2022-2023
Crash & UTC Data Improvement Grant

Presented by Melissa Gonzalez

FLHSMV
FLORIDA HIGHWAY SAFETY AND MOTOR VEHICLES

HIGHWAY PATROL FLORIDA

Crash Objective

Expand the crash data dictionary and/or Uniform Traffic Crash Report Manual to include edit checks and validation rules, links to other data systems and/or data elements populated from other traffic records systems to improve traffic record accuracy and completeness.

Plan and Logistics:

- Label crash data dictionary elements that are being populated by other traffic records databases
- Work with internal IT to identify any supplemental fields

Next Steps:

Advertise/ Hire grant staff to continue efforts

Crash Objective

Create a performance metric(s) for interfaces with the driver and vehicle systems to improve accuracy of the data submissions to the Crash, UTC, Driver and Vehicle Systems.

Plan and Logistics:

- Identified driver and vehicle fields being auto populated by LEA for crash and citation reporting
- Request crash and citation sample from FLHSMV database
- Compare fields such as DL # /person against the driver and vehicle database
- Identify accuracy issues (non matches)

Next Steps:

Advertise/ Hire grant staff to continue efforts

Uniform Traffic Citation Objective

Successfully implement the S2S System by identifying and resolving duplicate credentials to improve uniformity of driver history data.

Current Status:

- State to State full system testing continues to meet the implementation of the driver history record component go live date- January of 2023.
- Approval to hire 2 OPS record technicians was received

Next Steps:

Advertising is in place to hire grant staff to continue efforts

Uniform Traffic Citation Objective

Create a performance metric with respect to preventing and resolving duplicate record processing.

Current Status:

- Approval to hire 2 OPS record technicians was received

Next Steps:

Advertising is in place to hire grant staff to continue efforts

Information to know from Crash Records

Crash Closeout 2021

- 2021 Fatalities = 3,740
- 2020 Fatalities = 3,332
- 11.5% increase over 2020

Next steps:

Office of Performance Management is in the process of generating annual Traffic Crash Facts Report.

2022-2023
Crash & UTC Data Improvement Grant

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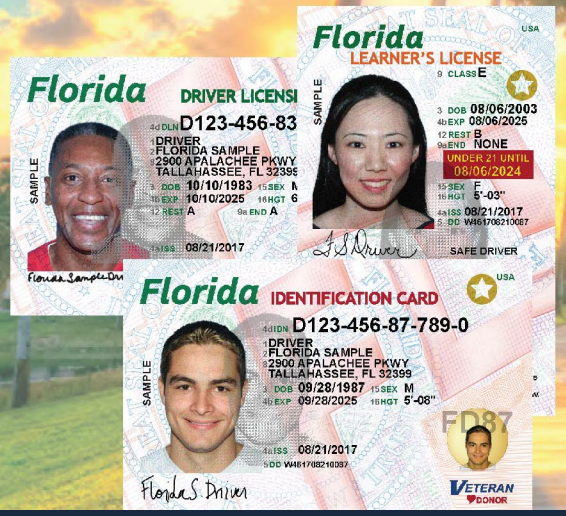

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HIGHWAY PATROL FLORIDA

FFY 2023
Driver and Vehicle Data Quality Improvement Grant

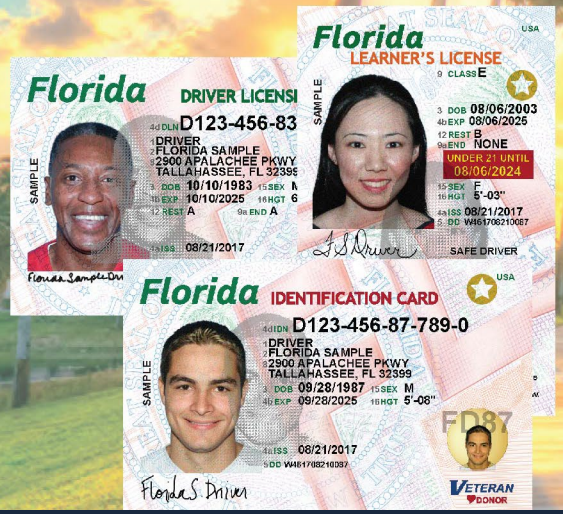
Asher Lucas, OPS Project Analyst

Grant Objectives

- Create a project plan to implement project goals for the driver and vehicle data systems.
- Develop at least one performance measure for the driver records system, including baseline measurements, and establish numeric goals to evaluate performance.
- Develop at least one performance measure for the vehicle records system, including baseline measurements, and establish numeric goals to evaluate performance.
- Identify recommendations for ongoing monitoring of data quality management and evaluation for the driver and vehicle systems.

Status

- SSN Verification Flag
  - With some exceptions, everyone with a DL should have a yes/no verification flag on their record.
- DL Record Purge Process– Some DL records are not purging according to our business rules. The rules where we are seeing the issue are:
  - Deceased drivers
  - Drivers with expired licenses ≥ 18 months
  - Non-licensed drivers
- Temporary Tag Fraud
  - Dealers issue more than two temporary tags to the same person/vehicle (among other scenarios)



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FLORIDA HIGHWAY SAFETY AND MOTOR VEHICLES

HIGHWAY PATROL FLORIDA

Questions?

Contact: AsherLucas@flhsmv.gov

Department of Health

Traffic Records Coordinating Council Project Update

EMS Field Data Collection

December 2, 2022

EMS Field Data Collection

Luis Dominguez
Project Director

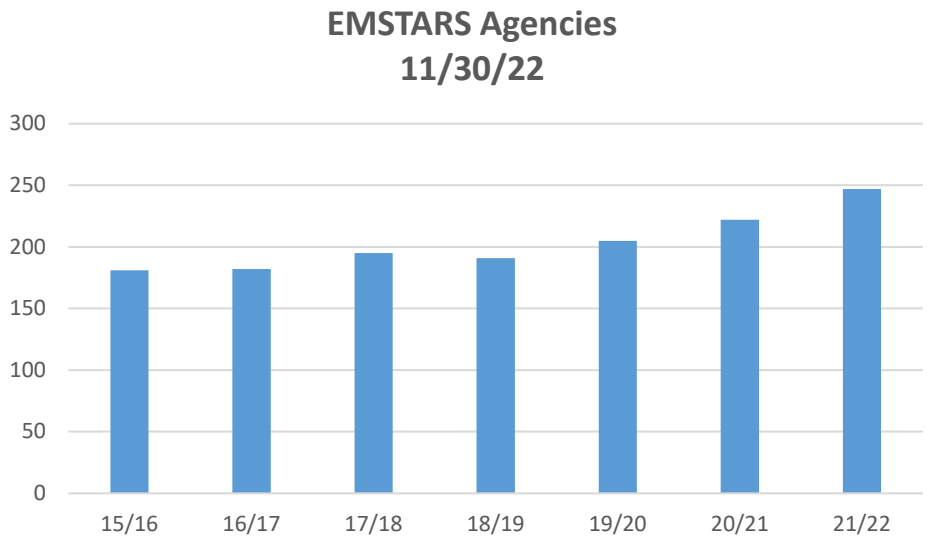
Brenda Clotfelter
Project Manager

Florida Department of Health

FY 22/23 Objectives

Completeness

Increase % of EMS agencies submitting to state incident level repository to 90% by 9/30/23



81.5%

1.5%

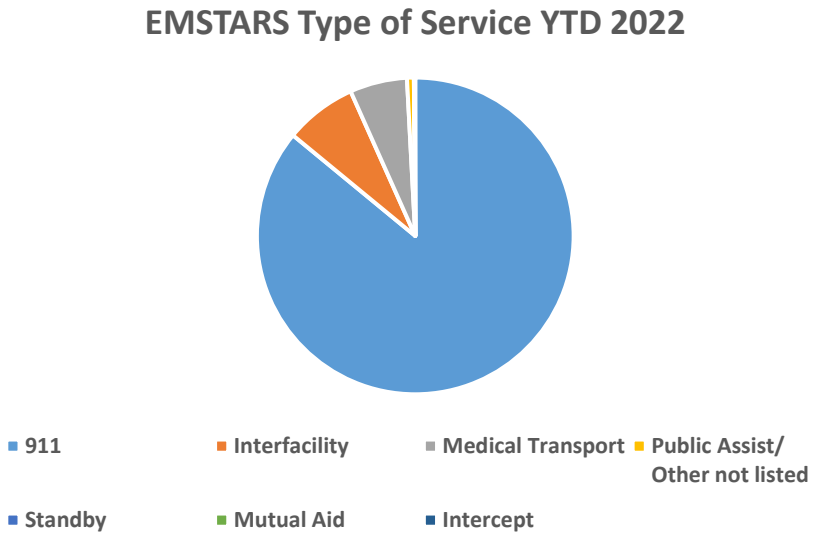
303 total agencies
247 in EMSTARS
61 in Aggregate

FY 22/23 Objectives

Completeness

Increase % of EMS emergency run reports submissions to the state repository to 100% by September 30, 2023.

98%



Note: Data Committee is now monitoring measures of all types of runs, not just 911

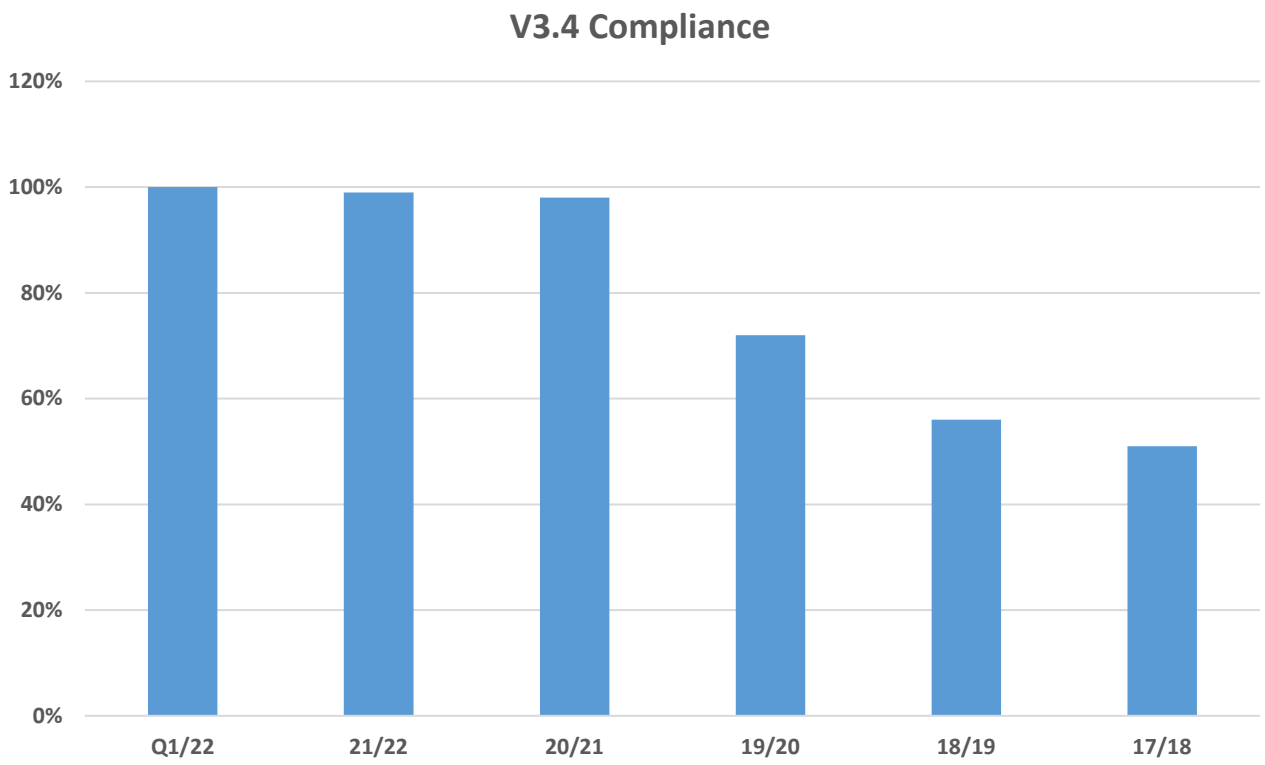
FY 22/23 Objectives

Uniformity

Increase % of EMS emergency run reports submitted in compliance with NEMSIS Version 3.5 to 50% by September 30, 2023

0%

Expect agencies to begin transition 1st qtr. 2023
V3.4 = 247



FY 22/23 Objectives

Uniformity/Accuracy

Publish an update to the Florida Data Dictionary with business rules for NEMSIS 3.5 by September 30, 2023.

- **Updated Data Dictionary to include Iteration 1 Business Rules and Defined lists for procedures and medications 11/29/22**
- **Working with Vendors to ensure V3.5 readiness**
- **Developing Implementation Tools for EMS agencies for transition**

FY 22/23 Objectives

Completeness

Participate in NEMSIS Technical Advisory Conference and NASEMSO annual meetings to finalize the implementation strategy.

- Participate in NEMSIS Technical advisory calls – biweekly

Conduct four EMS Advisory Council Data Committee worksessions to continue maintaining Florida data standards, business rules and implementation best practices consistent with NEMSIS.

- EMSAC Data Committee 1/18/23 - scheduled

FY 22/23 OBJECTIVES

Accuracy

Monitor and report (quarterly) on a minimum of three data quality measures in addition to the NEMSIS data quality measures by September 30, 2023 (Measure data quality around 3 state Clinical performance measures).

Overall NEMSIS Data Quality ***91%***

- ***Patient Information*** ***97%***
- ***Cardiac Arrest*** ***91%***
- ***Valid System Times*** ***98%***
- ***Cause of Injury*** ***79%***
- ***Clinical Times Recorded*** ***79%***
- ***Other incident Information*** ***97%***

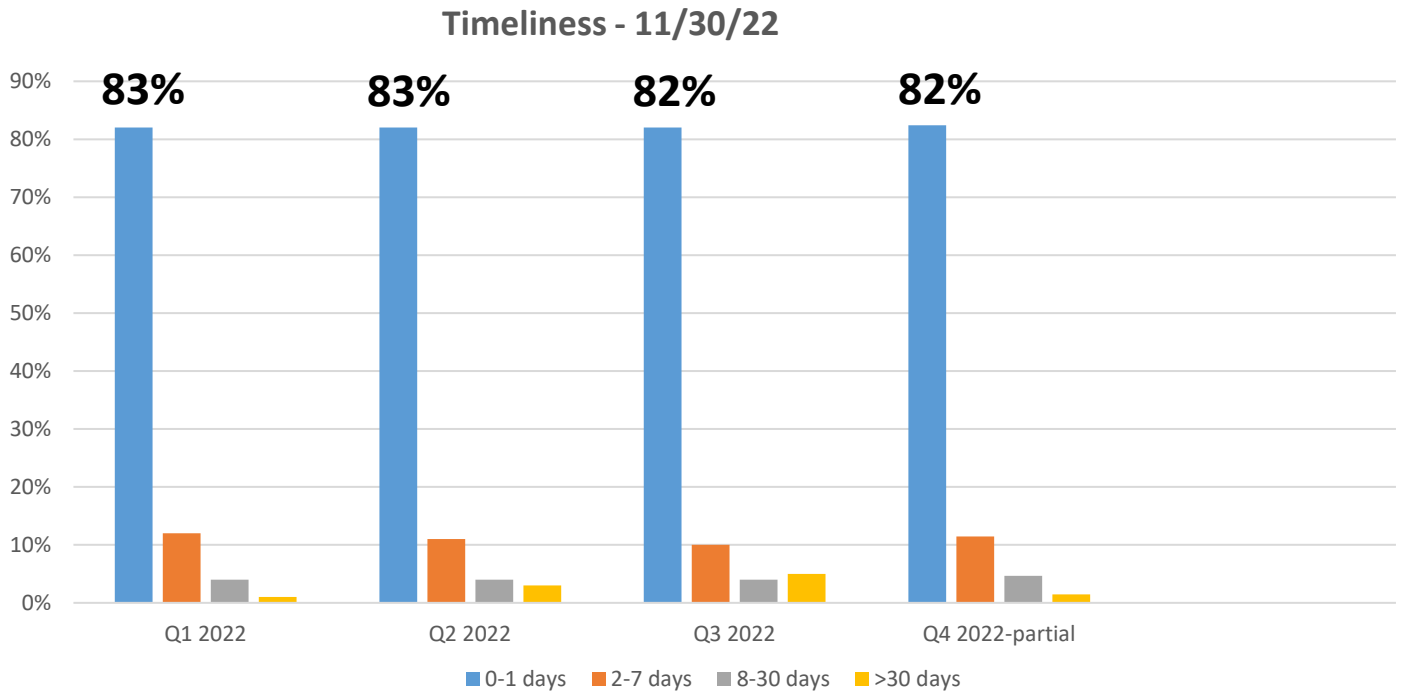
Identification of clinical performance measures in progress

NEMSIS V3 Data Quality Dashboard

FY 22/23 Objectives

Timeliness

Increase % of V3 EMS emergency run reports received within 10 hours of the run to 70% by September 30, 2023



% may vary based on resubmissions

FY 22/23 Objectives

Timeliness

Increase % of agency Demographic records resubmissions received every 30 days by September 30, 2023

Measure in development and will be implemented 1st Qtr. 2023

FY 22/23 Objectives

Integration

Link two additional data sources to the EMS state repository by September 30, 2023.

Current integrations within Biospatial

- **Health Information Exchange**
- **Crash Records – *automated feed TBD***
- **ESSENSE Integration**
- **Trauma Data**
- **Florida Stroke Registry – in progress – target 1st qtr 2023**

FY 22/23 Objectives

Accessibility

- Continuing to utilize BioSpatial for repository and data accessibility
- Implemented improvements to State EMS Strategic Measure Dashboards
- Working to provide additional dashboards for users

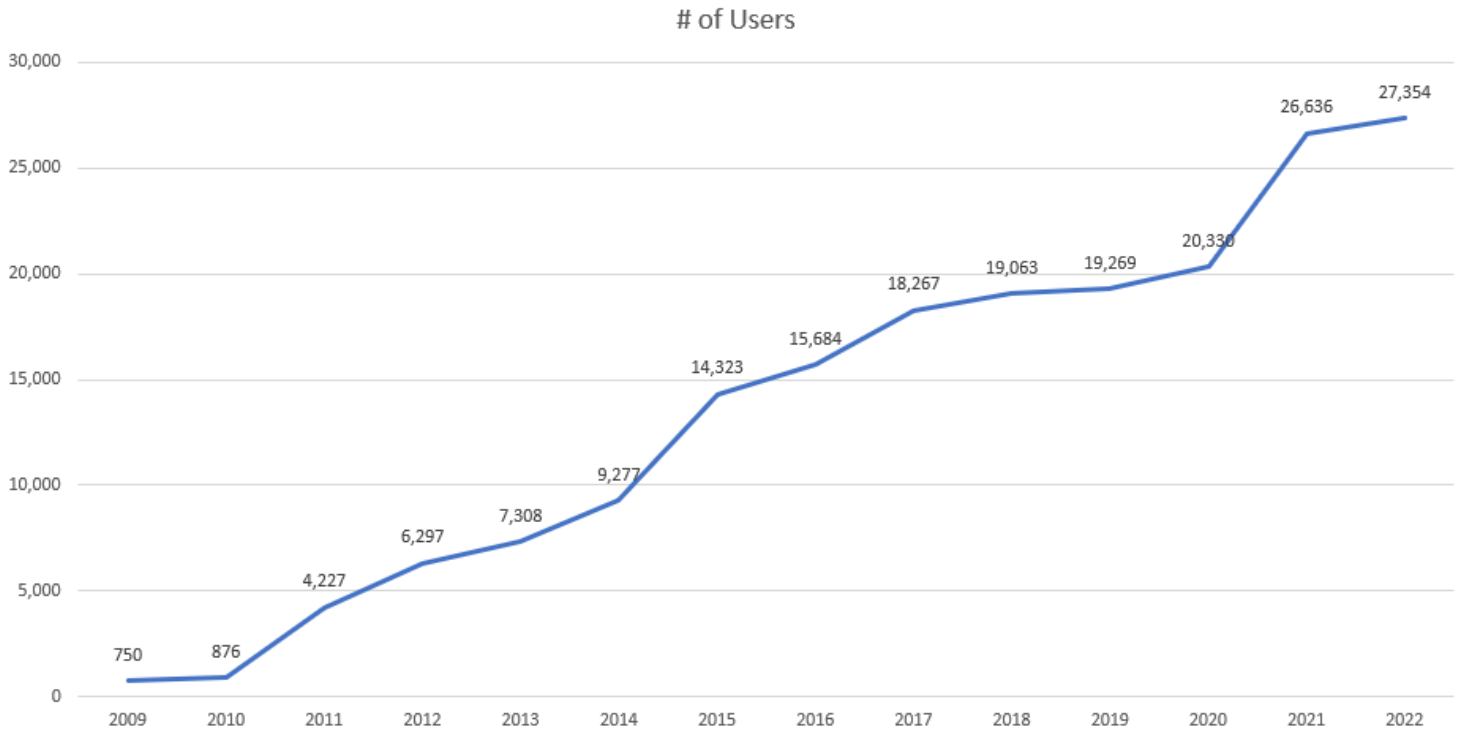
FLORIDA STATE UNIVERSITY

December 2, 2022

TRAFFIC AND CRIMINAL SOFTWARE

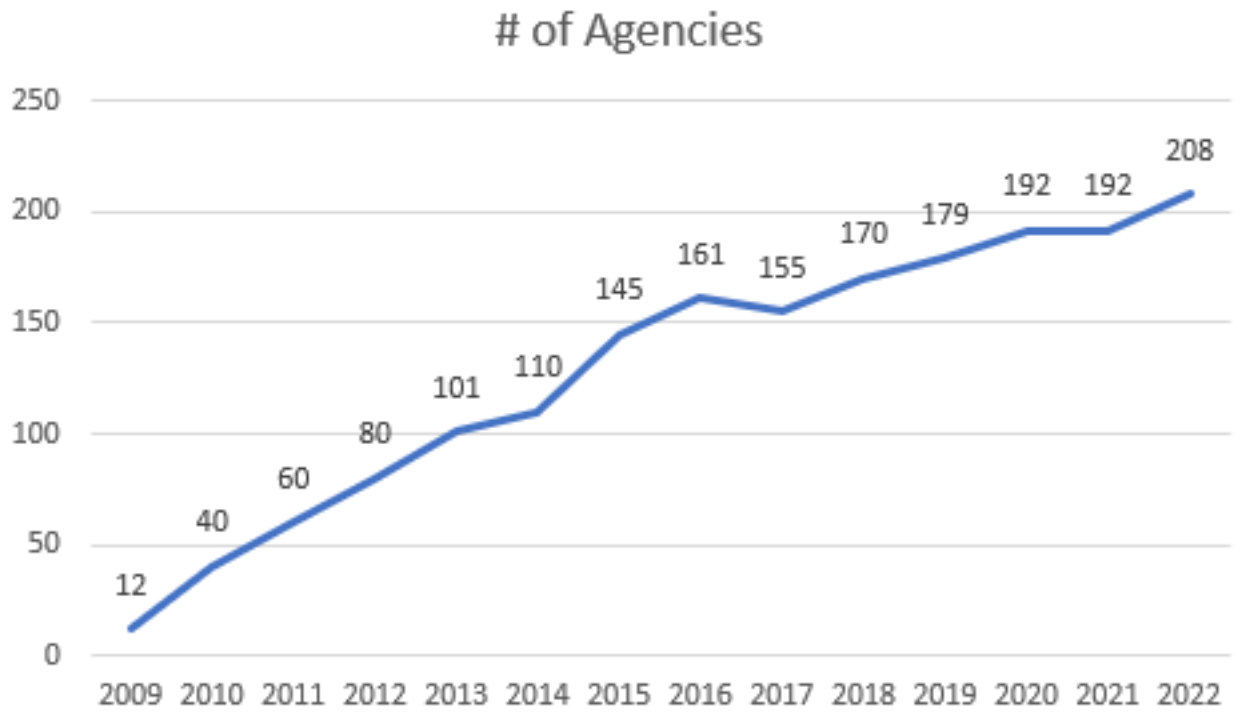
TraCS Growth - Users

- Users
  - 2008: 750
  - 2022: 27,354



TraCS Growth - Agencies

- Agencies
  - 2008: 12
  - 2022: 208

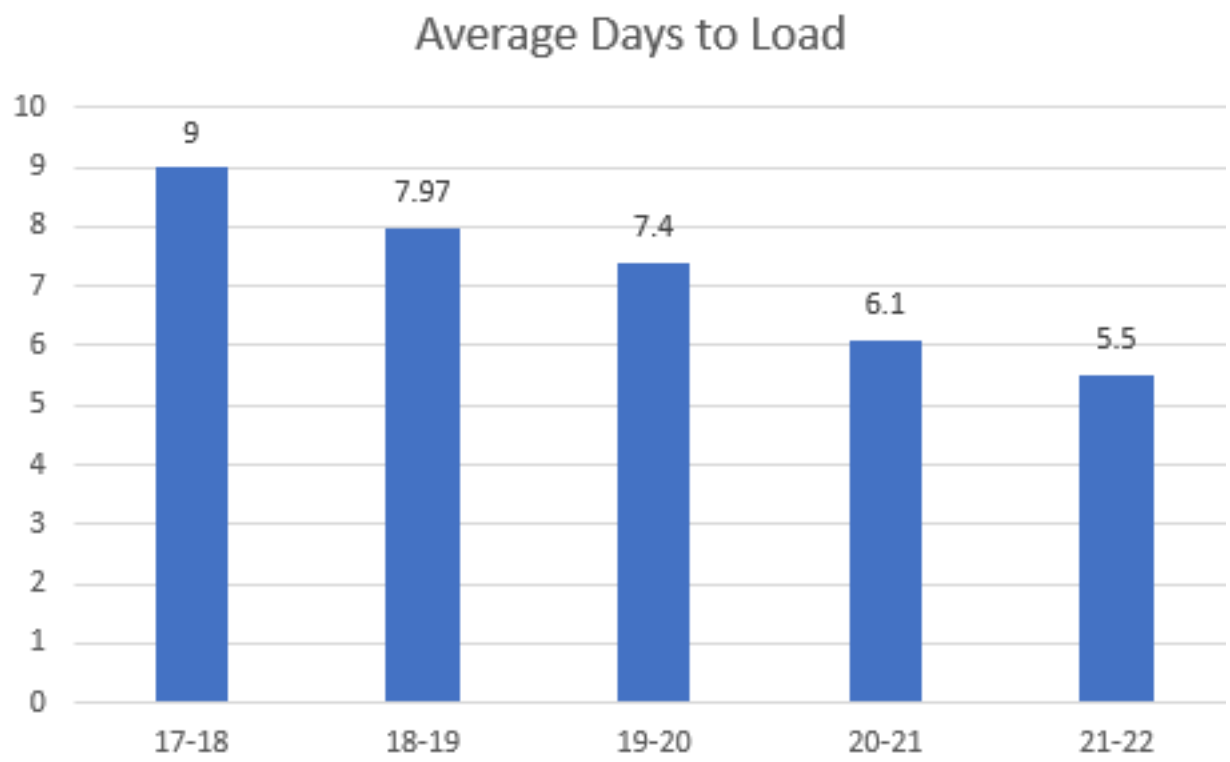


TraCS Growth – New Agencies

- Bay County Schools PD
- Bunnell PD
- Edgewater PD
- Fort Lauderdale PD
- Orange City PD
- Orlando PD
- Pembroke Park PD

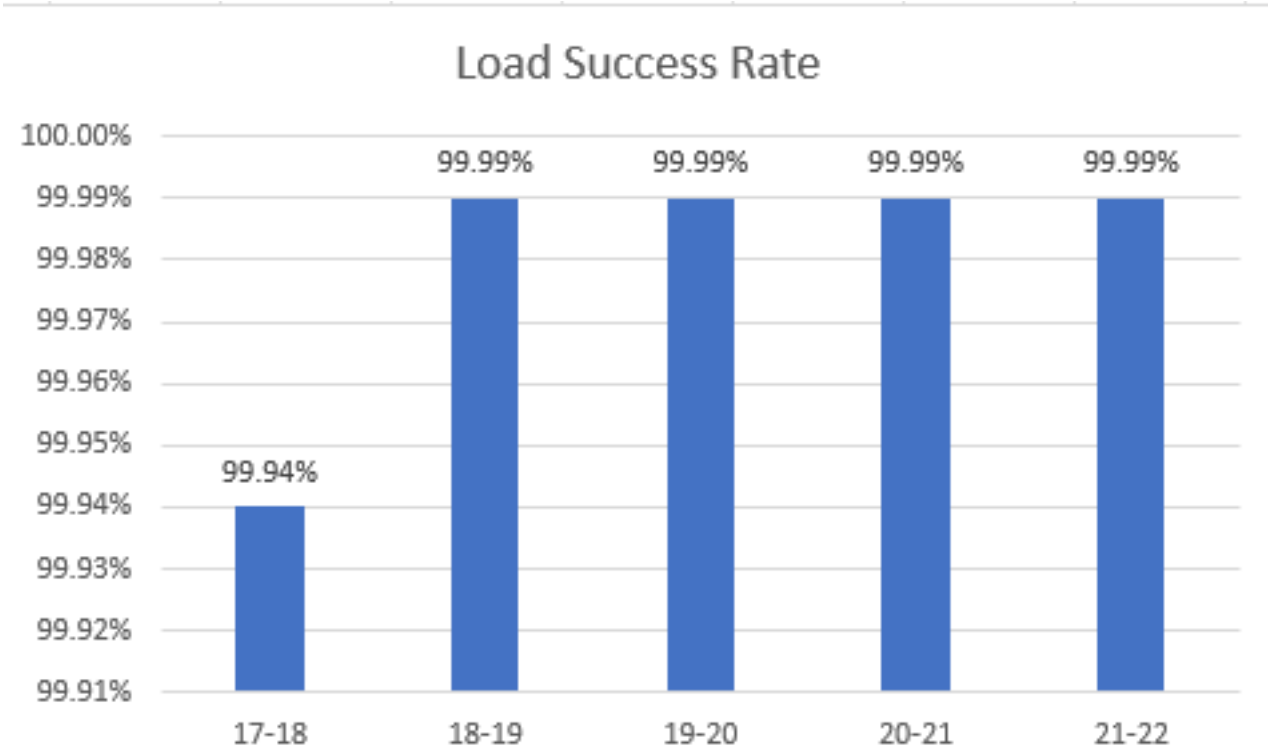
Objective 1: Timeliness

- To encourage TraCS agencies to maintain a low average delay between the initial crash date and the date on which the data is entered into state crash databases owned by DHSMV.



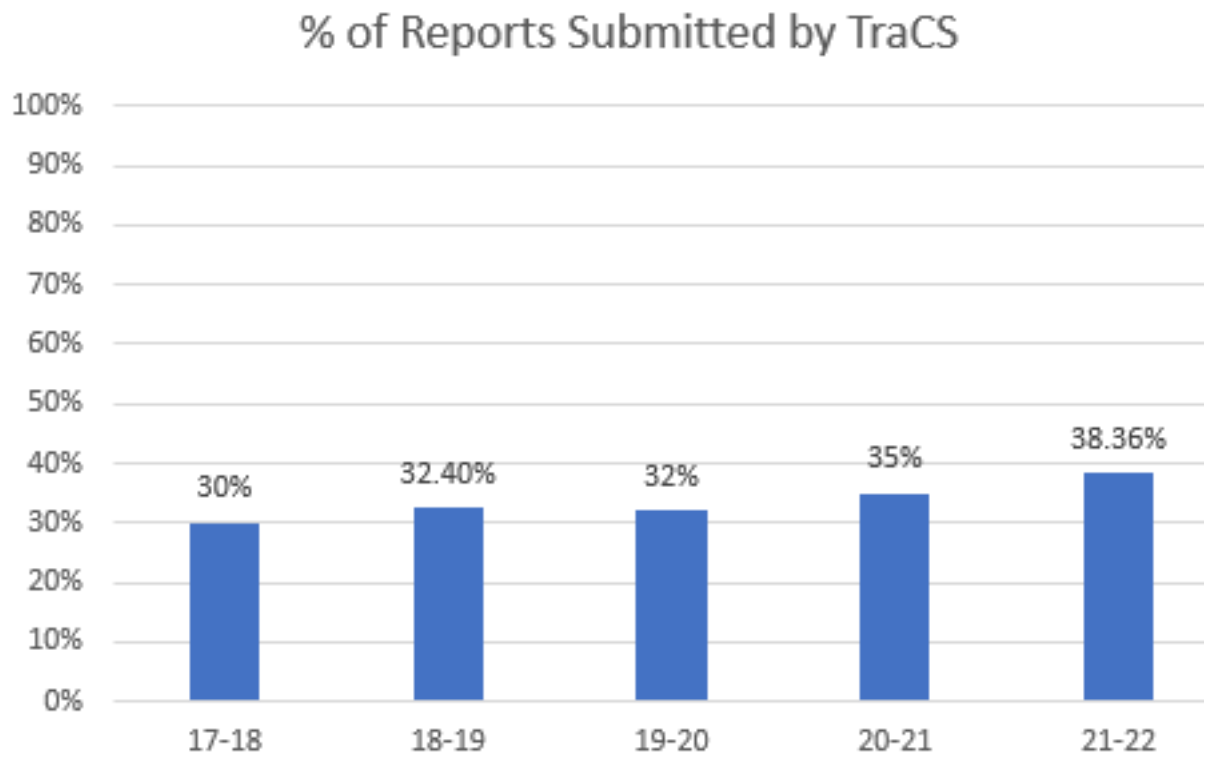
Objective 2: Accuracy

- To maintain the low number of load errors for crash reports submitted electronically to DHSMV using TraCS at less than one percent.



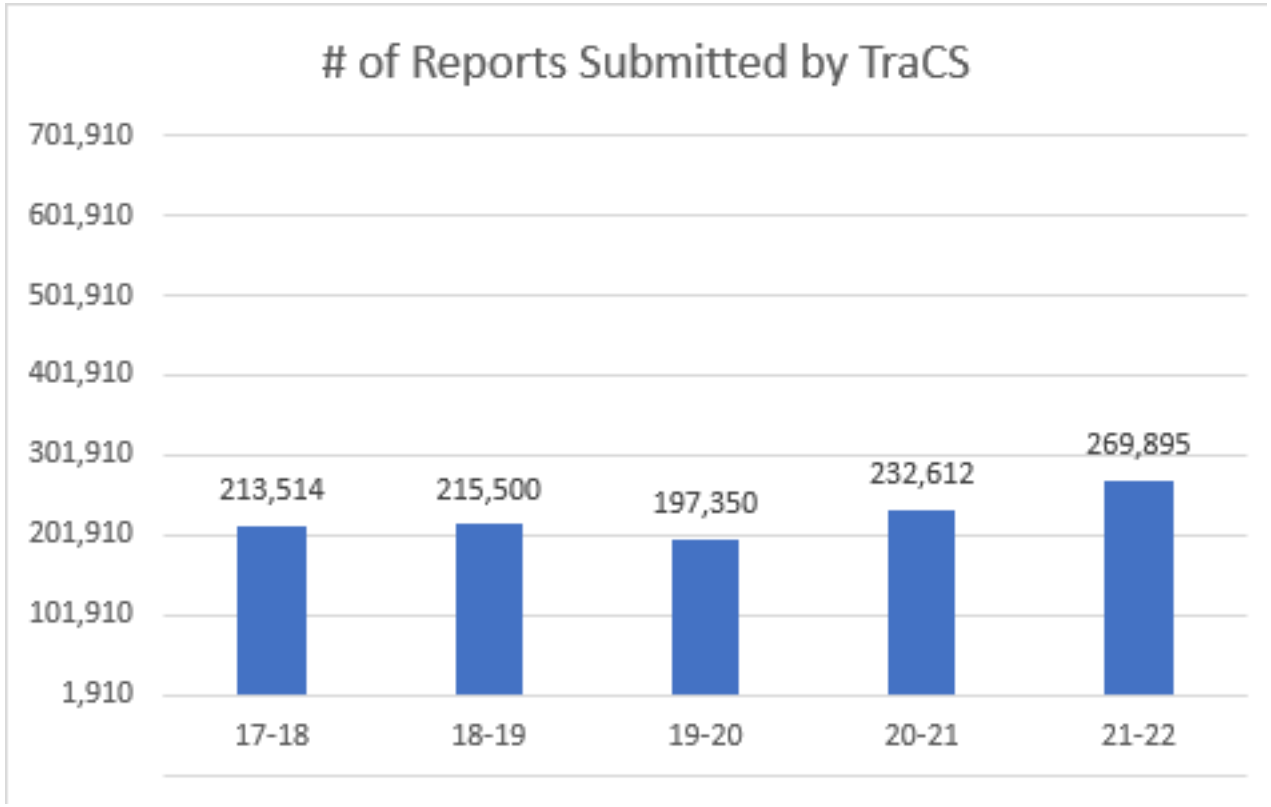
Objective 3: Completeness

- To maintain or increase the total percentage of statewide **crash reports** submitted electronically by agencies using the TraCS Florida software.



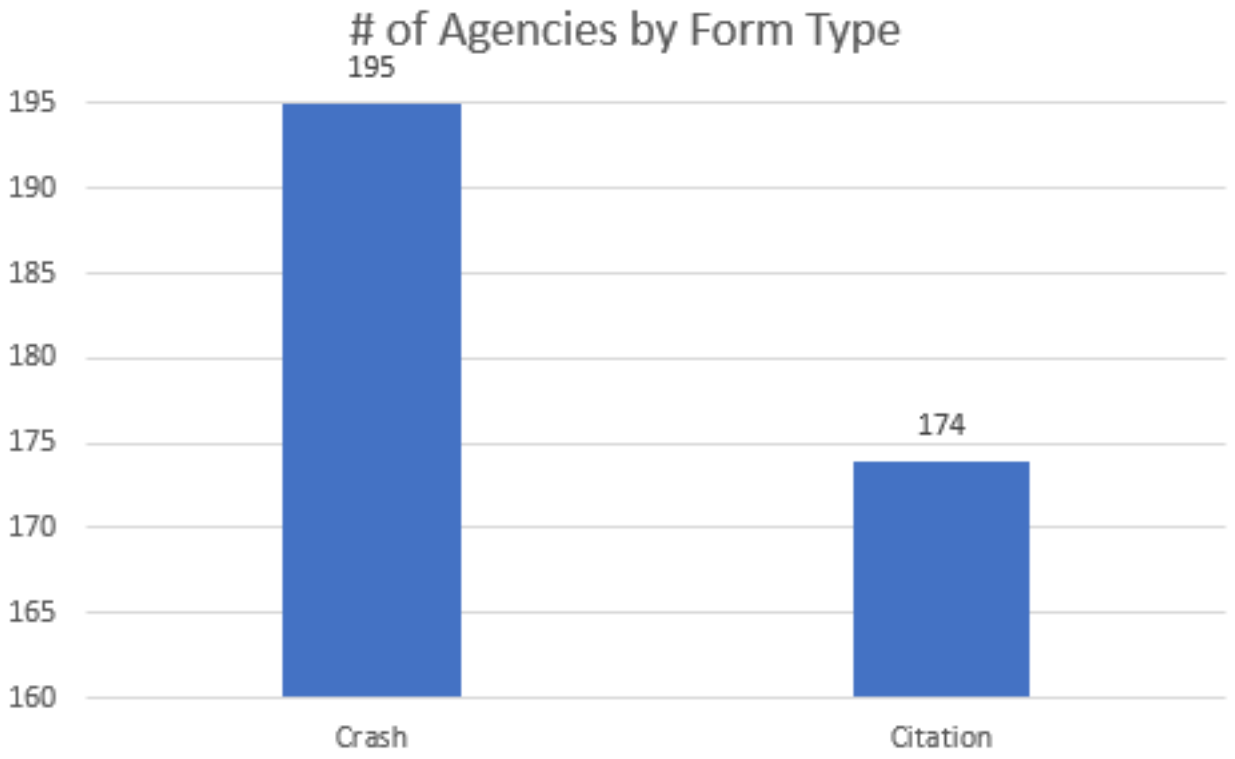
Objective 3: Completeness

- To maintain or increase the total number of statewide **crash reports** submitted electronically by agencies using the TraCS Florida software
- Total crash count of 703,667 is for 10/1/21-9/30/22 obtained from Signal 4 Analytics



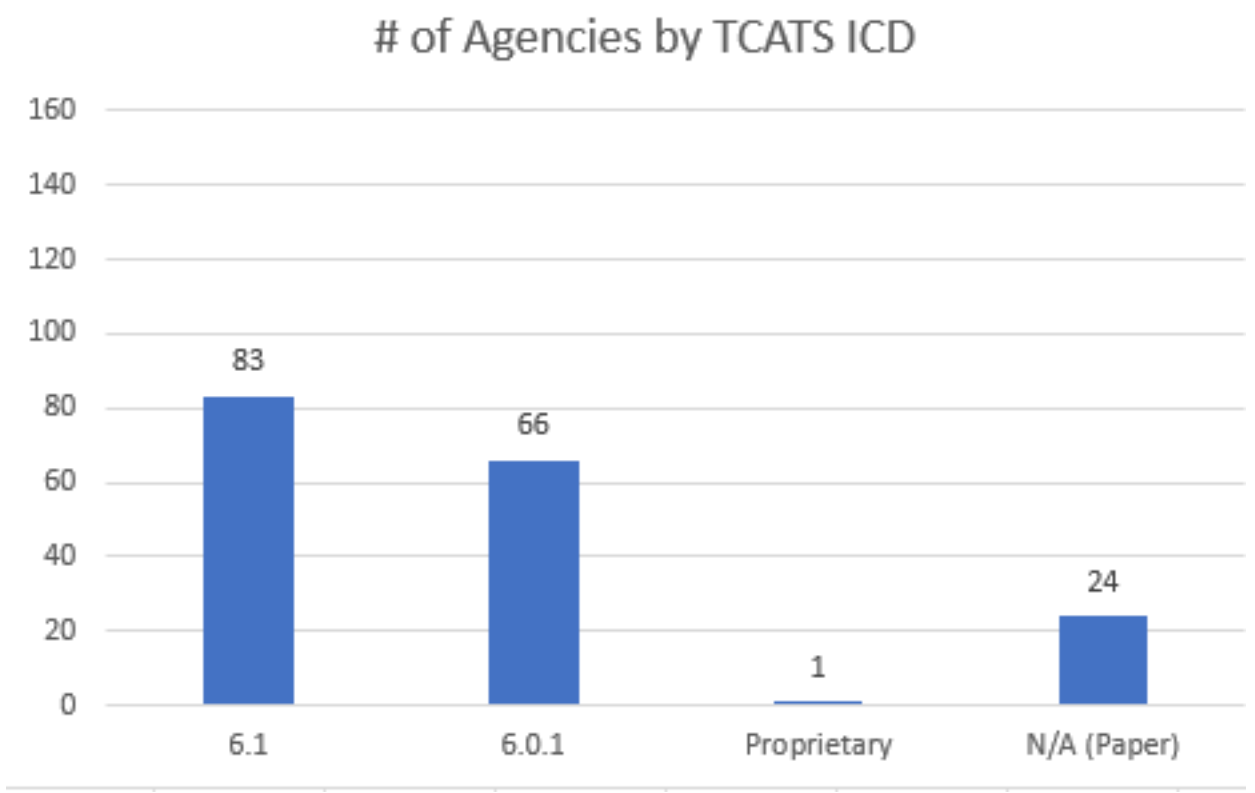
Objective 4: Uniformity

To improve uniformity in data collection methods.



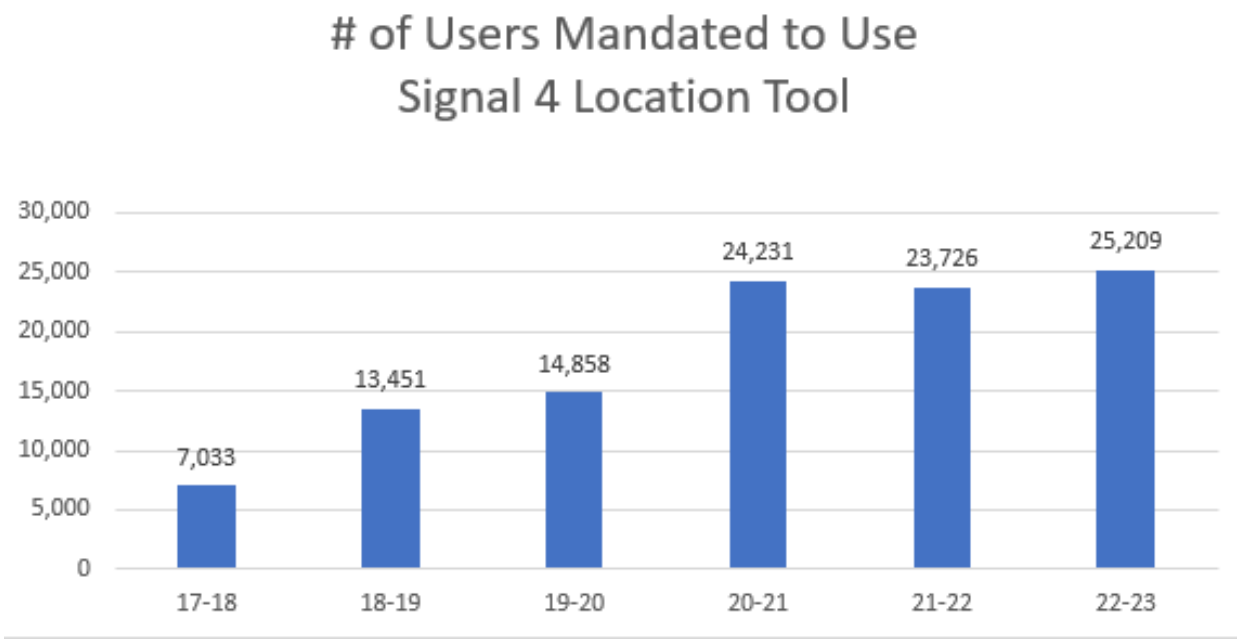
Objective 4: Uniformity

- To improve uniformity in data collection methods.
- 24 agencies submitting paper in Broward and Volusia counties



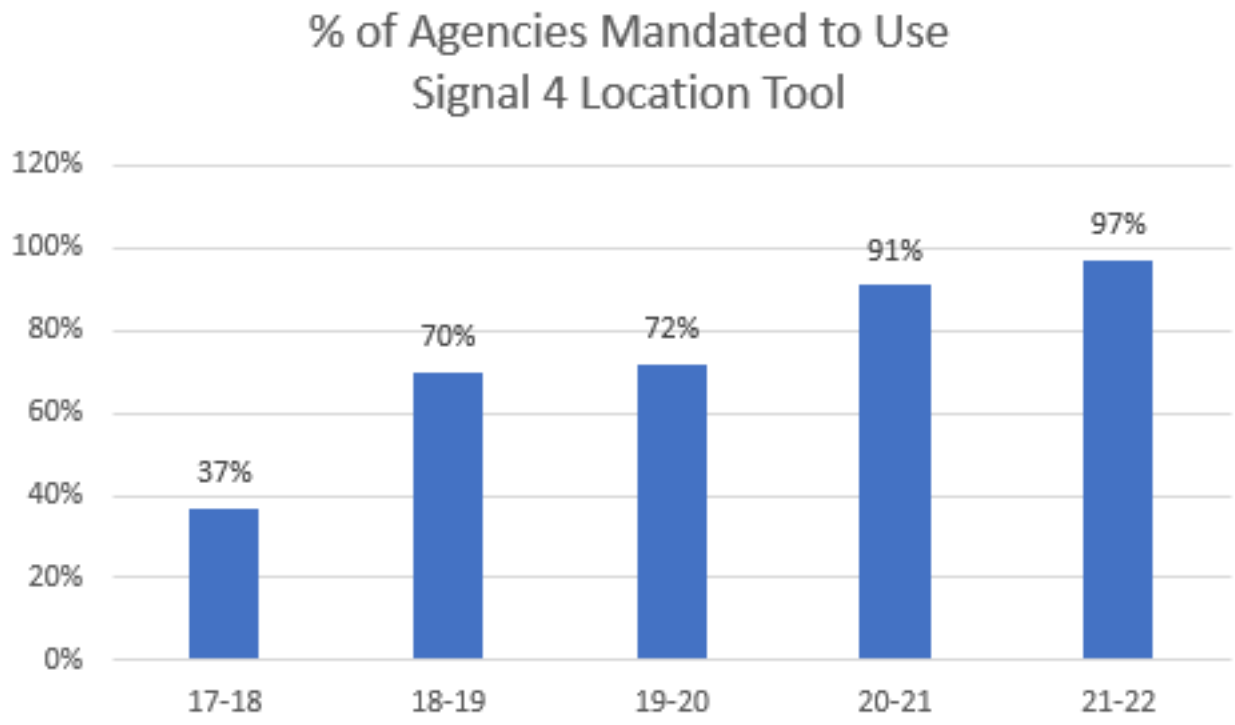
Objective 5: Integration

- To increase the number of TraCS users using a location tool to plot accidents on the crash form.



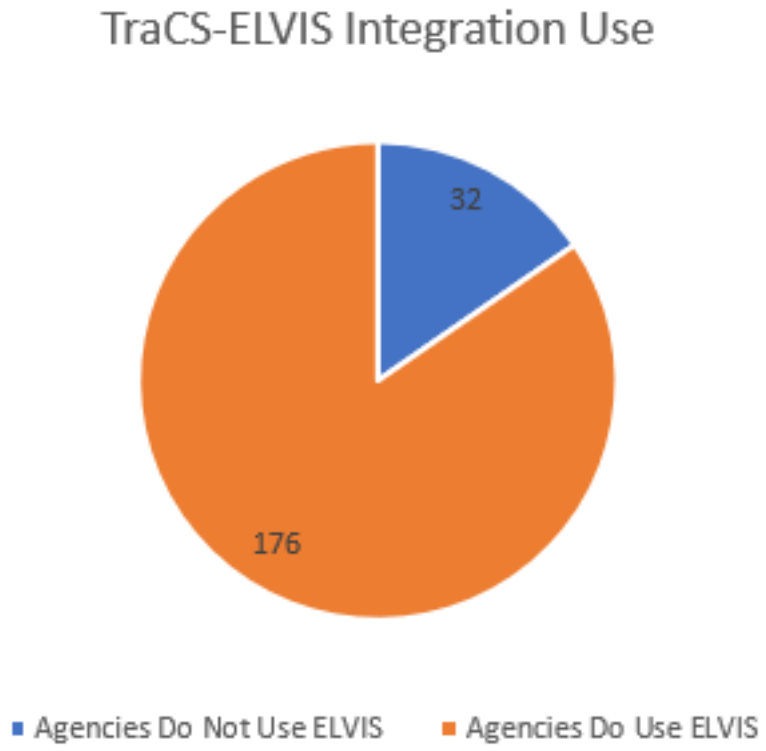
Objective 5: Integration

- To increase the number of TraCS agencies using a location tool to plot accidents on the crash form.
  - 13 agencies do not use our crash form
  - 7 have the mandate turned off

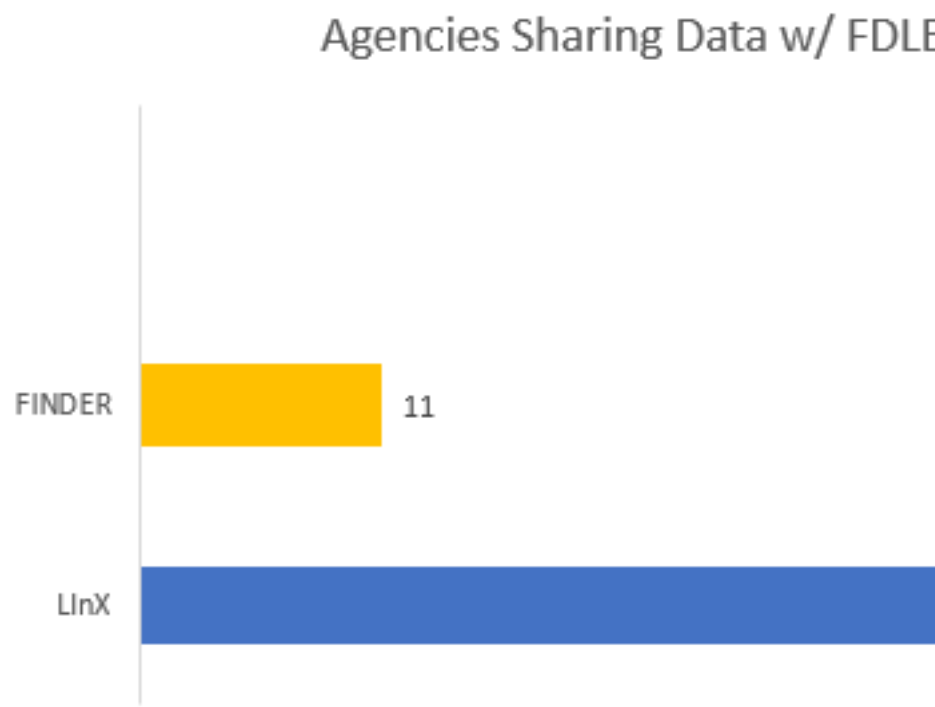


Objective 5: Integration

- To maintain the number of agencies using FCIC/NCIC interfaces.
  - Over 99% using an FCIC/NCIC interface

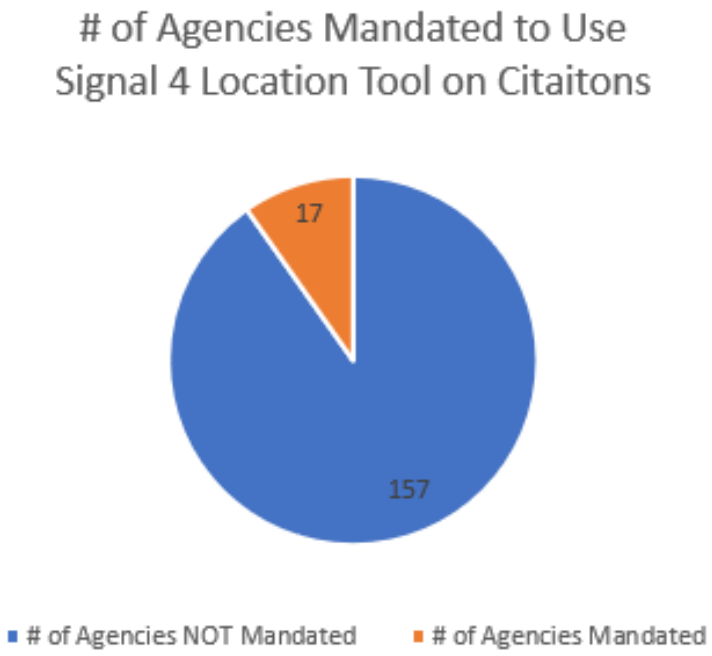


LInX/FINDER Participation



Objective 5: Integration

- Agencies mandated to use the location tool on citations.



Objective 5: Integration

- RECAP-The following parameters are passed from the location tool and crash report to the Diagram tool:
  - Manner Of Collision
  - First Harmful Event
  - Vehicle number
  - Body type
  - Vehicle Special Function
  - CMV Config
  - Cargo Type
  - Color Code
  - Travel Direction
  - Impact Area
  - Maneuver
  - Non-Motorist Number
  - Non Motorist Description
- Roadway information now updates on crash report when changes are made to the location through the diagram tool.

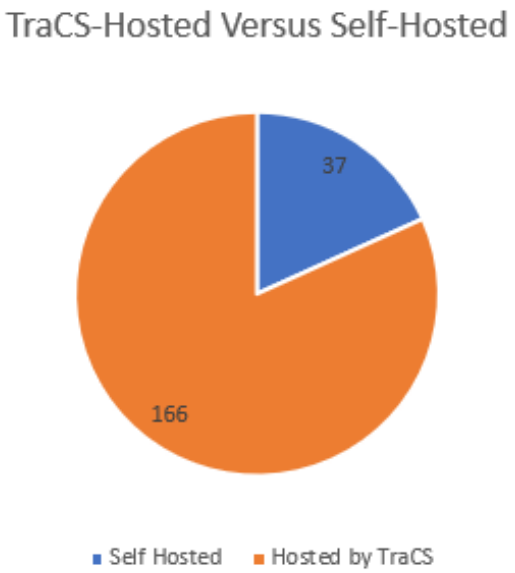
Objective 5: Integration

- Agencies Using Signal 4 Diagram Tool
  - Orlando PD in testing
  - Coral Gables PD in testing

Agency Name	# of Diagrams Completed
Coral Gables Police Department	1
Miami Police Department	22
Pembroke Park PD	28
Panama City PD	191
Clearwater Police Department	10
Orlando Police Department	71
Chiefland Police Department	4
Tarpon Springs Police Department	2
Rockledge PD	52
Total:	**381**

Objective 6: Accessibility

- To maintain a primary data hosting site
  - Hosting data for 171 agencies at Digital Systems Management (DSM)

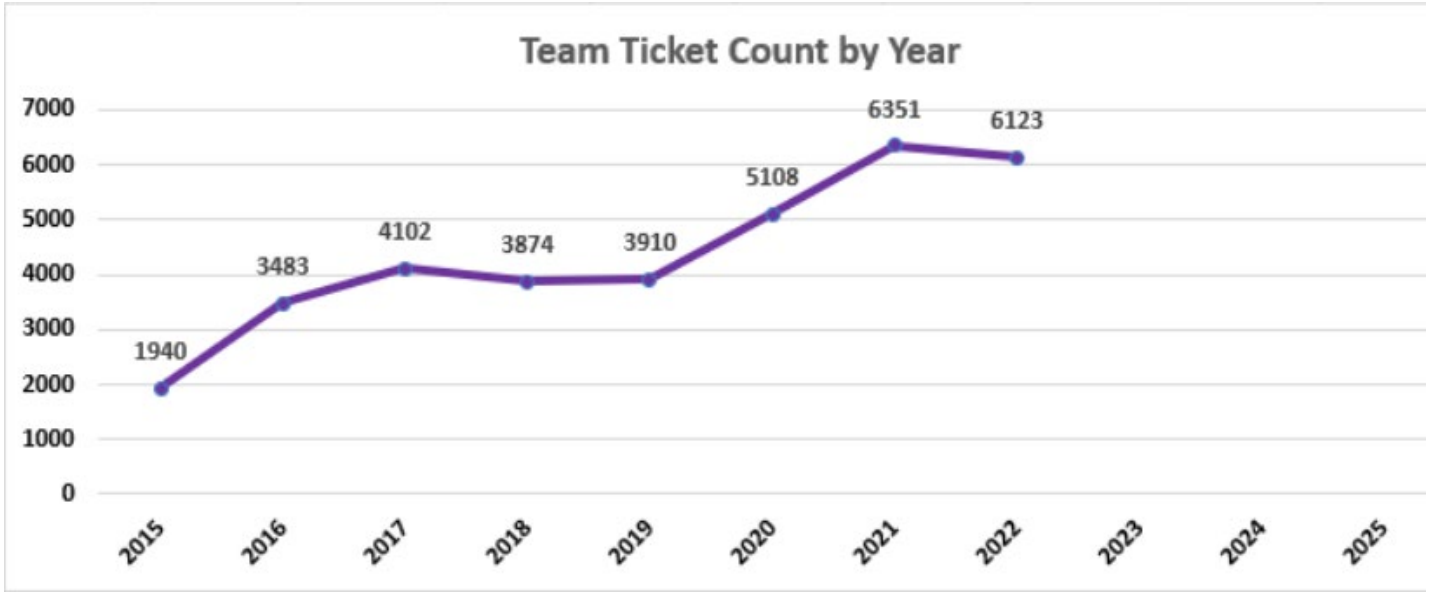


FY 22-23 Highlights

- Staff
  - Hire OPS support person
- Signal 4 Diagram Tool Integration
  - Deploy to agencies
- Signal 4 Location Tool Integration
  - Upgrade everyone to a TraCS version using version 3 versus 2.3
- Citation
  - Test/implement transmissions of citation data directly to FCCC
- Crash
  - Begin work on new crash form using MMUCC 6th edition

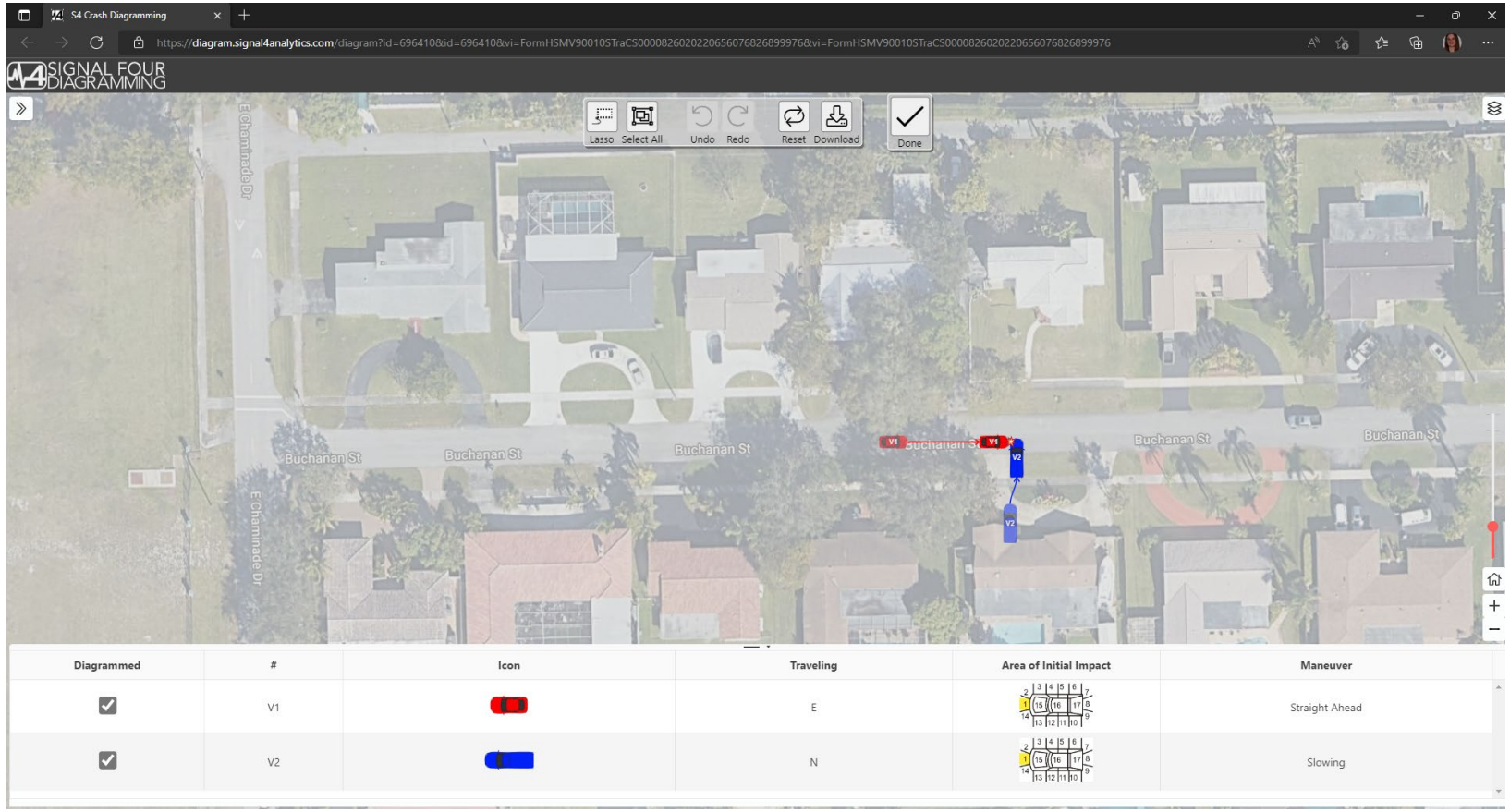
Support Over the Years

- Support tickets on a calendar year
  - 2022 is not complete



Objective 5: Integration

- Here is a sample produced from our testing



FLORIDA STATE UNIVERSITY

Thank you for your continued support!

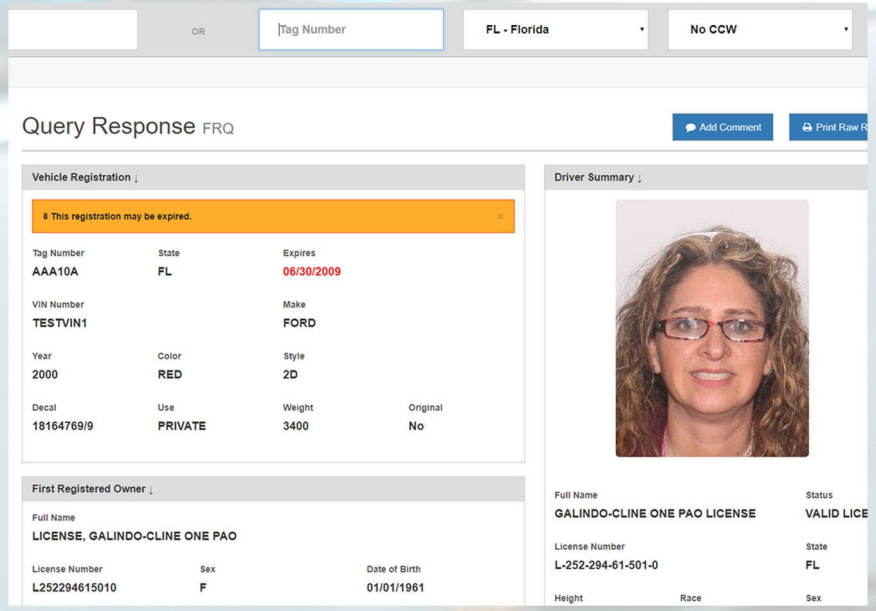
ELVIS

Electronic License and Vehicle Information System

www.elvisflorida.org

Better Data, Safer Roads.

ELVIS TRCC UPDATE
December 2, 2022



FAMU-FSU COLLEGE OF ENGINEERING

Grant funding provided by the Florida Department of Transportation

FDOT

Welcome!

Team Members

- Dr. Lisa Spainhour, Principal Investigator
- Zoe Williams, Program Manager
- Margaret Edwards, Systems Administrator
- Capt. Bud Dasher, Support

December 2022 Statistics

Current ELVIS Usage

- 250 Agencies
- 29,176 user accounts
- 2,211,936 queries run this fiscal year
- Approximately 1,105,000 queries per month
  - Increase of ~100,000 queries per month over September numbers

FY22-23

- **Completeness and Uniformity**
  - As always, lots and lots of state parser fixes to keep up with changing state formats and ensure elements parse correctly from each state
- **Accuracy and Integration**
  - Integration with external crash and citation vendors to improve data accuracy continues to be expanded and improved
    - TraCS
    - Mark43
    - LexisNexis
    - FINDER
    - Others
- **Security Features**
  - Investigating new advanced authentication methods and auditing capabilities
- **Accessibility**
  - New agencies continue to be brought on board
    - Coral Gables Police Department
    - Flagler Beach Police Department
    - Orange City Police Department
  - Added 3 new agencies this year
    - 996 new users
    - Increase of approx. 100,000 queries per month since last TRCC meeting
  - Evaluating future hardware requirements based on continuing increase in usage and current limitations
    - Last FY up-time was 99.51% averaged over the entire year
  - Seminole County SO backup site installation on hold while we evaluate hardware

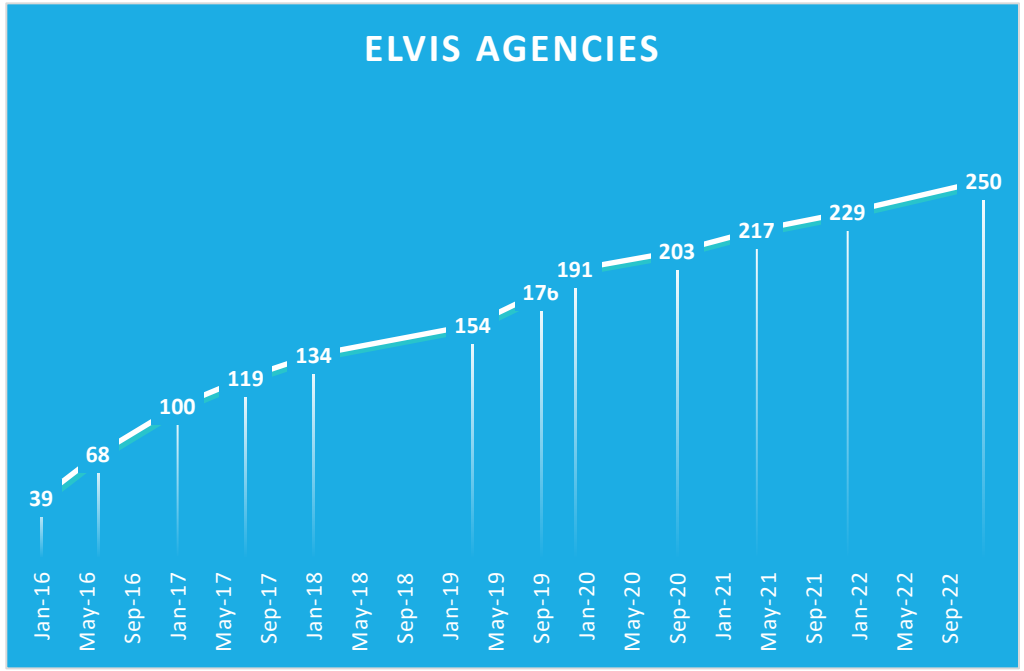
ELVIS Usage over time, 2016-Present

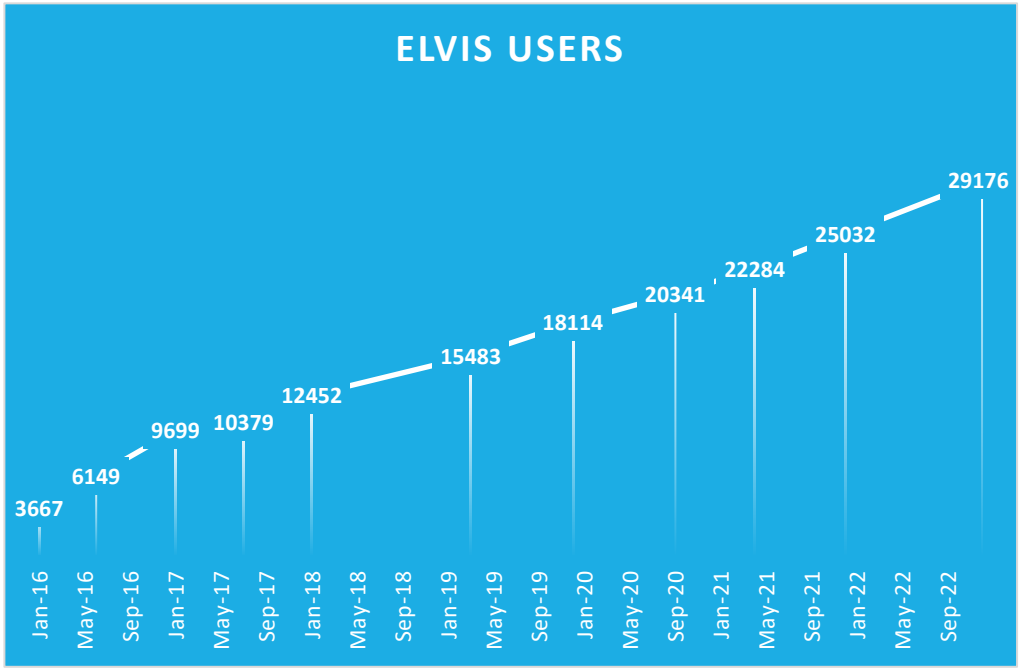
Law Enforcement Agencies

- 1/2016: 39
- 12/2022: 250

User Accounts

- 1/2016: 3,667
- 12/2022: 29,176



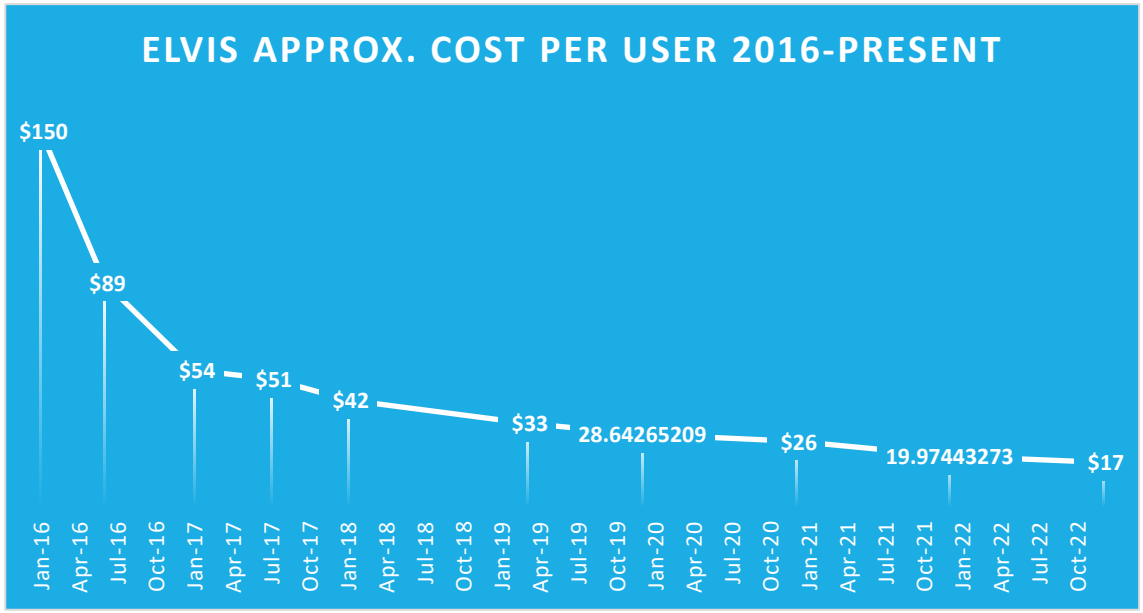


ELVIS Cost per User

FY22-23 Total Funding Request: $508,000

Total users (as of 12/2/22): 29,176

Avg. Cost Per User: $17



Thank You

QUESTIONS?

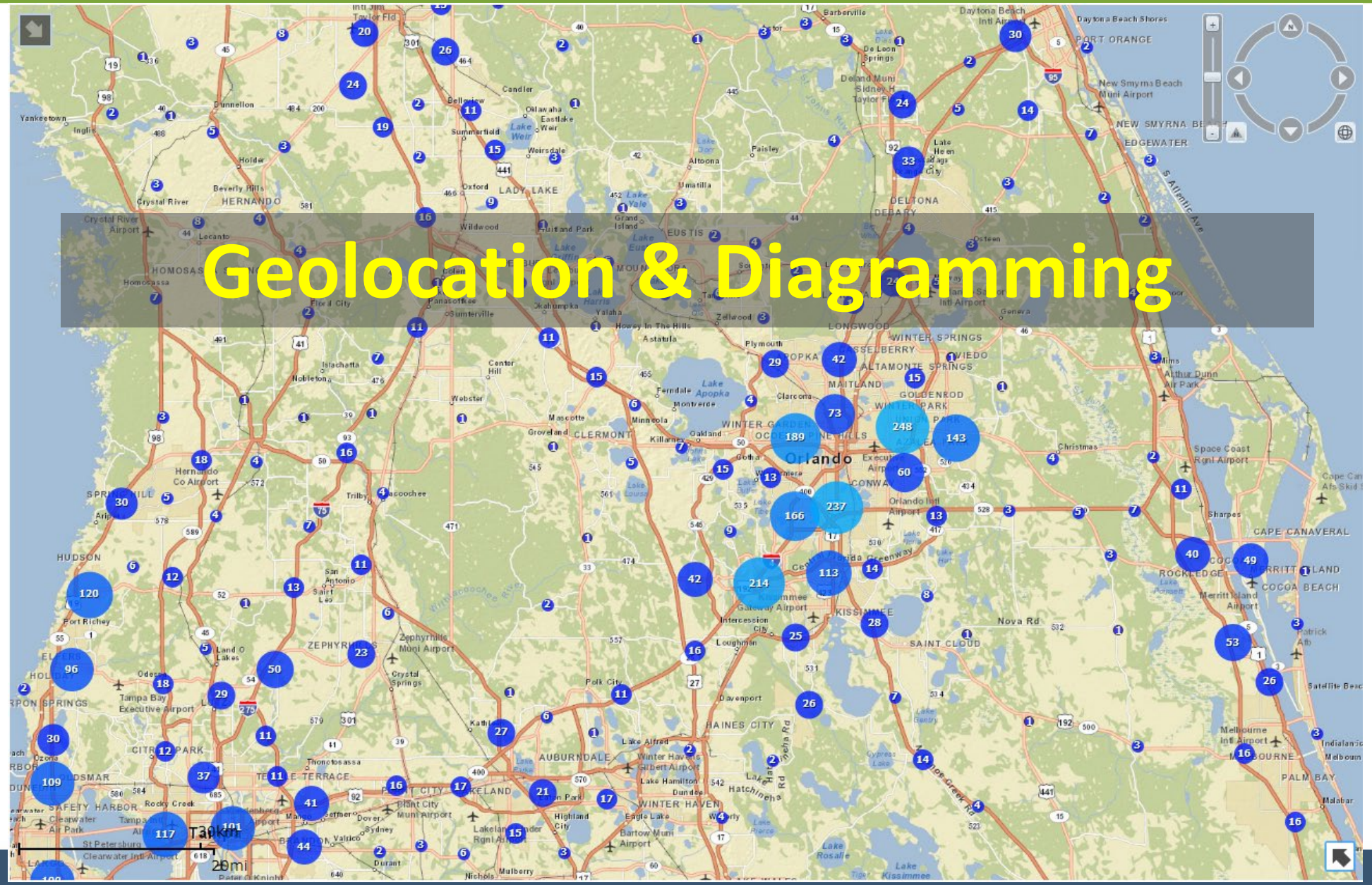
Updates for TRCC December 2022

Xingjing Xu
Geoplan Center, University of Florida

Traffic Records Coordinating Committee Quarterly Meeting
Tallahassee, FL

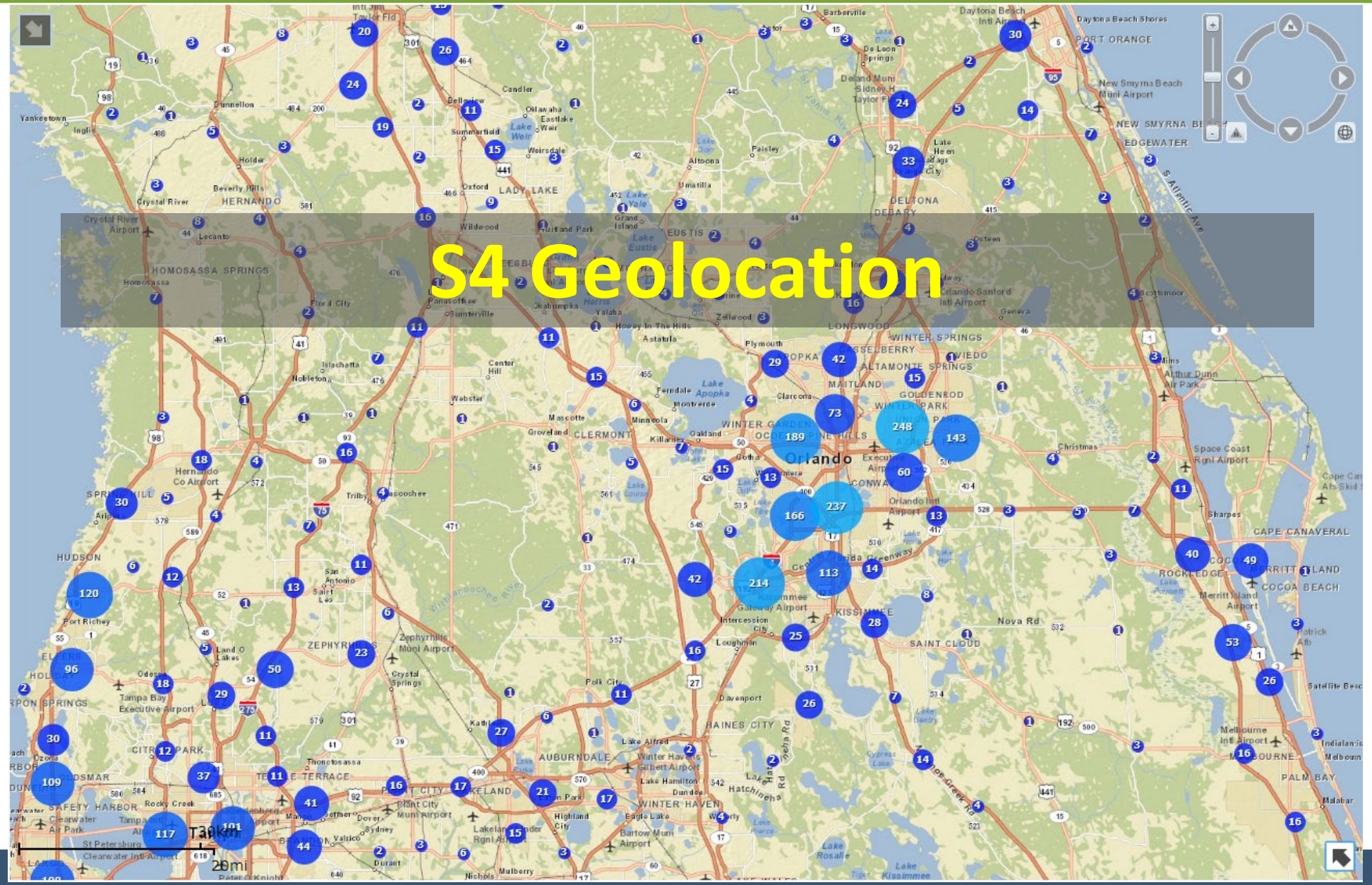
Projects

1. Geolocation and Crash Diagramming to Improve Crash Data Location, Timeliness, and Quality **(S4 Geolocation & S4 Diagram)**
2. Expanding Accessibility, Utilization, and Data Integration of Signal 4 Analytics **(S4 Analytics)**
3. Car Rewrite (DOT funded)


Geolocation & Diagramming
Orlando
Tampa
Kissimmee
Clearwater
St Petersburg
Lakeland
Winter Haven
Daytona Beach
Melbourne
Cape Canaveral
Sanford
Ocala
Leesburg
Brandon
Plant City
Auburndale
Haines City
Davenport
Apopka
Winter Park
Maitland
Altamonte Springs
Longwood
Deltona
DeLand
New Smyrna Beach
Port Orange
Titusville
Cocoa Beach
Palm Bay
Satellite Beach
Merritt Island
Rockledge
Sharpes
Christmas
Geneva
Astatula
Howey In The Hills
Mount Dora
Eustis
Tavares
Lady Lake
The Villages
Wildwood
Webster
Center Hill
Groveland
Clermont
Minneola
Mascotte
Montverde
Oakland
Gotha
Killarney
Ferndale
Clarcona
Zellwood
Plymouth
Oldsmar
Safety Harbor
Citrus Park
Tarpon Springs
Hudson
Port Richey
Hernando
Crystal River
Inverness
Homosassa
Beverly Hills
Lecanto
Dunnellon
Yankeetown
Inglis
Holder
Floral City
Sumterville
Lake Panasoffkee
Zephyrhills
Dade City
Land O Lakes
Odessa
Trilby
Istachatta
Nobleton
Hernando Co Airport
Tampa Bay Executive Airport
Clearwater Air Park
Clearwater Intl Airport
Crystal River Airport
Plant City Muni Airport
Lakeland Regional Airport
Bartow Muni Airport
Gateway Airport
Orlando Intl Airport
Orlando Executive Airport
Space Coast Regional Airport
Merritt Island Airport
Melbourne Intl Airport
Arthur Dunn Air Park
Daytona Beach Intl Airport
New Smyrna Beach Muni Airport
DeLand Muni Sidney H Taylor Field
Taylor Field
Zephyrhills Muni Airport
Crystal Springs
Lake Alfred
Winter Haven Gilbert Airport
Lake Hamilton
Dundee
Eagle Lake
Highland City
Polk City
Loughman
Intercession City
Kissimmee
Saint Cloud
Nova Rd
Hatchineha Rd
Cypress Lake
Lake Tohopekaliga
Lake Rosalie
Lake Kissimmee
Lake Marion
Lake Pierce
Lake Weir
Lake Eustis
Lake Harris
Lake Apopka
Lake Louisa
Lake Minneola
Lake Hancock
Lake Parker
Lake Alfred
Lake Hamilton
Lake Eagle
Lake Howard
Lake Conway
Lake Fairview
Lake Ivanhoe
Lake Formosa
Lake Gear
Lake Lucerne
Lake Estelle
Lake Davis
Lake Underhill
Lake Mann
Lake Dot
Lake Helen
Lake Monroe
Lake Jesup
Lake Harney
Lake Mills
Lake Winnemissett
Lake Beresford
Lake Woodruff
Lake Dexter
Lake Ashby
Lake Dias
Lake Disston
Lake Colby
Lake Cassadaga
Lake Gertrude
Lake Helen Blazes
Lake Orienta
Lake Charm
Lake Butler
Lake Sylvan
Lake Lotus
Lake Ola
Lake Mirror
Lake Rogers
Lake Formosa
Lake Gear
Lake Lucerne
Lake Estelle
Lake Davis
Lake Underhill
Lake Mann
Lake Dot
Lake Helen
Lake Monroe
Lake Jesup
Lake Harney
Lake Mills
Lake Winnemissett
Lake Beresford
Lake Woodruff
Lake Dexter
Lake Ashby
Lake Dias
Lake Disston
Lake Colby
Lake Cassadaga
Lake Gertrude
Lake Helen Blazes
Lake Orienta
Lake Charm
Lake Butler
Lake Sylvan
Lake Lotus
Lake Ola
Lake Mirror
Lake Rogers
20mi
30km

Geolocation & Diagramming Tasks

a) Geolocation for LE (S4 Geolocation)
b) Crash Report Diagramming (S4 Diagram)
c) FDOT Geolocation (DGT)

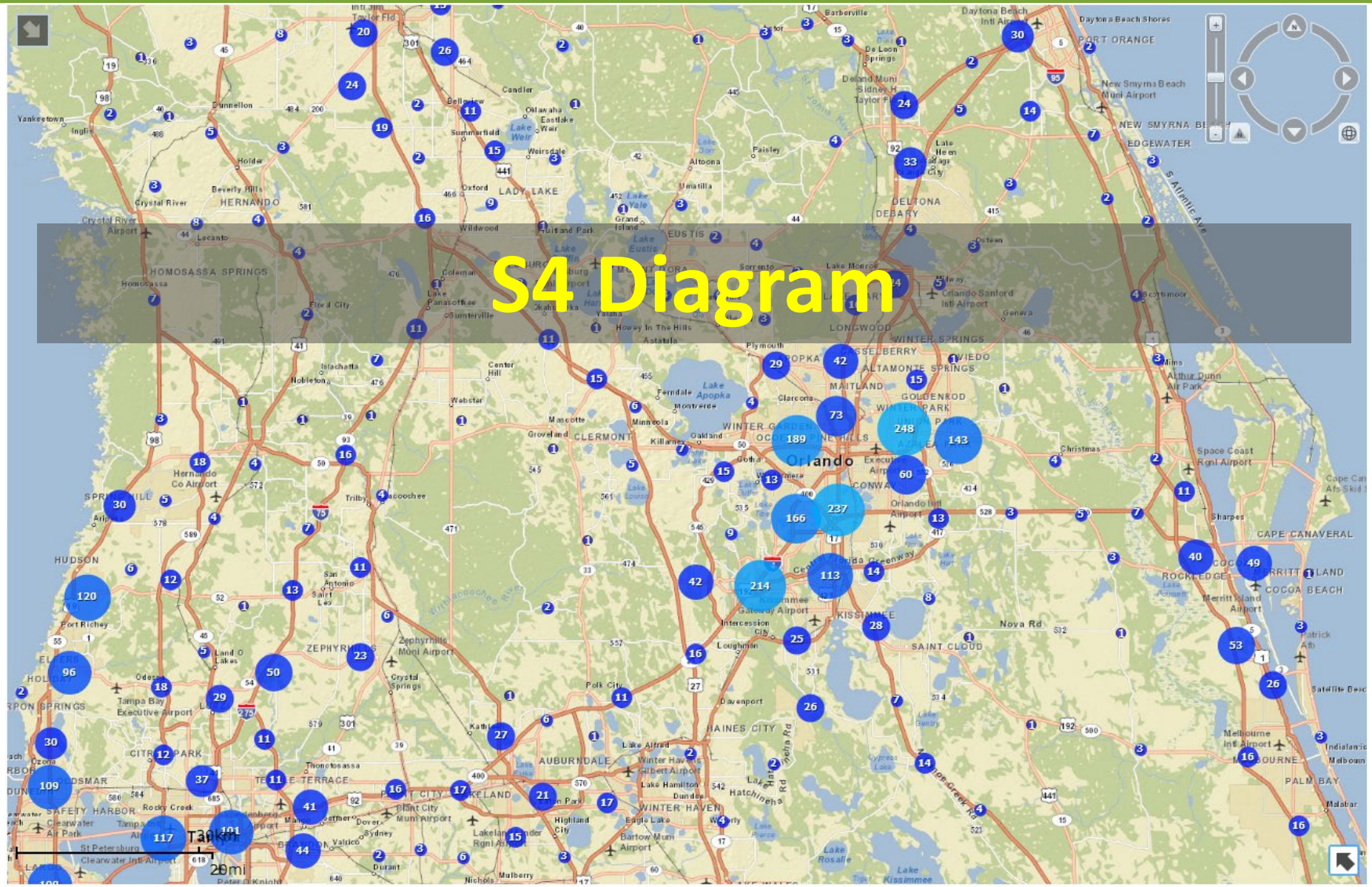

S4 Geolocation
Orlando
CLERMONT
KISSIMMEE
SAINT CLOUD
WINTER PARK
MAITLAND
WINTER GARDEN
OCOEE
APOPKA
ALTAMONTE SPRINGS
WINTER SPRINGS
LONGWOOD
OVIEDO
CASSELBERRY
GOLDENROD
CONWAY
HERNANDO
LADY LAKE
DELTONA
DEBARY
EDGEWATER
NEW SMYRNA BEACH
PORT ORANGE
DAYTONA BEACH SHORES
HOMOSASSA SPRINGS
HUDSON
ZEPHYRHILLS
AUBURNDALE
HAINES CITY
WINTER HAVEN
CAPE CANAVERAL
COCOA BEACH
ROCKLEDGE
MERRITT ISLAND
PALM BAY
MELBOURNE
SAFETY HARBOR
CITRUS PARK
TEMPLE TERRACE
PLANT CITY
Orlando Intl Airport
Orlando Sanford Intl Airport
Tampa Bay Executive Airport
Melbourne Intl Airport
Merritt Island Airport
Space Coast Rgnl Airport
Daytona Beach Intl Airport
New Smyrna Beach Muni Airport
Crystal River Airport
Hernando Co Airport
Clearwater Air Park
St Petersburg-Clearwater Intl Airport
Zephyrhills Muni Airport
Plant City Muni Airport
Lakeland Rgnl Airport
Bartow Muni Airport
Gateway Airport
Arthur Dunn Air Park
Nova Rd
20mi
30km

Mandated Agencies

- TraCS
  - **97%** for crash
  - **8%** for citations
- SmartCOP
  - Jacksonville SO for crashes

Current and Future Activities:

- Update to use FLARIS 2.1 (updated basemap from FDOT)
- Ongoing user and technical support
- SmartCOP expected to upgrade to v3 and roll out to rest of agencies


S4 Diagram
Orlando
Tampa
20mi

S4 Diagram Purpose

- Improve data Accuracy, Time Saving, Efficiency and Consistency
- Ensure consistency between
  - Crash location and crash diagram
  - Relevant crash data elements and crash diagram

Recent Activities

- Extensive testing
- Released to several TraCS agencies
  - Provided interactive online and onsite training to Rockledge PD and Clearwater PD
  - Very positive feedback
- Currently
  - Developing more training material and videos
  - Performing updates based on feedback
  - Next, provide training to Miami PD
  - Release to rest of TraCS agencies in early 2023

Agency Name	# of Diagrams Completed
Coral Gables Police Department	1
Miami Police Department	22
Pembroke Park PD	28
Panama City PD	191
Clearwater Police Department	10
Orlando Police Department	71
Chiefland Police Department	4
Tarpon Springs Police Department	2
Rockledge PD	52
Total:	**381**

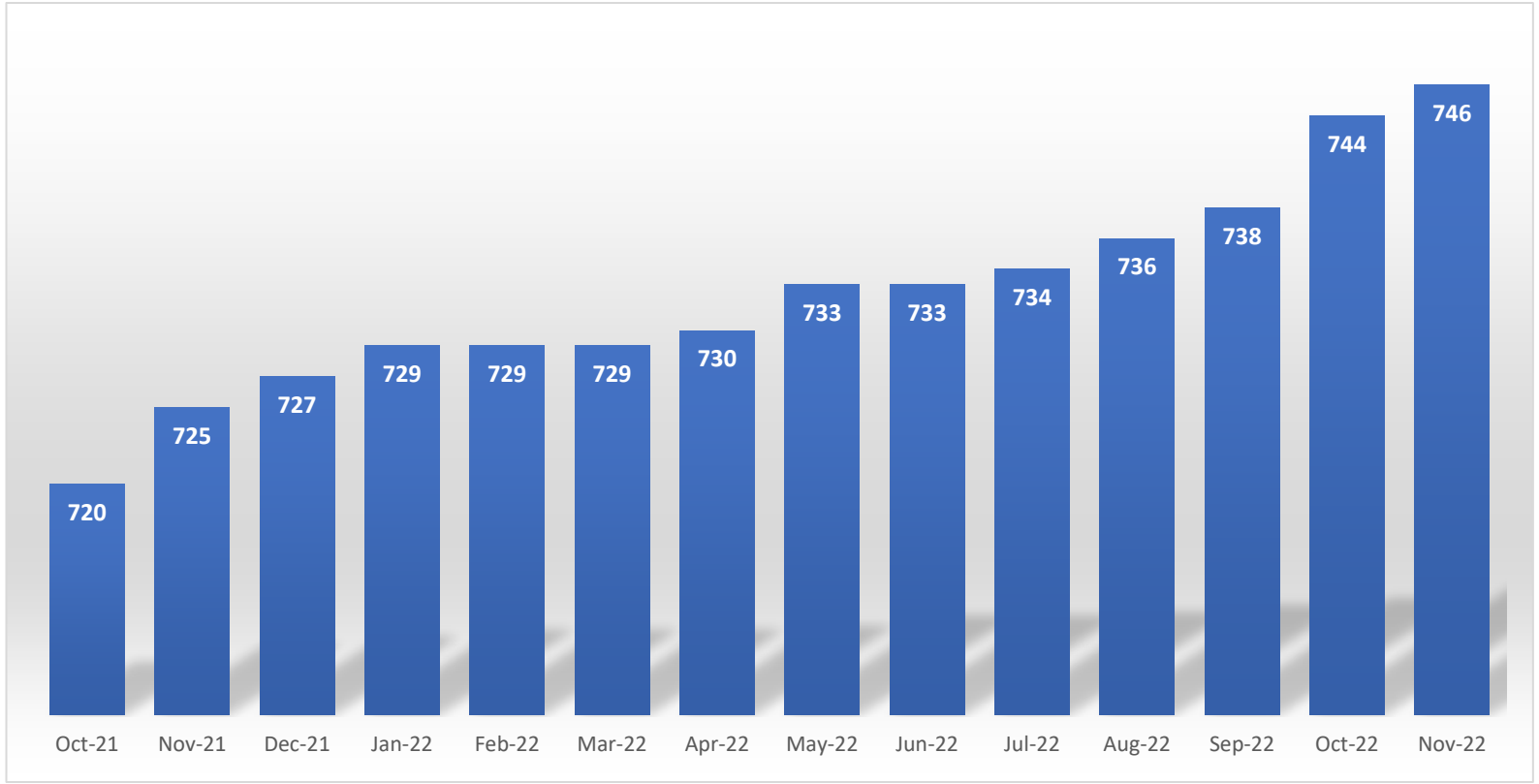
FDOT Geolocation Purpose

Unify the geolocation process across FDOT, S4 and LE agencies to achieve one consistent statewide geolocation process

Activities In Progress

- Support for local editors
  - DOT districts editors
  - Non-DOT county/city editors
- Include PBCAT 3.0 bike/ped crash typing
- Near future improvements
  - Performance tracking
  - Review process

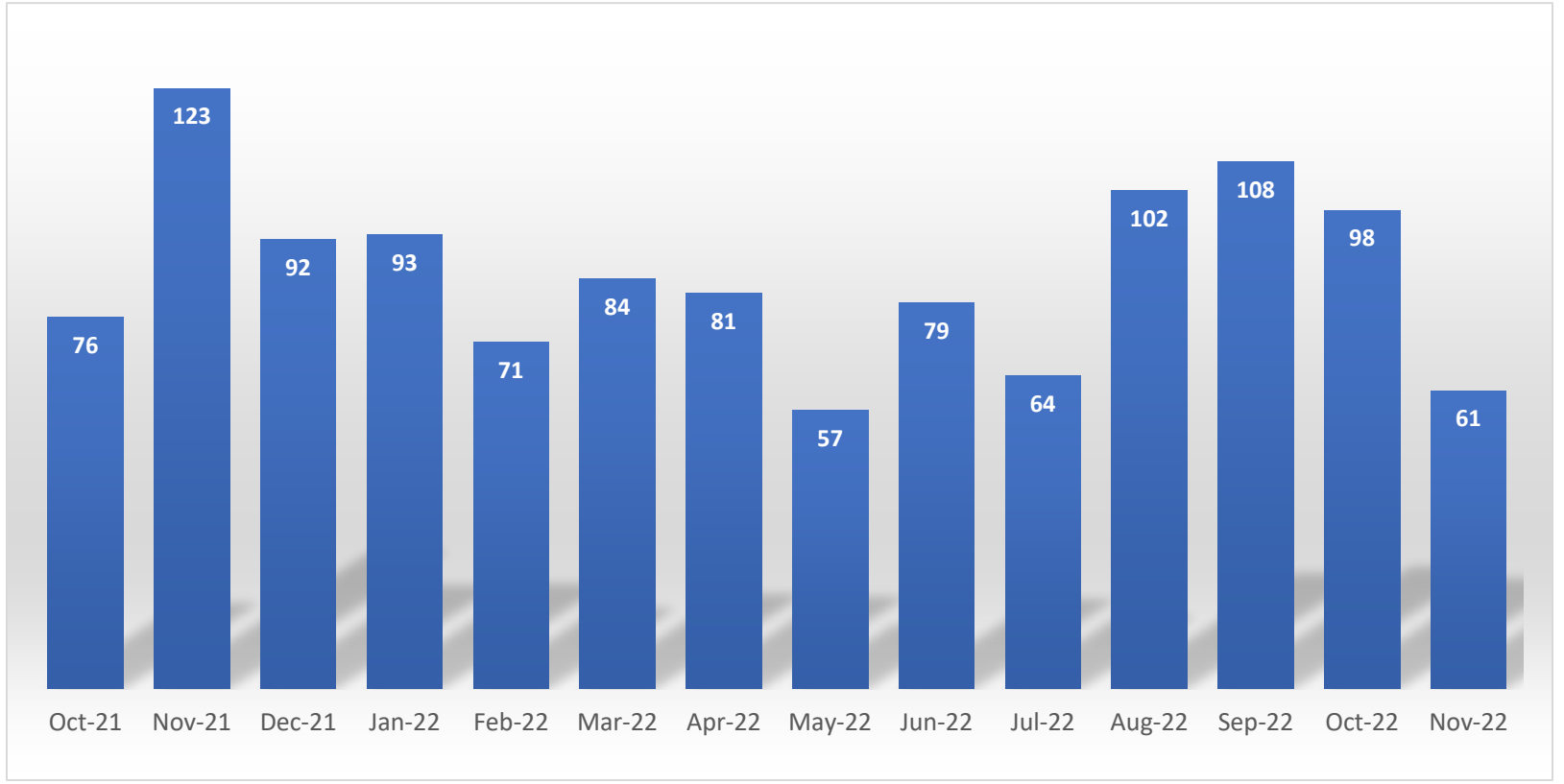
Number of Public Agencies



26 new agencies from October 2021 to October 2022

As of: 11/29/22

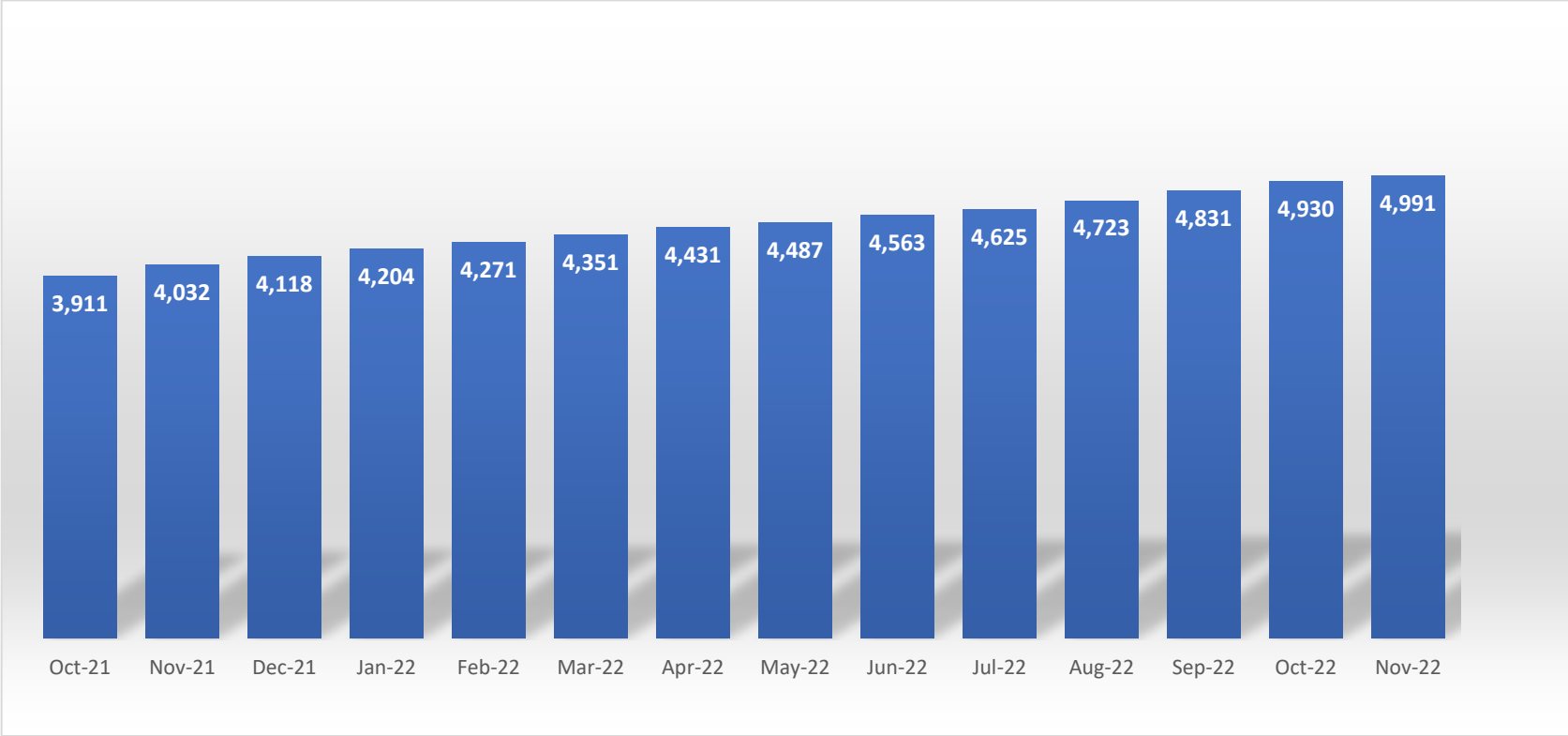
New Users by Month



In average about **85** new users per month

As of 11/29/22

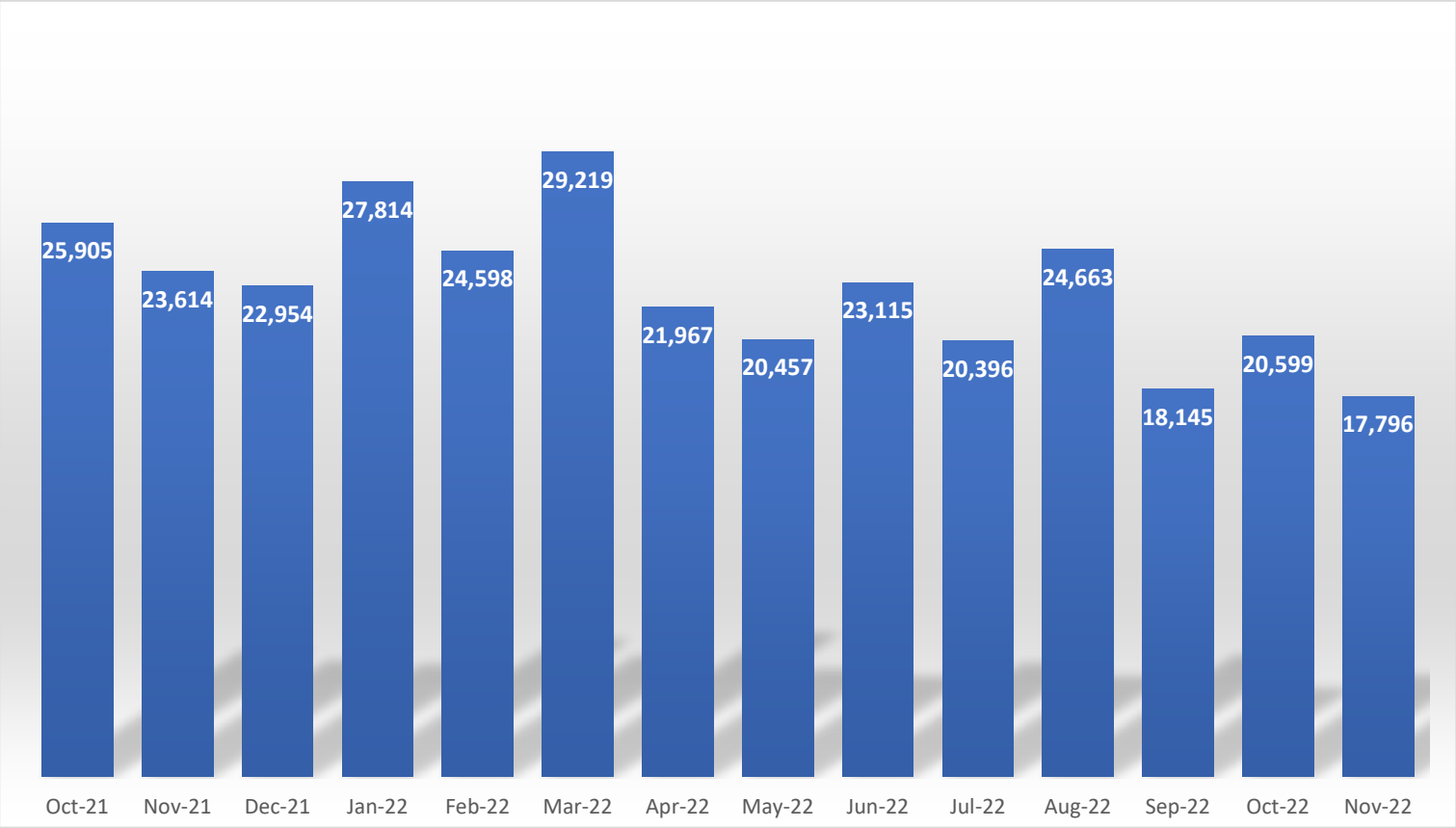
Number of Active Users



About **1,000** new users October 2021 to October 2022

As of: 11/29/22

Number of Queries/Reports



In average about **23,000** queries/reports per month

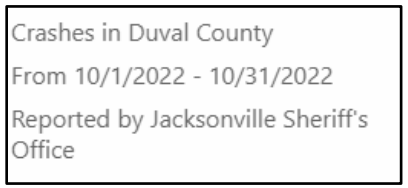
As of 11/29/22

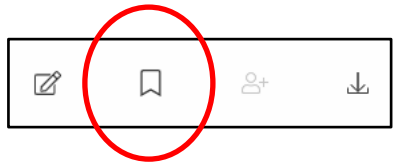
Features Completed – Save Query

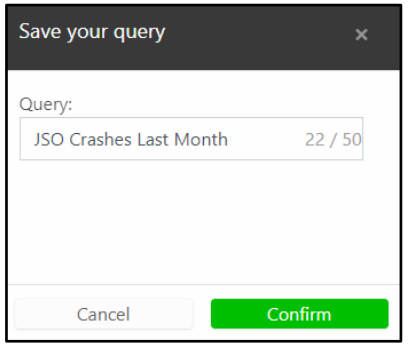
1: Set filters

2. Select the saved query button

3. Name and save query







Purpose

- Expand Signal 4 Analytics with the FDOT CAR system functionality.

- Consolidation of data, analytics, and reporting into one system.

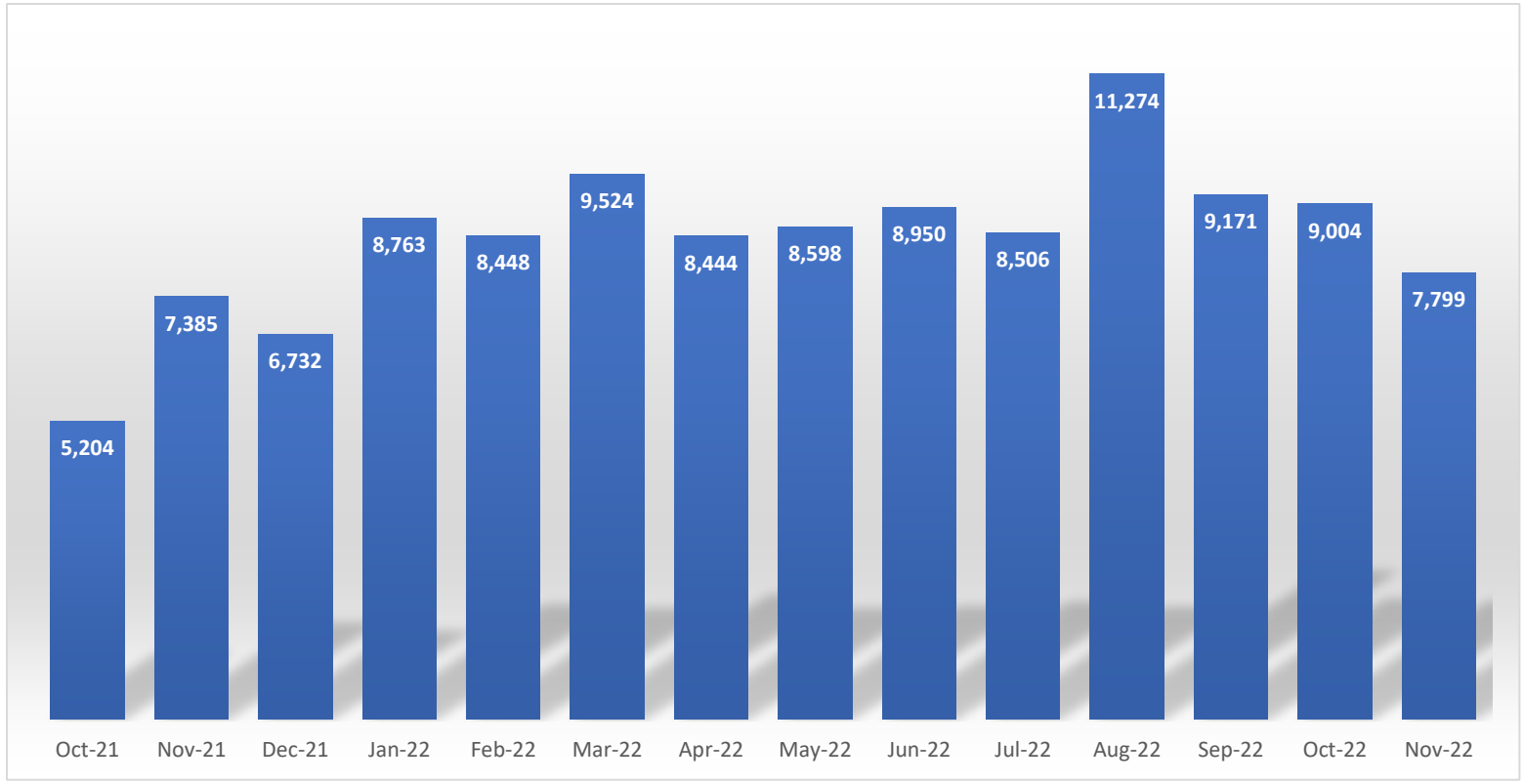
Activities In Progress

- Requirements in development for Citations Dashboard
- Possible Collaboration with LEL Group for training
- Development of PBCAT 3.0
- Revise user eligibility to data and crash report based on new FLHSMV requirements
- Planning a training webinar in January 2023

Current Status and Ongoing Work

- Basic Analysis under review
- Historic and Predictive network screening results under review
- Historic and Predictive Viewer under development
- FDOT data migration and conversion to FLARIS 2.1 close to completion

Public Dashboard – Unique Pageviews



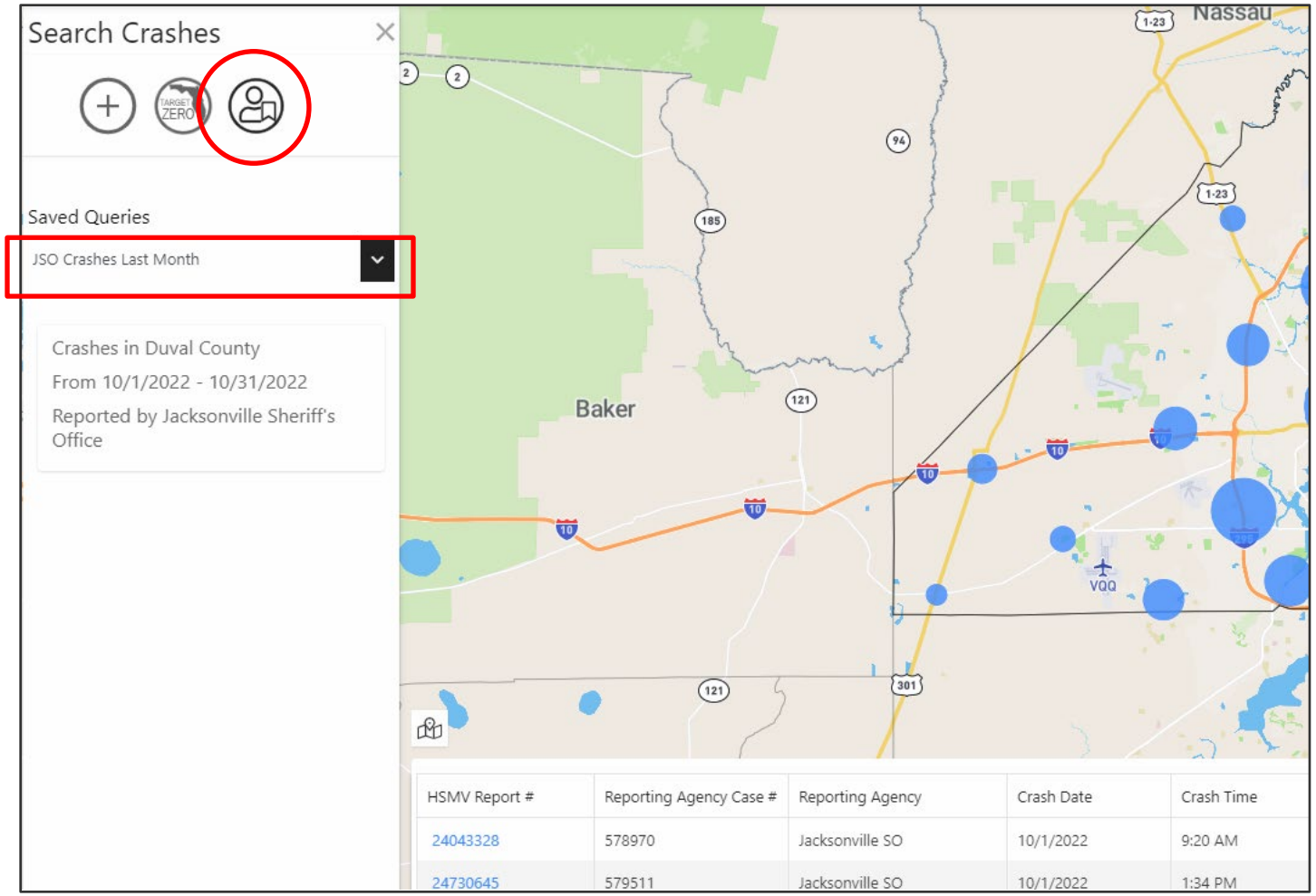
In average about **8,414** pageviews per month

As of: 11/29/22, **Source:** Google Analytics

Features Completed – Reuse Saved Query

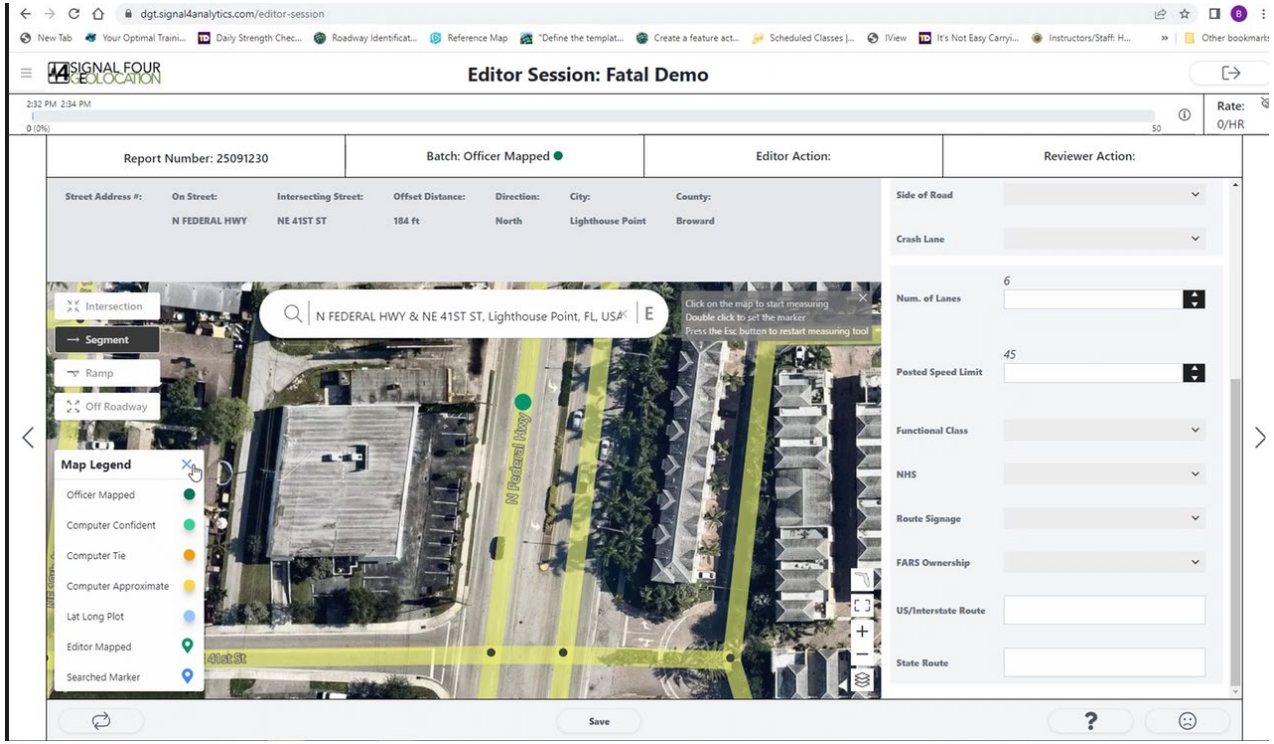
1.Saved query

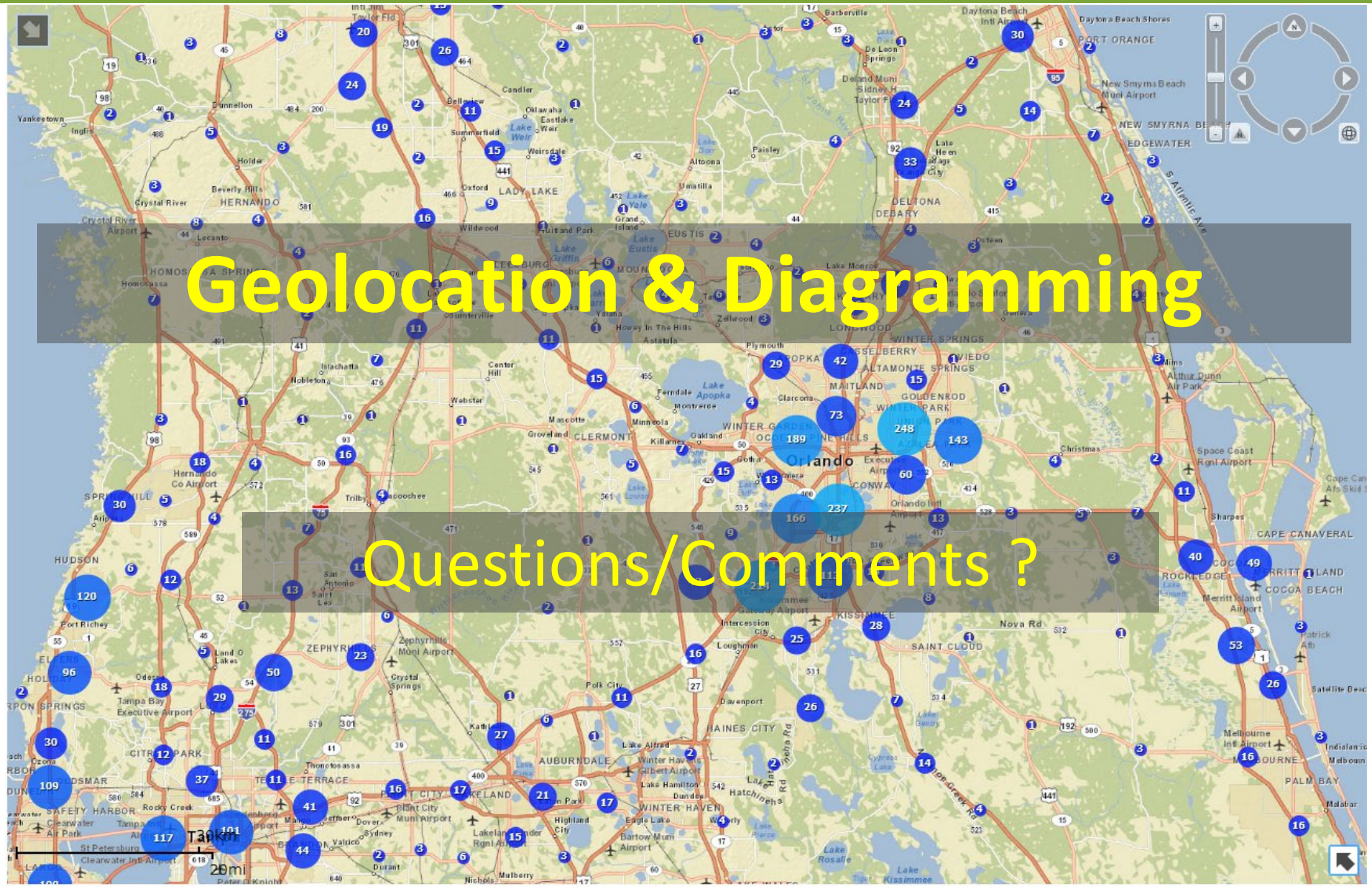
2.Select query



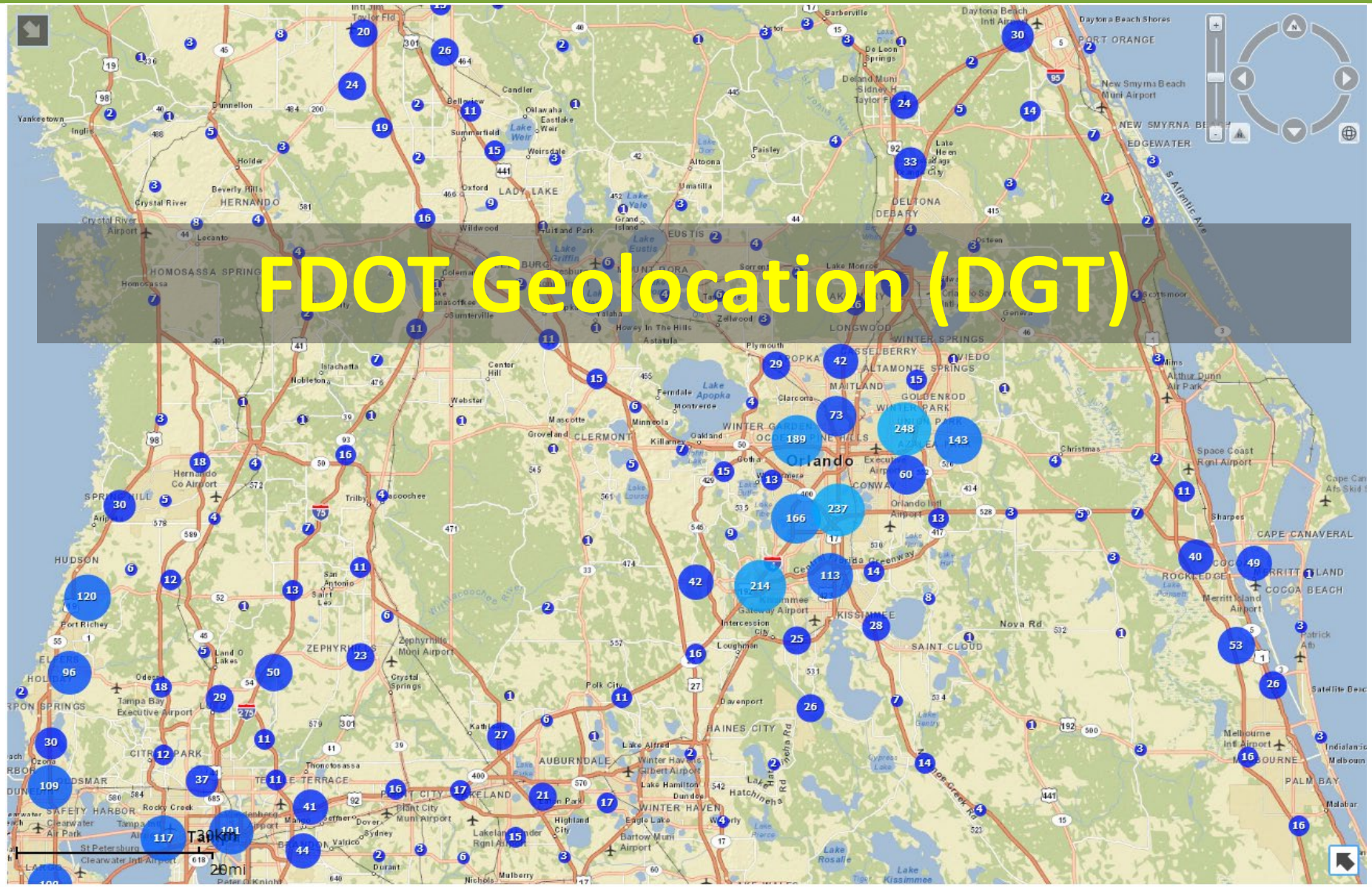
Status

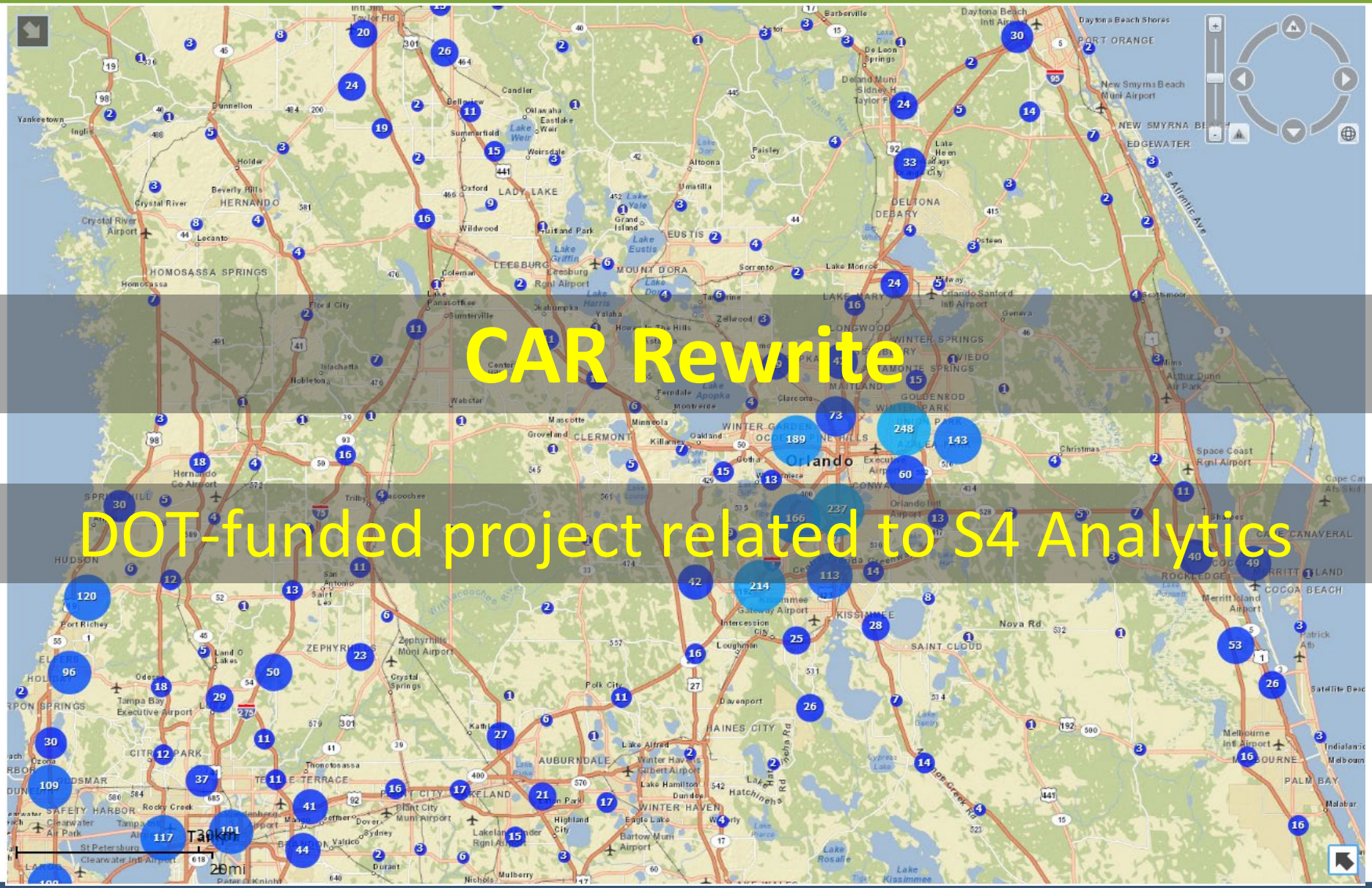
- In use for 5 months
- Incremental improvements based on needs
- Ongoing expansion, especially of the reviewer capabilities

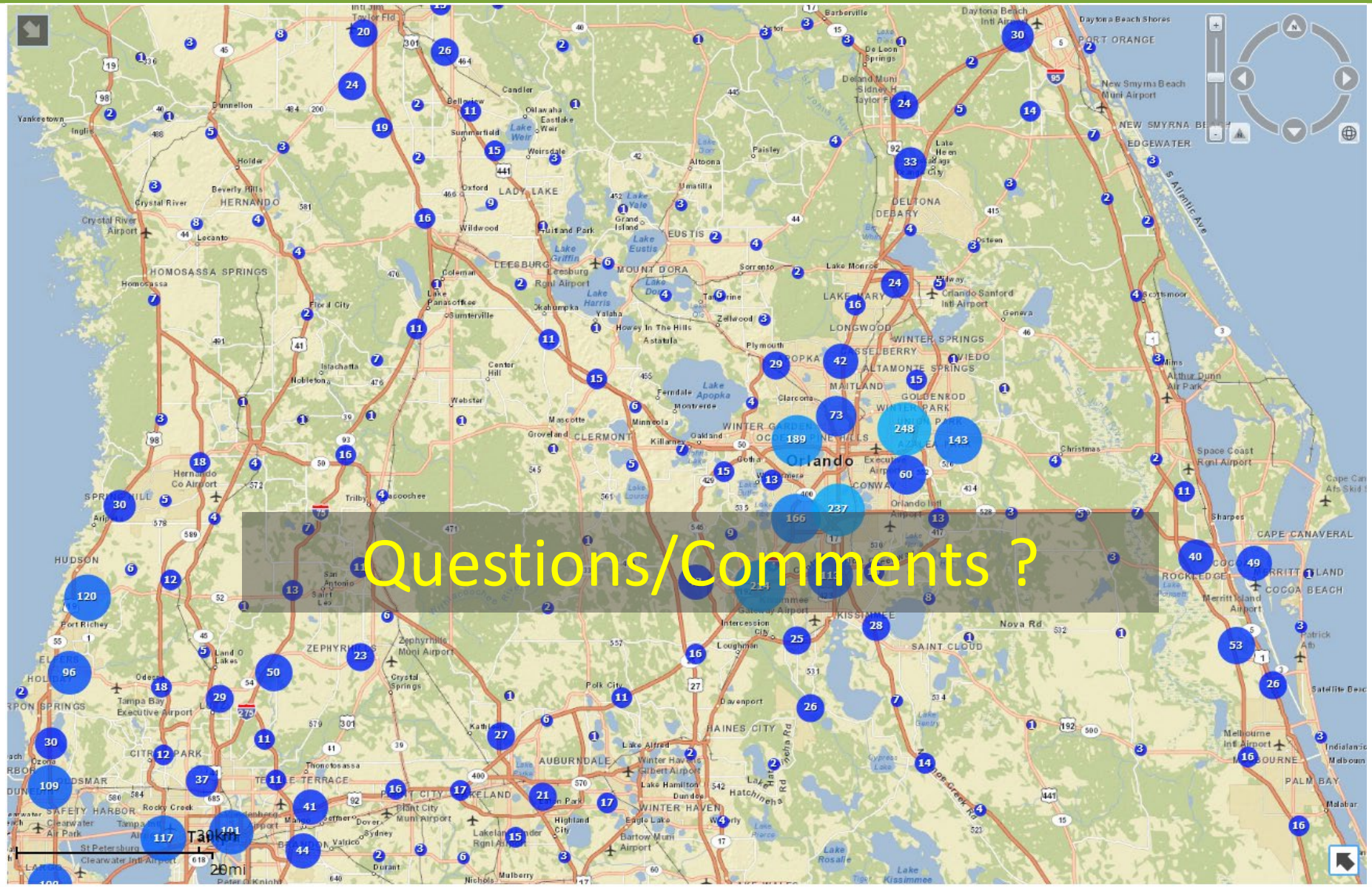


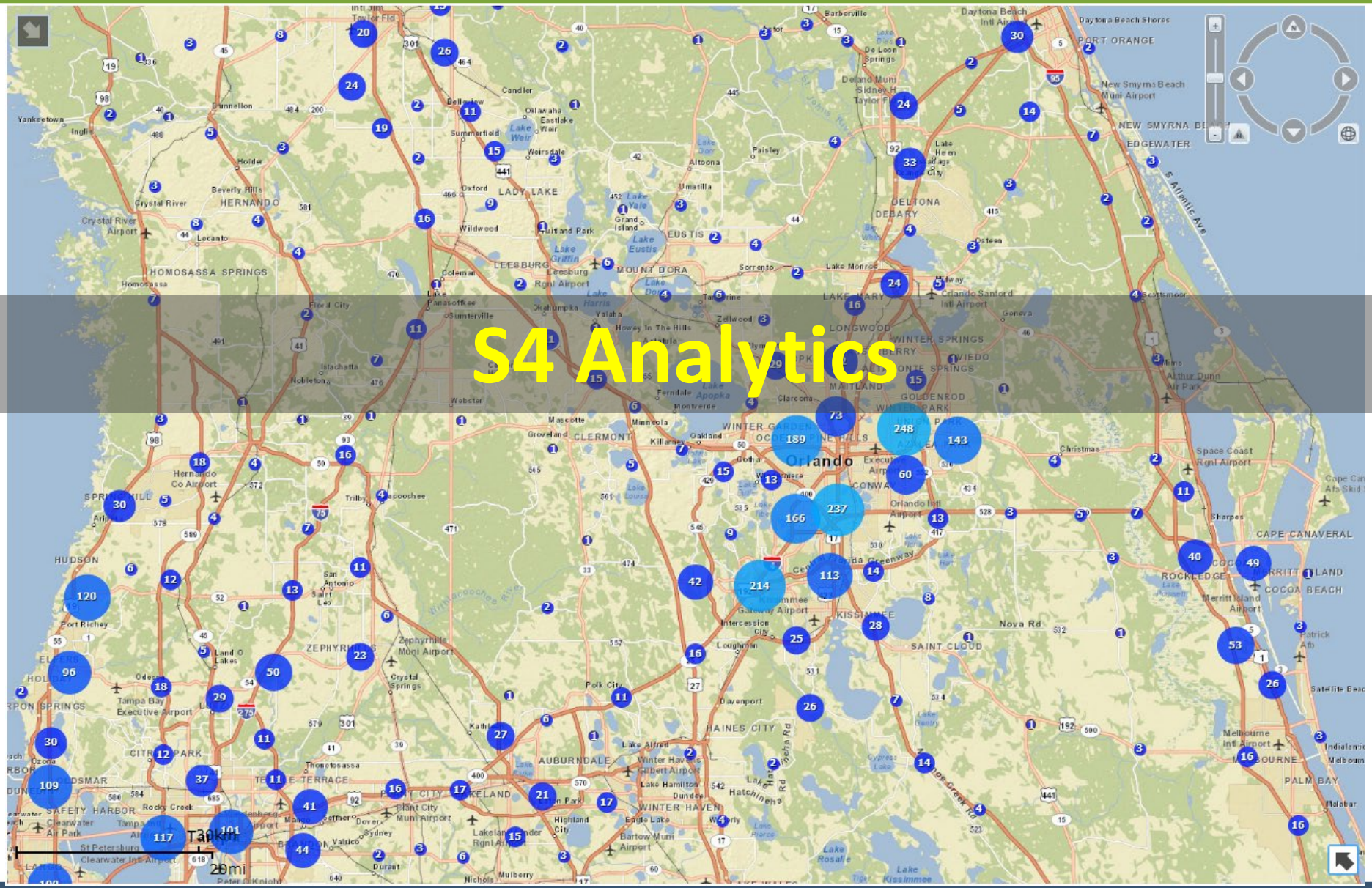

Geolocation & Diagramming
Questions/Comments ?
Orlando
Tampa
20mi

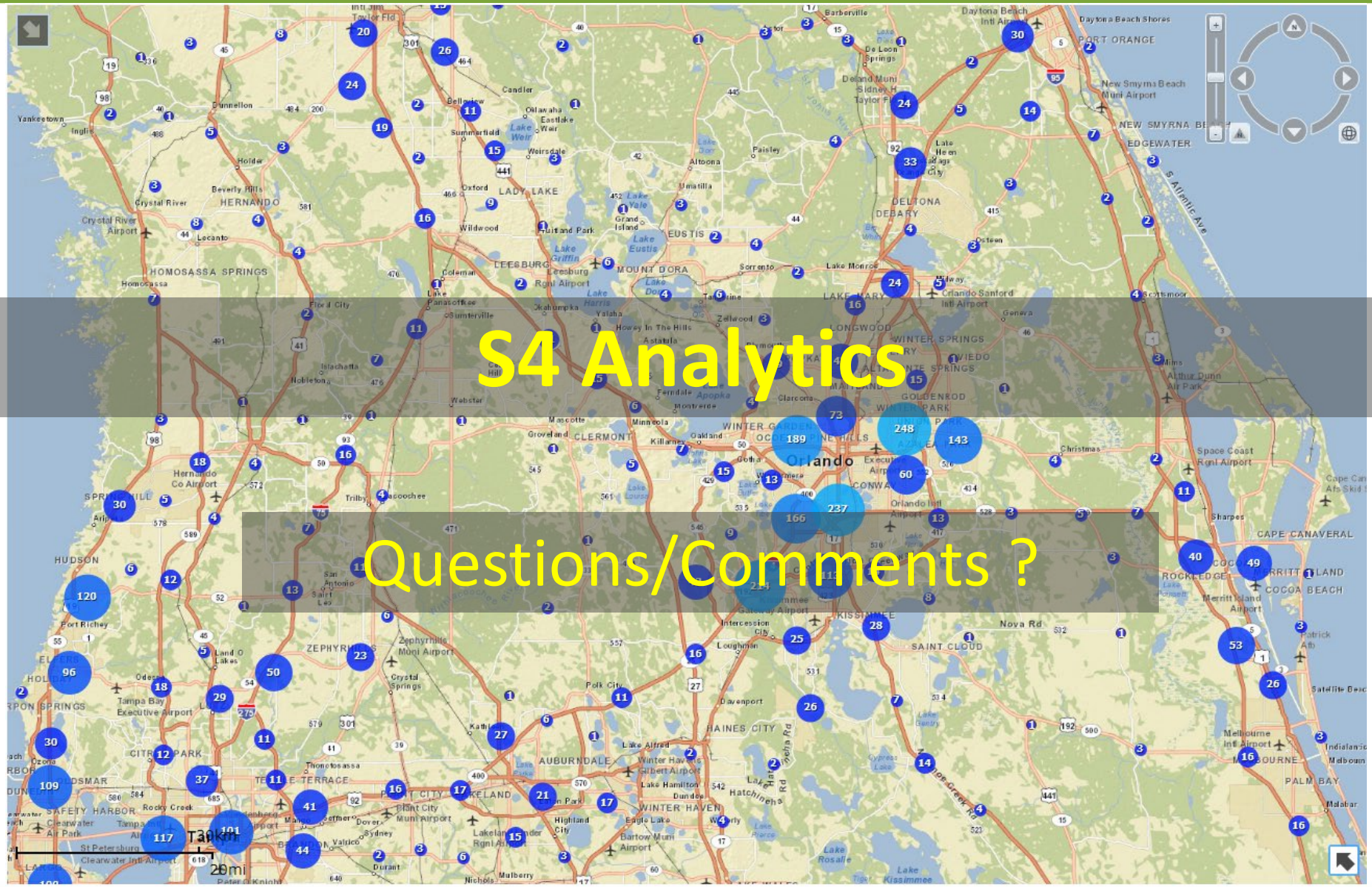
Thank you
Xingjing Xu
axuxinjing@ufl.edu


FDOT Geolocation (DGT)
Orlando
Tampa
20mi


CAR Rewrite
DOT-funded project related to S4 Analytics
Orlando
Tampa
20mi


Questions/Comments ?
Orlando
HERNANDO
HOMOSASSA SPRINGS
LADY LAKE
LEESBURG
MOUNT DORA
EUSTIS
DELTONA
DEBARY
DAYTONA BEACH
PORT ORANGE
NEW SMYRNA BEACH
EDGEWATER
LAKE MARY
LONGWOOD
WINTER SPRINGS
ALTAMONTE SPRINGS
MAITLAND
CLERMONT
WINTER GARDEN
WINTER PARK
CONWAY
KISSIMMEE
SAINT CLOUD
HAINES CITY
AUBURNDALE
WINTER HAVEN
CAPE CANAVERAL
COCOA BEACH
MERRITT ISLAND
PALM BAY
ROCKLEDGE
HUDSON
ZEPHYRHILLS
CITRUS PARK
SAFETY HARBOR
TERRA CEIL TERRACE
Tampa Bay Executive Airport
Orlando Intl Airport
Orlando Sanford Intl Airport
Space Coast Regional Airport
Melbourne Intl Airport
Clearwater Intl Airport
Lake Apopka
Lake Harris
Lake Eustis
Lake Griffin
Lake Dora
Lake Monroe
Lake Hancock
Lake Rosalie
20mi


S4 Analytics
Orlando
Tampa
20mi


S4 Analytics
Questions/Comments ?
Orlando
Tampa
20mi