date, received nightly from the FCCC.

GIS Roadway Database:

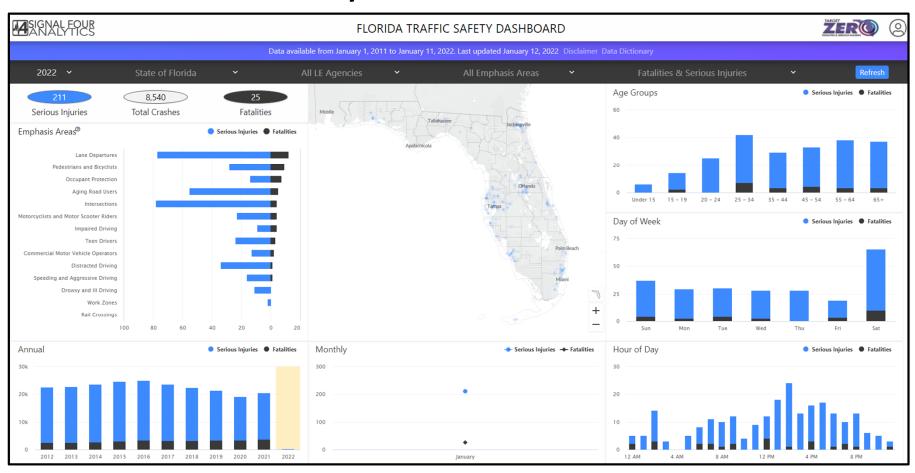
☐ GIS Streets:
☐ Navteq Florida, Unified Basemap
☐ Crash Mapping
☐ Law Enforcement Officers on site (30%)
☐ The rest:
☐ UF Batch Automatic Geocoding
☐ Editor Mapping
☐ UF editor mapping (Orange, Osceola, Seminole)
☐ Alachua county (in house staff)
☐ Other

S4 Features-New Application Launched Dec 2020:

- A. Main Features
 - 1. Public Facing Dashboard
 - 2. Record Search
 - 3. Standard Reports
 - 4. Event Analysis
- **B.** Data Dictionary
- C. Data Download
- D. Future Features

A. Main Features:

1. Florida Traffic Safety Dashboard

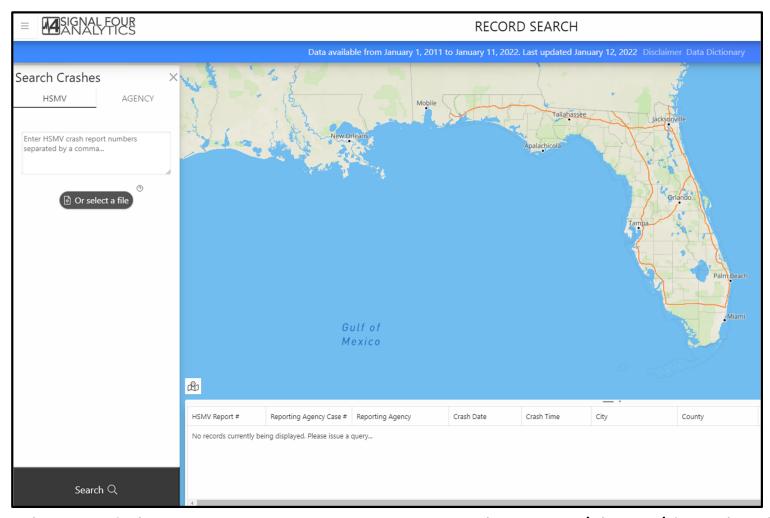


Public facing, no login required. Works on modern browsers.

Masignal four analytics

A. Main Features:

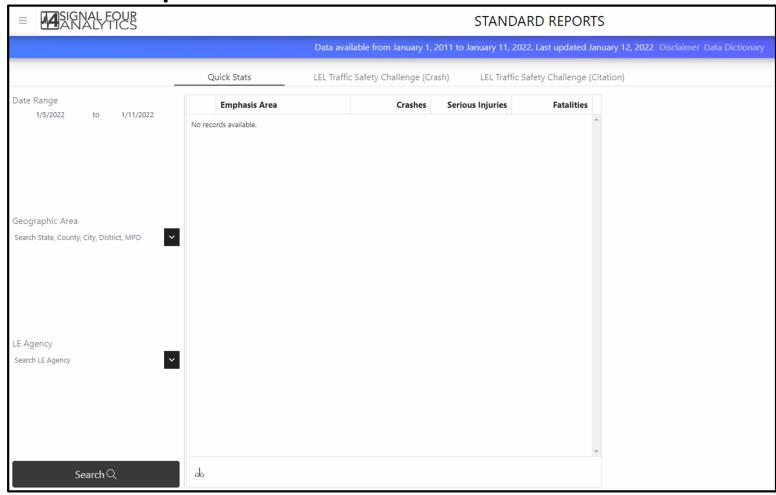
2. Record Search



Ability to search records by HSMV or Agency Report Number, map/charts/download available.

A. Main Features:

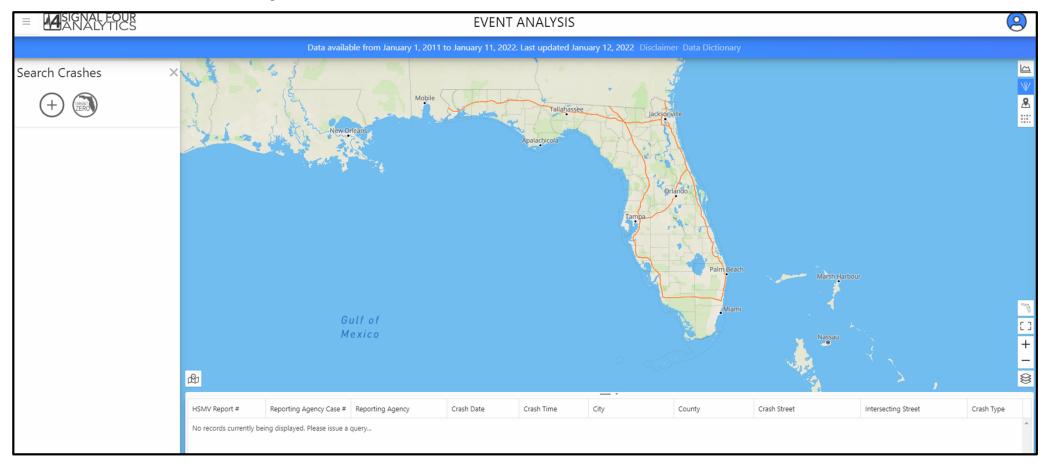
3. Standard Reports



Ability to pull quick stats for concept papers/LEL Challenges, option to download.

A. Main Features:

4. Event Analysis



Ability to search by new query/Emphasis Area query, download and expanded filter options.

A. Main Features:

4. Event Analysis Features:

Ability to filter by either a new query option or Emphasis area option.



New Query



Emphasis Area Query

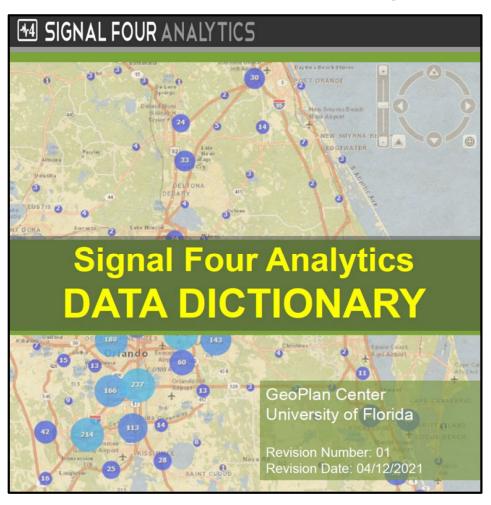
A. Main Features:

- 4. Event Analysis Features:
- ☐ New Query-Expanded Filter Options by category of:
 - Circumstances, Participants, Vehicles
- ☐ Emphasis Area Query- Emphasis Area and Crash Severity filter options.
- ☐ Common to both:

Expanded download, multiple legend options, expanded time period, street/intersection/custom network options, custom draw tool, map visualization, multiple basemap options.

MALYTICS

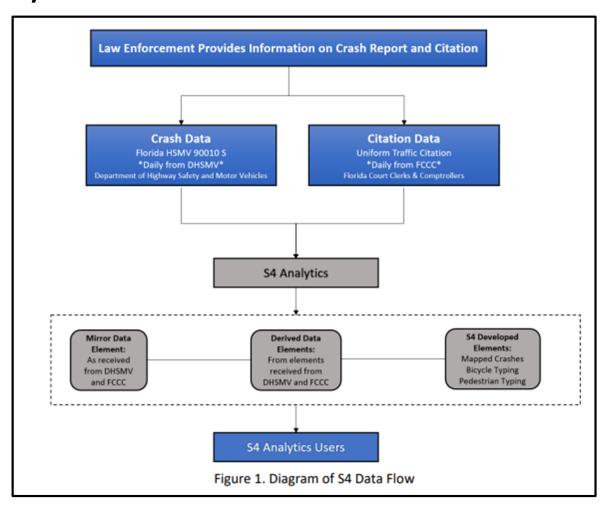
B. Data Dictionary Available



- Table of Contents
- Signal Four Analytics Data Dictionary
- Glossary of Terms
- Appendix
- Table of Index

B. Data Dictionary

Data Dictionary: Data Flow

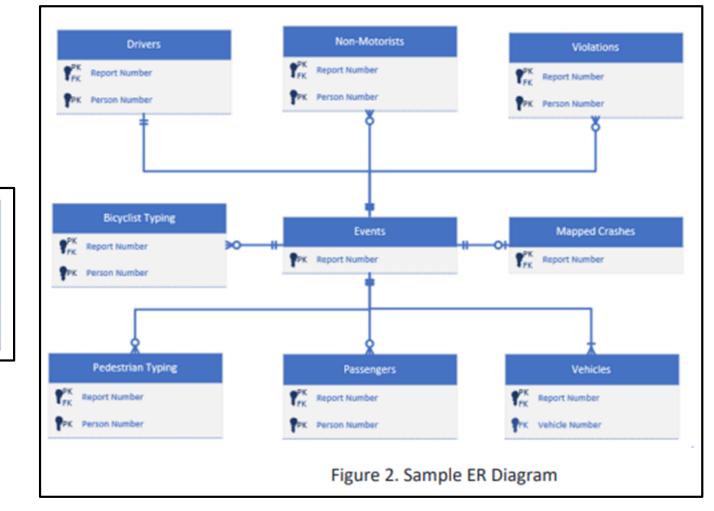


B. Data Dictionary

1 and only 1

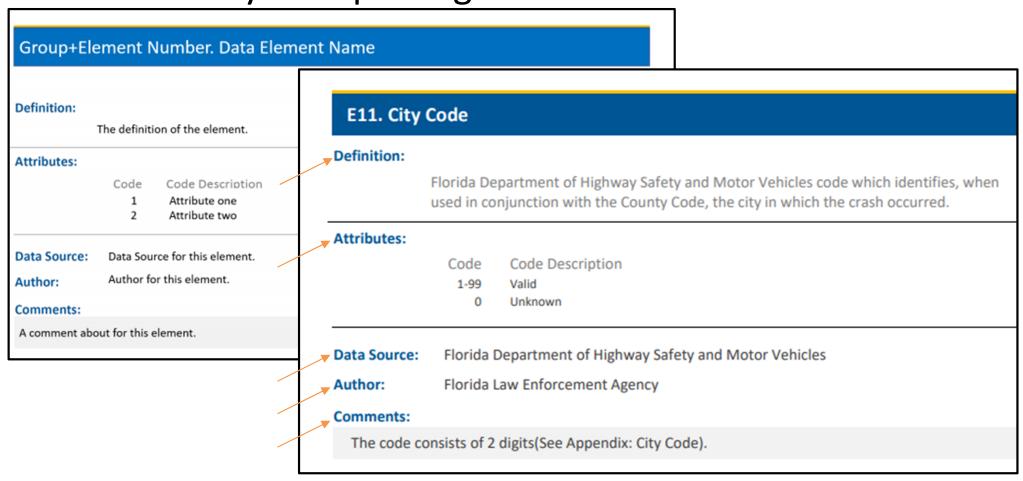
Foreign Key

Data Dictionary: ER Diagram



B. Data Dictionary

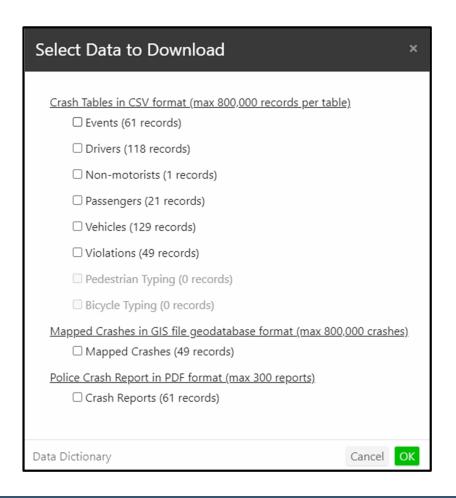
Data Dictionary: Sample Page

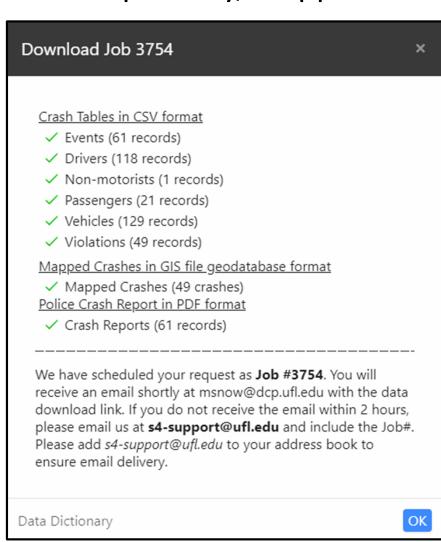


C. Data Download

Data Download: Options to select tables separately, mapped crashes

and crash reports.





C. Data Download

Data Download: Sent to email on file.

The crash data you requested on 9/8/2021 1:42 PM from Signal Four Analytics (job# 3754) is now available for download. The compressed file size is 7.62 MB.

This file will be available for download for 3 days till 9/11/2021 1:42:30 PM. If you miss downloading the file by then, you will have to put in a new data download request in Signal Four Analytics.

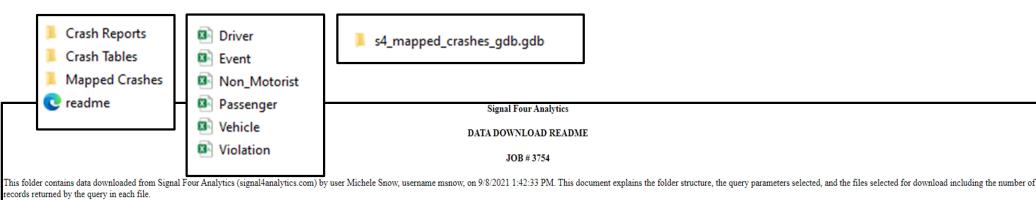
Click here to download the data

Please contact us at s4-support@ufl.edu for any issues regarding this download and reference the download job# 3754.

Best regards,
Signal Four Analytics Team
GeoPlan Center
University of Florida
s4-support@ufl.edu

C. Data Download

Data Download: Crash Tables, Mapped Crashes, Police Reports, Readme File



DATA FOLDERS

The downloaded data is provided in three folders

- . Crash Tables contains the crash data in csv format including events, drivers, non-motorists, passengers, vehicles, violations, bicycle typing and pedestrian typing.
- . Mapped Crashes contains a GIS file with only the crash records that have been mapped. The unmapped crashes are not included in this file.
- Crash Reports contains individual police crash reports in PDF format.

OUERY PARAMETERS

```
dateTime:
 startDate: 9/1/2021,
endDate:9/7/2021
reportingAgency: {
Gainesville Police Department
```

FILES DOWNLOADED

- · Events (61 records)
- Drivers (118 records)
- Non-Motorist (1 records)
- Passengers (21 records)
- Vehicles (129 records)
- · Violations (49 records)
- Mapped Crashes (49 crashes)
- Crash Reports (61 reports)

D. Future Features

- ☐ Network Analysis
- ☐ Citations
- ☐ Saved and Shared Queries
- ☐ Improvements to User Management Functionality
- ☐ Additional Analytical Features (Power Users)
- ☐ Integration of DOT's CAR functionality

Training Link:

https://ufl.zoom.us/rec/share/7_Tiry7g7JXlnRXxh7KKpvXw-FilyQhQZLUMuWC0HIbZ5PW7J4UiA6iO77jtA37S.UW2Xggy3bj6d MEyV?startTime=1638988533000

