

T E X A S
GIO

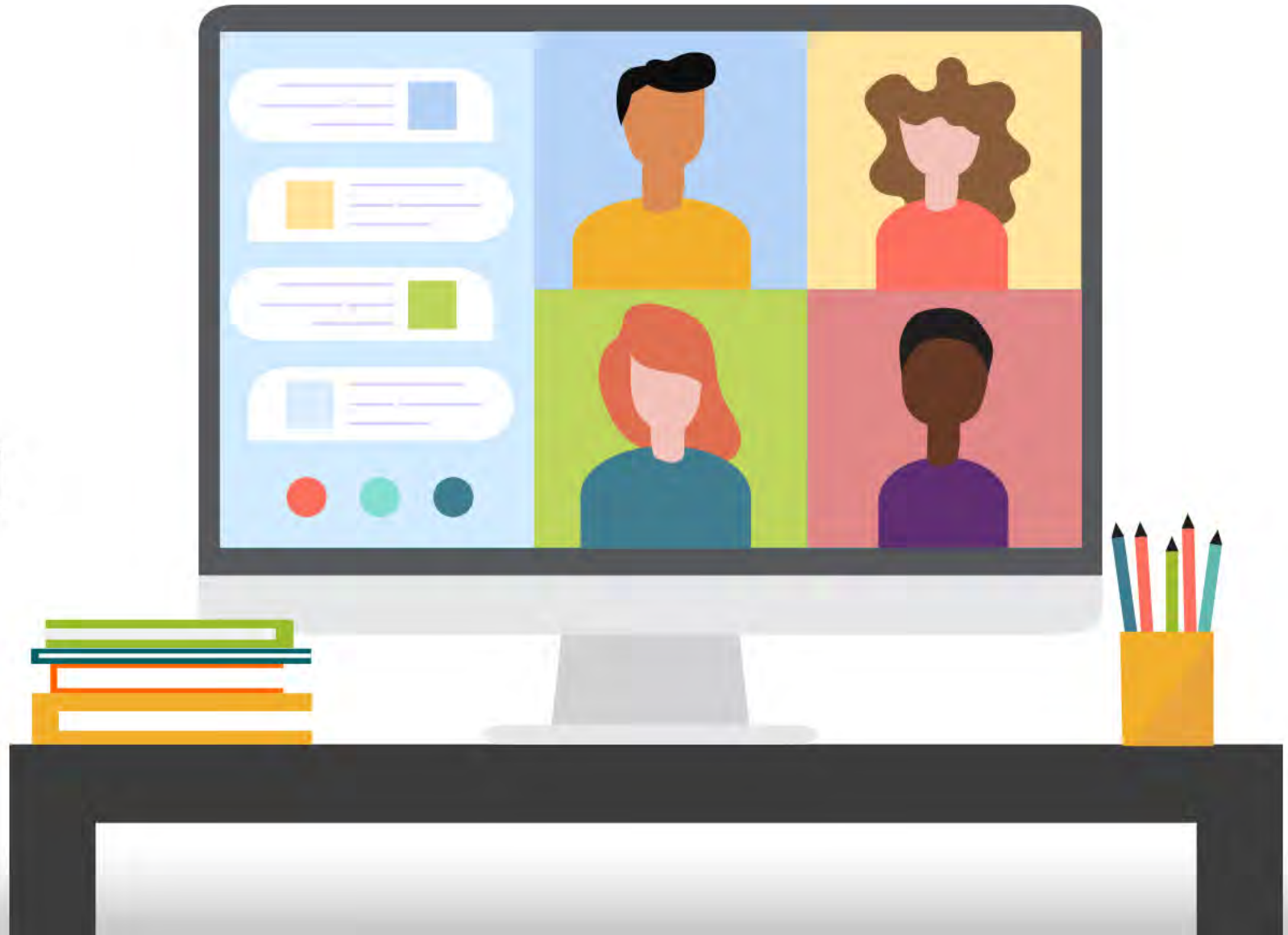
Geographic Information Office

2nd Quarter

Virtual GIS

Community Meeting

April 30, 2020





Welcome	2:00 – 2:10
Project Updates	2:10 – 2:40
Agency Roll Call	2:40 – 3:10
1Spatial Presentation	3:10 – 3:40
Audience Q&A	3:40 – 4:00



Since we last met....



- ✓ Working from Home
- ✓ Education & Forum Planning
- ✓ SPCS 2022
- ✓ GIS Rule Adoption
- ✓ NGAC Appointment
- ✓ GIO Report











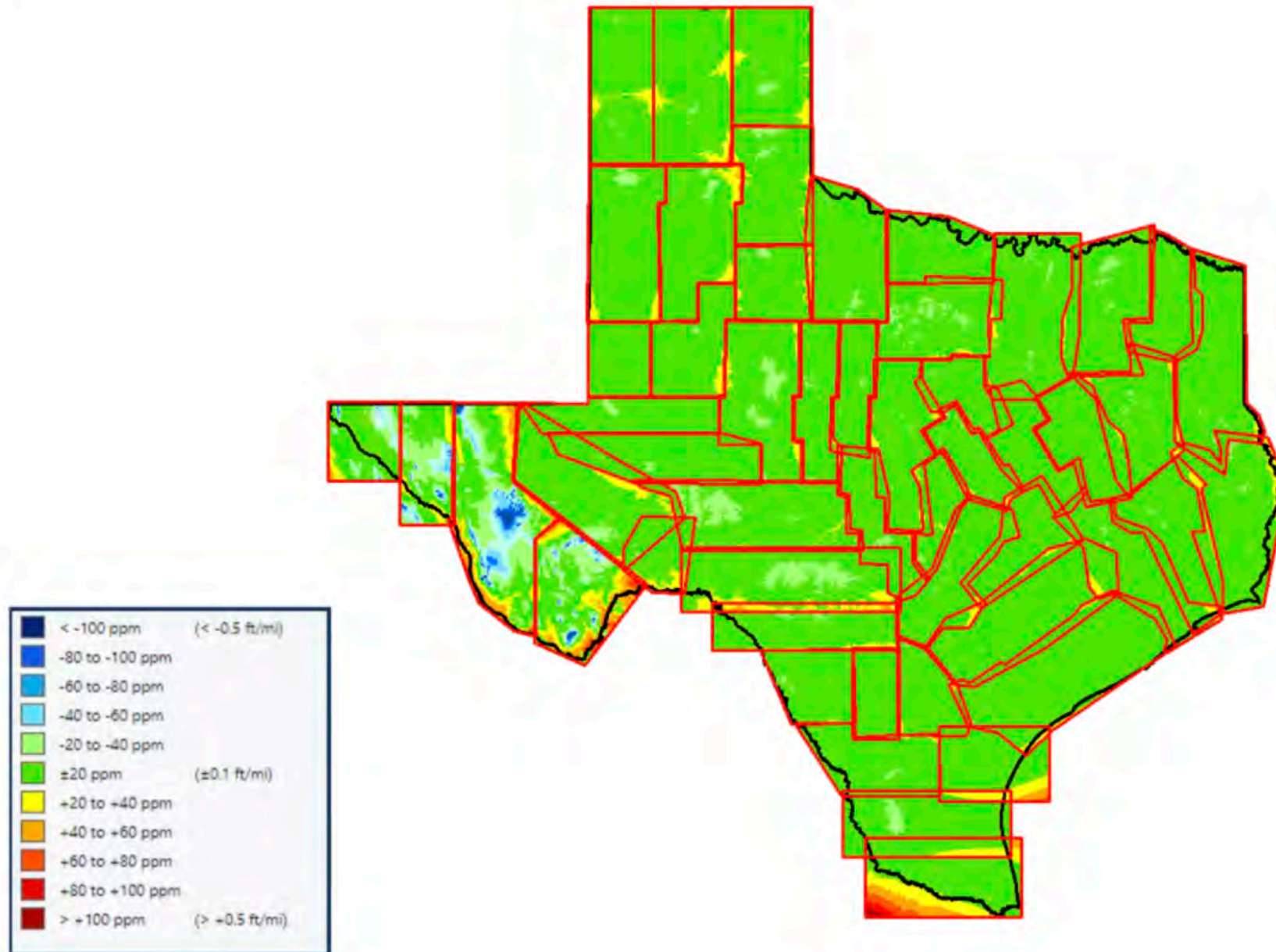


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Texas LDP (About 53 LDP Zones) – Distortion Raster





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National Geospatial Advisory Committee Duties

- 1) Provide advice and recommendations relating to:
 - a) The management of Federal and national geospatial programs;
 - b) The development of the National Spatial Data Infrastructure (NSDI); and
 - c) Implementation of the Act;

- 2) Review and comment on geospatial policy and management issues; and

- 3) Ensure the views of representatives of non-Federal interested parties involved in national geospatial activities are conveyed to the FGDC.

More info at <https://www.fgdc.gov/ngac>



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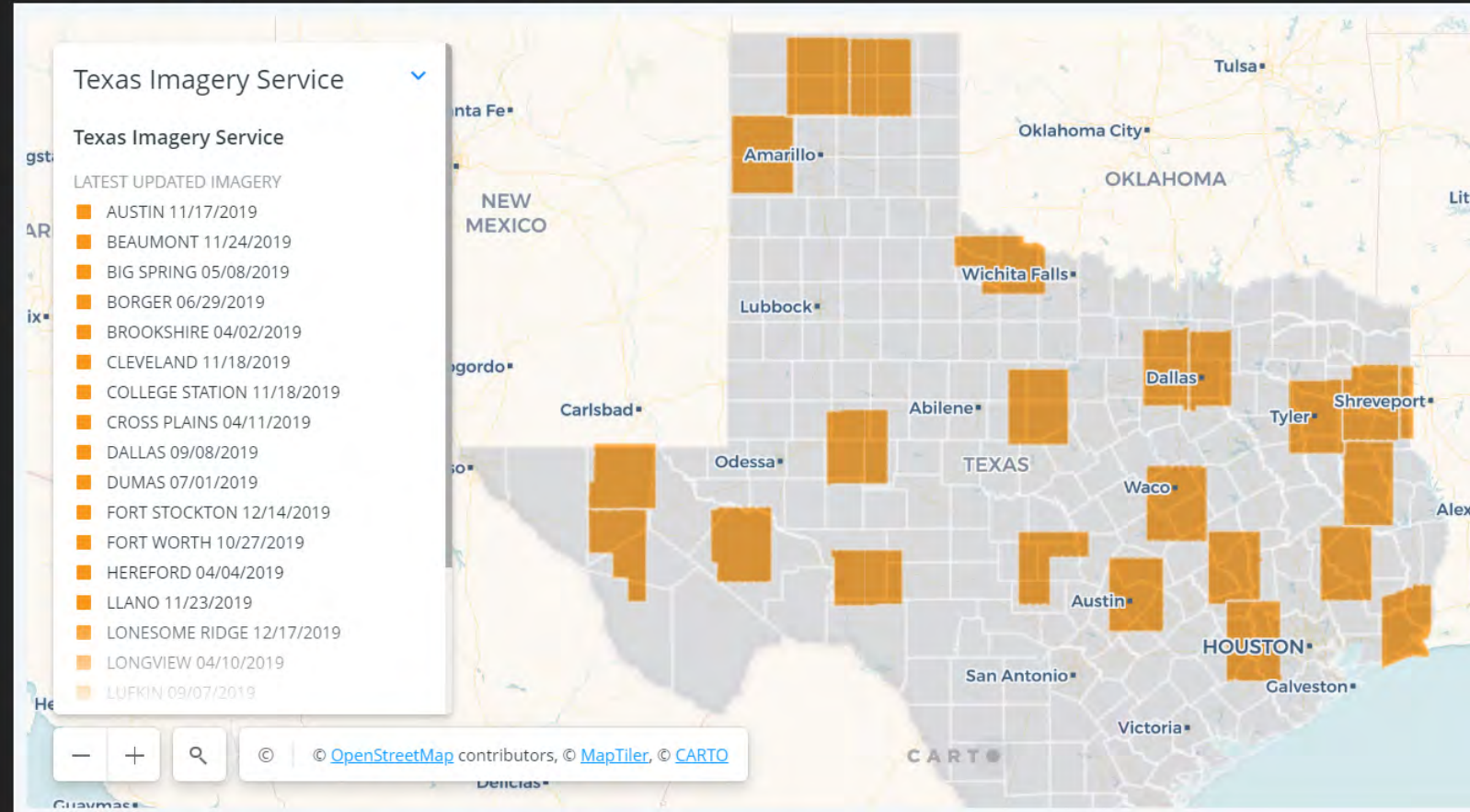


TEXAS IMAGERY SERVICE

- Aerial imagery from Google.
 - **New imagery provider coming soon!**
- 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 IMAGERY SERVICE

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



- Continuation of the **Texas Imagery Service!!**
 - **Goal is to renew with AppGeo: New imagery content coming September 2020**
 - Goals
 - Keep resolution 6-inch or near 6-inch statewide
 - Refresh Texas every 3 years (min); Urban areas flown annually
 - Keep current links



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



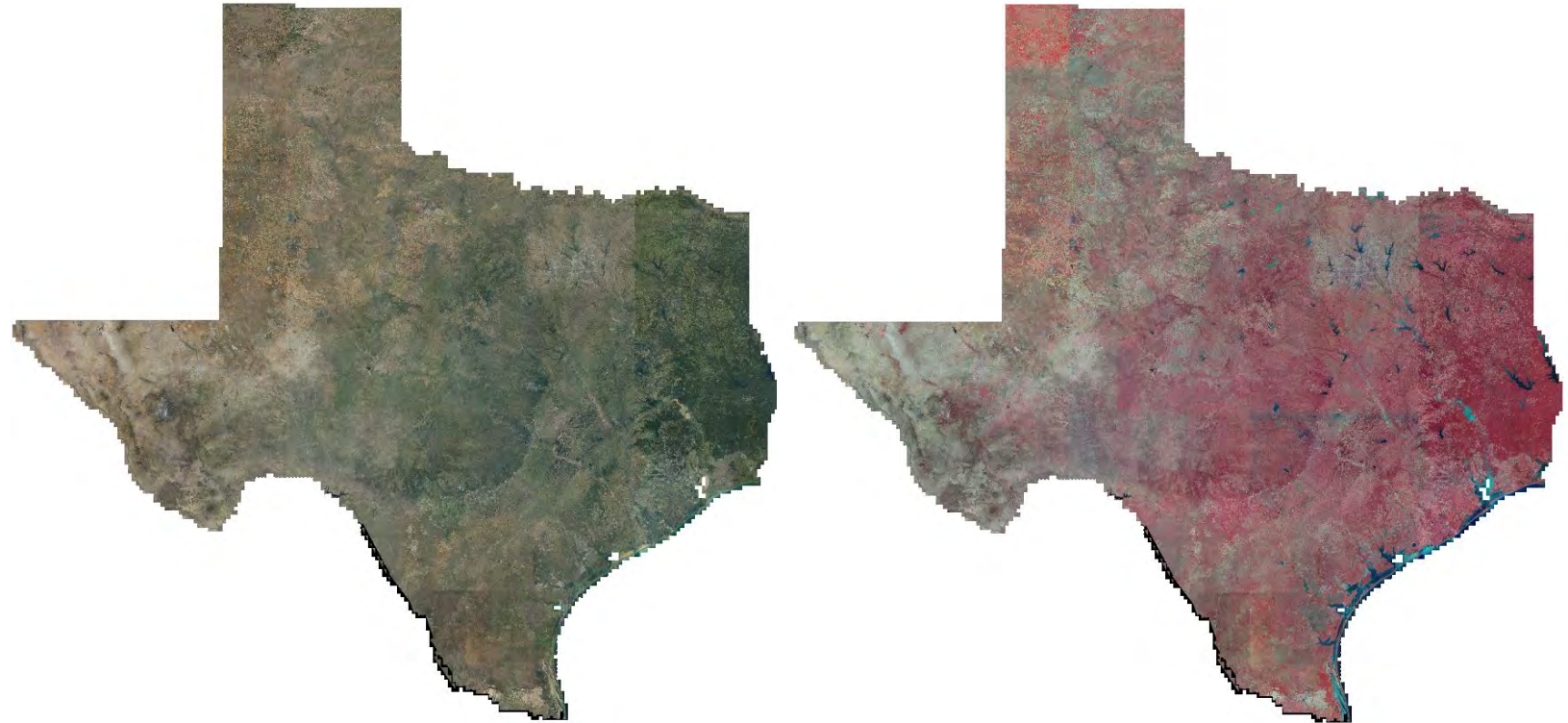


NATIONAL AGRICULTURE IMAGERY PROGRAM

- NAIP acquisition for TX in **2020**: *Planned*

Specs

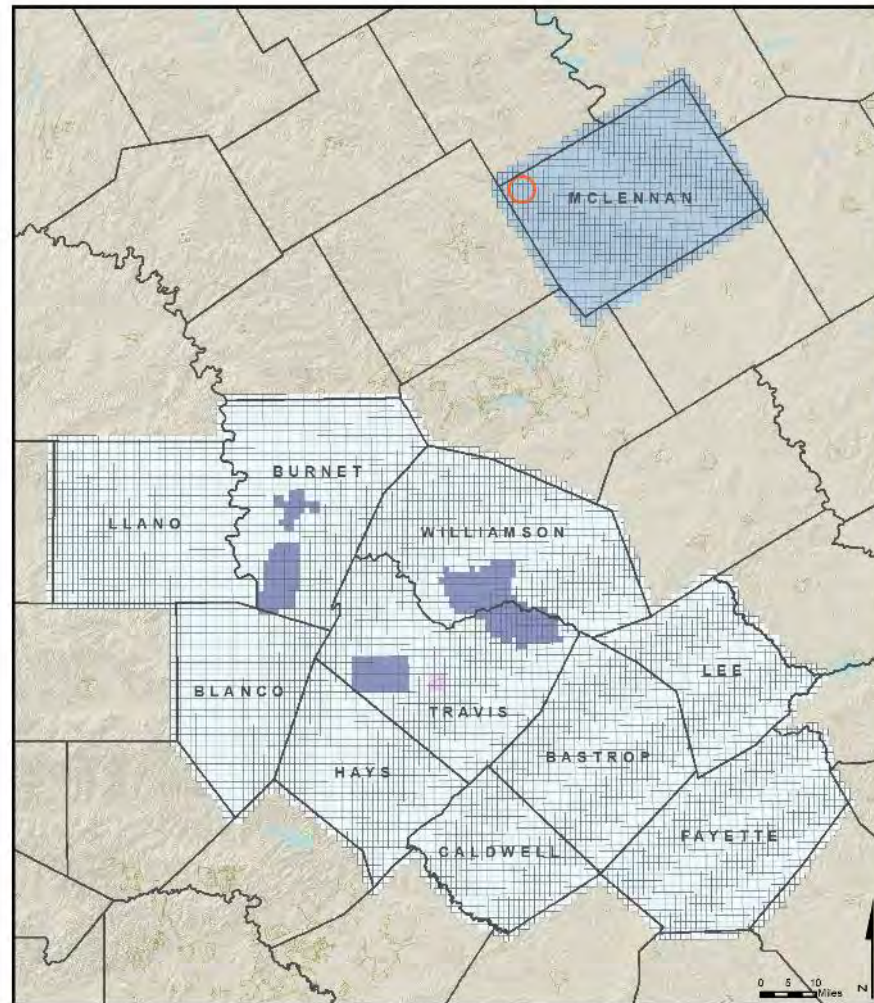
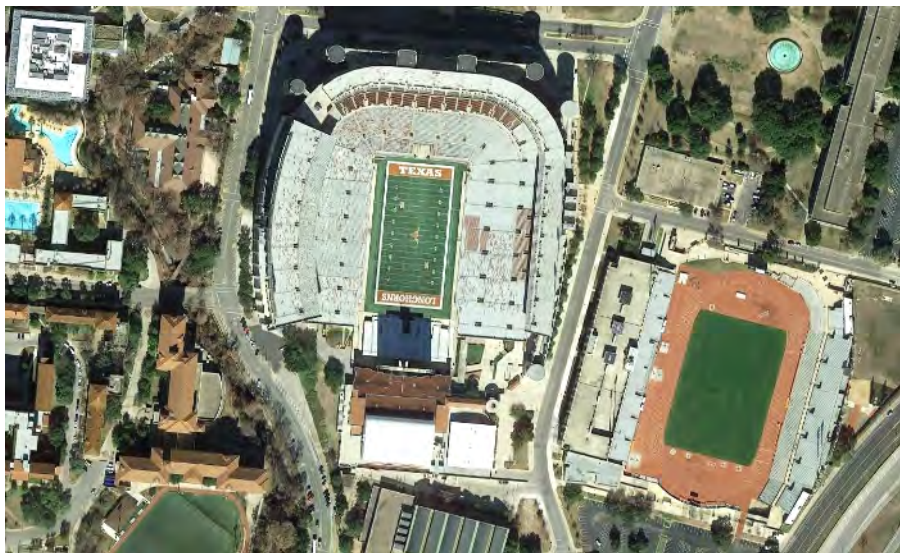
- 60-cm (2-foot)
- 4-band
- DOQQs
- Status: Acquisition barely started
- Available: 2021





2020 CAPITAL AREA / McLENNAN CO

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



2020 Capital Area Texas / McLennan Orthoimagery Acquisition Area of Interest SM #580-19-SOW0719
1 DO4Q ~ 1 sq. mi.

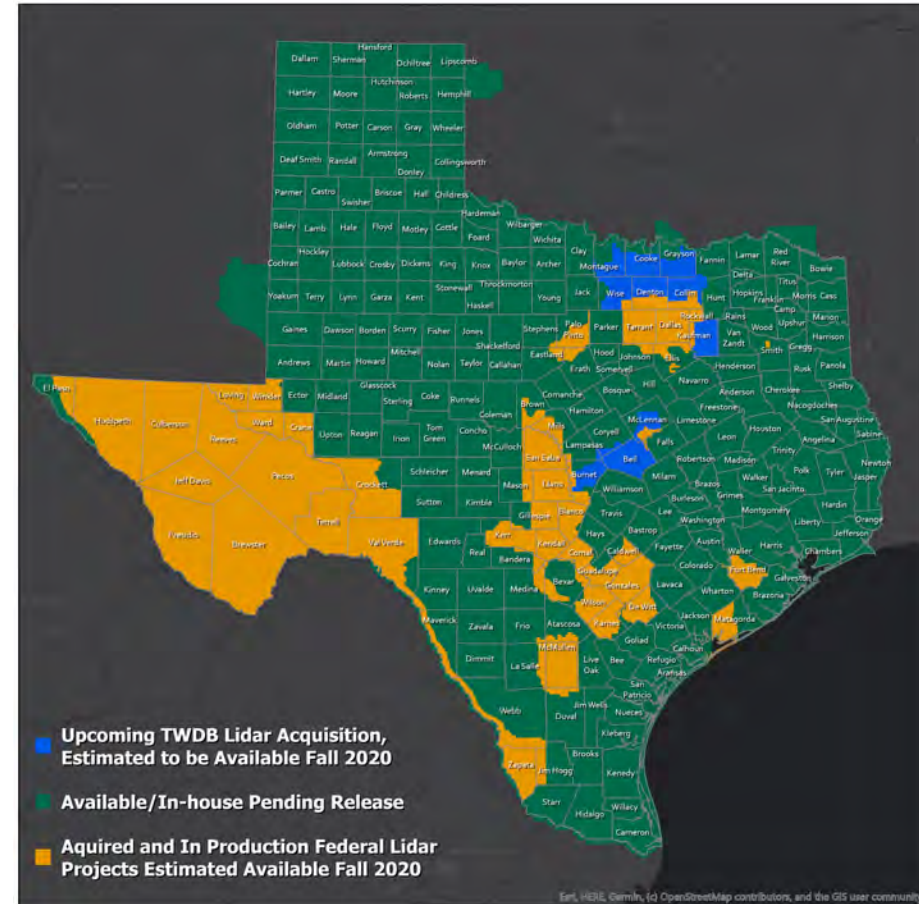
	AOI A - 3 inch & 6 inch - 9 DO4Qs		AOI A - 6 inch - 374 DO4Qs		AOI A - 12 inch - 8,718 DO4Qs
	AOI B - 6 inch - 1,305 DO4Qs (McLennan)		Restricted Airspace		



Texas Lidar Coverage 2020

Statewide Lidar Coverage Update for Texas

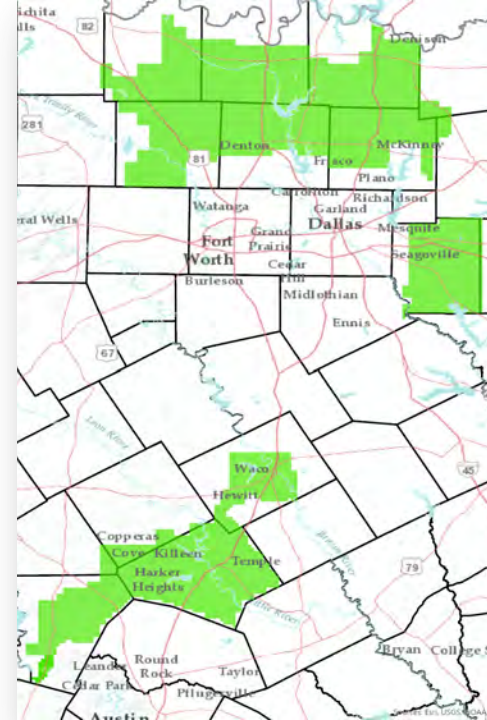
- Statewide availability of lidar is estimated for Fall 2020-Summer 2021 depending on release of the datasets by the USGS.
- TNRIS/StratMap has acquired three Lidar collections this leaf-off season.



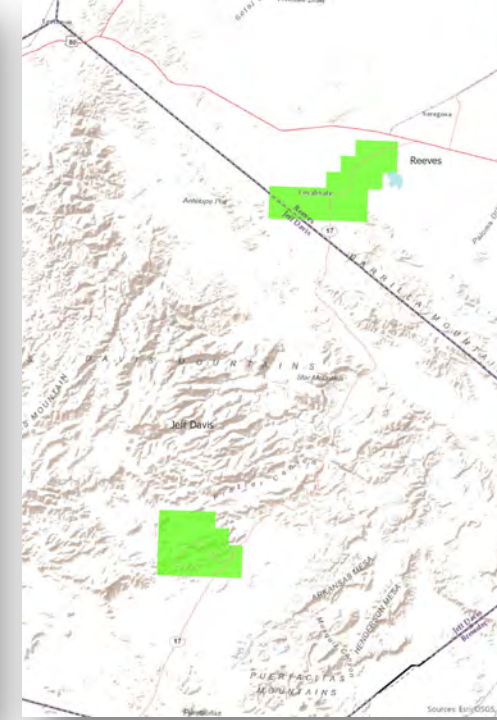


Winter 2019-2020 Lidar Projects

- StratMap 2020 Acquisitions aim to recapture lidar where data is older than 8 years or obtain higher density data where needed.
- Over 6,500 square miles of updated lidar data in North, Central, and West Texas.
- Partnerships with Texas Parks and Wildlife (TPWD), Texas Commission on Environmental Quality (TCEQ), and the City of Marble Falls.
- Data will be released for these projects Fall 2020-Spring 2021



4 Points Per Square Meter



8 Points Per Square Meter

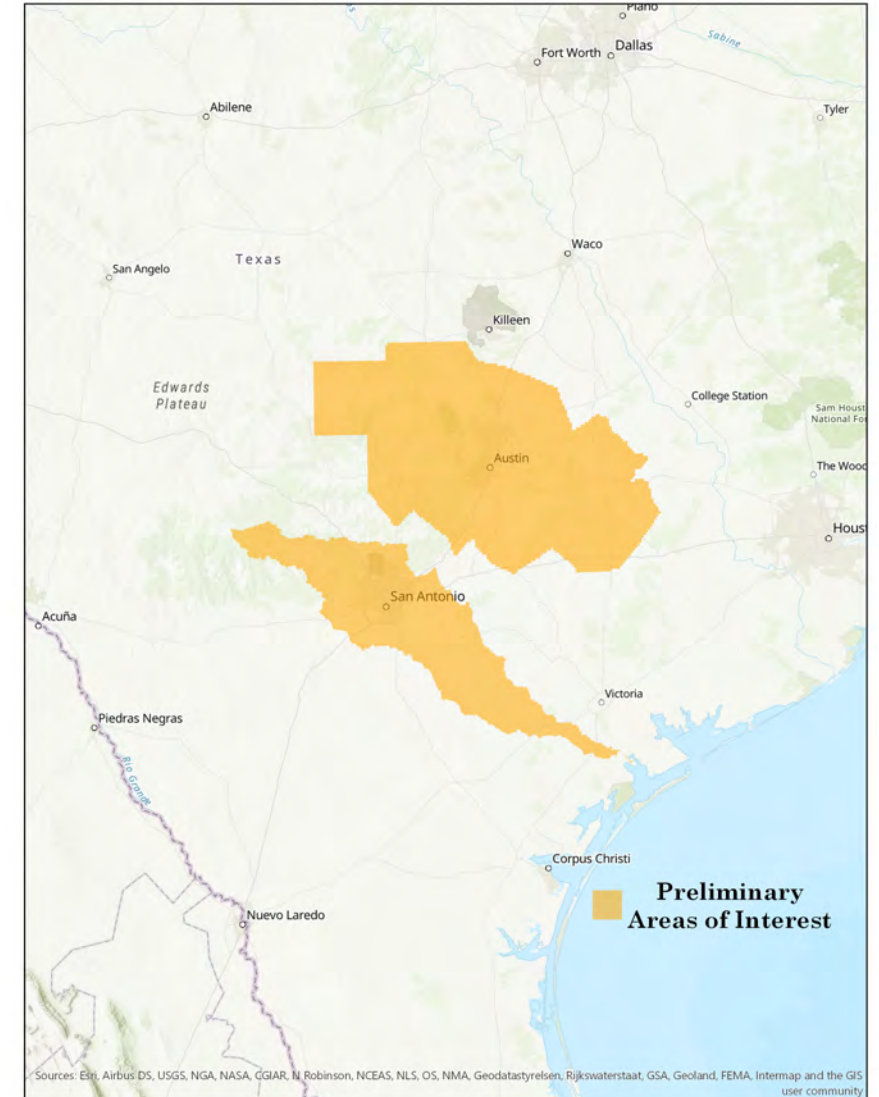


StratMap Winter 2020-2021 Season

Central Texas Region Data Acquisition for Lidar and Orthoimagery

- Local and regional partners are interested in pursuing ortho and lidar for large portions of the central Texas regions.
- TNRIS is considering proposing a dual capture project for these areas which would provide a single timestamp of lidar and orthoimagery for complete watersheds where both are acquired.
- Some partners have expressed interest in pursuing inland bathymetric datasets within the proposed areas of interest

Additional partnerships are needed to proceed with the project and ensure capture of the entire proposed areas.





StratMap Data Initiatives on the Horizon

- **Full Classification of Federal Lidar Projects.**
 - RFI has been completed and a Statement of work is being developed for release in the coming months
- **High Quality Bathymetric Data for Rivers and Reservoirs**
 - Ongoing efforts to coordinate and define a state specifications
- **Elevation Derived Hydrography (Ele-Hydro)**
 - Ideally will be coordinated to occur with or post inland bathymetry data collection
- **Continuing efforts to Digitize the TNRIS Historical Imagery Archive**
 - Statement of work currently in development





Historic Imagery Debut on DataHub

After many years of hard organizational work and ongoing scanning, the IS and RDC teams have successfully introduced the TNRIS archive to the 21st century!

- TNRIS now offers improved features for its Historical Imagery collections through DataHub.
- Users can download all 154 TXDOT and 5,586 USDA photo indexes in a static or georeferenced format, including their coverage footprint.
 - ❖ All indexes have been georeferenced to WGS 84 Web Mercator (Auxiliary Sphere)/WKID 3857
- Scan status for every Collection is now located in the Metadata section of each page
- Users can also opt to use the WMS services instead of downloading

It is our hope that users will take advantage of these resources to better help them identify what Collections and frames are needed for their project. This will enhance the efficiency of our archive.

More to come...Stay tuned!

TNRIS TEXAS NATURAL RESOURCES INFORMATION SYSTEM A Division of the Texas Water Development Board

Harris USDA Historic Imagery 1953

DETAILS PREVIEW ORDER CONTACT

Metadata

United States Department of Agriculture (USDA)
Source Name

Public Domain (Creative Commons CC0)
License

Historic Imagery
Category

Black and White, Color Infrared, Natural Color prints.
Line Indexes also available for most counties
Archive Media Type

1:20,000
General Archive Scale

Complete
Scan Status of Frames

Scanned Indexes

This Historic Imagery dataset has scanned indexes (.tif format) available for download. Use the scanned indexes to view this collection's spatial extent and the identification numbers of the individual frames which comprise it.

Note: Frames shown within each index sheet may or may not be available due to incomplete collections within the archive.

Index WMS Service

Download

Click a polygon in the map to download available index.

DOWNLOAD

Index Sheets
Bounding Box Shapefile
#1 - Harris
Original
Georeferenced

Description

The USDA is home to one of the country's largest aerial film libraries housing more than 10 million images. Images date back to 1855.



Roll Call

The word "Roll Call" is written in a large, bold, black serif font. The letter 'l' in "Roll" is replaced by a detailed, grayscale illustration of the dome of the Texas State Capitol building, showing its intricate architectural details and the statue on top.



TEXAS DEPARTMENT OF TRANSPORTATION

CBARDASH

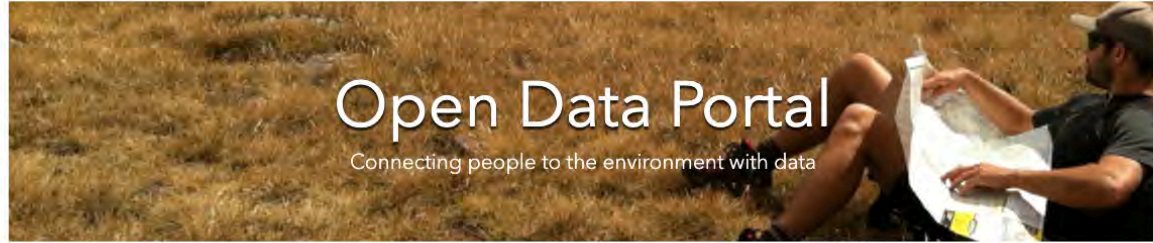
TxDOT APPLICATIONS

YOUR GATEWAY TO TxDOT GIS APPLICATIONS

Welcome to the Texas Department of Transportation's Application Landing Page. This page is the agency's platform for exploring and utilizing GIS applications built in through Esri and TxDOT's System of Engagment. Navigate through the application categories to find applications that facilitate various workflows.

Home Interactive Maps Printed Maps & Docs Applications Training & Resources Internal Landing Page

- Esri System of Engagement
- TxDOT still pursuing aerial imagery program, but it's slow moving
- Pursuing a street-level imagery and lidar solution for automated asset extraction (e.g. [Cyclomedia](#))
- Beginning to explore more use of FME and Esri Data Interoperability extension for QA/QC and workflow automation



Explore Our Programs



Air



Land Management



Water



Emergency
Response



Administrative

Find Data



Edwards Aquifer Viewer

Allows users to view Edwards Aquifer maps of

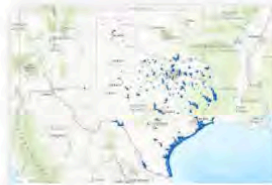
View



GeoTAM

Allows users to find information on air quality

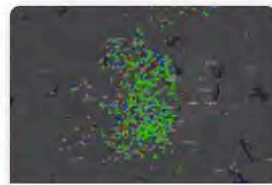
View



Surface Water Quality Viewer

Allows users to find information on the quality of

View

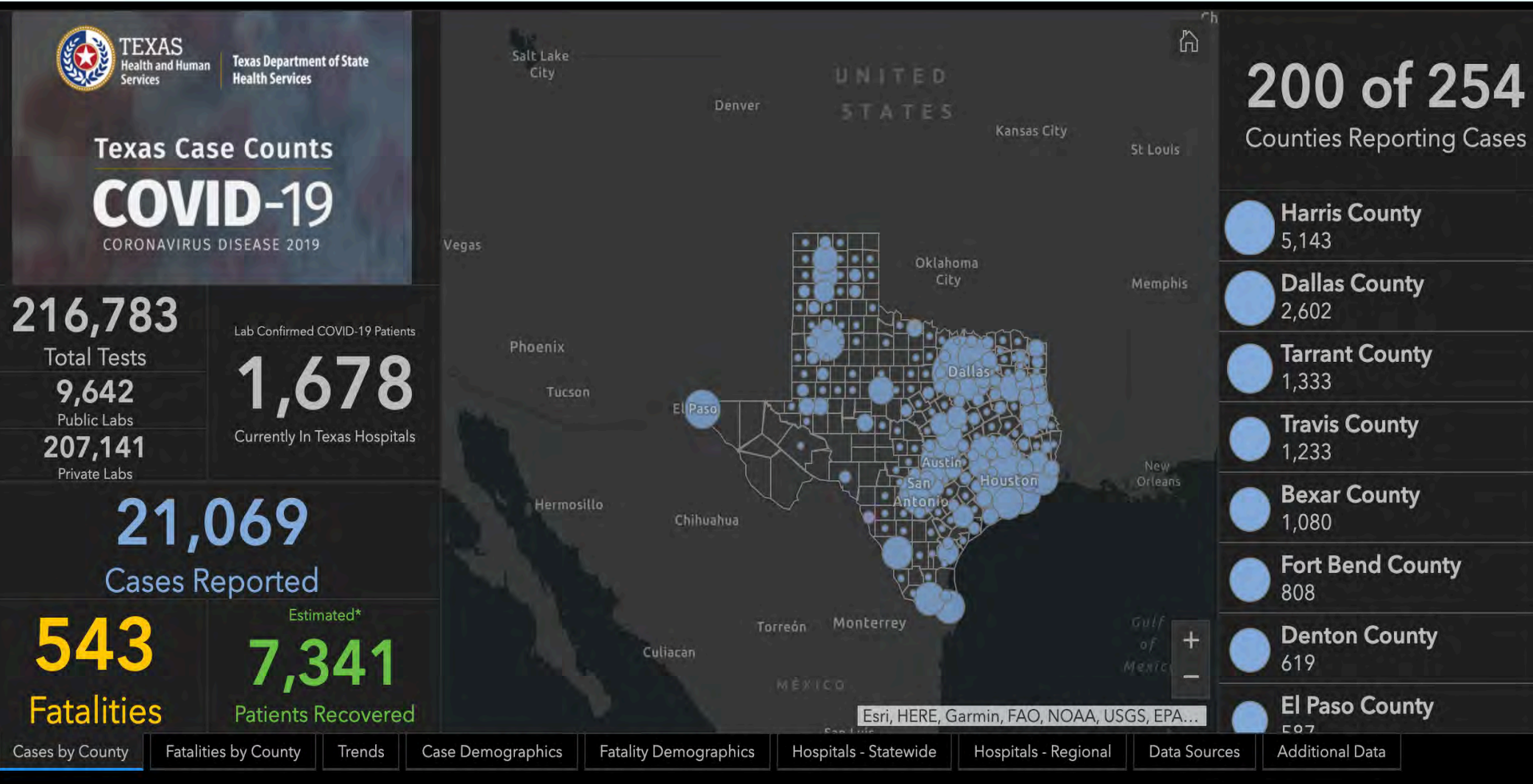


Barnett Shale Viewer

Allows users to view air quality monitors and

View

- [Open Data Portal](#) is live!
- Continuing with ArcGIS Pro transition. Desktop scheduled to be deprecated before the end of 2020.



TEXAS
Health and Human Services
Texas Department of State
Health Services



Geospatial Technology Services

Texas General Land Office

- Ongoing GIS Support & Maintenance Operations: in support of the GLO's mission
- George P. Bush's Energy Map of Texas, 2020 Update: [CommissionerBushMaps.com](https://www.commissionerbushmaps.com)
- 2020 Hurricane Season Preparation
- Colonial Waterbird Rookeries
- Oil Spill Toolkit, 2020 Update: www.glo.texas.gov/coast/oil-spill/toolkit
- sUAS Guidance Document
- GIS Internship Program, FY2021: www.glo.texas.gov/gis
- Enhancements to Mapping Applications: www.glo.texas.gov/gis



Establishing Agency Best Management Practices for implementing the ArcGIS Online Platform

- ArcGIS Hub
- ArcGIS Enterprise Portal
- TNRIS' DataHub
- Other Open Data Initiatives



Sheila Steffenson – CEO

Kevin Sigwart – Director of Solutions – USA

Melissa Ubaldo – Solutions Engineer

Providing an Efficient and Effective Gateway to Data Governance

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CEO, US Operations
Sheila.Steffenson@1Spatial.com

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Director of Solutions
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Melissa Ubaldo

Solutions Engineer
Melissa.Ubaldo@1Spatial.com

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Years in Developing Data Management Solutions

Automated QA/QC Validation & Cleanup



Change Detection Conflation



CAD & Asset Validation



Rules for Spatial Advantage

Data Validation

- Automate the process of conformance-checking against business rules to find and report on data issues. Provide certification required for proof of data quality (SLA's, legislation, etc.)

Data Integration

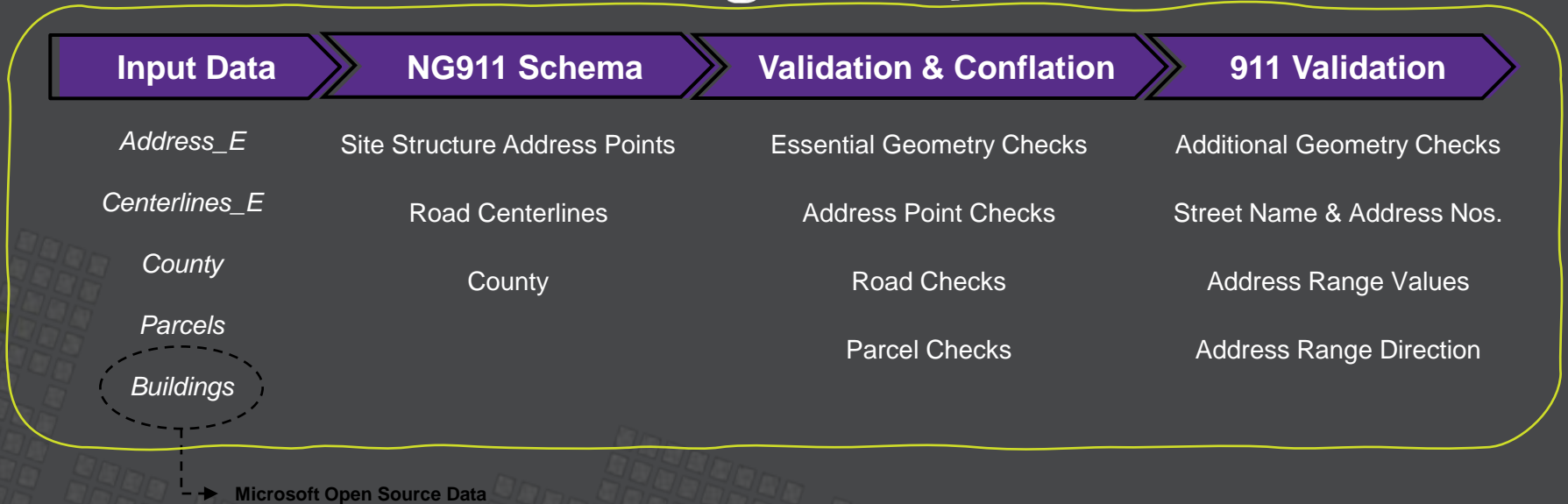
- Maximize ROI through reuse. Integration of data across the enterprise.

Data Enhancement

- Automate cleaning tasks. Create new data. Construct repeatable, non-subjective corrective actions.

Validating and Correcting Road & Addressing Data

1 datagateway



Integrating CAMA and GIS



Parcel #	Book & Page Sale Date	Grantor	Grantee	Map #
050000292	BD-1711/10/2011	MARTINDALE/ELAINE	OLSON/CLAIRE A	1735-00-0-10005-006-0010
080000373	CC-9410/24/2016	RODOCKER/DEVEN C	AKIN/BETTY J	1735-00-0-10005-008-0040
050000543	AA-19402/10/2010	CHRISTIANSEN/EMILY E	MARGARDT/KRISTY	1735-00-0-10005-010-0030
080000543	CC-4708/31/2015	MARGHARDT/KRISTY	BAKER/DONNA J	1735-00-0-10005-010-0030
080027824	CC-9510/28/2016	DAVIDSON/JAMES W & CHERYL L	DAVIDSON/CHERYL L	1453-29-0-00000-000-0001
080027824	ED-2007/19/2018	DAVIDSON/CHERYL L	DAVIDSON/NEIL A	1453-29-0-00000-000-0001
080028413	AA-21911/03/2010	STITHEM/WENNETH	STITHEM/DAVID S	1485-26-0-00000-000-0001
050031171	AA-22709/09/2009	RUFF/ROBERT	RUFF/ROBERT	1593-06-0-00000-000-0001
080031171	BB-3804/04/2012	RUFF/ROBERT	CANTRELL/DONALD D AND DEBRA	1593-06-0-00000-000-0001
050031171	CC-2404/20/2015	CANTRELL/DONALD D AND DEBRA	BLAKEMAN CATTLE,LLC	1593-06-0-00000-000-0001
050031309	BB-15704/20/2014	FERGUSON LIFE ESTATE/WINFRED	CAVANAUGH/JOANNE FERGUSON	1593-14-0-00000-000-0010

Parcel #	Current Owner	Address 1	Address 2
050000012	TEARON/LELAND C	RETA R TEARON	PO BOX 95
050000020	RODOCKER/EMILY	DIANNA RODOCKER	105 EAST ST POB 132
050000187	FITCH/MARY E	THAYN R AND THAD C FITCH	56 EARLEEN STREET UNIT A
050000209	FITCH/MARY E	THAYN R AND THAD C FITCH	56 EARLEEN STREET UNIT A
050000276	DEGROFF/LEE	BEVERLY DEGROFF	83445 NORTH LOUP SPUR
050000284	DEGROFF/LEE	BEVERLY DEGROFF	83445 NORTH LOUP SPUR
050000292	OLSON/CLAIRE ATRUSTEE CLAIRE A OLSON TRUST A	502 MORTON STREET	
050000357	DEGROFF/LEE	BEVERLY DEGROFF	83445 NORTH LOUP SPUR
050000373	AKIN/BETTY J	MARGARET ANN CLARK	325 LINCOLN AVE
050000411	COOK/TIMOTHY	C/O MARGARET ANN CLARK	2427 SKYLINE DR
050000444	FITCH/MARY E	THAYN R AND THAD C FITCH	56 EARLEEN STREET UNIT A

Pop-up

- Blaine_County_NE (1)
- 050031791

Blaine_County_NE - 050031791

OBJECTID	769
PID	050031791
acres	650.40742
Shape_Length	21294.654508
Shape_Area	28331747.406352
CurrentOwner	<Null>
Address1	<Null>
Address2	<Null>
City	<Null>
Map	<Null>
Status	<Null>
State	<Null>
Zip	<Null>
Location	<Null>
PresentUse	<Null>
Zoning	<Null>

1,654,711.86E 755,115.25N ftUS

Cross-Validating Enterprise CAMA and GIS



CAMA Parcel Data

PPN	PARCEL_STREET_NAME	GRANTEE
1	11100001	11100001
2	11100002	11100002
3	11100003	11100003
4	11100004	11100004
5	11100005	11100005
6	11100006	11100006
7	11100007	11100007
8	11100008	11100008
9	11100009	11100009
10	11100010	11100010
11	11100011	11100011
12	11100012	11100012
13	11100013	11100013
14	11100014	11100014
15	11100015	11100015
16	11100016	11100016
17	11100017	11100017
18	11100018	11100018
19	11100019	11100019
20	11100020	11100020
21	11100021	11100021
22	11100022	11100022
23	11100023	11100023
24	11100024	11100024
25	11100025	11100025
26	11100026	11100026
27	11100027	11100027
28	11100028	11100028
29	11100029	11100029
30	11100030	11100030
31	11100031	11100031
32	11100032	11100032
33	11100033	11100033
34	11100034	11100034
35	11100035	11100035
36	11100036	11100036
37	11100037	11100037
38	11100038	11100038
39	11100039	11100039
40	11100040	11100040
41	11100041	11100041
42	11100042	11100042
43	11100043	11100043
44	11100044	11100044
45	11100045	11100045
46	11100046	11100046
47	11100047	11100047
48	11100048	11100048
49	11100049	11100049
50	11100050	11100050



Parcel GIS



CAMA Parcel	Parcel Boundary
PPN	parcel_id
PARCEL_STREET_NAME	par_street
PARCEL_STREET_NO	par_addr
PARCEL_STREET_SUFFIX	par_suffix
GRANTEE	grantee
GRANTOR	grantor

NHD Change Detection



Data

- NHD
- High Resolution Lidar generated streams

Methodology

- LIDAR → Streams
 - 3rd Party Extraction Software

- Match Lidar streams to NHD
- Conflate NHD Reach Codes to Lidar Streams
- Validate Results

1 datagateway

Providing an Efficient and Effective Gateway to Data Governance

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2nd Quarter Virtual GIS Community Meeting

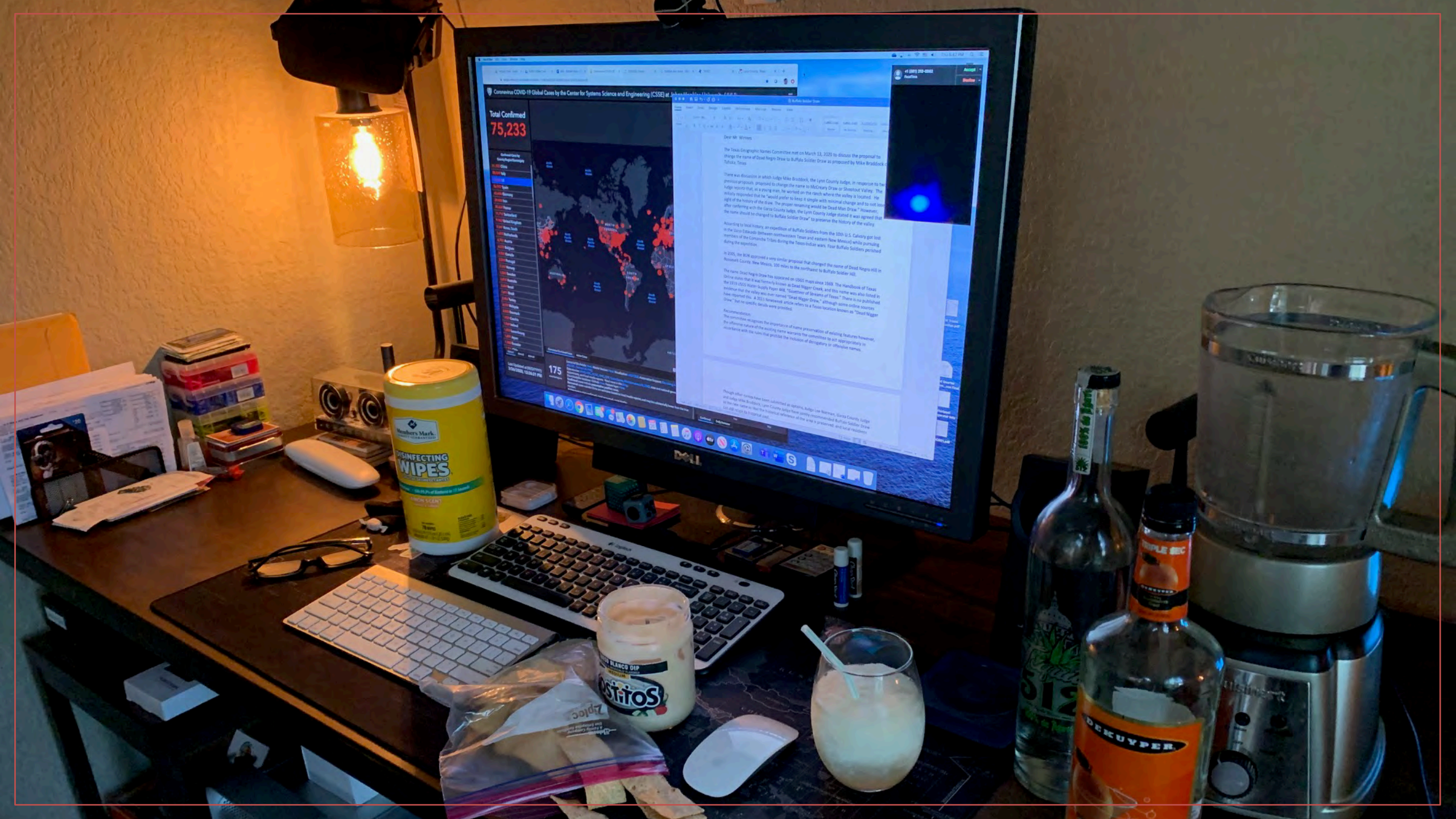




Next Meeting



Format To Be Determined



Continues COVID-19 Global Cases by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University

Total Confirmed
75,233

Subcontinent
Continent

Map Type

Map Style

Map Settings

Map Layers

Map Legend

Map Tools

Map Info

Map Help

Map Settings

Map Legend

Map Tools

Map Info

Map Help

175

Dear Mr. Winters

The Texas Geographic Names Committee met on March 13, 2020 to discuss the proposal to change the name of Dead Negro Draw to Buffalo Soldier Draw as proposed by Mike Brodbeck of Tarrant County.

There was discussion in which Judge Mike Brodbeck, the Lynn County Judge, in response to the previous proposal, proposed to change the name to McCreary Draw or Shovelton Valley. The Judge requested that, in a strong case, he wanted on the ditch where the valley is located. He initially responded that he "would prefer to keep it simple with historical change and to not involve anything of the history of the draw. The proper remaining would be Dead Man Draw." However, after conferring with the Tarrant County Judge, the Lynn County Judge stated it was agreed that the name should be changed to Buffalo Soldier Draw to preserve the history of the valley.

According to local history, an expedition of Buffalo Soldiers from the 10th U.S. Cavalry got lost in the Sierra Estrella between northwestern Texas and eastern New Mexico while pursuing members of the Comanche Tribe during the Texas-Indian wars. Four Buffalo Soldiers perished during the expedition.

In 2005, the BLM submitted a very similar proposal that changed the name of Dead Negro Hill in Reynolds County, New Mexico, 200 miles to the northeast to Buffalo Soldier Hill.

The name Dead Negro Draw has appeared on USGS maps since 1909. The Handbook of Texas in 1914-1925 Water-Audit Paper 444, "Countryside of Streams of Texas," also lists the name. The name was also listed in the Handbook of Texas in 1914-1925 Water-Audit Paper 444, "Countryside of Streams of Texas." There are no published maps of the valley with the name "Dead Negro Draw," although some online sources have reported this. A 2015 Reynolds County official refers to a former location known as "Dead Negro Draw" but no specific details were provided.

Recommendation

The committee recognizes the importance of preserving existing features however, the official nature of the existing name warrants the committee to act appropriately in accordance with the rules that prohibit the inclusion of derogatory or offensive names.

Though other names have been submitted as options, Judge Lou Newman, State County Judge and Judge Mike Brodbeck, Lynn County Judge have jointly recommended Buffalo Soldier Draw as the new name to the historical reference of the area in preserved and local residents and it will be included on the map.