TEXAS GIO
Geographic Information Office

~~2nd~~ 3rd Quarter

Virtual GIS Community Meeting

~~April 30, 2020~~

July 21, 2020

TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter Virtual GIS Community Meeting

Welcome	2:00 – 2:10
Project Updates	2:10 – 2:40
Roll Call	2:50 – 3:10
Tessellations, Inc.	3:10 – 3:40
Audience Q&A	3:40 – 4:00

TEXAS GIO
Geographic Information Office

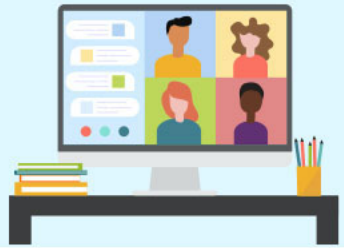
3rd ~~2nd~~ Quarter Virtual GIS Community Meeting

Since we last met….

- ✓ 2020 Texas GIS Forum Update
- ✓ GIO Report Interviews
- ✓ Job Opportunities
- ✓ TWDB Flood Program
- ✓ StratMap GIS Data Coordinator

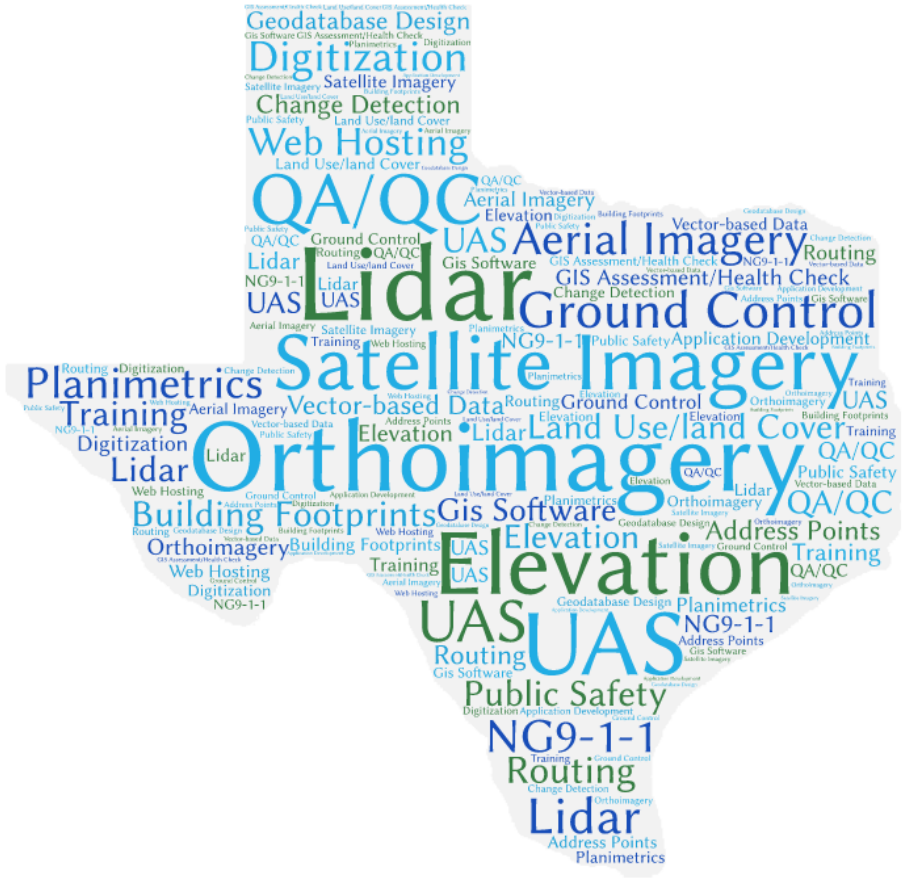
TEXAS GIO
Geographic Information Office

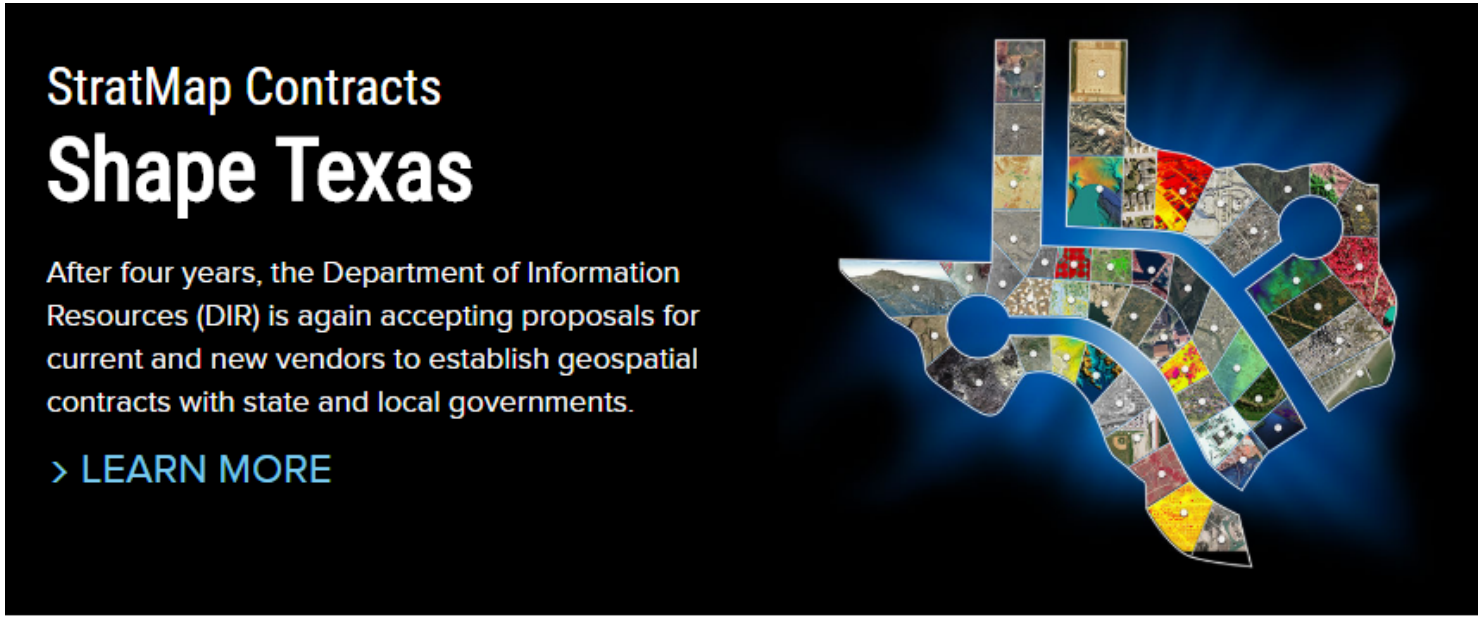
3rd ~~2nd~~ Quarter
Virtual GIS Community Meeting



STRATMAP CONTRACTS RE-BID OF VENDOR POOL

Geospatial Data, Services & Software





Schedule

- Request for Offer opened **Dec. 20, 2019**
- Vendor submissions due **Feb. 21, 2020**
- New vendor pool **Early Fall 2020**

DIR
Dept. of Information Resources

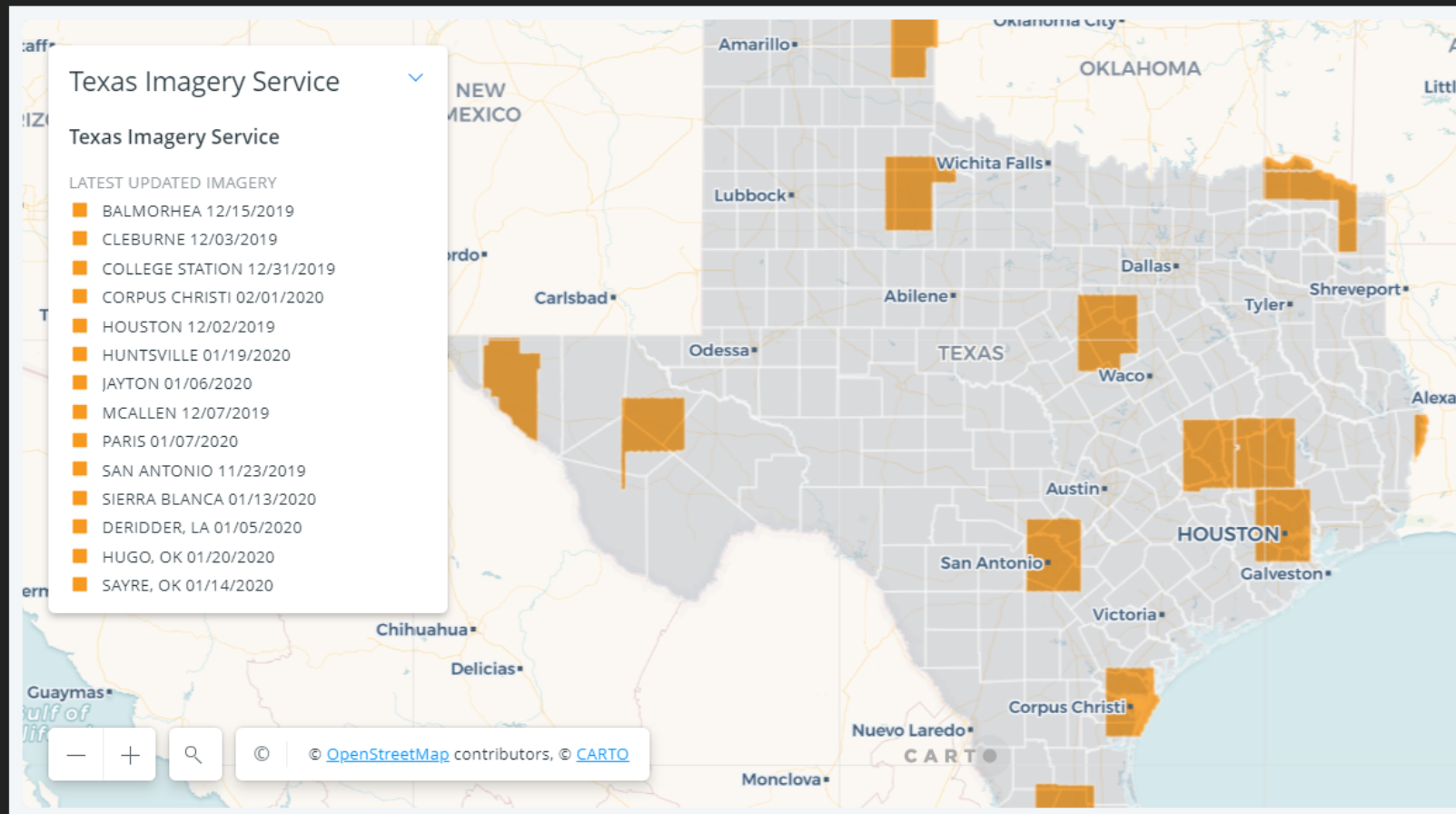
TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter Virtual GIS Community Meeting

TEXAS IMAGERY SERVICE

- Aerial imagery from Google.
  - **New imagery provider coming Sept 1!**
- 6-inch pixel resolution
- Statewide coverage
  - 2011 - present
- Automatic Imagery Updates
  - Entire state refreshed every 3-4 years
- Streaming data service
  - WMTS/WMS links
- Annual subscription fee
  - Join any time at prorated fee

Latest Updated Imagery



TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter Virtual GIS Community Meeting

TEXAS IMAGERY SERVICE

- Image updates from Google will end **August 31, 2020**
- Continued access to all past imagery

- **New imagery** content coming **September 2020** from AppGeo® and HEXAGON | HxGN Content Program
  - Statewide 2018 imagery will refresh rural areas
  - Statewide 2020 imagery coming early 2021

TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter Virtual GIS Community Meeting

TEXAS IMAGERY SERVICE

Cost Model

- No change
- Plan budgets for FY2021 same as current

State Agency

Level	Data Usage*	Costs**
Tier 1	Power	$375,000
Tier 2	Advanced	$125,000
Tier 3	High	$62,500
Tier 4	Moderate	$31,250
Tier 5	Minimum	$15,625

Regional Agency

Flat fee $15,000**

Local Agency

Flat fee $6,000**

* Data usage is calculated based on an annual metric of service requests.

** Cost does not include DIR Fee

Request a Link Today

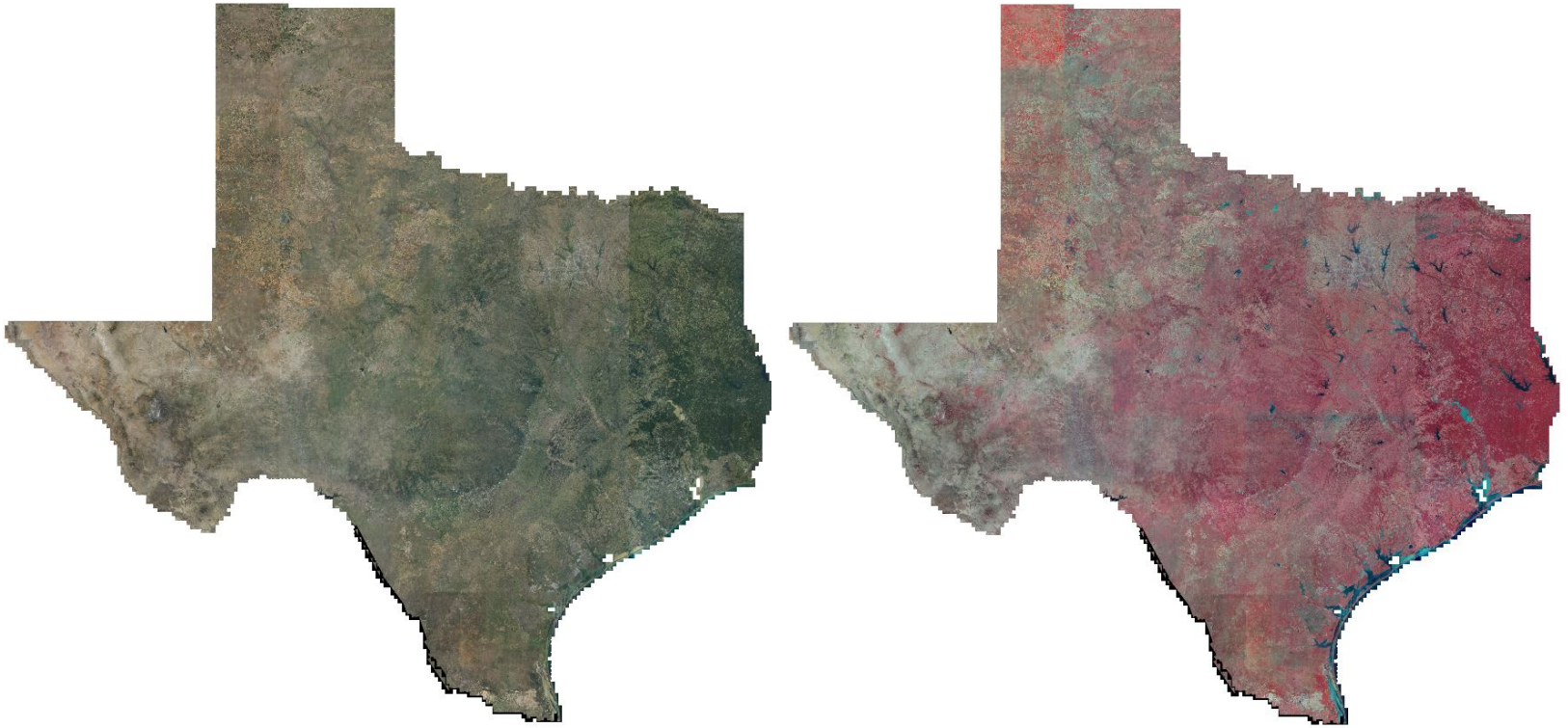
https://www.tnris.org/google-request/

NATIONAL AGRICULTURE IMAGERY PROGRAM

- 2020 NAIP acquisition for TX: *In Progress*

Specs

- 60-cm (2-foot)
- 4-band
- DOQQs
- Status: Acquisition in progress
- Public domain
- Available from TNRIS: 2021



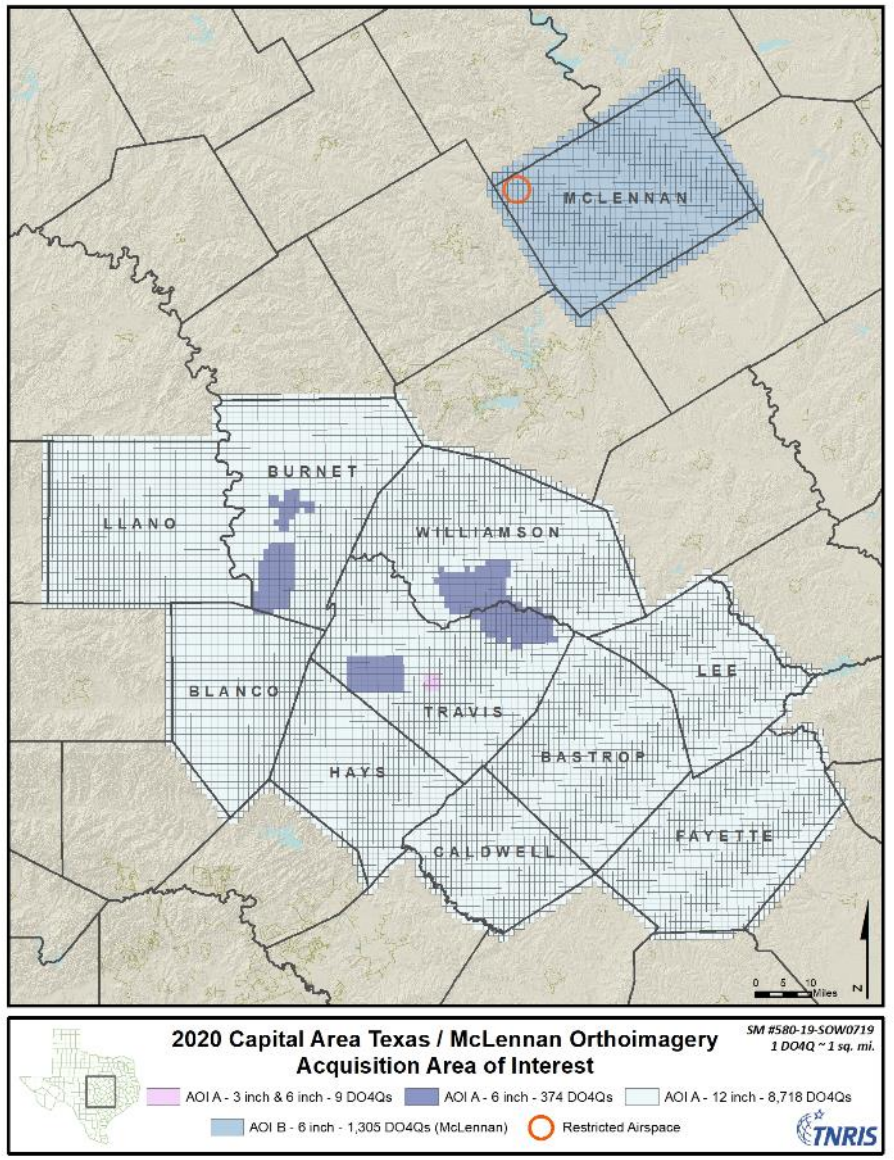
TEXAS GIO
Geographic Information Office

~~2nd~~ 3rd Quarter Virtual GIS Community Meeting

2020 CAPITAL AREA / McLENNAN CO

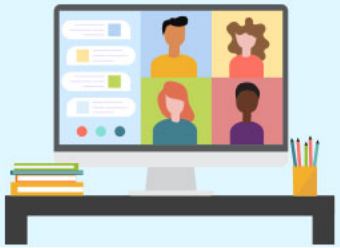
- 3-inch / 6-inch / 1-foot
- 4-band
- DO4Qs (.jp2)
- Status: Delivered
- Available: Aug 2020

SURDEX CORPORATION



TEXAS GIO
Geographic Information Office

2nd Quarter
Virtual GIS Community Meeting

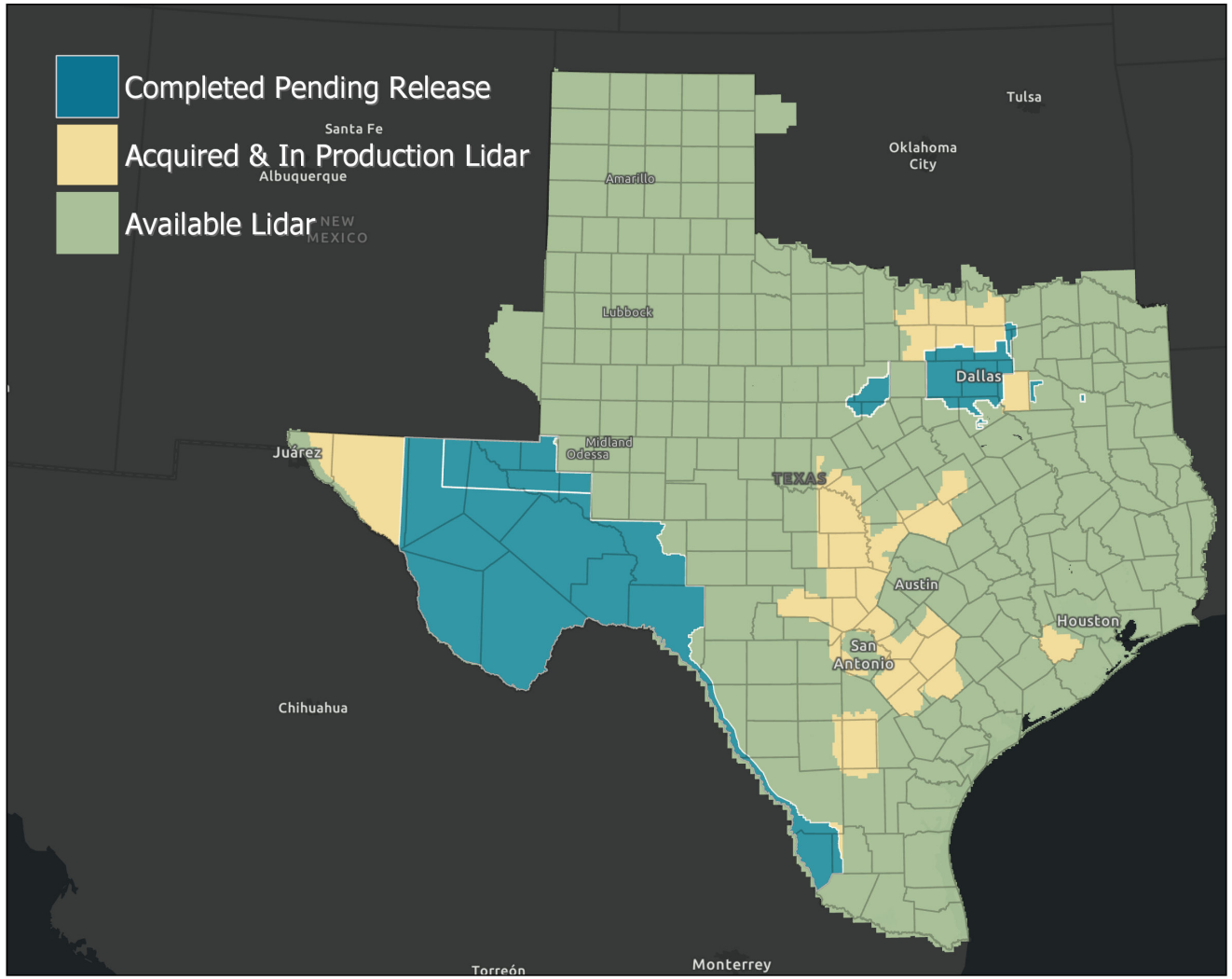


Texas Lidar Coverage 2020

Statewide Lidar Coverage Update for Texas

- Statewide availability of lidar is estimated for Fall 2020-Summer 2021 depending on release of the datasets by the USGS.

- Two StratMap lidar collections and two USGS lidar collection have completed and are pending release on Data.TNRIS.org



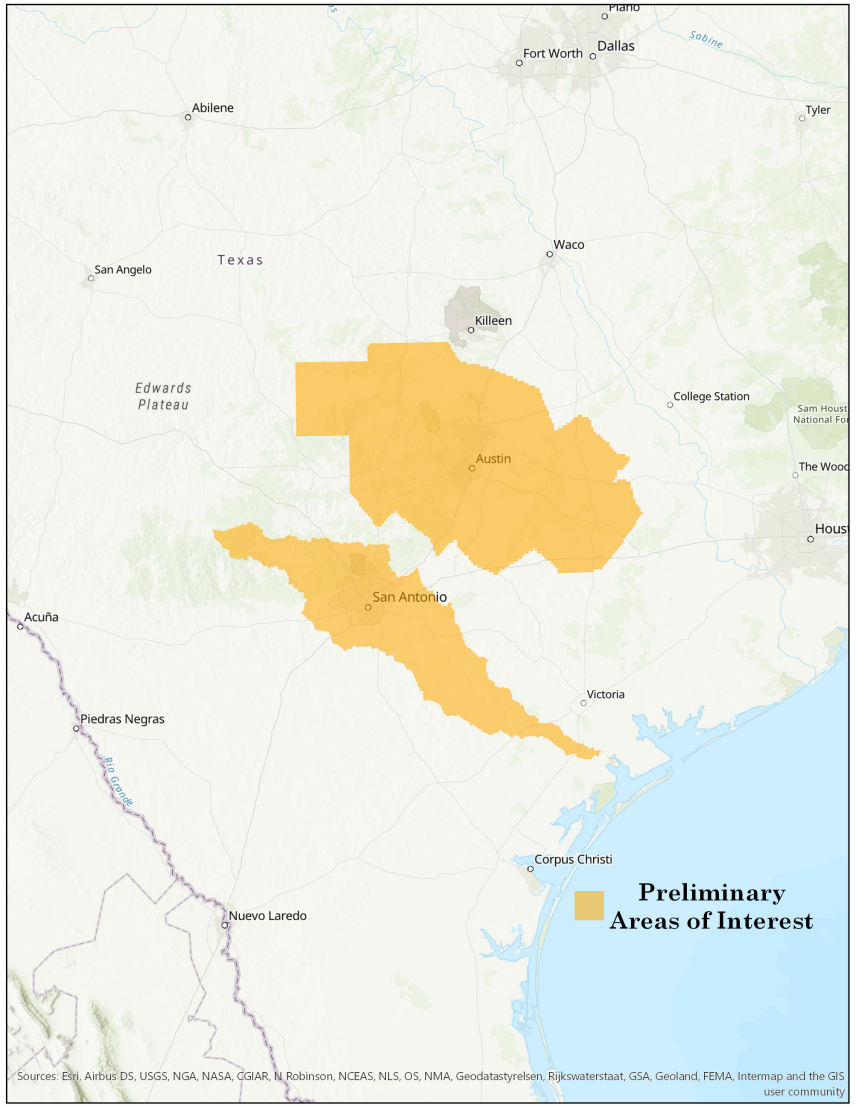
TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter
Virtual GIS Community Meeting

StratMap Winter 2020-2021 Season

Central Texas Region Data Acquisition for Lidar and Orthoimagery Update

- Local and regional partners are interested is pursuing ortho and lidar for large portions of the central Texas regions.
- Current plans are to acquire the lidar and orthoimagery as separate projects.
- If interested in participating, the deadline to submit areas of interest and be part of the statements of work is July 21.



A StratMap Funded Project

StratMap Data Initiatives on the Horizon

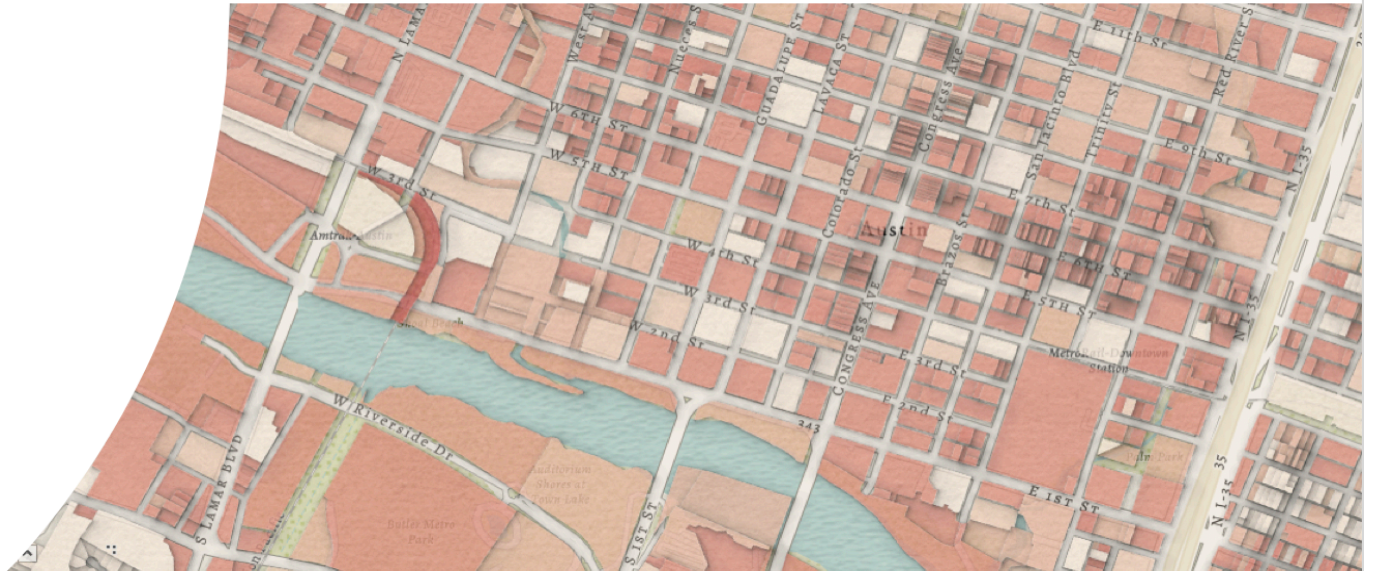
- Full Classification of Federal Lidar Projects.
  - Statement of work is in formal review and is anticipated for release in the coming months
- High Quality Bathymetric Data for Rivers Coastal Bays
  - Ongoing efforts to coordinate and define area of interest in coastal bay areas for pilot project. Currently evaluating an AOI over the Trinity and Galveston Bay areas.
  - Currently coordinating and planning data development in Texas with NOAA,TPWD,NRCS,TWDB, and USGS.
  - Elevation Derived Hydrography (Ele-Hydro)
  - Ideally will be coordinated to occur with or post inland bathymetry data collection or recent Lidar collections
  - USGS has released specifications for Ele-Hydro data collection(https://www.usgs.gov/news/usgs-specifications-deriving-hydrography-elevation-data-are-now-available)

TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter
Virtual GIS Community Meeting

Geographic Data Coordinator Introduction and Year 1 Goals

- Research and Familiarization with Land Parcels and Address Points in Texas.
- Standardization and Distribution of 2020 data.
- Refresh of TNRIS resources website resources.
- Work on solutions to fill gaps for missing Land Parcel and Address Point data.
- Formal outreach



TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter
Virtual GIS Community Meeting

A StratMap Funded Project

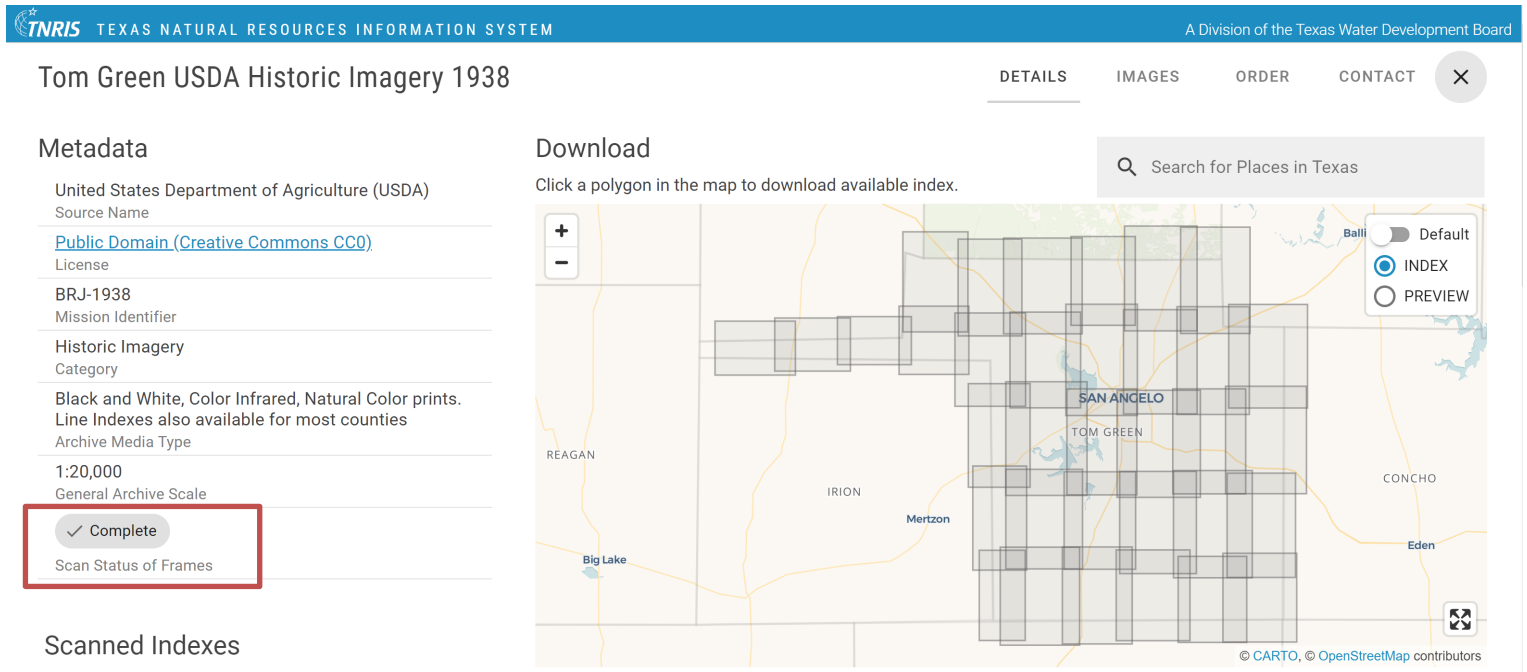
Historic Imagery Bulk Scanning Project

StratMap is currently reviewing proposals for the 2020 Bulk Scanning Project for the TNRIS Historical Imagery Archive.

The project will be funded by StratMap and scanning will take place over the next year, concluding in May 2021.

Advantages to TNRIS and the public:

- 100,000+ additional scanned images
- 750+ additional fully scanned collections
- Reduced turnaround time for Historical Imagery Orders
- Set foundation for Phase II



TEXAS GIO
Geographic Information Office

~~2nd~~ 3rd Quarter
Virtual GIS Community Meeting

7/17/17

Roll Call

Geospatial Technology Services

Texas General Land Office
George P. Bush Commissioner

Explore Current GIS Projects

All Themes

Search

Enhancements to Mapping Applications

Energy Map of Texas, STORM Viewer, Oil Spill Mapper, CDBG Viewer, ...

www.glo.texas.gov/gis

Preview

George P. Bush's Energy Map of Texas 2020

Updated Texas energy resources, new look, enhanced functionality

CommissionerBushMaps.com

Preview

Colonial Waterbird Rookeries

Updated layer of Texas coastal nesting sites

Details

Preview

Oil Spill Toolkit, 2020 Update

Multi-purpose oil spill response tool and decision-support resource

www.glo.texas.gov/ost

Preview

TxSed 3D Mapping Pilot Project

Texas Sediment Resources Geodatabase & Mapping Viewer

cgis.glo.texas.gov/txsed

Preview

GLO Drone

Standards & Guidelines for the Use of Drones at the Agency

Details

Preview

Resource Management Codes

Update to Codes that Protect Cultural & Natural Resources on State-Owned Submerged Lands

cgis.glo.texas.gov/rmc

Preview

Upcoming: 2020 Coastal Ownership Parcel Update

Used by Field Operations for Coastal Permitting

Details

Preview

Texas Parks & Wildlife Department

- Establishment of internal TPWD GIS Workgroup
- Consolidating all TPWD ESRI customer numbers (9) into one Agency account
- Merging 4 AGO subscriptions into one Agency AGO account

TxDOT GIS HUB

Your resource for everything GIS at TxDOT

Welcome to the TxDOT GIS Hub, your source for GIS information and resources. Explore all the ways GIS can help you get your work done, such as accessing data and maps, or requesting software and training, plus so much more.

TxDOT.gov
Home

open DATA portal
Open Data Portal

ArcGIS Online

TxDOT GIS Portal

TxDOT Apps Hub

SWIGGIS

07/23 TH: SWIGGIS & URISA TX VIRTUAL TRIVIA NIGHT (ESRI UC)

DETAILS & RSVP:

HTTPS://WWW.URISATEXAS.ORG/EVENT-3874268

UPCOMING: GISP WORKSHOP & VIRTUAL INTERVIEWS PANEL

OPEN OFFICER POSITIONS & WELCOMING MEMBERS

SWIGGIS.AUSTIN@GMAIL.COM

Connect with SWIGGIS

swiggis.org | Meetup.com | LinkedIn.com | Twitter

TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter
Virtual GIS Community Meeting

Working with Real Time Traffic Data: Update, Visualize, Analyze and LinkIT with Reports

Presented by Trey Nunn trey.nunn@tessellations.us

TESSELLATIONS

Working with Real Time Traffic Data

Update, Visualize, Analyze and LinkIT with Reports

Presenter: Trey Nunn

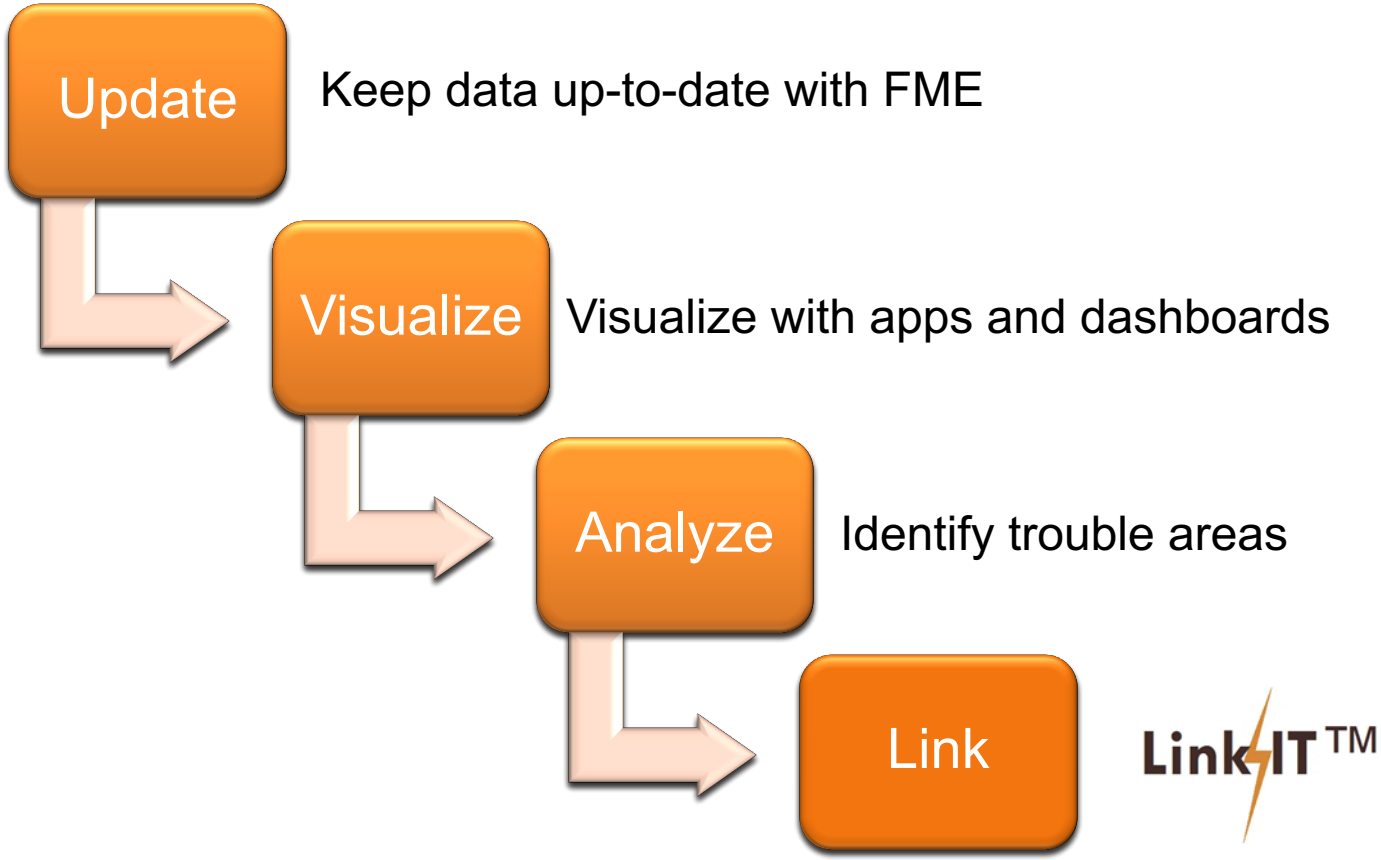
July 21, 2020

8505 Technology Forest Place, Suite 1104, The Woodlands, Texas 77381
www.tessellations.us

Tessellations Inc.

- GIS services for the past 22 years
- Support full stack of Esri products – Desktop, Enterprise, ArcGIS Online
- Software development, data management and manipulation, image processing, business intelligence and training
- Oil and Gas, Local and State government
- Partners – Esri, Safe software (FME), Planet and Microsoft

Austin Real Time Traffic Incidents - Process



What is FME?

- FME – Feature Manipulation Engine
- ETL Capabilities
- Connect to over 450 formats and applications
- Transform and manipulate content
- Automate workflows to run on regular schedules

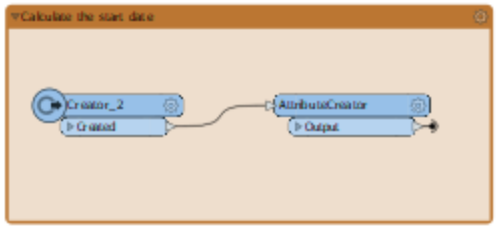
Austin Traffic Incidents FME Tasks

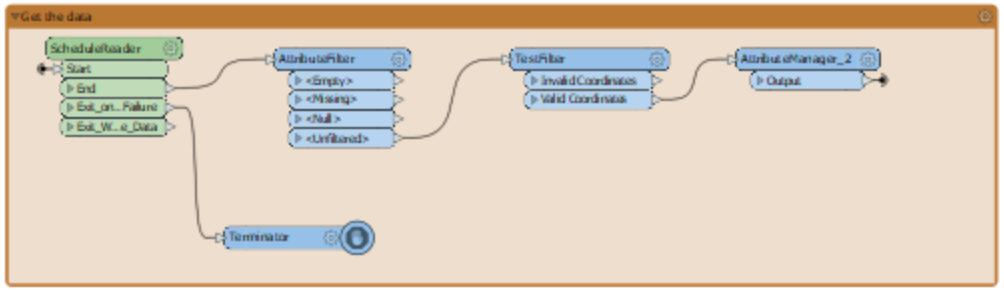
Austin Open Data Porta **JSON to Tabular Rows** **Detect Changes** **.bat Task Scheduler**

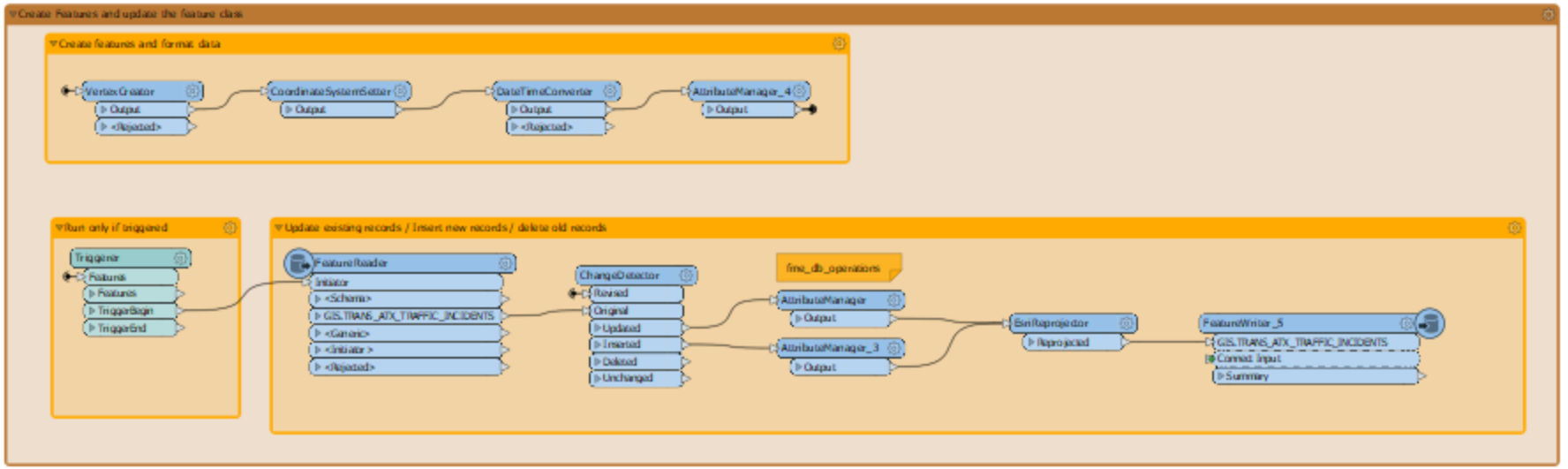
Traffic Data API **Lat/Long Attributes** **Insert/Update** **FME Server**

Let’s take a look…

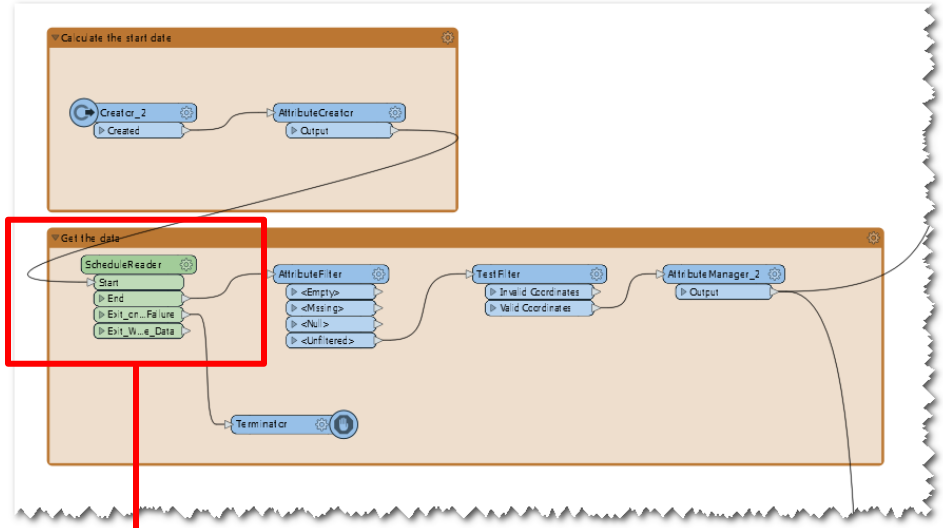
FME Work Bench

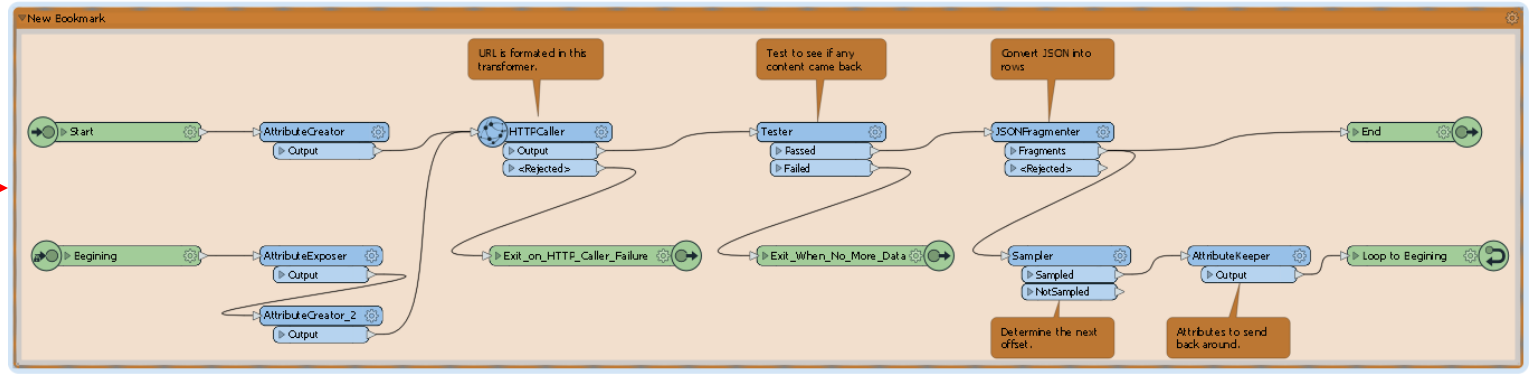




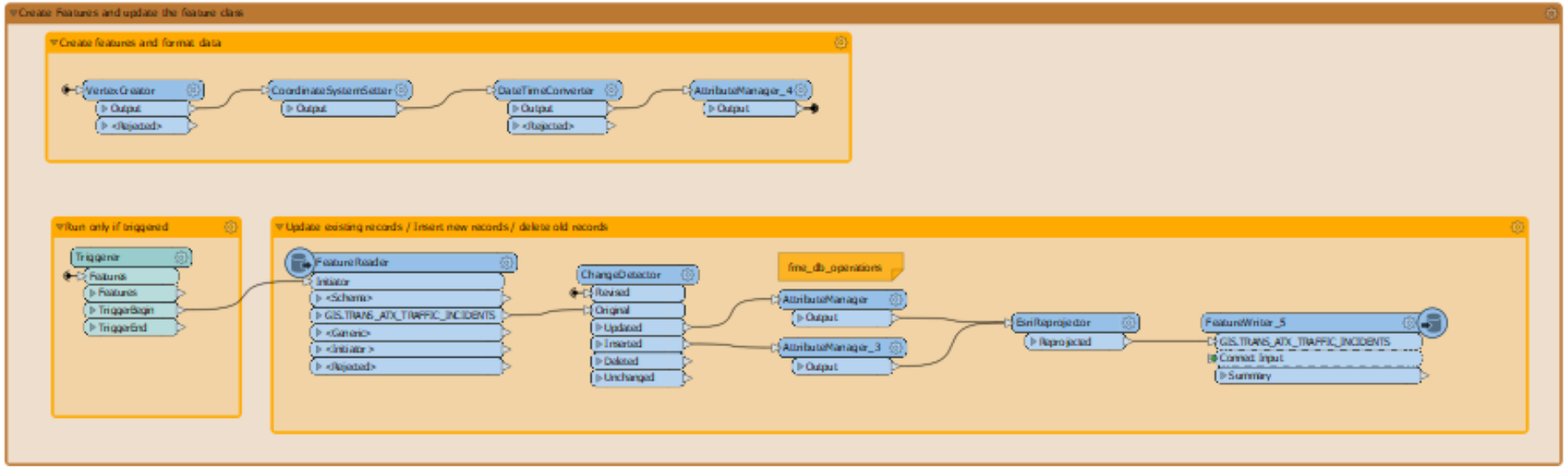


Download Data



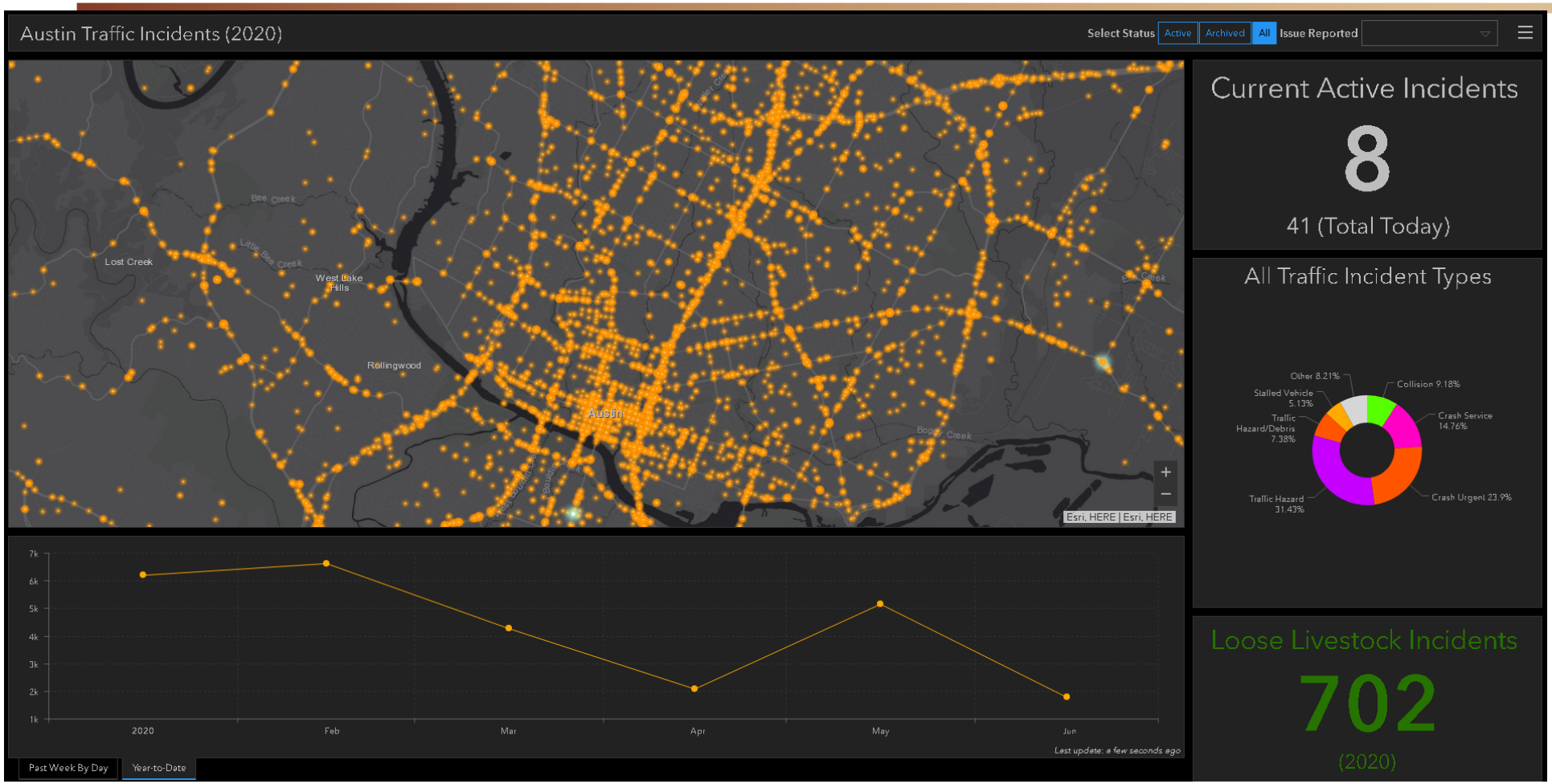


Create Feature and Update Feature Class



Traffic Incident Dashboard

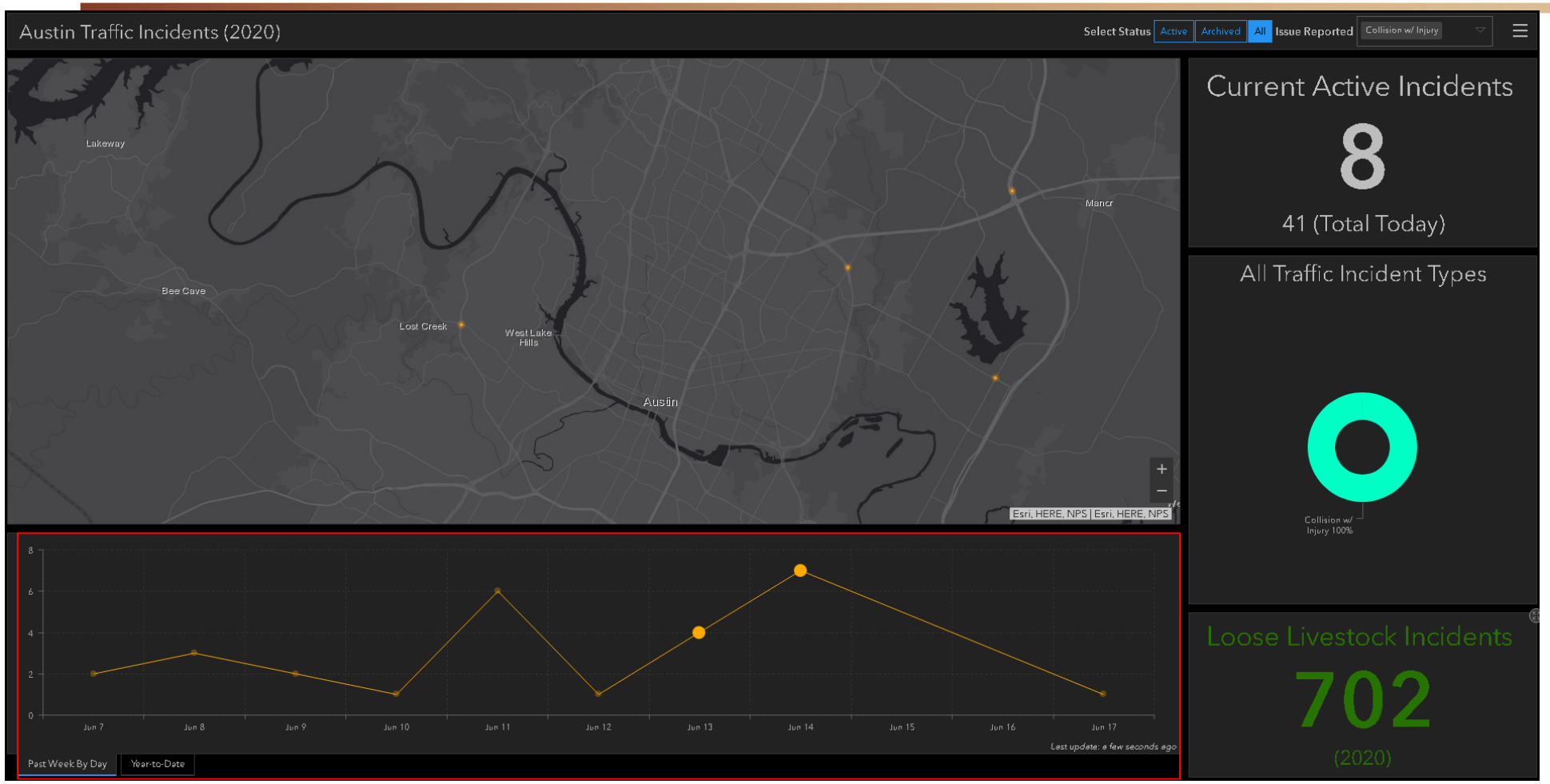
Traffic Incidents – By Month



View Active Incidents Only

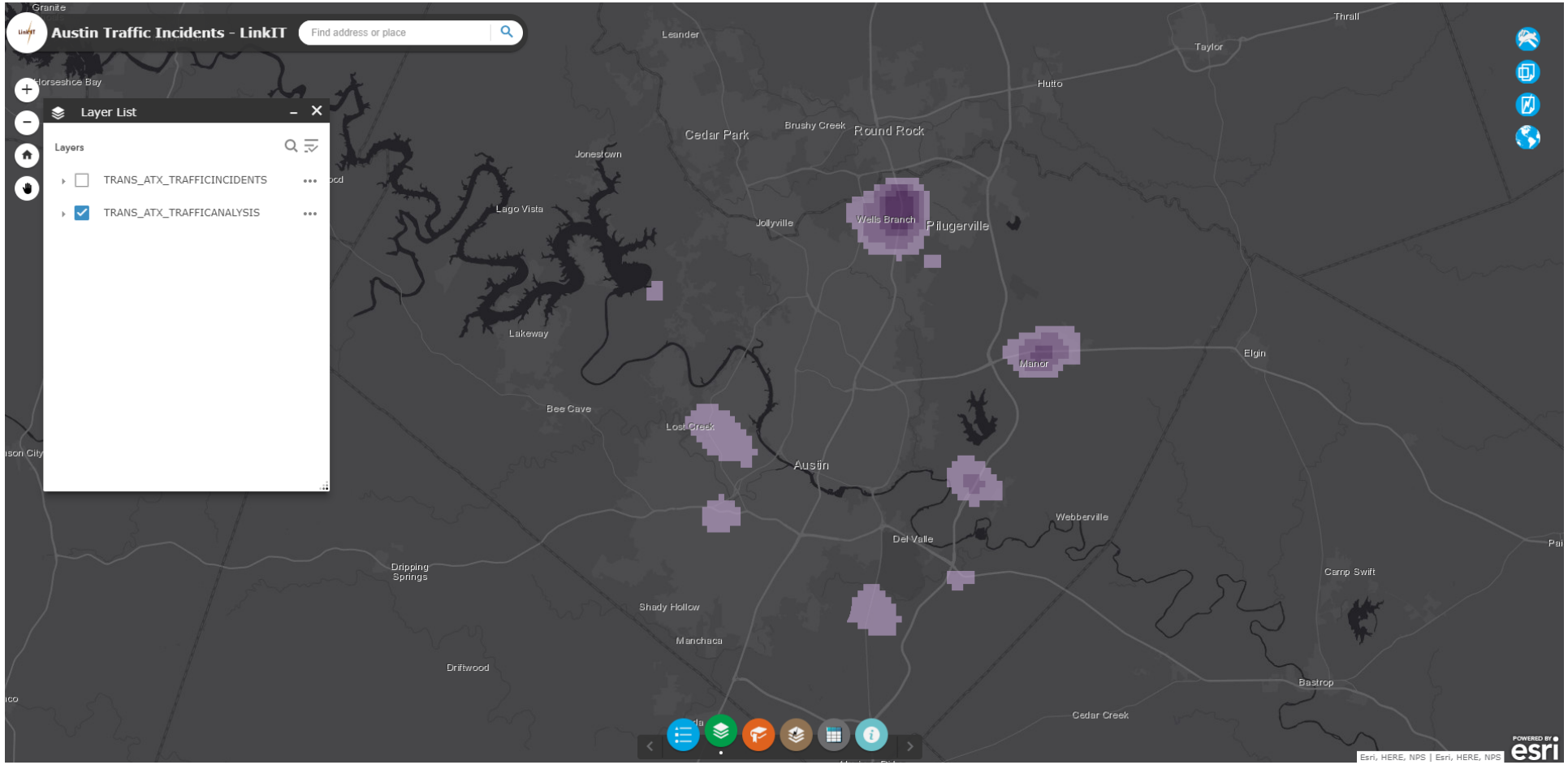
Filter by Issue Reported

Further Filter by Selecting Dates

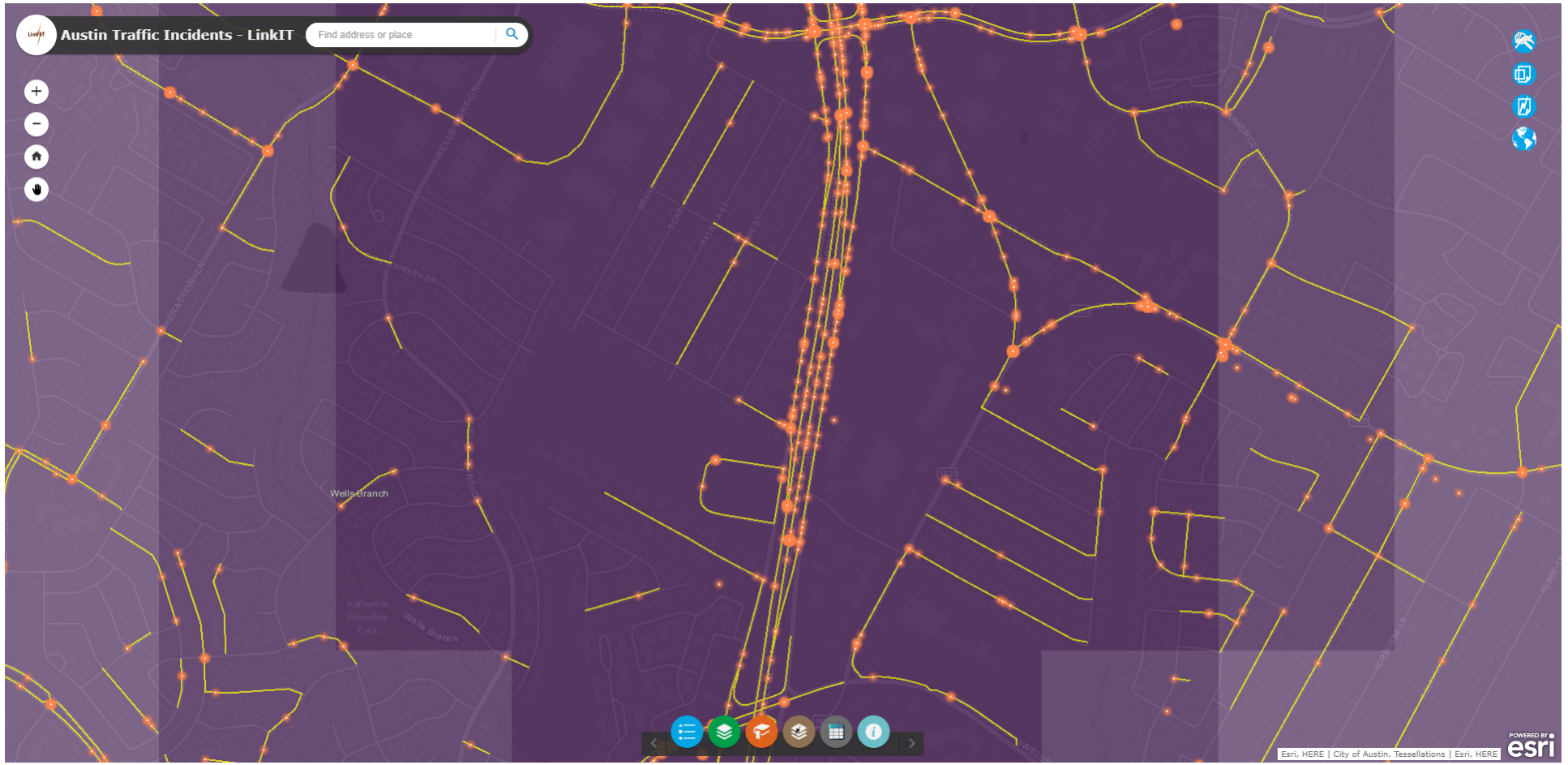


Kernel Density Analysis

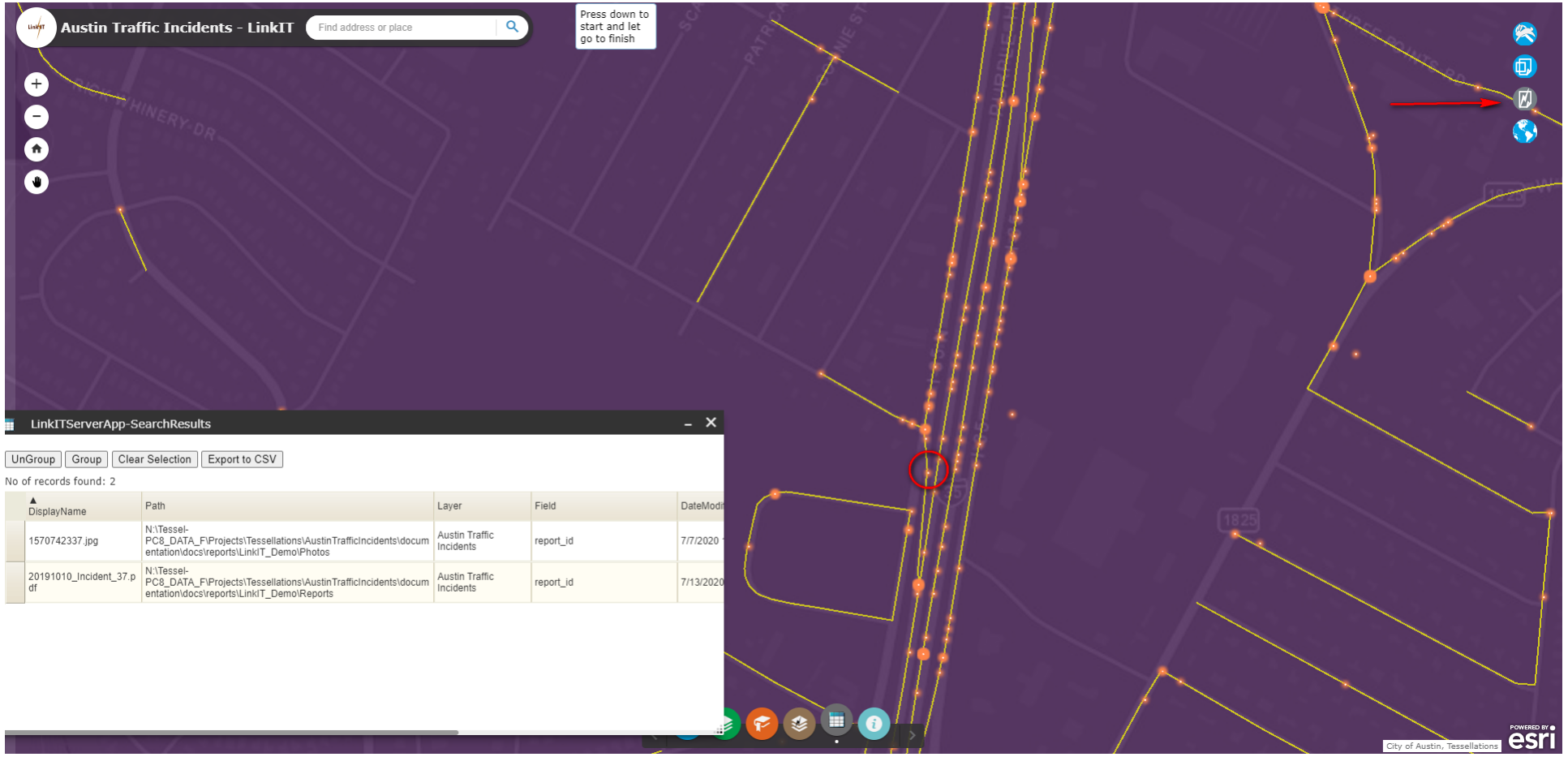
Analyzing Collision Traffic Incidents



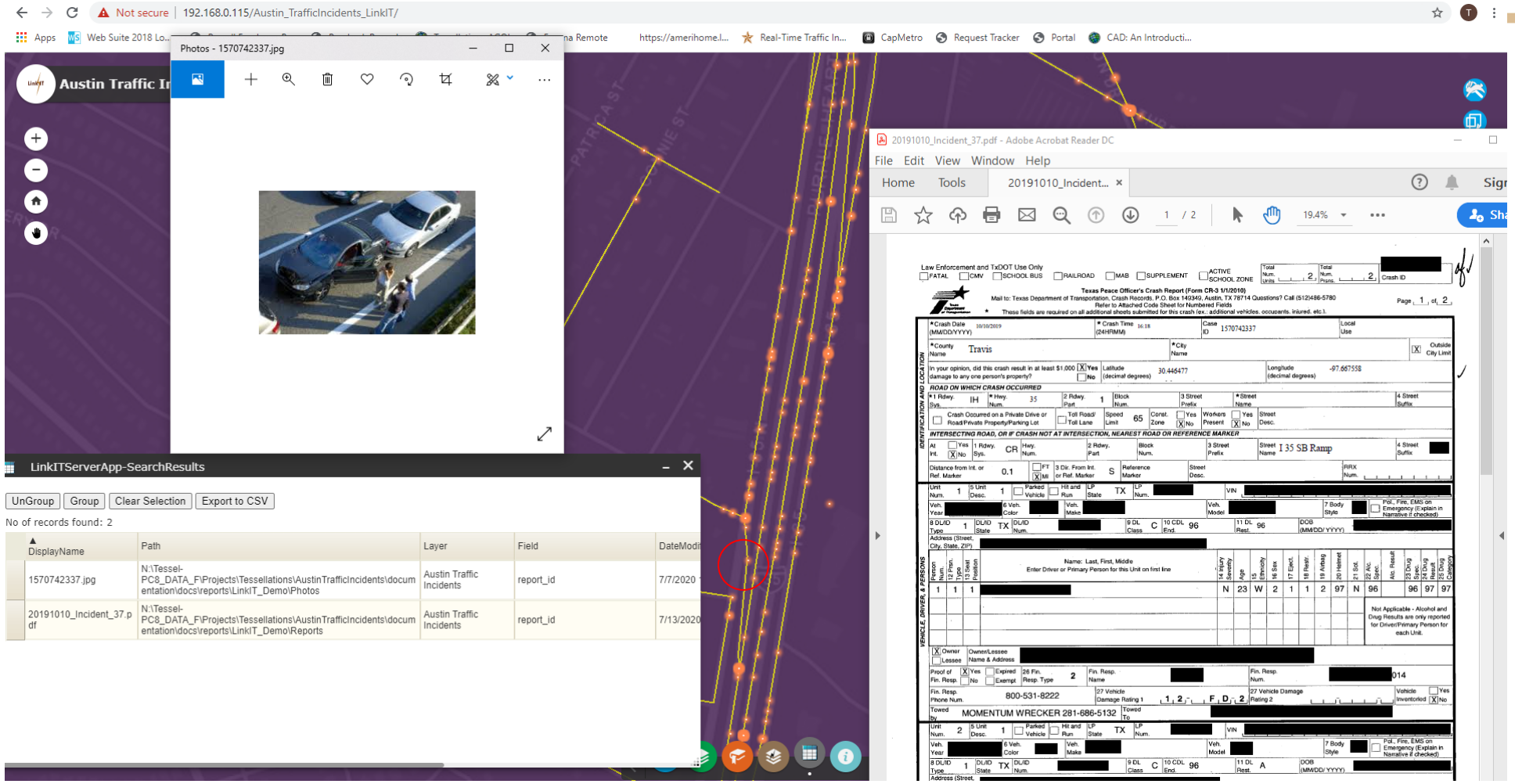
Street Hotspot Analysis



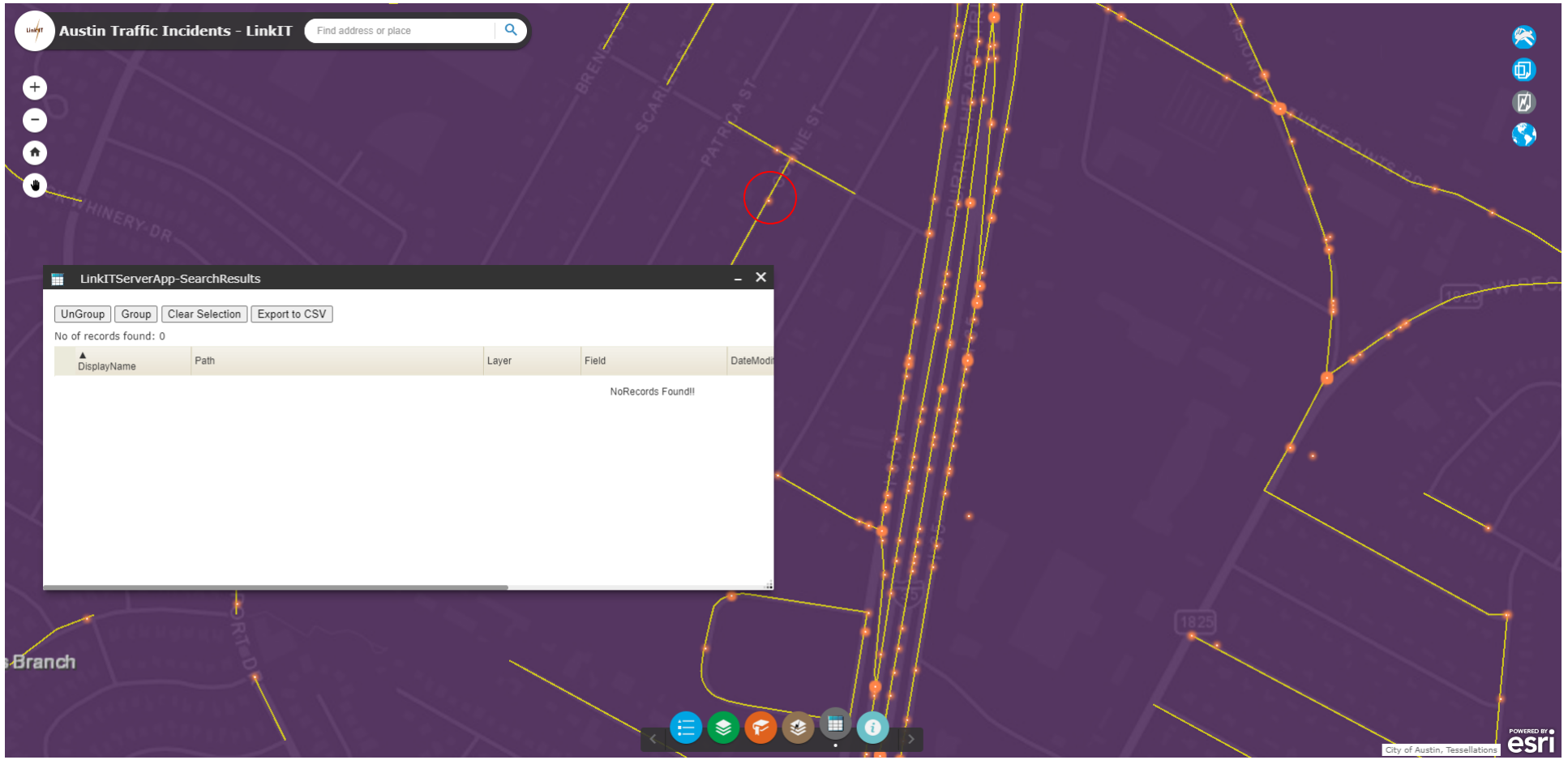
LinkIT


Austin Traffic Incidents - LinkIT
Find address or place
Press down to start and let go to finish
LinkITServerApp-SearchResults
UnGroup
Group
Clear Selection
Export to CSV
No of records found: 2
DisplayName
Path
Layer
Field
DateModi
1570742337.jpg
N:\Tessel-PC8_DATA_F\Projects\Tessellations\AustinTrafficIncidents\documentation\docs\reports\LinkIT_Demo\Photos
Austin Traffic Incidents
report_id
7/7/2020
20191010_Incident_37.pdf
N:\Tessel-PC8_DATA_F\Projects\Tessellations\AustinTrafficIncidents\documentation\docs\reports\LinkIT_Demo\Reports
Austin Traffic Incidents
report_id
7/13/2020
City of Austin, Tessellations
esri

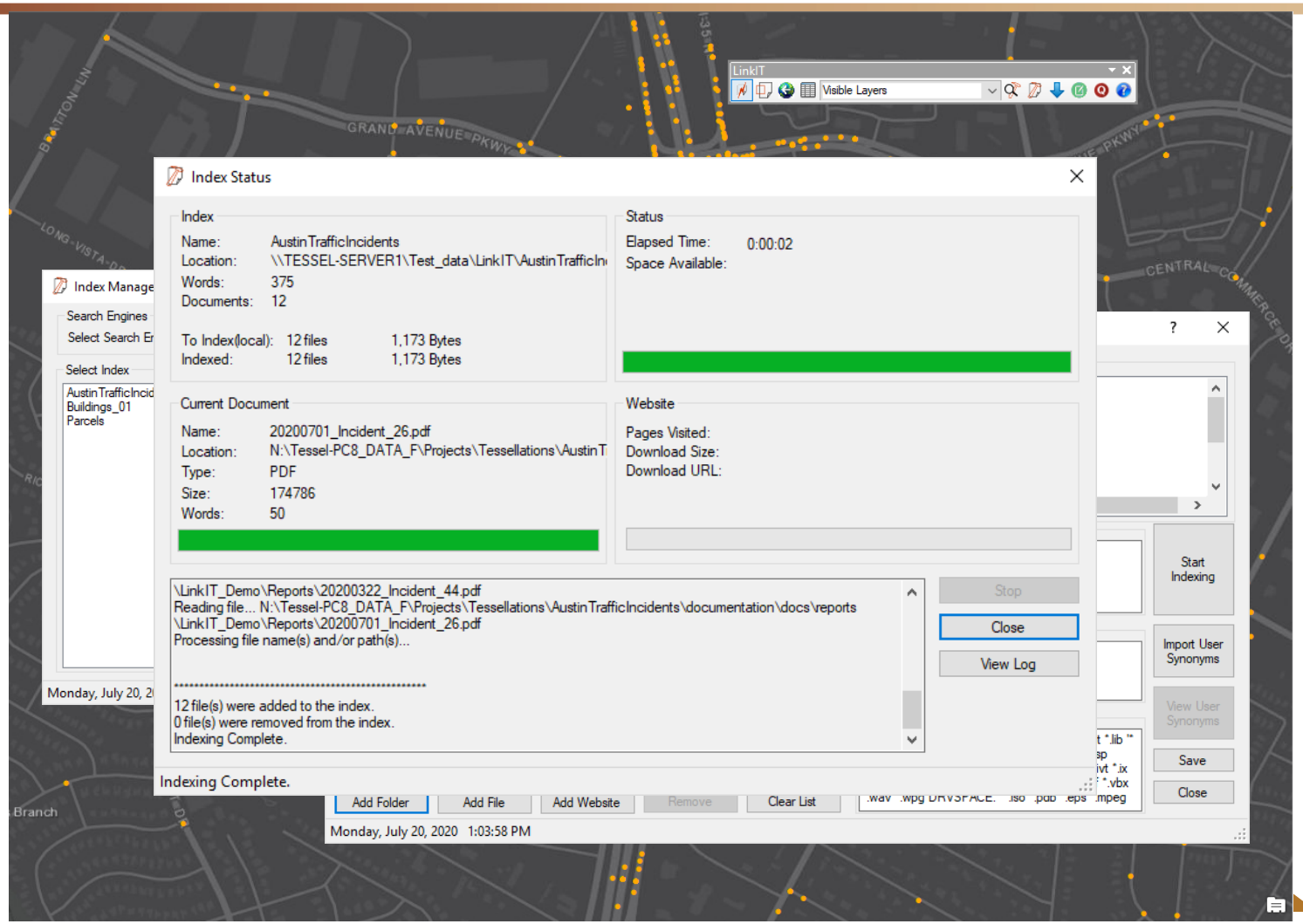
Traffic Incident Documents



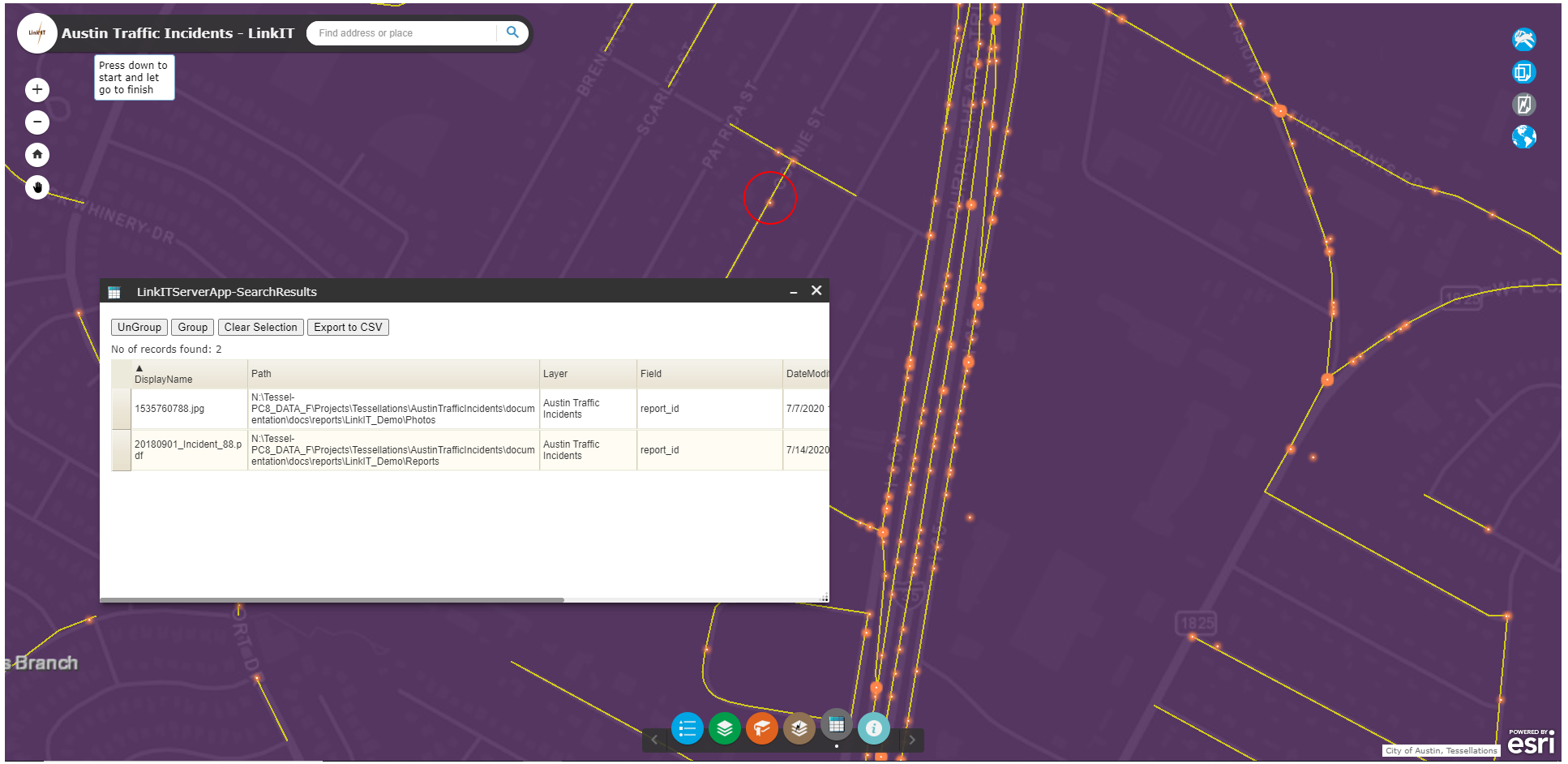
No Documents Linked…Yet



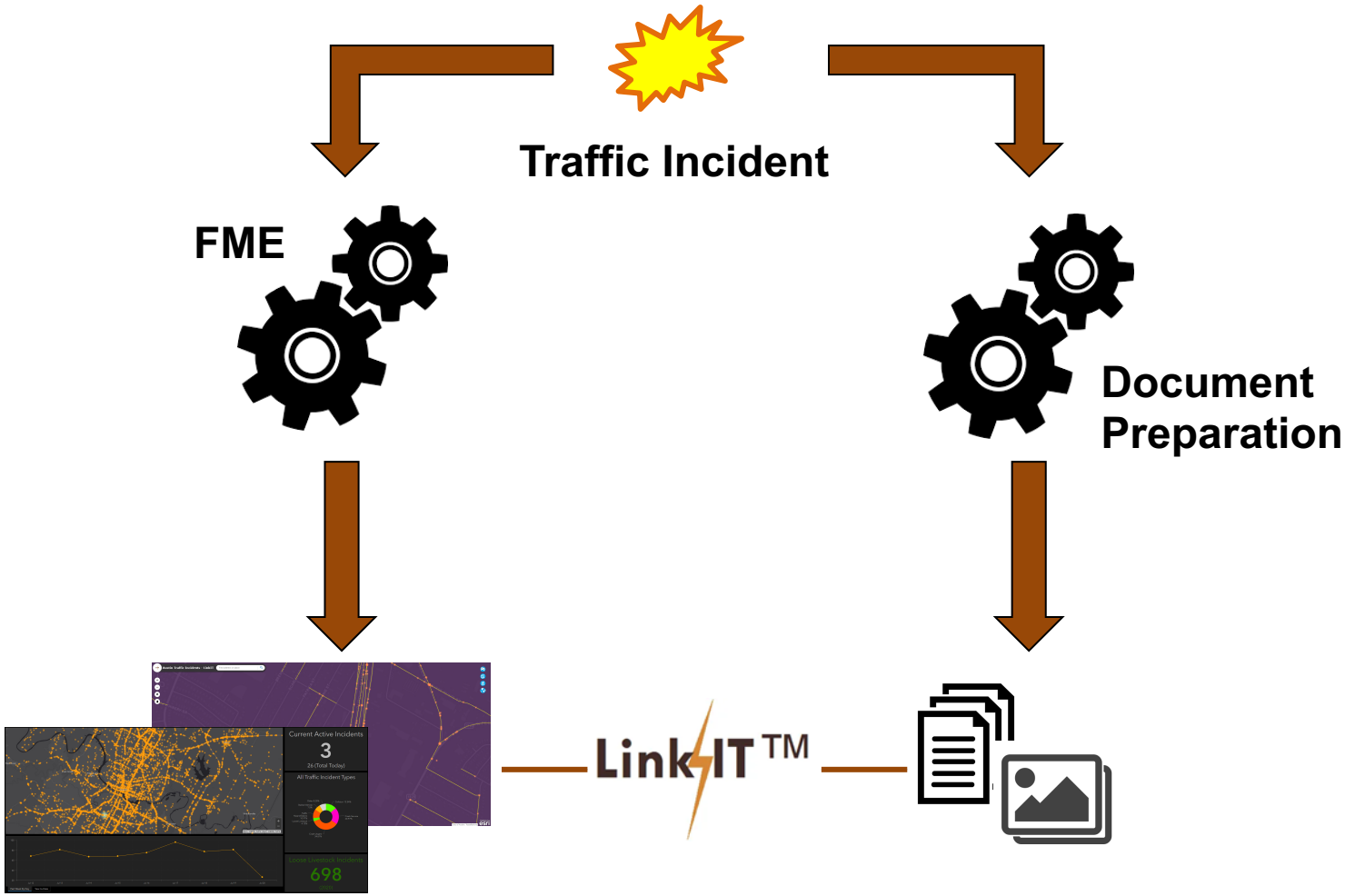
Update Index



Documents Linked



Recap


Traffic Incident
FME
Document Preparation
Current Active Incidents
3
698
LinkIT™

Q&A

Trey Nunn
936-321-1998
Trey.nunn@tessellations.us

Beni Patel
713-927-7062
beni@tessellations.us

Launching….

Tessel Bytes YouTube

Esri tutorials – short 2-5 minutes

email Hugh if you want the link
Hugh.bender@tessellations.us
Or visit our website
www.tessellations.us

TEXAS GIO
Geographic Information Office

~~2nd~~ 3rd Quarter
Virtual GIS Community Meeting

TEXAS GIO
Geographic Information Office

3rd ~~2nd~~ Quarter
Virtual GIS Community Meeting

Next Meeting