Attendance Sign-in

TEXAS GIO 1st Quarter GIS Community Meeting

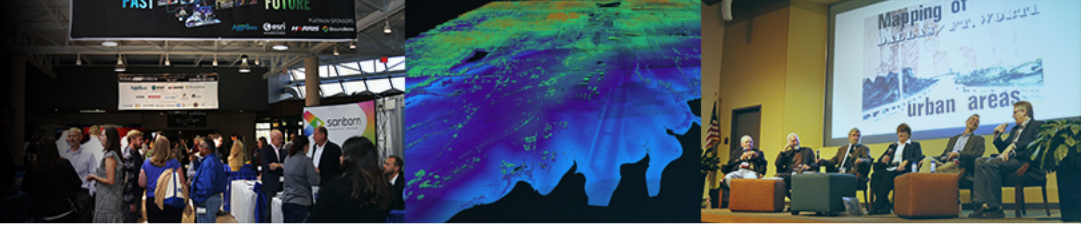
January 14, 2020

TEXAS NATURAL RESOURCES INFORMATION SYSTEM

A Division of the Texas Water Development Board

TEXAS GIO

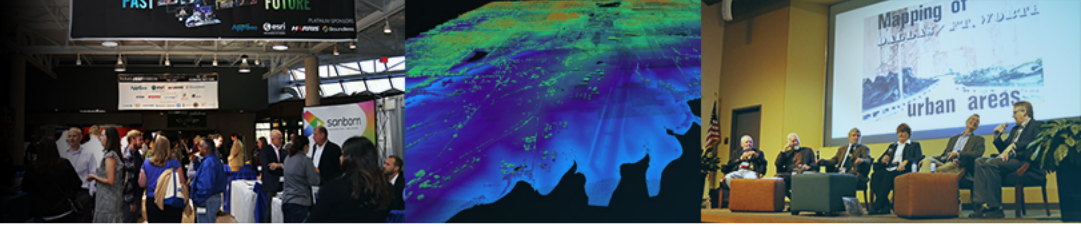
1st Quarter GIS Community Meeting



Welcome	2:00 – 2:05
Project Updates	2:05 – 2:30
Agency Roll Call	2:30 – 2:50
Project Roundup	2:50 – 3:10

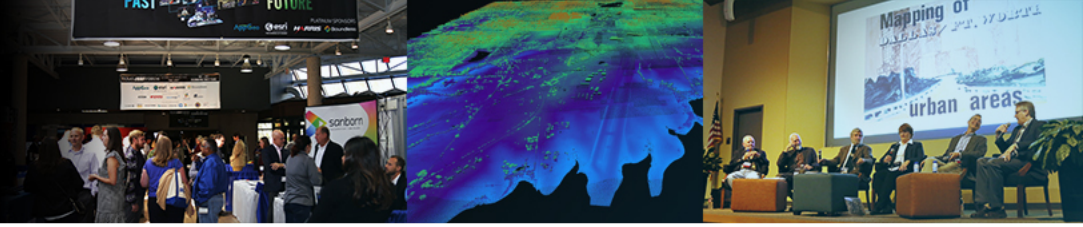
Short Break

Planet Presentation	3:20 – 4:00



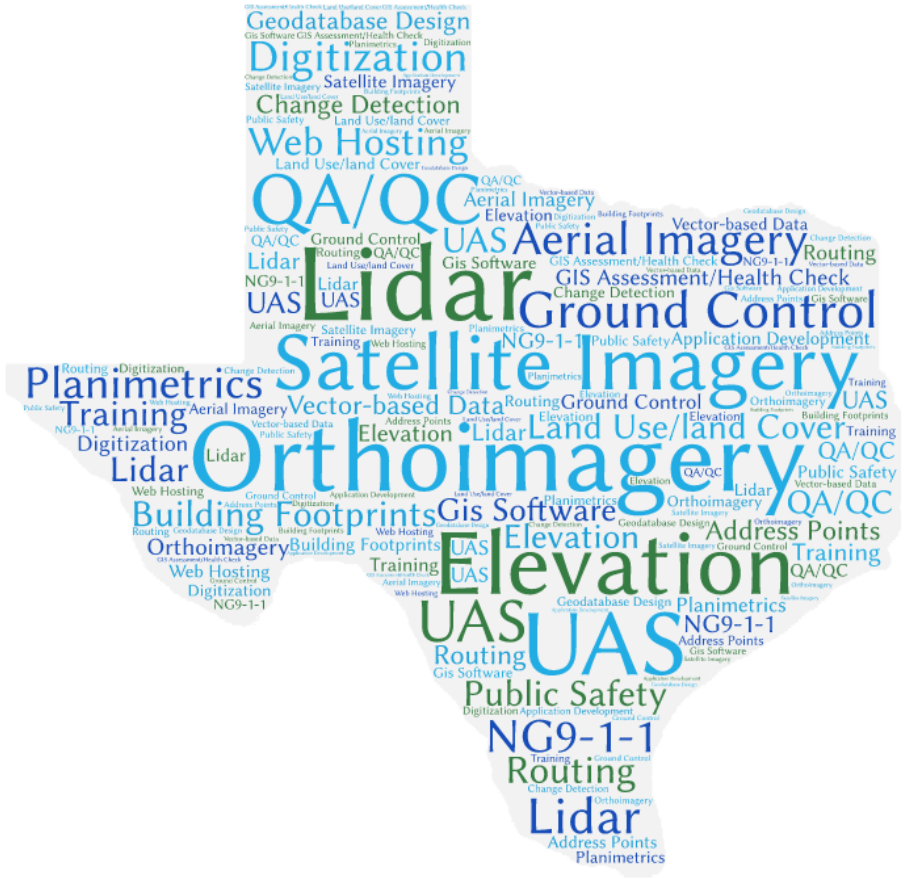
Since we last met….

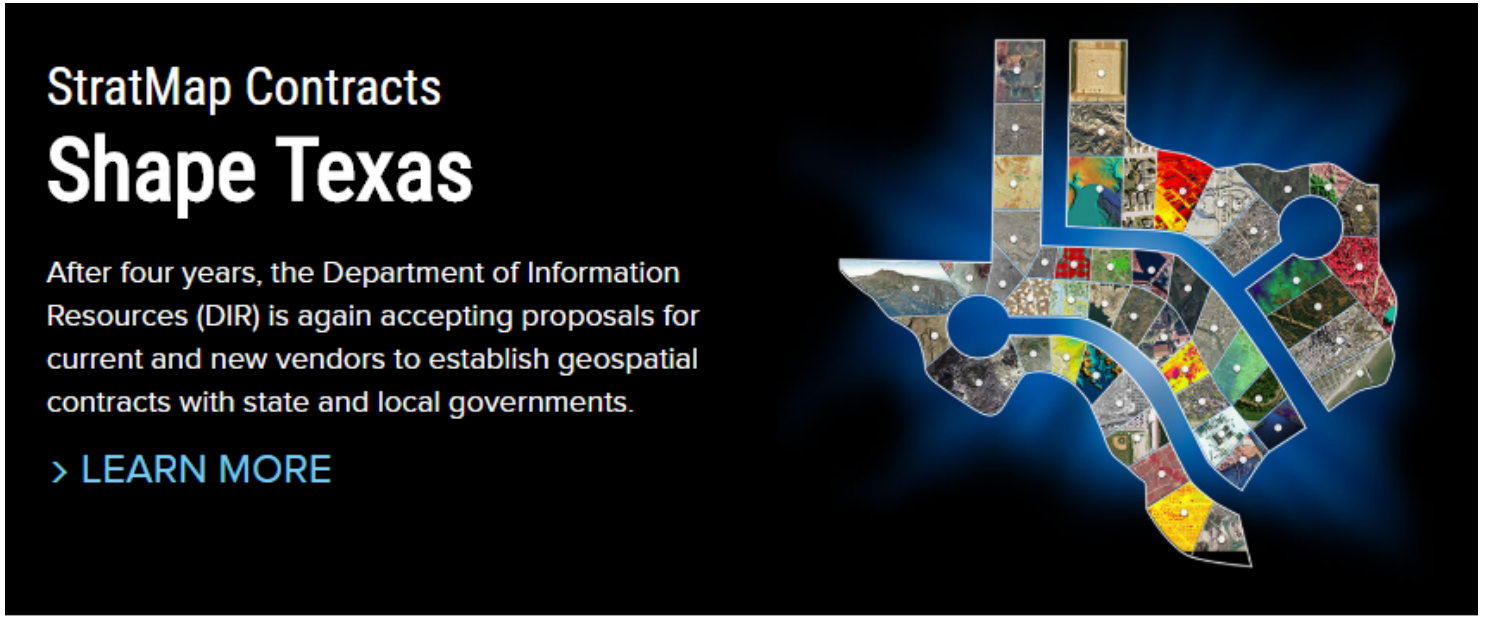
- ✓Census 2020
- ✓SPCS 2022
- ✓2019 GMA
- ✓Historical Imagery Archive
- ✓GeoRodeo



STRATMAP CONTRACTS RE-BID OF VENDOR POOL

Geospatial Data, Services & Software





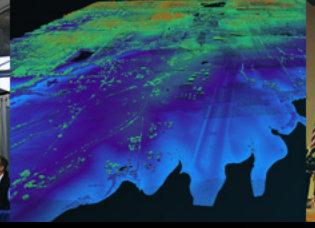
Schedule

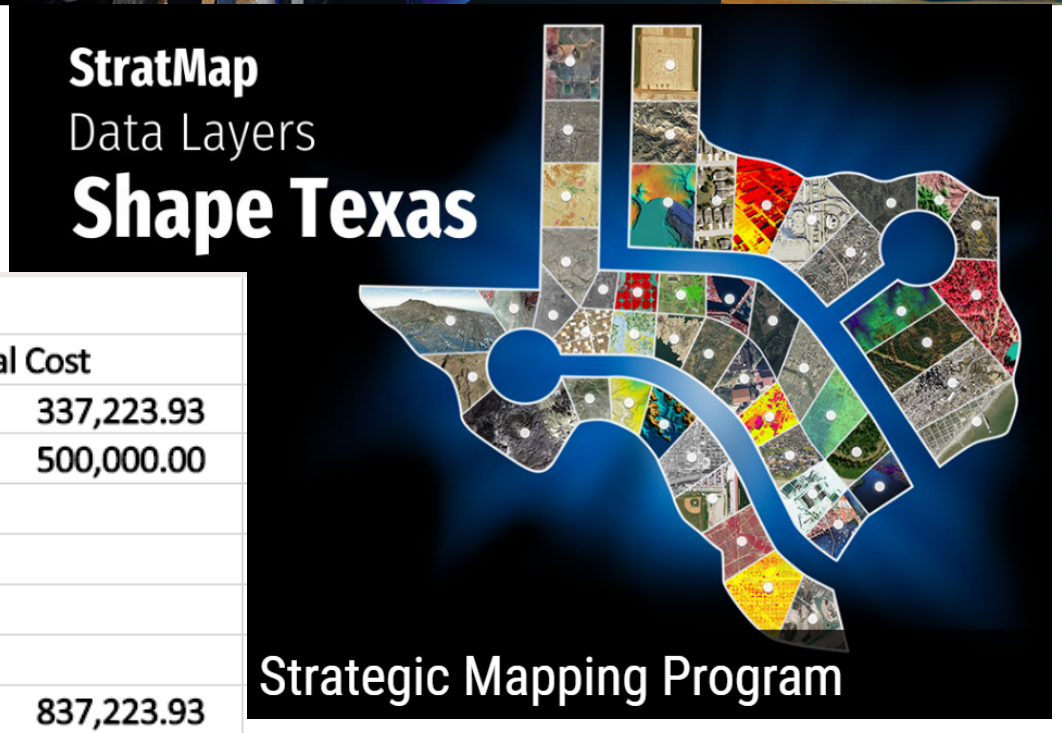
- Request for Offer opened **Dec. 20, 2019**
- Vendor submissions due **Feb. 3, 2020**
- New vendor pool **Summer 2020**

DIR
Dept. of Information Resources

TEXAS GIO

1st Quarter
GIS Community Meeting

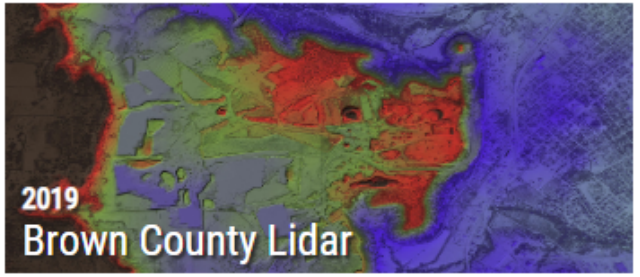



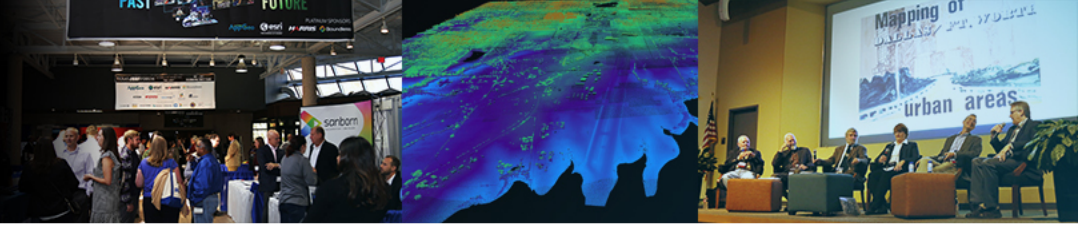



STRATMAP FUNDING PLAN

FY2020 - 2021 StratMap Funding	$3.5M + $0.5M (lidar) = $4.0M	
Item	Estimated Cost	Actual Cost
Lidar acquisition 1	$ 1,000,000	$ 337,223.93
Lidar acquisition 2	$ 500,000	$ 500,000.00
Lidar classification (statewide)	$ 2,100,000	
Inland bathy / Ele-hydro pilots	$ 250,000	
Scanning / Georeferencing	$ 250,000	
Land parcels / Address points (min)	$ 21,000	
Total	**$ 4,121,000**	**$ 837,223.93**

Latest StratMap Data Releases



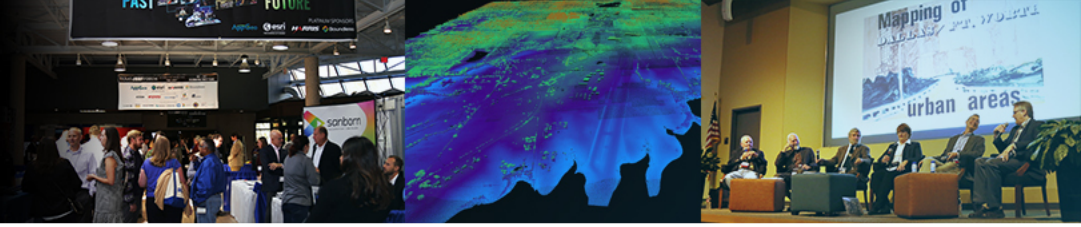


TEXAS IMAGERY SERVICE

- 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!!**
  - Plan 1: SOW to DIR to bid new vendor for *Imagery as a Service*
  - Plan 2: Research state owned aircraft, sensor and data processing

  - 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

- Remain for FY2021
- 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

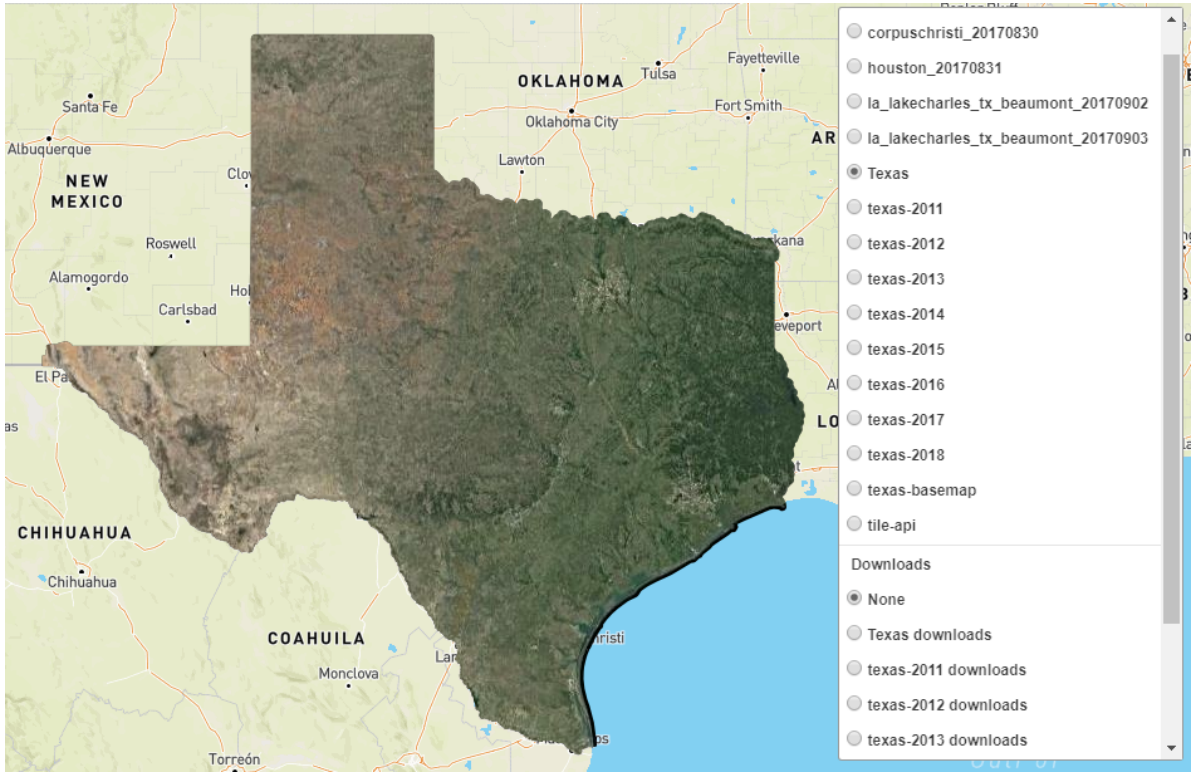
Flat fee $15,000**

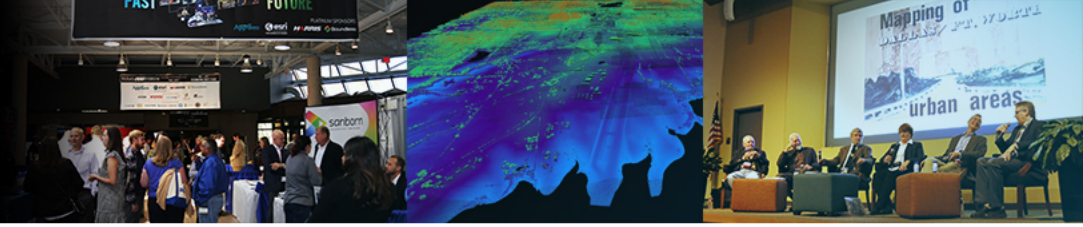
Local Agency

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

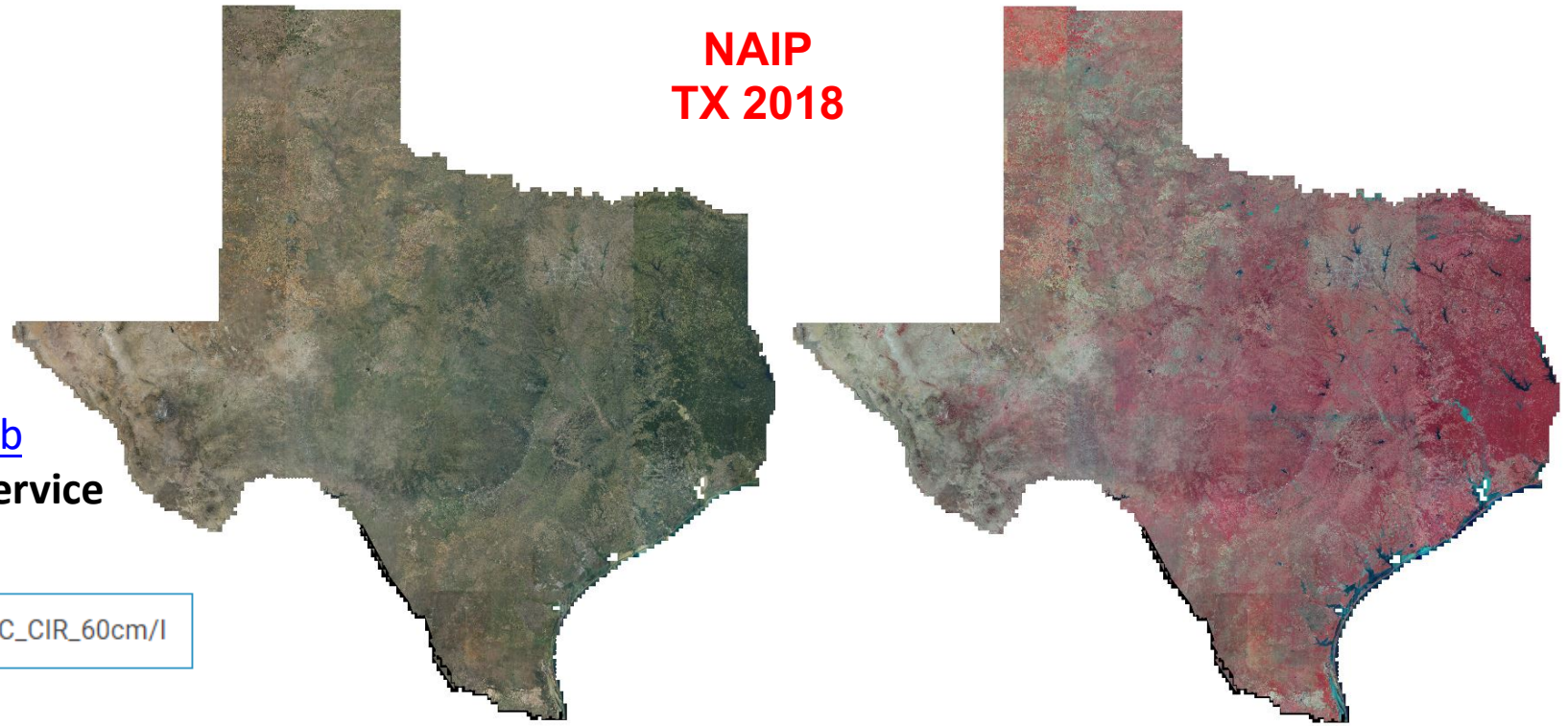
- **100% flights complete Apr 2019**
- NAIP acquisition for TX in 2020: Undetermined

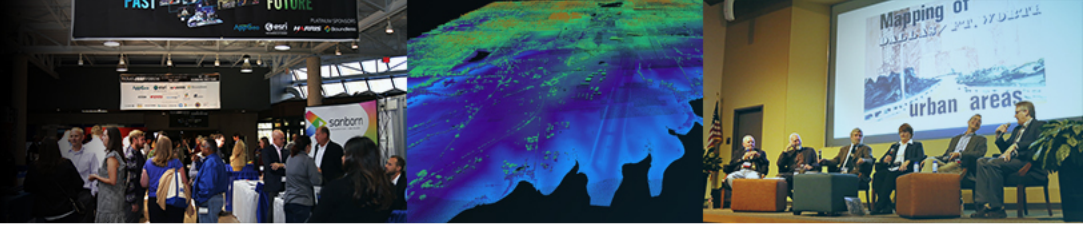
Specs

- 60-cm (2-foot)
- 4-band
- DOQQs; **No CCMs**
- Status: Complete
- Available: Now!
  - Download on TNRIS DataHub
  - Consume **online mapping service**
    - Link on TNRIS DataHub

https://webservices.tnris.org/arcgis/services/NAIP/NAIP18_NC_CIR_60cm/I

COPY URL MAP PREVIEW

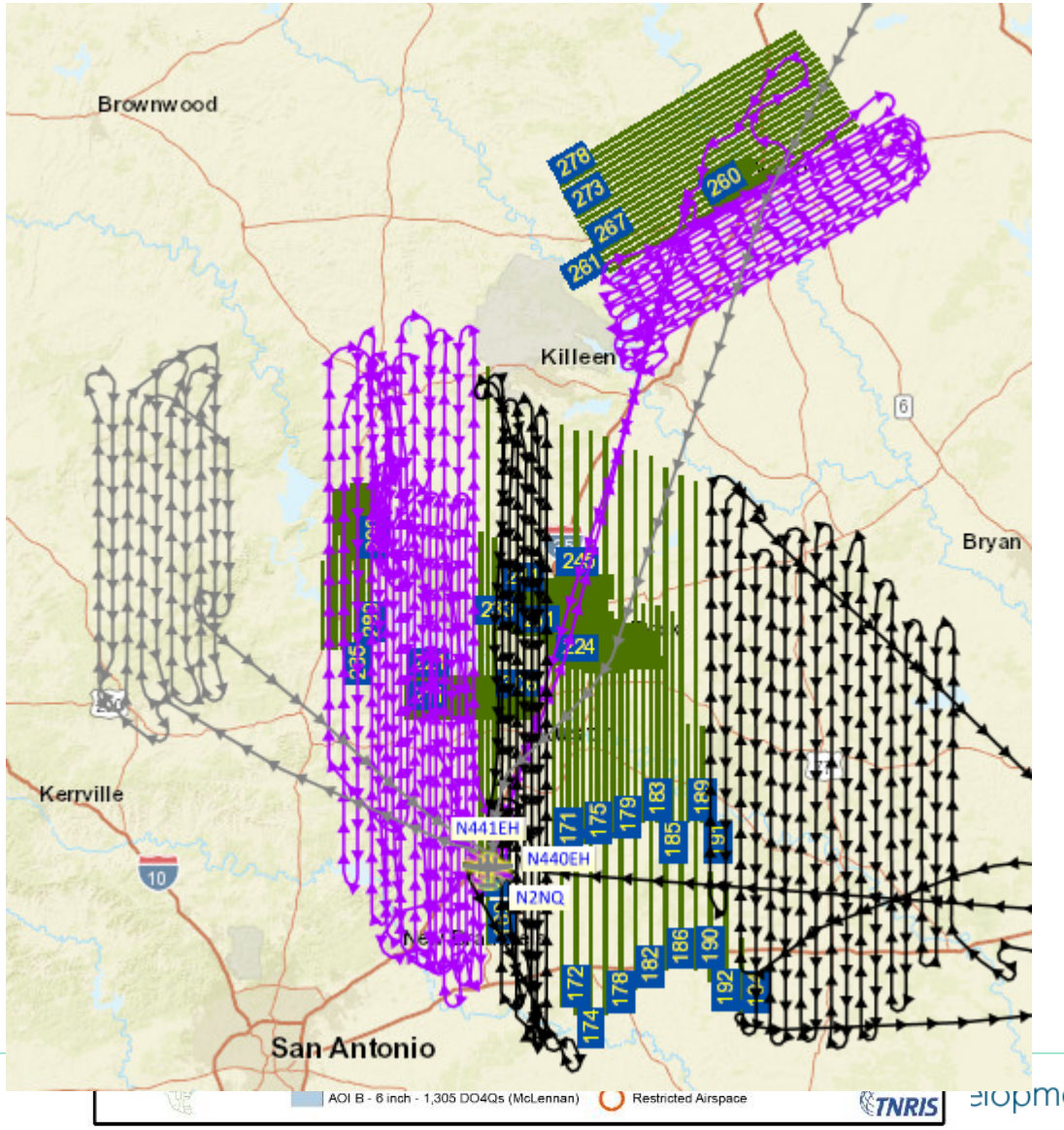


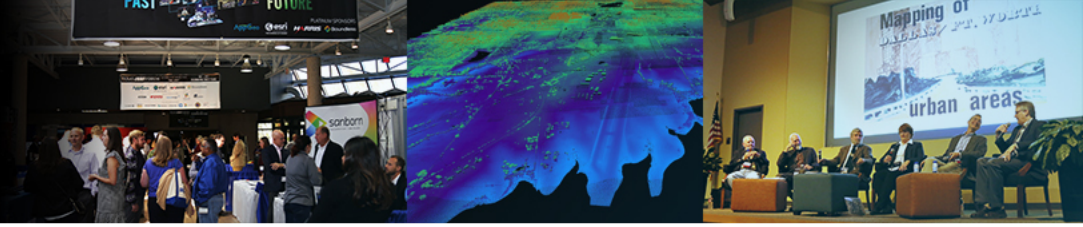


2020 CAPITAL AREA / McLENNAN CO

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

SURDEX CORPORATION

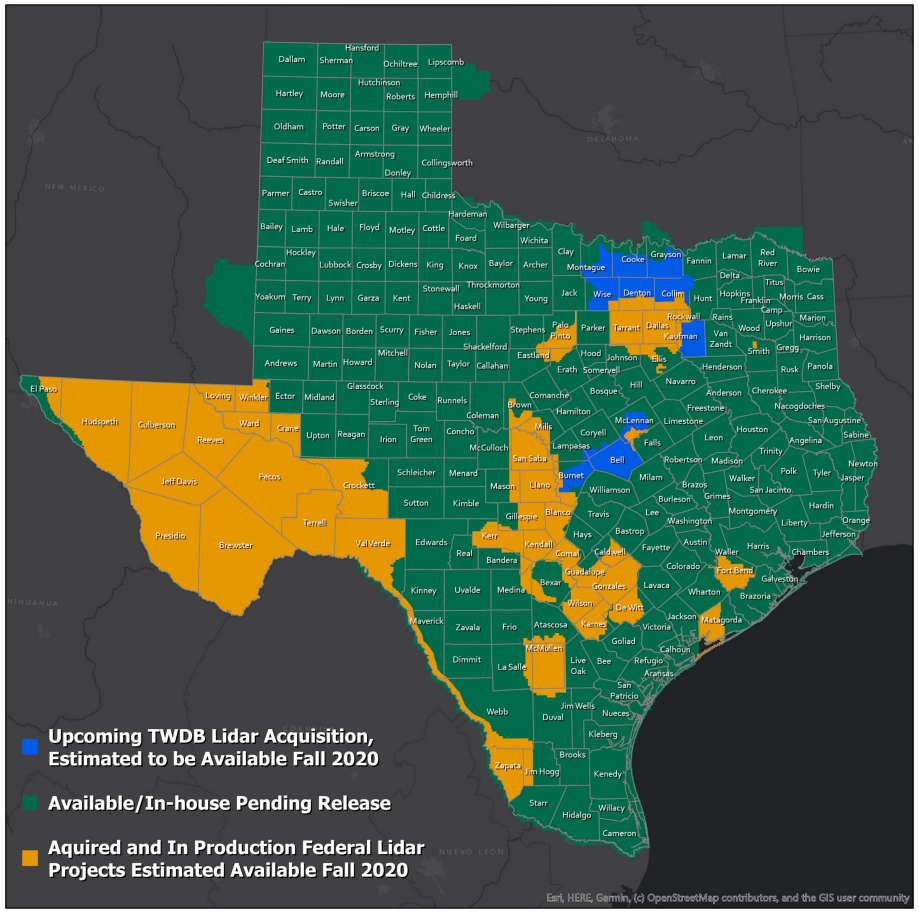


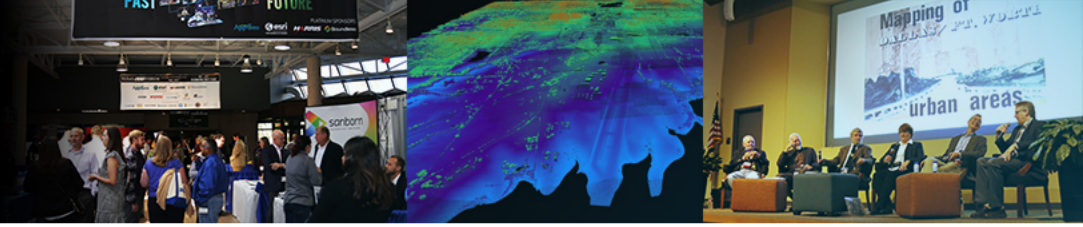


Statewide Lidar Coverage Update for Texas

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

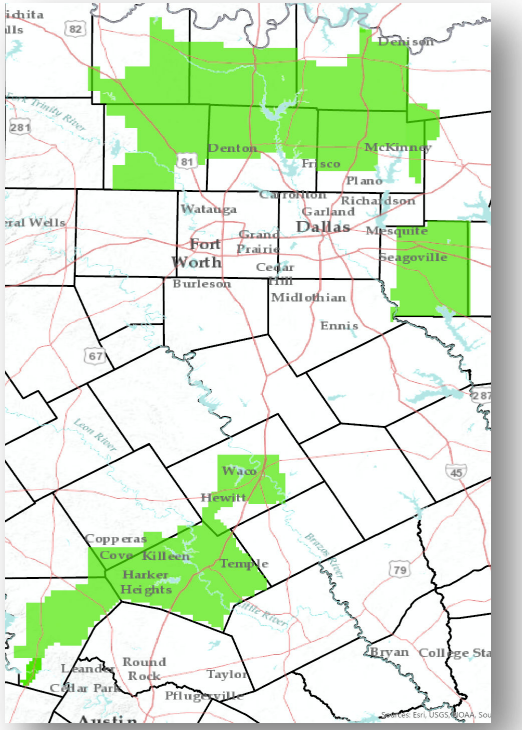
Texas Lidar Coverage 2020



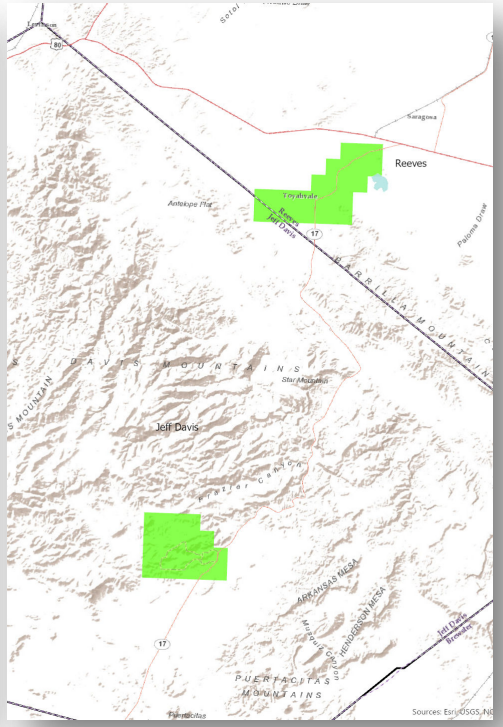


Winter 2019-2020 Lidar Projects

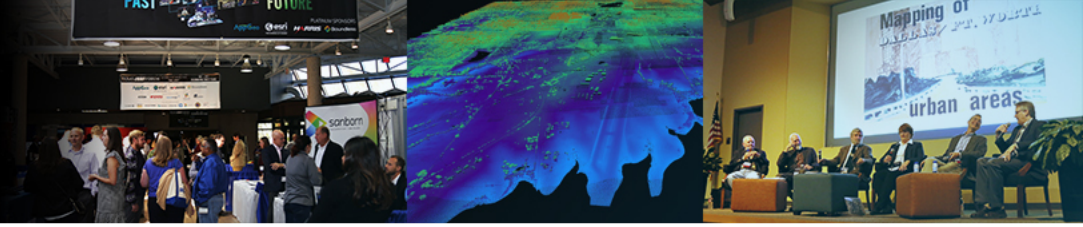
- StratMap 2020 Acquisitions aim to recapture lidar where data is older than 8 years or obtain higher density data where needed.
- Over 6,500 square miles of updated lidar data in North, Central, and West Texas.
- Partnerships with Texas Parks and Wildlife(TPWD), Texas Commission on Environmental Quality(TCEQ),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



4 Points Per Square Meter

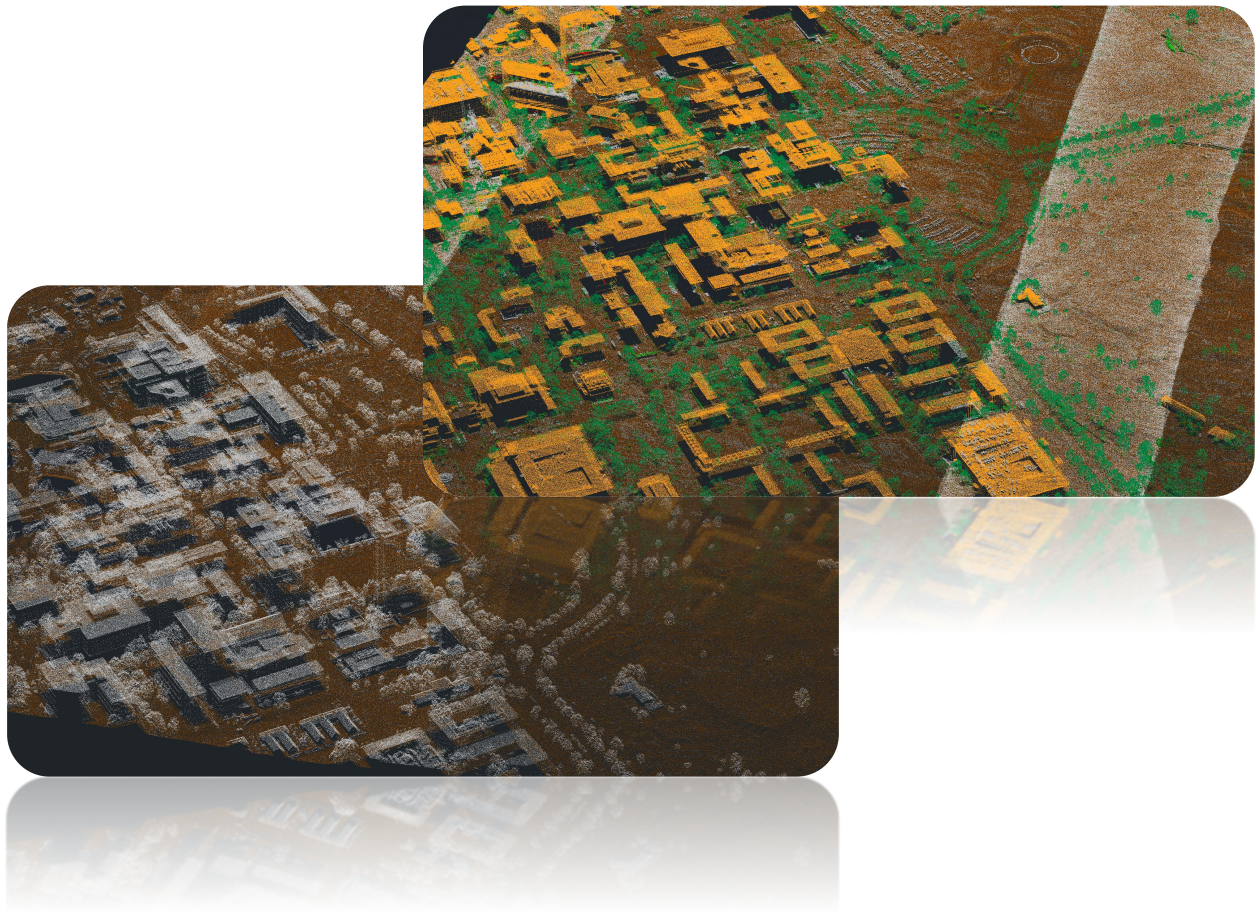


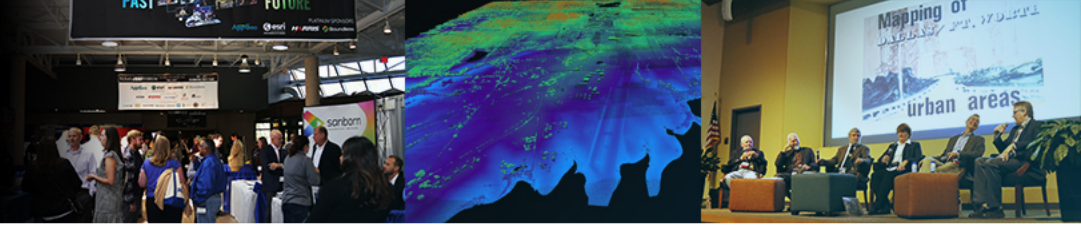
8 Points Per Square Meter



StratMap Data Initiatives on the Horizon

- Full Classification of Federal Lidar Projects
- High Quality Bathymetric Data for Rivers and Reservoirs
- Elevation Derived Hydrography (Ele-Hydro)
- Continuing efforts to Digitize the TNRIS Historical Imagery Archive



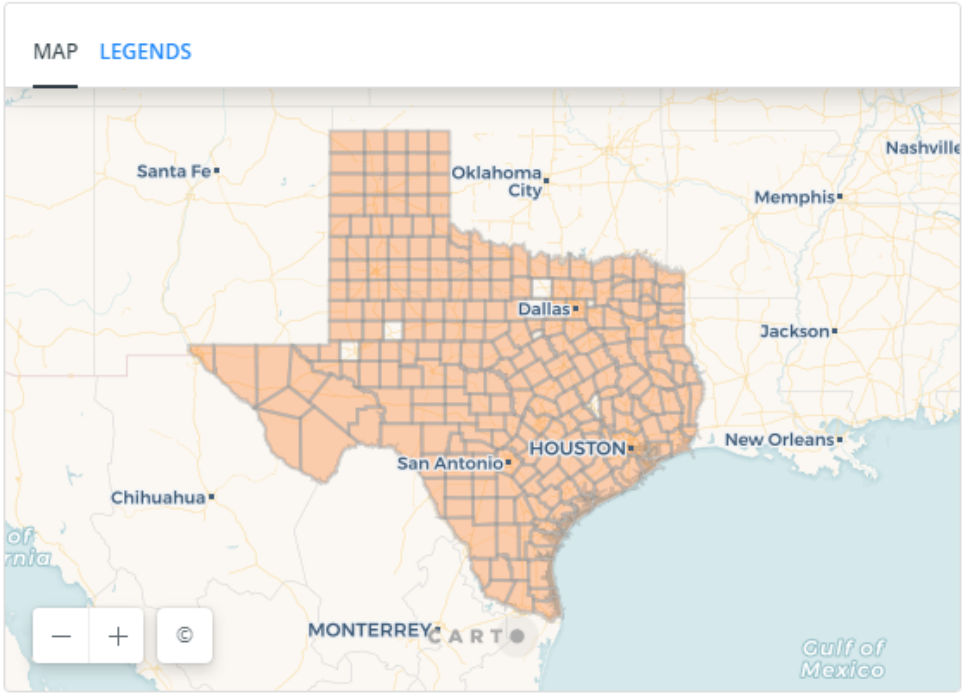


Address points are site or structure point data that have associated information such as house number, street name, postal community, and postal code. This information is recorded and maintained at the city and county level in Texas and aggregated to Regional Planning Commissions or Emergency Communications Districts. It is then used by public entities to make informed decisions on community planning, development, or emergency preparation and response.

In collaboration with stakeholders from across Texas, TNRIS created a statewide standardized GIS address point schema. This format of site/structure address point data consists of the most commonly utilized information as determined by the address point committee. The data contributed from 9-1-1 Service Entities were translated into this common schema and are now available on the TNRIS DataHub.

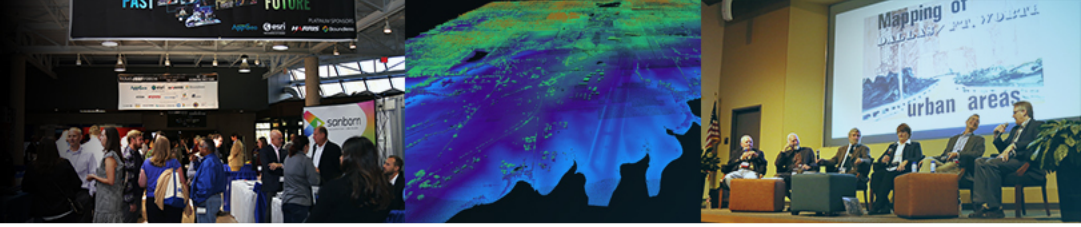
Available Datasets

The map below shows available address points across Texas. Data were received from across 247 counties and may not be complete coverage. Please see the SOURCE field on each record to determine the data creator or aggregator. Use the DataHub to download.



TEXAS GIO

1st Quarter GIS Community Meeting



Main | StratMap Contracts | Orthoimagery | Elevation - Lidar | Hydrography | **Land Parcels** | Address Points

Land parcels are boundaries that have associated information such as property owner, land use, value, and location attributes. This property information is recorded and maintained at the county level in Texas at local appraisal districts. It is then used by public entities to make informed decisions on community planning, development, or emergency preparation and response.

In collaboration with stakeholders from across Texas, TNRIS created a statewide standardized GIS land parcel schema. This format of land parcel data consists of the most commonly utilized information as determined by the land parcel committee. The data contributed from county appraisal districts or their service providers were translated into this common schema and are now available on the TNRIS DataHub.

In August 2019, an extension of the statewide parcel study was published to evaluate the existence of GIS parcel data and barriers to conversion. The report found that nearly all Texas appraisal districts now maintain a GIS parcel layer or are in the process of converting. It includes recommendations of 1) how TNRIS can facilitate local GIS conversion and 2) how to continue success of the land parcel program.

Parcel Data Download Availability

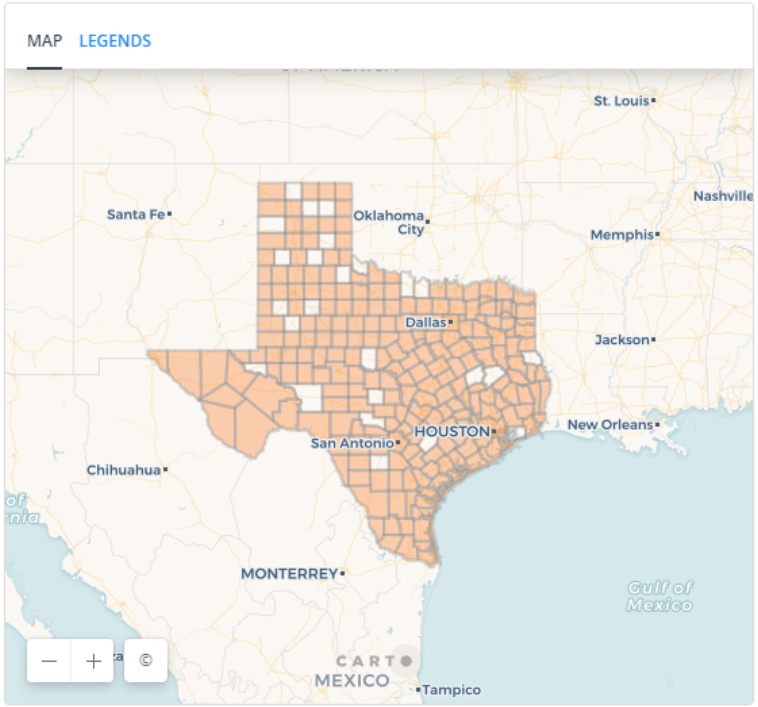
228

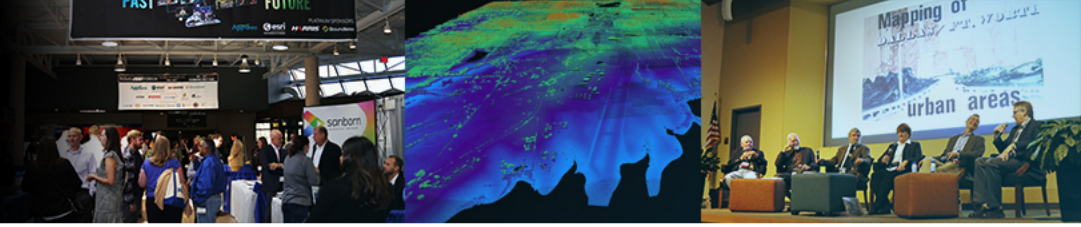
of 254 land parcel GIS datasets

are now available in a common schema

See available datasets in the map below. To download the parcel data visit the DataHub.

Launch DataHub





Land Parcels 2019

Basemap
Category

Supplemental Downloads

Project Report(s): Download

Dataset Citation

Strategic Mapping Program (StratMap). Land Parcels, 2019-03-01. Web. 2020-01-13.

COPY CITATION

Description

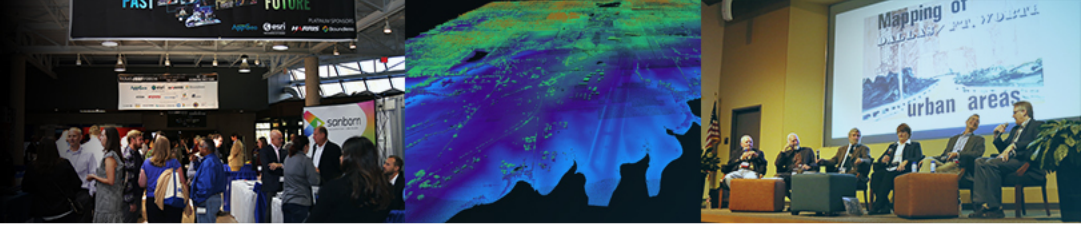
In collaboration with stakeholders from across Texas, TNRIS created a statewide standardized GIS land parcel schema. This format of land parcel data consists of the most commonly utilized information as determined by the land parcel committee. The data contributed from county appraisal districts or their service providers were translated into this common schema.

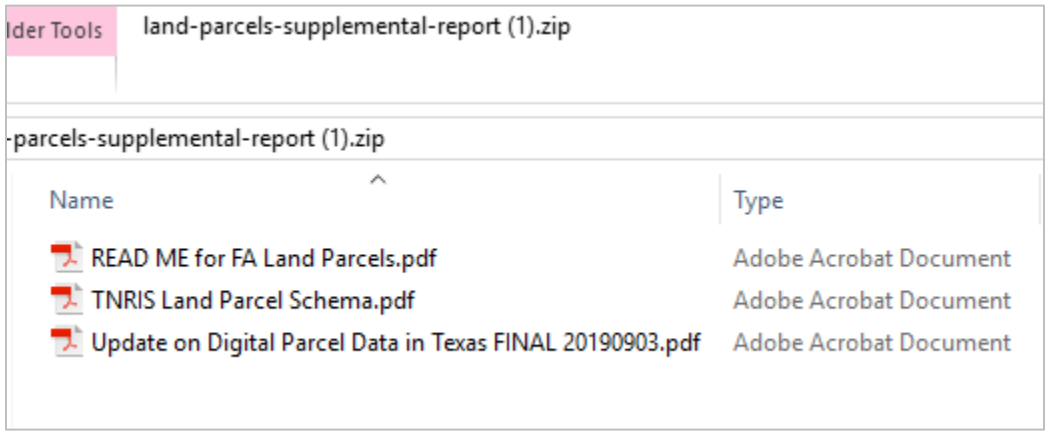
In August 2019, an extension of the statewide parcel study was published to evaluate the existence of GIS parcel data and barriers to conversion. The report found that nearly all Texas appraisal districts now maintain a GIS parcel layer or are in the process of converting. It includes recommendations of 1) how TNRIS can facilitate local GIS conversion and 2) how to continue success of the land parcel program.

Note: The following licensed land parcel datasets are available to Texas governmental entities by special request: Castro, Chambers, Cottle, Crockett, Crosby, Dawson, Donley, Frio, Gonzales, Houston, Jack, Kerr, Knox, Mason, Menard, Oldham, Roberts, Shelby, Ward, Wichita, and Wilbarger. Please download directions in the “Project Reports” under “Supplemental Downloads” on this page.

Each land parcel dataset consists of a zip file including:
File geodatabase
Shapefile
Conversion file (field mappings from the source to the common schema)
Metadata

More Information: https://tnris.org/stratmap/land-parcels/





READ_ME for LICENSED First American Data Tree Land Parcel Datasets

Purpose

These data were licensed by the Texas Natural Resources Information System (TNRIS) division of the Texas Water Development Board (TWDB) from First American Data Tree for use by Texas government entity use only at no cost. These data are not for public consumption. Please refer to the attached license agreement for use limitations.

Licensed datasets include: Castro, Chambers, Cottle, Crockett, Crosby, Dawson, Donley, Frio, Gonzales, Houston, Jack, Kerr, Knox, Mason, Menard, Oldham, Roberts, Shelby, Ward, Wichita, and Wilbarger.

Background

As part of the TNRIS statewide land parcel initiative, data were licensed from First American Data Tree in areas that may not have been available to the public via appraisal districts or partners of appraisal districts. These data may be incomplete or contain null values. They may also supplement publicly available data on DataHub. Please see the website for more information on this program.

Disclaimer

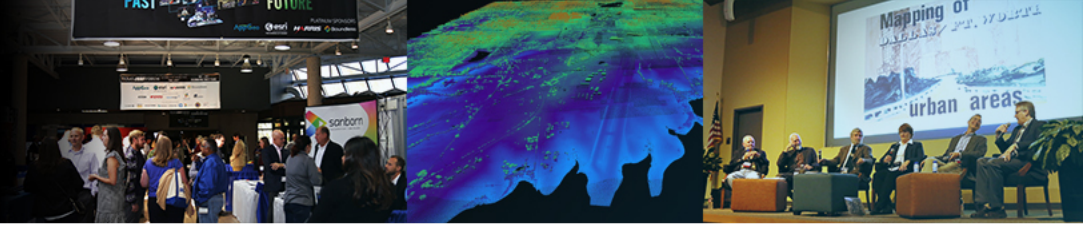
TWDB takes no responsibility for the accuracy of this data. It is not survey grade and should not be used for legal purposes.

Instructions to request licensed data at no cost from TNRIS DataHub

- Go to "Land Parcels" page in DataHub
- Click the "CONTACT" tab in the top right of the page
- Provide requested contact information
- In comments section, explain the organization requesting the licensed data. We cannot fulfill licensed data requests by vendors or contractors. Requests must be made by a Texas government organization.

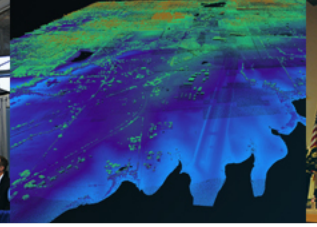
All requests will be fulfilled by TNRIS and processed between 3-10 business days.

You will receive a download link that will expire after 7 days.



Texas Governmental Entity

Customers include any Texas state agency, unit of local government, or institution of higher education as defined in Texas Government Code, Section 2054.003; the Electric Reliability Council of Texas, the Lower Colorado River Authority, a private school, as defined by Section 5.001, Education Code, a private or independent institution of higher education, as defined by Section 61.003, Education Code, a volunteer fire department, as defined by Section 152.001, Tax Code, or a public safety entity, as defined by 47 U.S.C. Section 1401, or a county hospital, public hospital, or hospital district; those state agencies purchasing from a DIR contract through an Interagency Agreement, as authorized by Texas Government Code, Chapter 771; any local government as authorized through Texas Government Code, Chapter 791; the Interlocal Cooperation Act; the state agencies and political subdivisions of other states as authorized by Texas Government Code, Section 2054.0565; and for non-telecommunications IT Commodity products and services, "assistance organizations" defined in Texas Government Code, Section 2175.001.



Medium Conversion Effort
The CAD has enough information in their digital files to convert, but there would be a significant effort involved.

High Conversion Effort
The CAD does not have enough data or information to easily convert to a GIS data format, and would likely need to do a full data automation project.

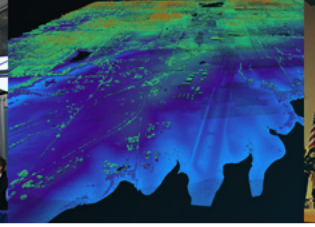
CAD	Data Format	Data Source	Approx. Number of Parcels	Level of Effort to Convert to GIS Format	Potential Roadblocks to Conversion & Notes
Castro	DGN	Pritchard & Abbott, Inc.	4,500	Medium	DGN has parcel lines and annotations, multiple files. No polygons, only lines, in data.
Coleman	Paper	LOCAL	18,000	High	Paper maps are scanned as changes are made; they see no need to convert. Maps hand drawn with parcel ID number referenced.
Donley	Atlas	Pritchard & Abbott, Inc.	8,000	High	On version 1.0 of Atlas, unable to leverage existing software to convert to a usable GIS dataset.
Hutchinson	DGN	Pritchard & Abbott, Inc.	21,000	Medium	Includes parcels, dimensions anno, owner name, prop_id, and other data (i.e city limits, roads, road names etc.).

Table 2. Level of Effort to convert to GIS data

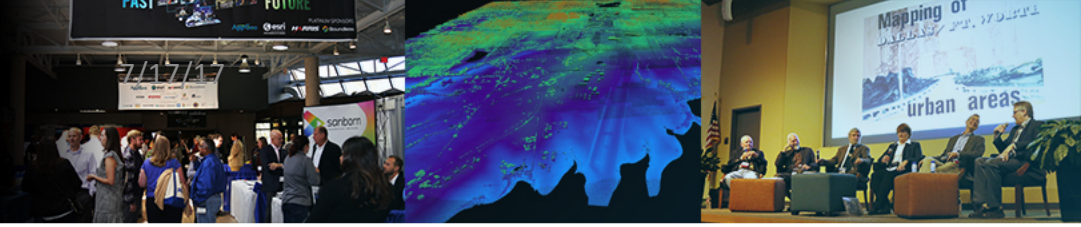
TEXAS GIO

1st Quarter

GIS Community Meeting

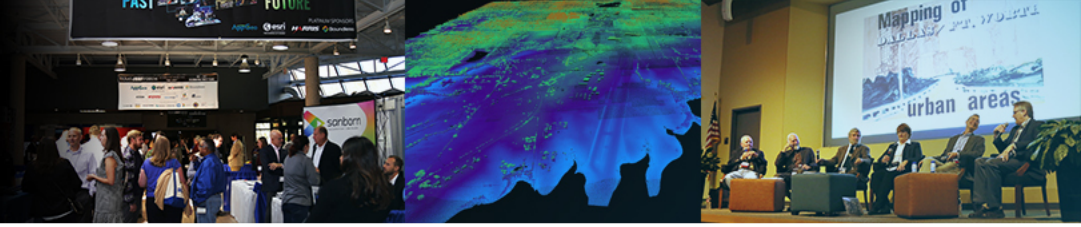


Roll Call

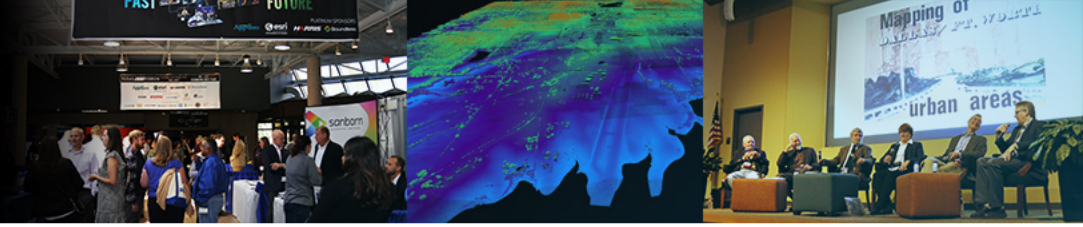


Project Roundup

The purpose of this exercise is to determine if partnerships or resource connections can be made to assist with decision making, recommendations, or cost share.

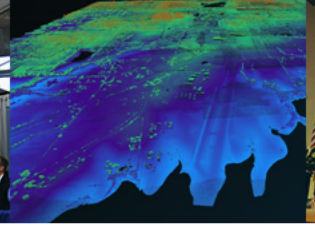


Short Break
10 Minutes



Planet Imagery Presentation

Dan Rodriguez, RazorTek, Inc.



Next Meeting

April 21, 2020
2:00 – 4:00 p.m.

Department of State Health Services
1100 West 49th Street
Bernstein Bldg., K100
Austin, TX 78756