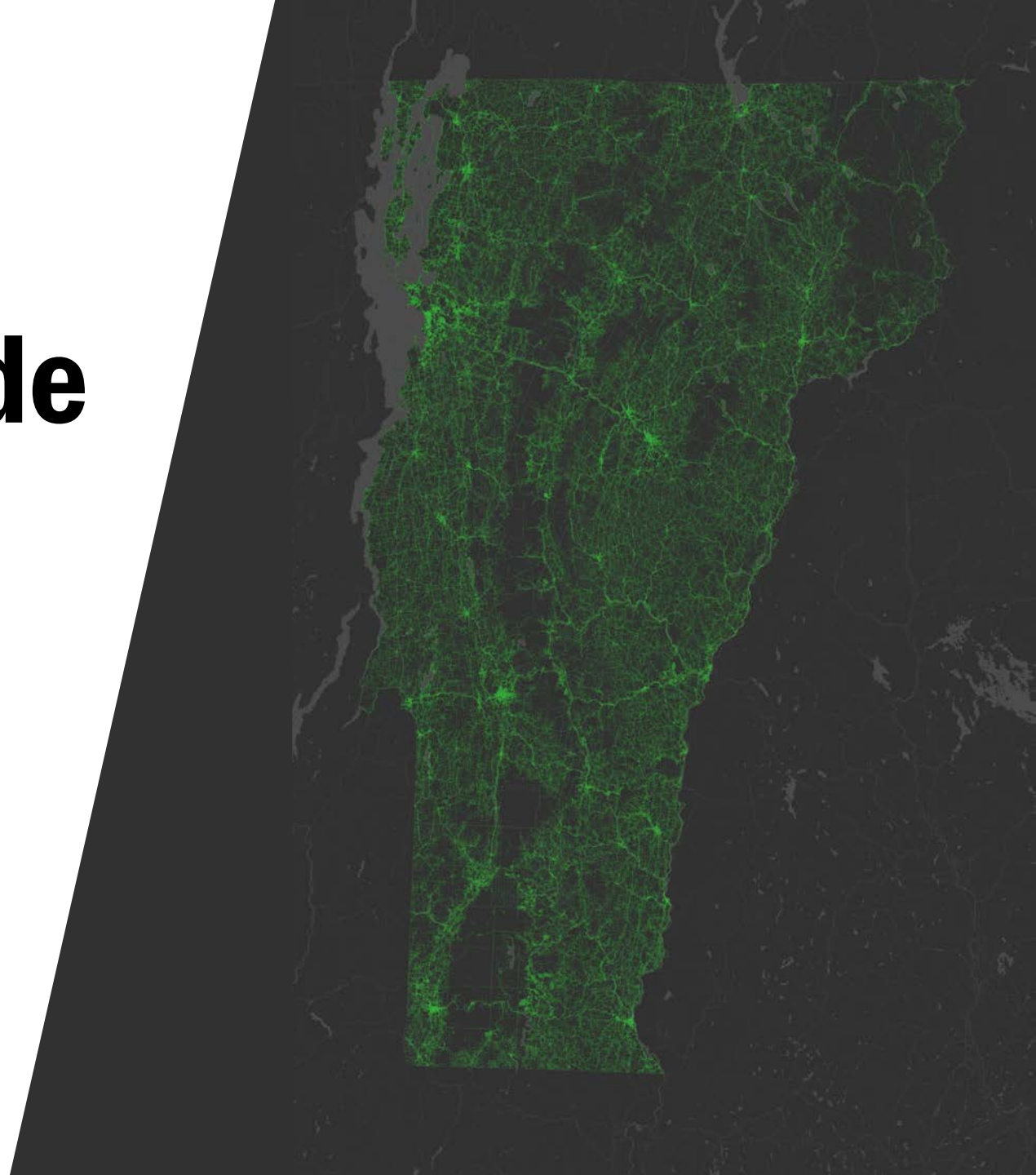
VERMONT

VERMONT CENTER FOR GEOGRAPHIC INFORMATION

Vermont's Statewide Parcel Program

Vermont's Most-Used GIS Data



Tim Terway, Ph.D.

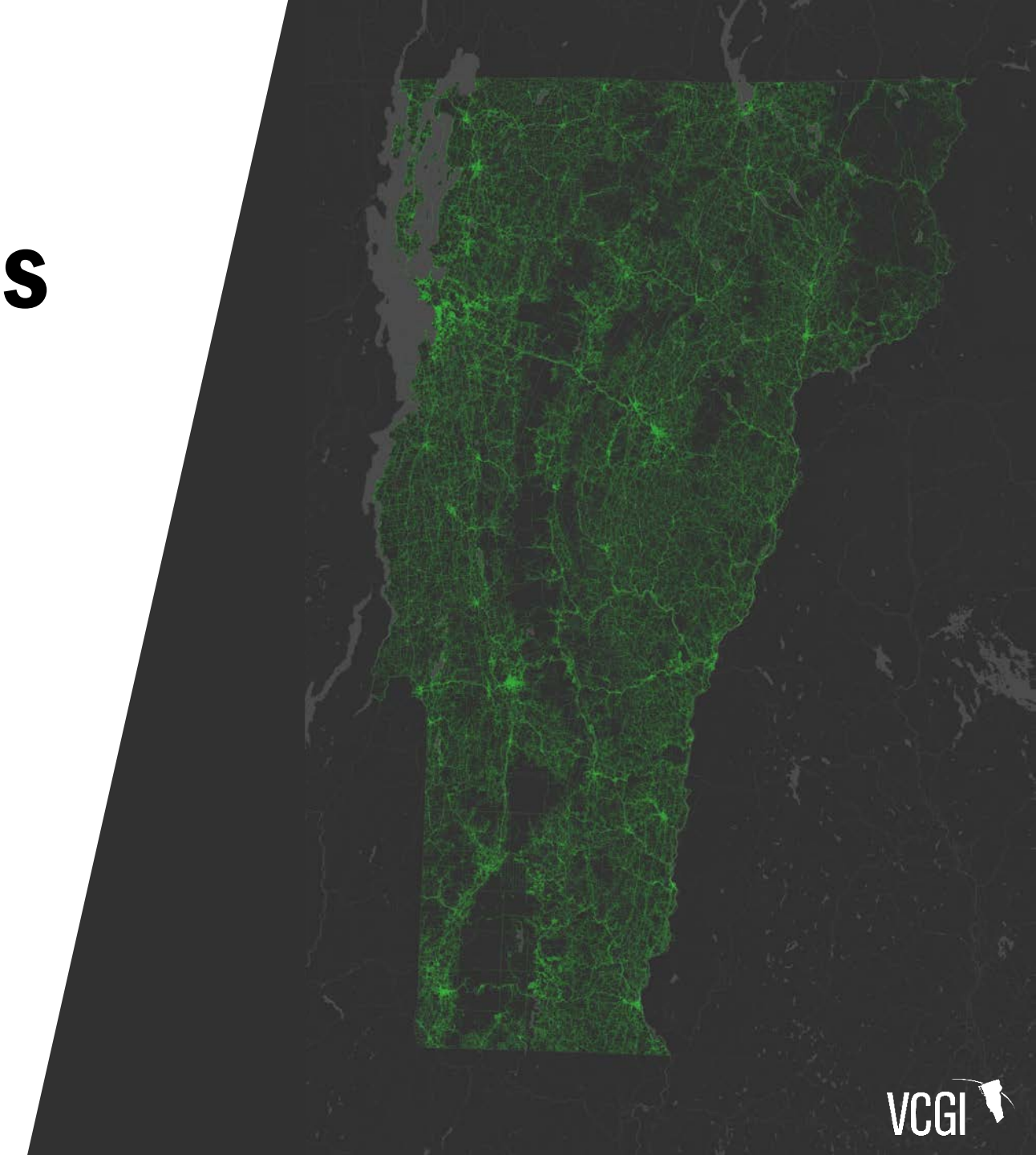
tim.terway@vermont.gov

vcgi.vermont.gov

Southern Vermont Economy Project | 09.25.2020

300,000+ Parcels
255 Towns
1 Dataset*

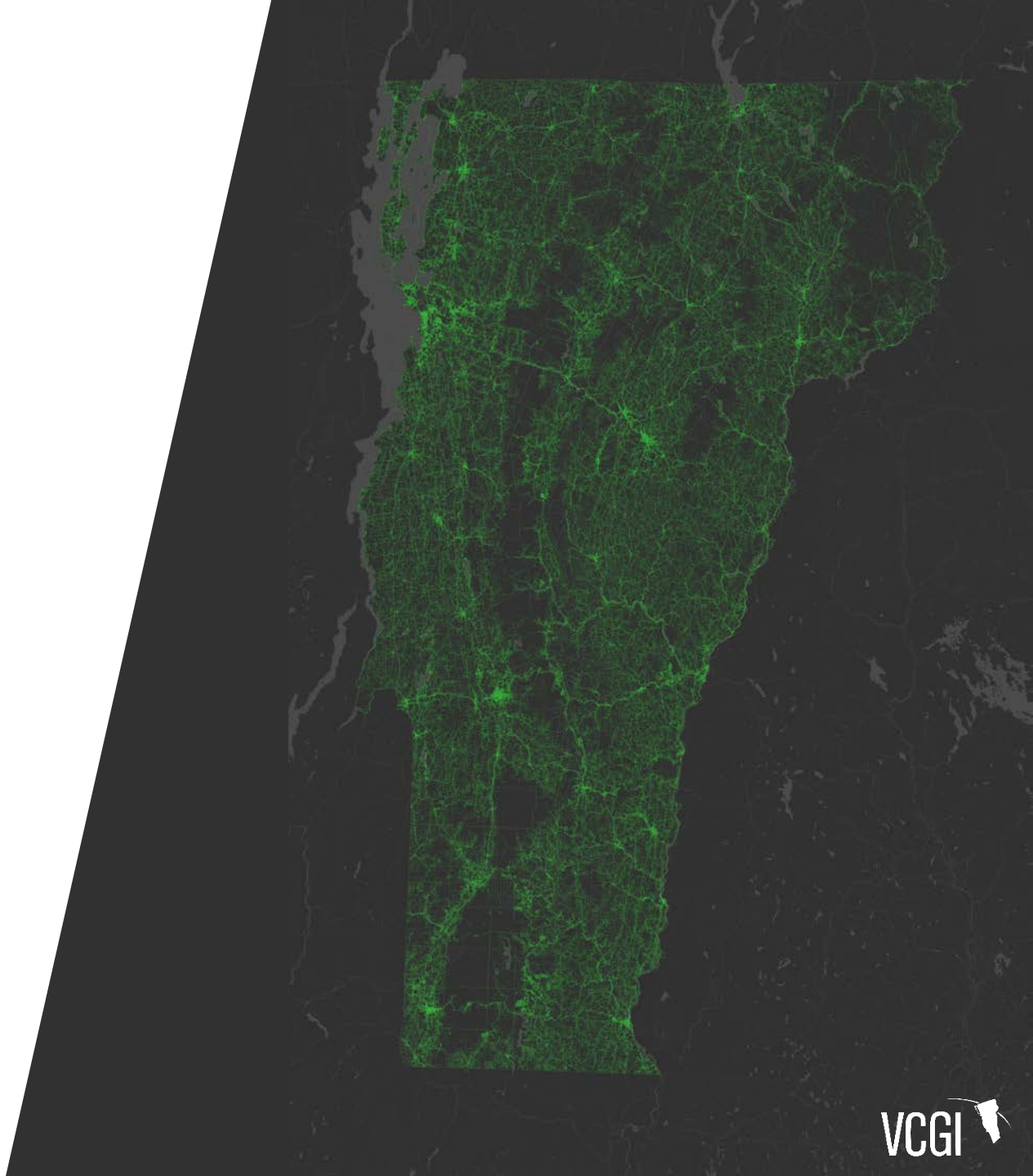
*well…2. Those pesky “inactives”, but we’ll get there…



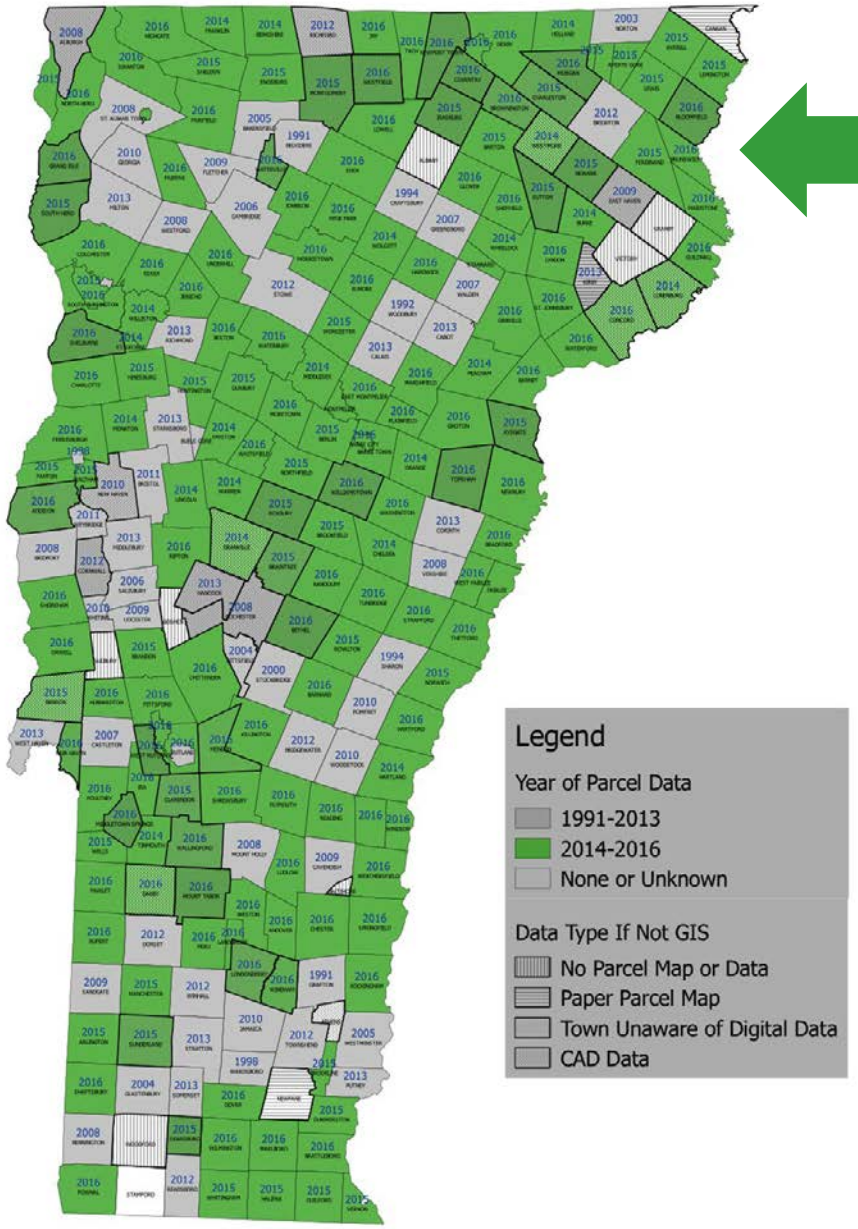
ADDISON

0 3 6 miles

776
parcels
156/255



Vermont Parcel Mapping Data Status
February 2017



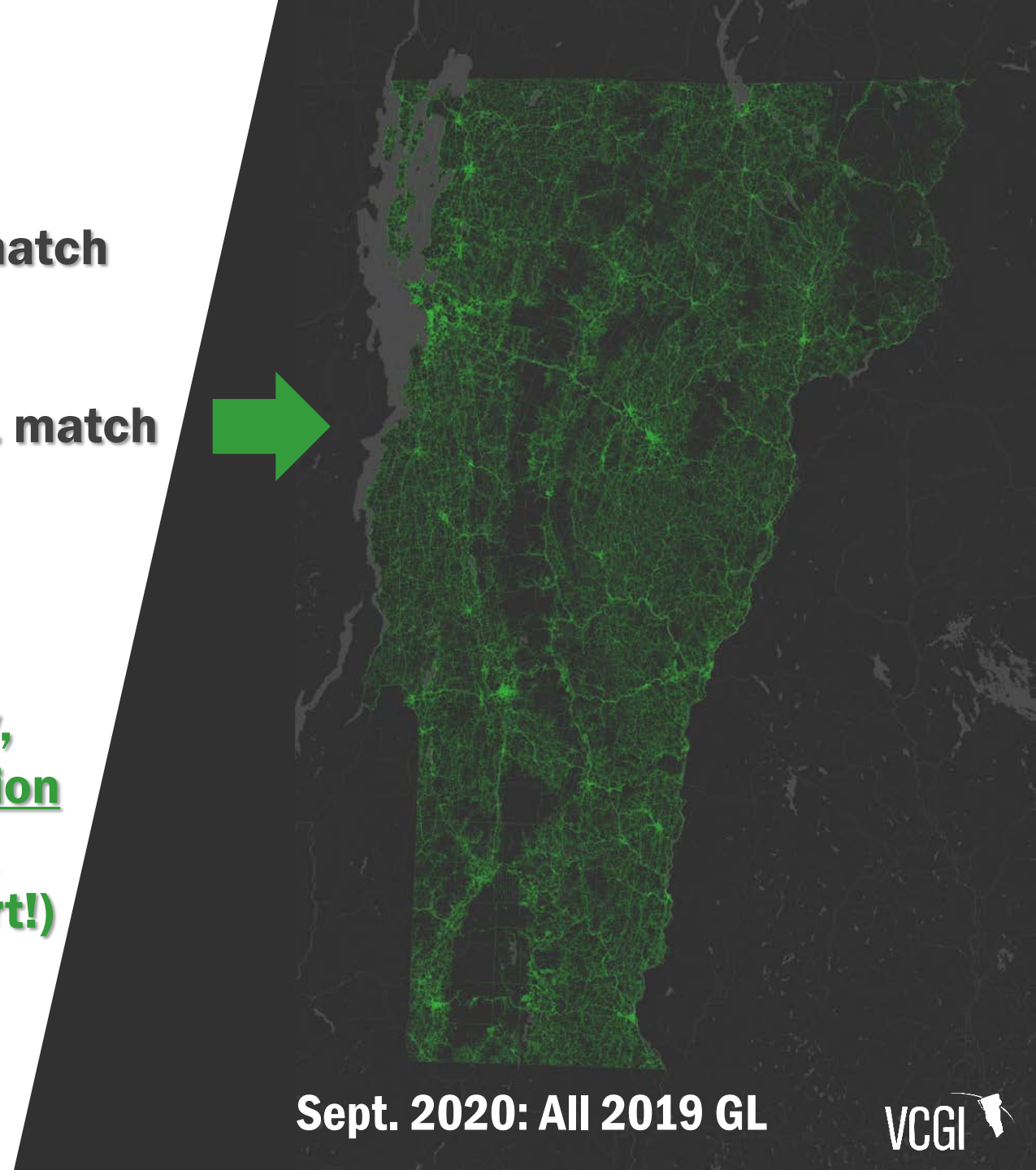
58% GL match

99% GL match

The Key?

SPAN

(but really, coordination and funds do not hurt!)



Sept. 2020: All 2019 GL

VCGI

Overview

Take-homes about parcel maps

- **WHAT**: Parcel data are and are not
- **WHY**: The many uses of uniform parcel data as a public information resource
- **WHO**: The Parcel Program is an ongoing partnership, will require working across jurisdictions
- **WHEN**: Understanding timing of updates
- **HOW**: Resources for access & use

VTPARCELS Town Data Status | VTPARCELS nonstandardized | VTPARCELS standardized inactive | VTPARCELS standardized parcels

Options | Filter by map extent | Zoom to | Clear selection | Refresh

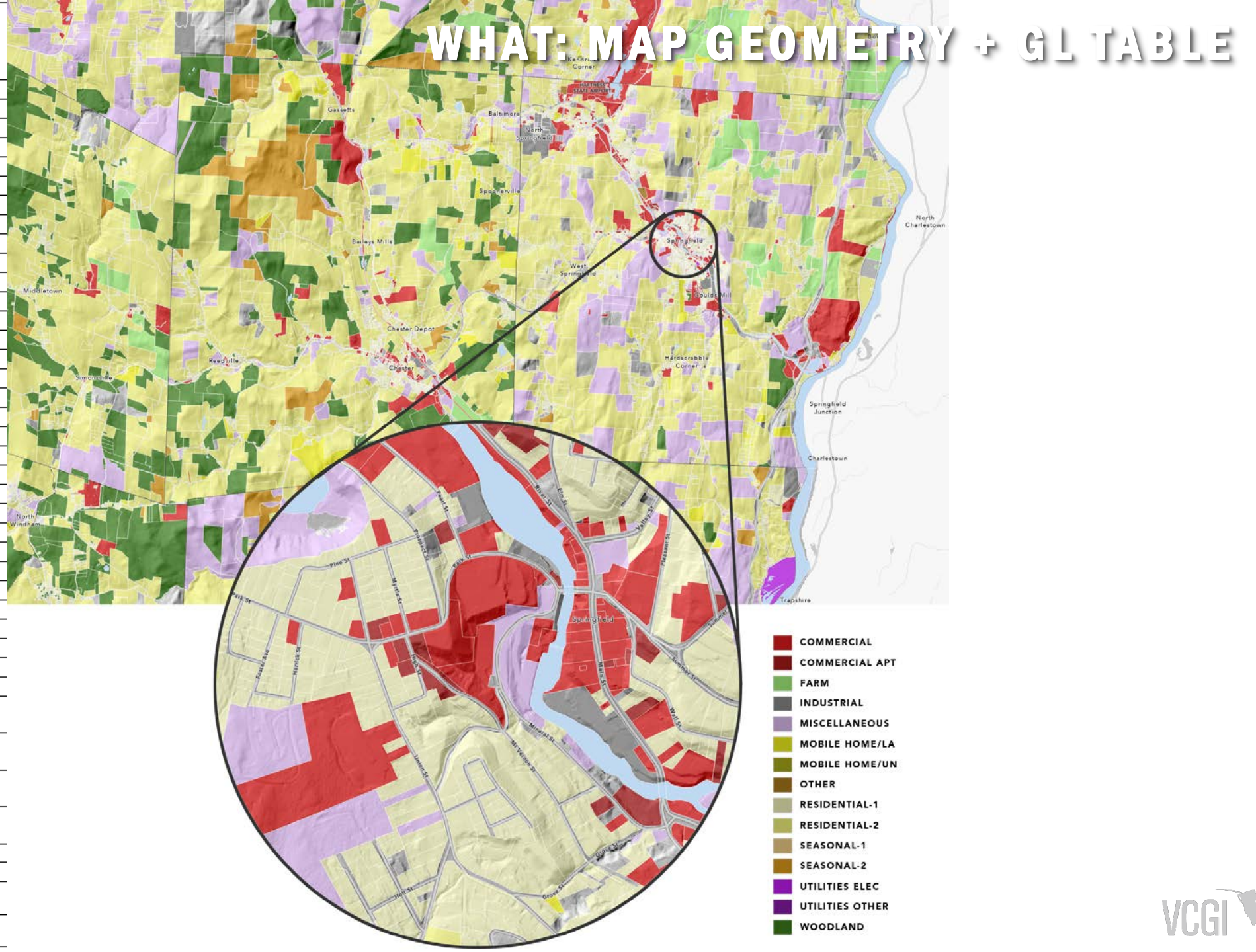
GRAND LIST FIELDS OF SELECTION

MAPID	PROPTYPE	GIS Year	TOWN	Property Description	Category (Real Estate only)	Resident Ownership Code	Total Acres	Listed Real Value (Full)	Listed Value of Land	Listed Value of Improvements	Homestead Declared (Y/N)	Owership
039-2-053-000	PARCEL	2018	BURLINGTON	FORMER CITY DUMP MONITORING STATION CR	Commercial	C	37.70	521,200	508,600	12,600	N	CITY DPW, 645 PINE ST BURLINGTON, VT, 05401

1 features 0 selected

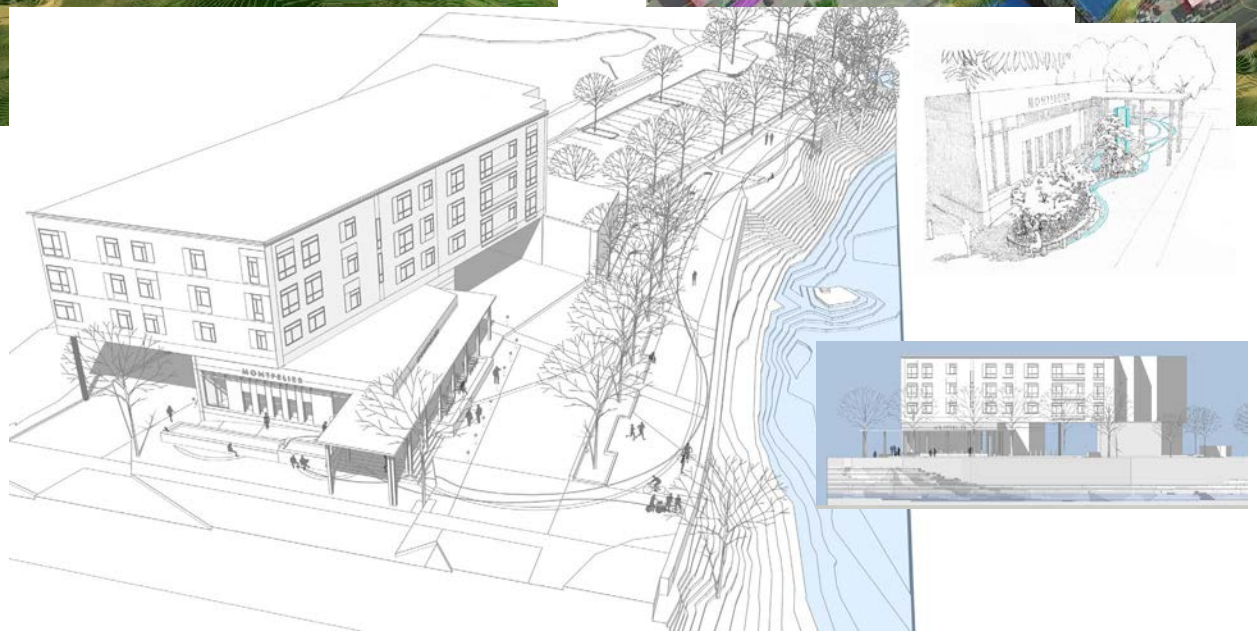
WHAT: MAP GEOMETRY + GL TABLE

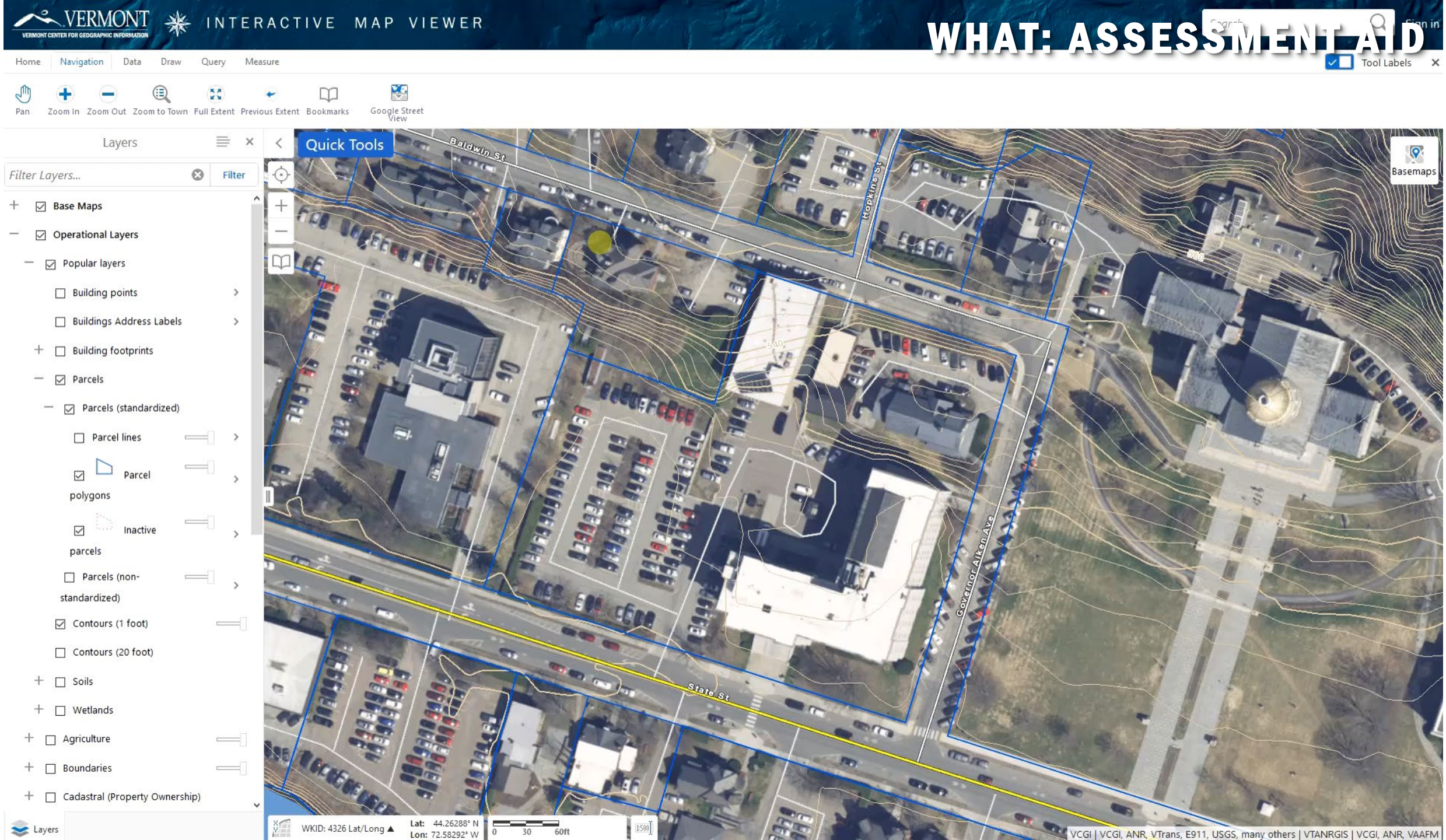
Field	(Row #1 contains headers.) Descriptive Field Name
1	Tax Year
2	Town Name
3	SPAN
4	Parcel ID
5	Owner Name 1
6	Owner Name 2
7	Mailing Address 1
8	Mailing Address 2
9	Mailing Address City
10	Mailing Address State
11	Mailing Address Zip
12	Property Description
13	Location
14	Category (Real Estate only)
*15	Resident Ownership Code
16	Total Acres
17	Listed Real Value (Full)
18	Homestead Listed Value (Full)
19	Non-Residential Value (Full)
20	Listed Value of Land
21	Listed Value of Improvements
22	Equipment Value (Personal Property)
23	Equipment Code (Cable only)
24	Inventory Value
25	Homestead Declared (Y/N)
26	Housesite Value
27	Veterans Exemption Amount
28	Other Exemption Type
29	Exemption End Date
30	Exemption Statute
31	Exemption Homestead Amount
32	Exemption Non-Residential Amount
33	Current Use Homestead Reduction Amount
34	Current Use Non-Residential Reduction Amount
35	Education Grand List Value Homestead (1%)
36	Education Grand List Value Non-Residential (1%)
37	Covenant Restricted Housing Percent
38	Municipal Grand List Value (1%)
39	AOE Grand List Value **Homestead** (1%)
40	AOE GL Value **Non-Residential** (1%)



WHAT: PLANNING AND CARTOGRAPHIC TOOL

It is now possible to construct a Virtual Vermont for reference.



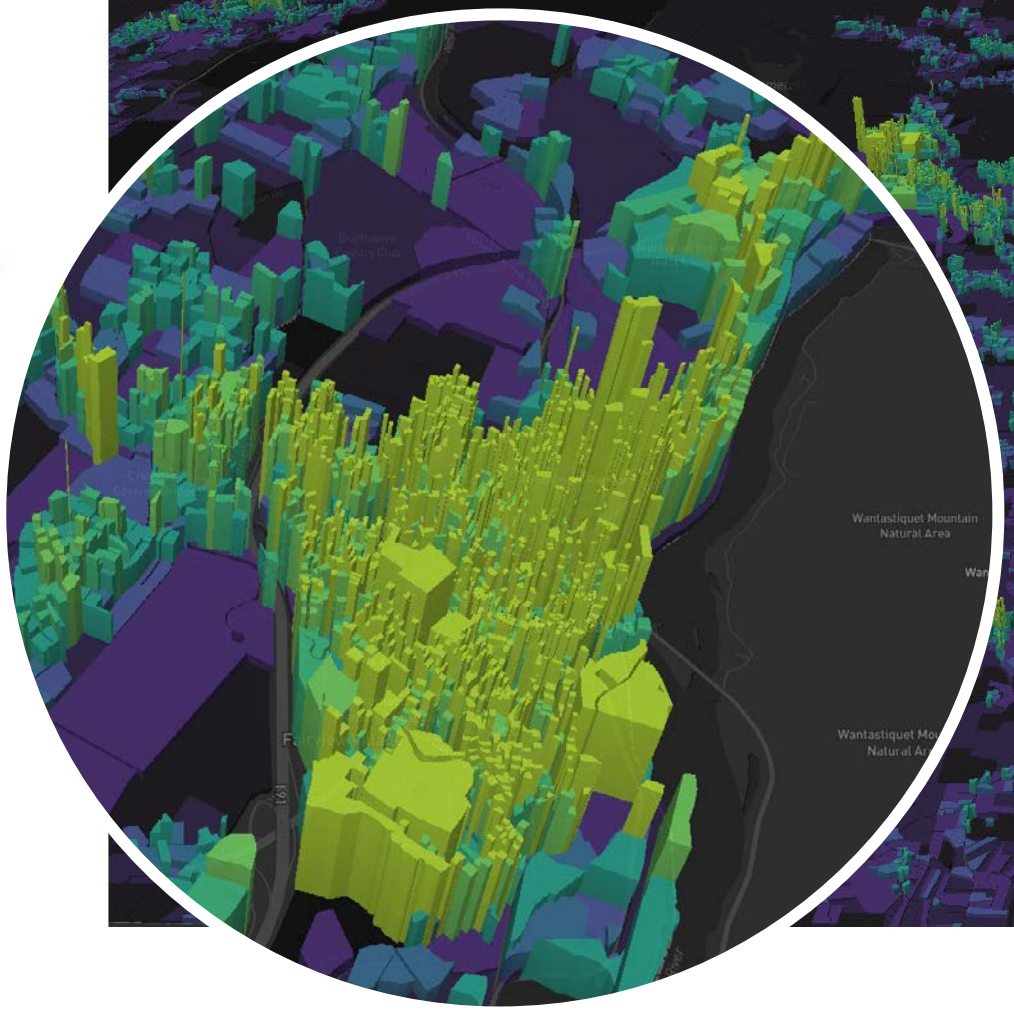

VERMONT
VERMONT CENTER FOR GEOGRAPHIC INFORMATION
INTERACTIVE MAP VIEWER
WHAT: ASSESSMENT AID
Sign in
Home
Navigation
Data
Draw
Query
Measure
Tool Labels
Pan
Zoom In
Zoom Out
Zoom to Town
Full Extent
Previous Extent
Bookmarks
Google Street View
Layers
Filter Layers...
Filter
Base Maps
Operational Layers
Popular layers
Building points
Buildings Address Labels
Building footprints
Parcels
Parcels (standardized)
Parcel lines
Parcel polygons
Inactive parcels
Parcels (non-standardized)
Contours (1 foot)
Contours (20 foot)
Soils
Wetlands
Agriculture
Boundaries
Cadastral (Property Ownership)
Quick Tools
Basemaps
Baldwin St
Hopkins St
State St
Governor Aiken Ave
WKID: 4326 Lat/Long
Lat: 44.26288° N
Lon: 72.58292° W
0 30 60ft
1:500
VCGI | VCGI, ANR, VTrans, E911, USGS, many others | VTANRGIS | VCGI, ANR, VAAFM

TOWN OFFICE
Suite 101
Business Hours
Sorry We're CLOSED
Watch Your Step
PLEASE WATCH YOUR STEP
CUSTOMER PARKING ONLY
7am - 4pm
PAYMENT BOX

WHAT: SPATIAL ANALYSIS UNIT

Vermont Parcel Values

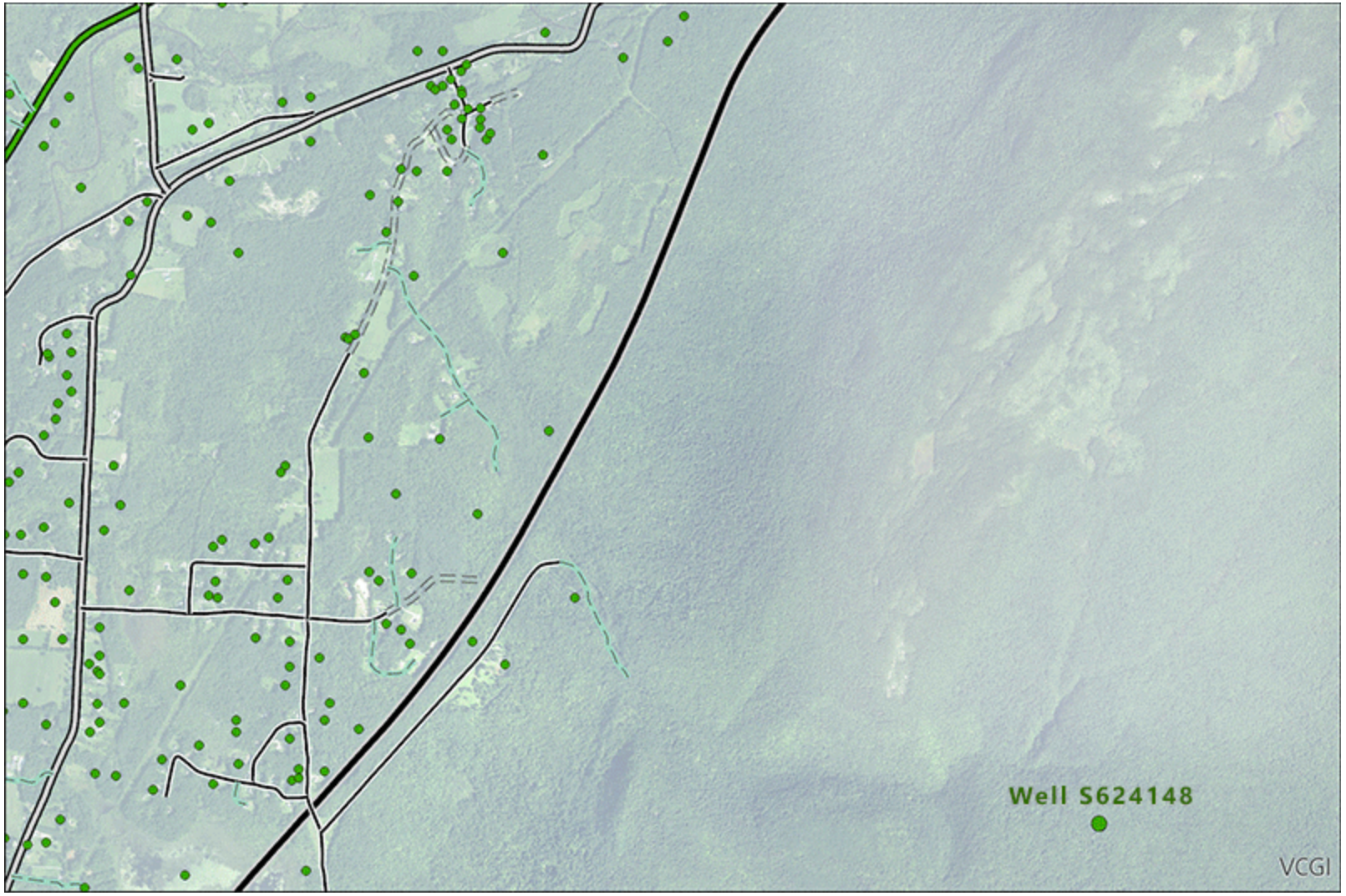
This map compares the use category and listed value of parcels in Vermont. Heights of the parcels are scaled on property values in dollars per acre, adjusted to the common level of appraisal. Parcels are colored by their grand list use category and can be seen by clicking on a parcel.
Current data is based on the 2018 grand list.
For more information about the Vermont Parcel project please visit the Program Page. This visualization is for comparative, informational purposes only.



VCGI

Layers
Bare Map
Filter Layers...
Filter
Operational Layers
Atlas Layers
Watershed Management
Waste Management
Stormwater
Rivers Management
Rivers
Dams
Stream Alterations Open EPMs
DFIRM X-Sections
DFIRM - Letter of Map Revision (LOMR)
DFIRM Panels
DFIRM Floodways
Flood Hazard Areas (Only FEMA-digitized data)
AE (1-percent annual chance floodplains with elevations)
A (1-percent annual chance floodplains without elevations)
AO (1-percent annual chance zone of shallow flooding 1-3 feet)
0.2-percent annual chance flood hazard zone
River Corridors
River Corridor Easement
Natural Resources Atlas
Layers
Search...
Quick Tools...
WHAT: EMERGENCY MGMT. AID
Montpelier
ESRI Wo...
0
100
200m
VTANR | VCGI, USDA FSA, DigitalGlobe, GeoEye, CNES/Airbu

WHAT: DOCUMENT/POLICY UNIT



WHAT: DOCUMENT/POLICY UNIT

Grand List Info
Related Docs (e.g. Current Use)
Applicable State Regs / Permits
Applicable Local Regs / Plans
Etc.

Form Based Zoning Info
Etc.

THE FUTURE?

VCGI

What parcel data are not…

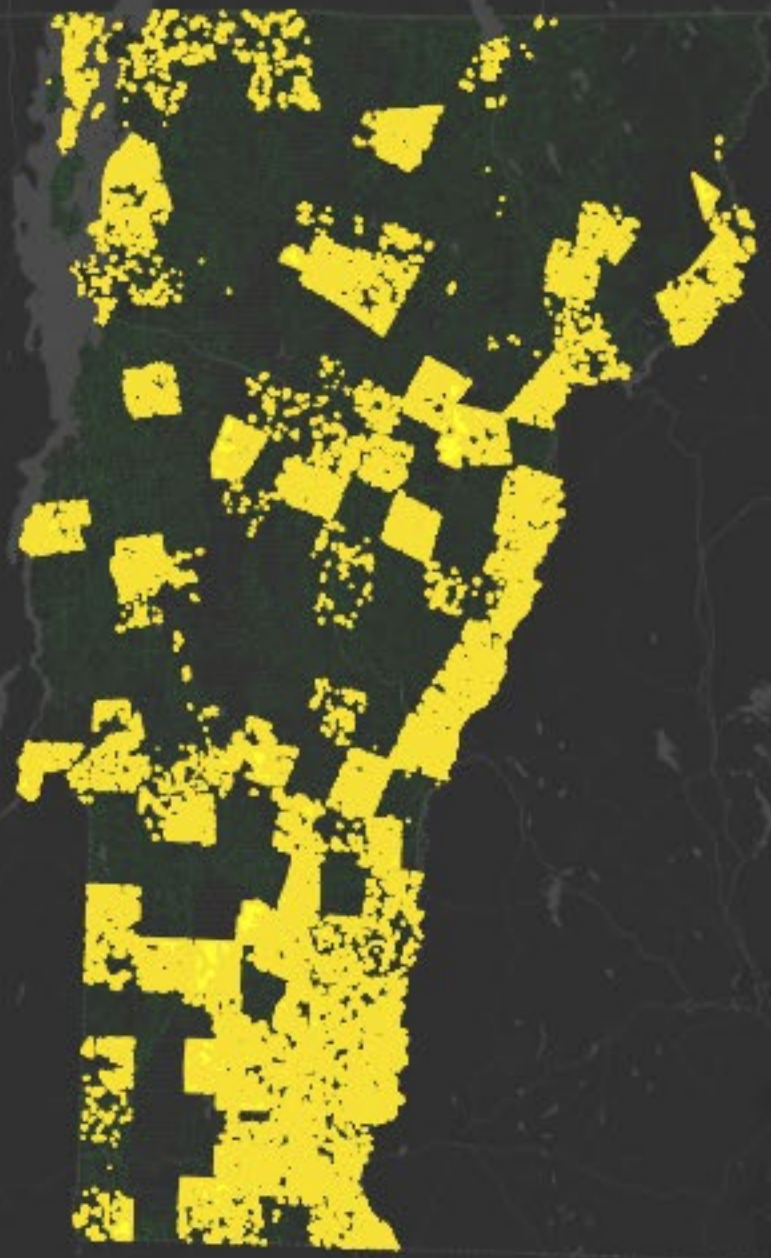
- A ground survey
- Perfect spatial representations
- Official source of GL attributes

Double Claimed 12,435 acres. Unclaimed 10,106 acres.

unclaimed

double claimed

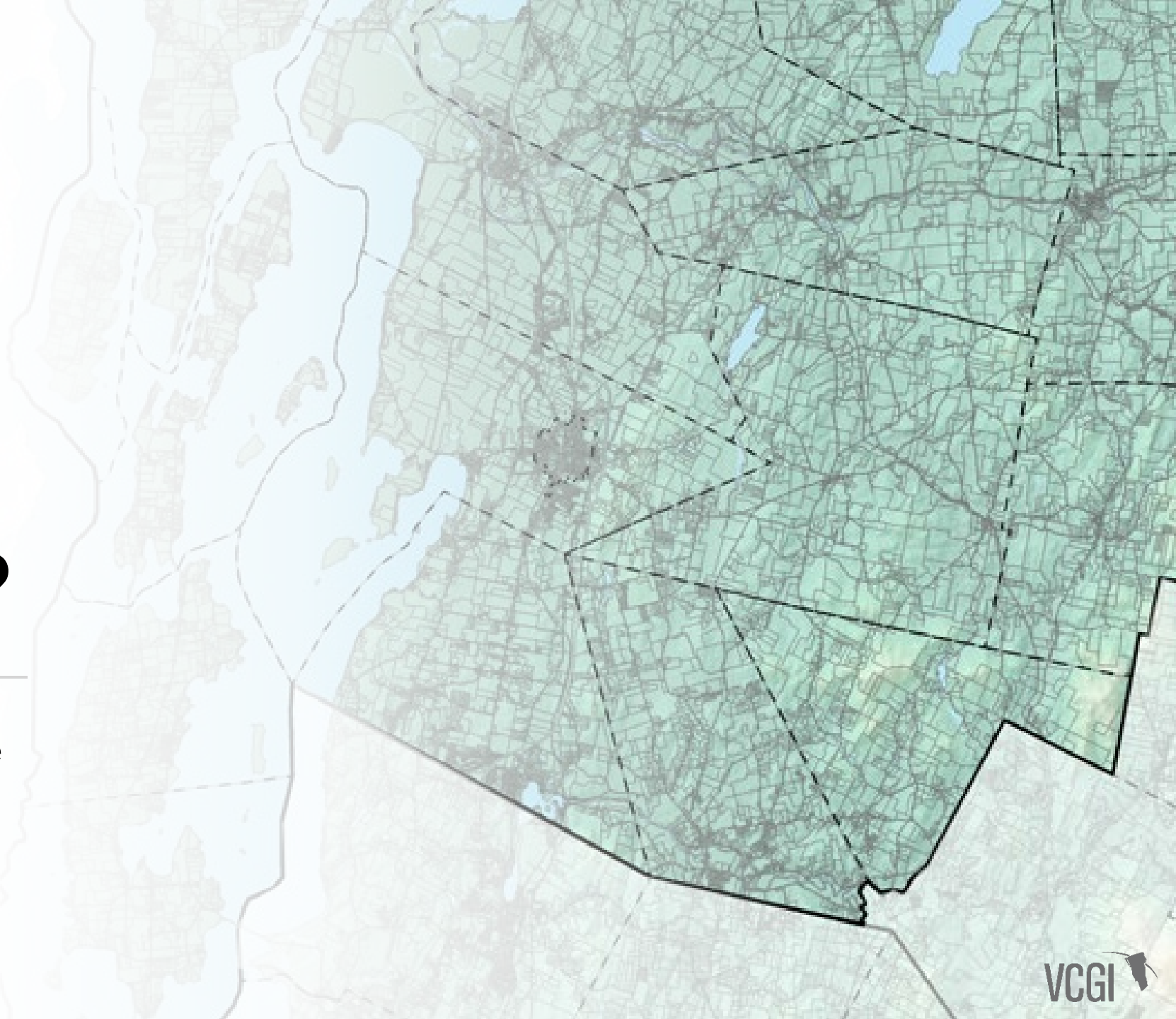
Inactive Parcels



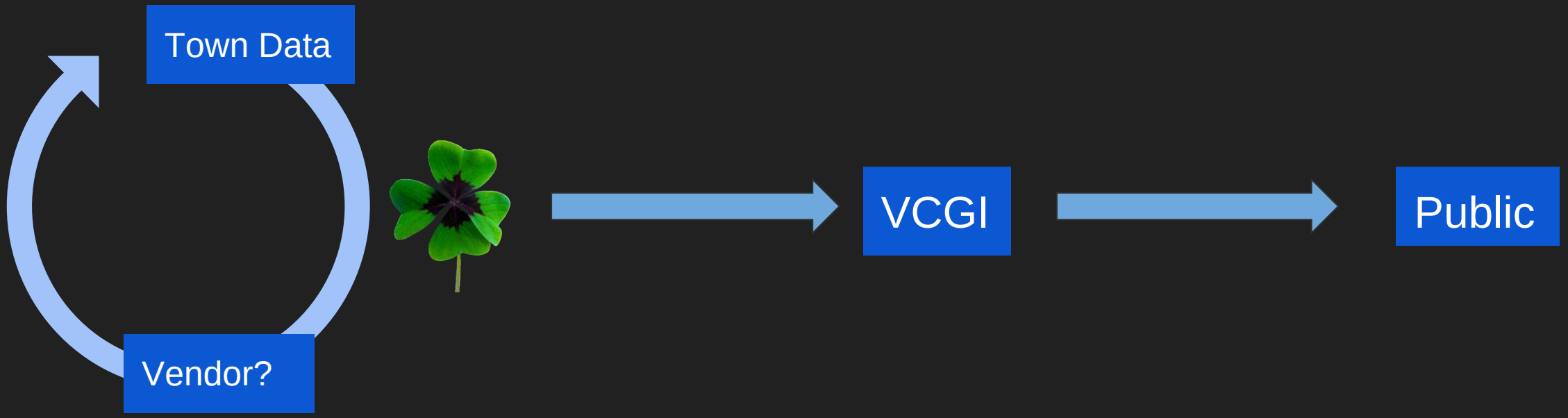
	span	glist_span	mapid	owner1	acresgl
1	405-126-12578		020-061000		*NULL*
2	405-126-13738		020-061002		*NULL*
3	405-126-13739		020-061003		*NULL*
4	405-126-13741		020-061005		*NULL*
5	C-12405-04	405-126-12578	020-061000	ELLES WENDY A	0.00000000
6	C-12405-04	405-126-13738	020-061000	MOORE MICHAEL B	0.00000000
7	C-12405-04	405-126-13739	020-061000	DESMARAIS GERALD	0.00000000
8	C-12405-04	405-126-13741	020-061000	YOUNG GAIL	0.00000000

Who is involved?

Partnership required to keep these tools up to date and useful

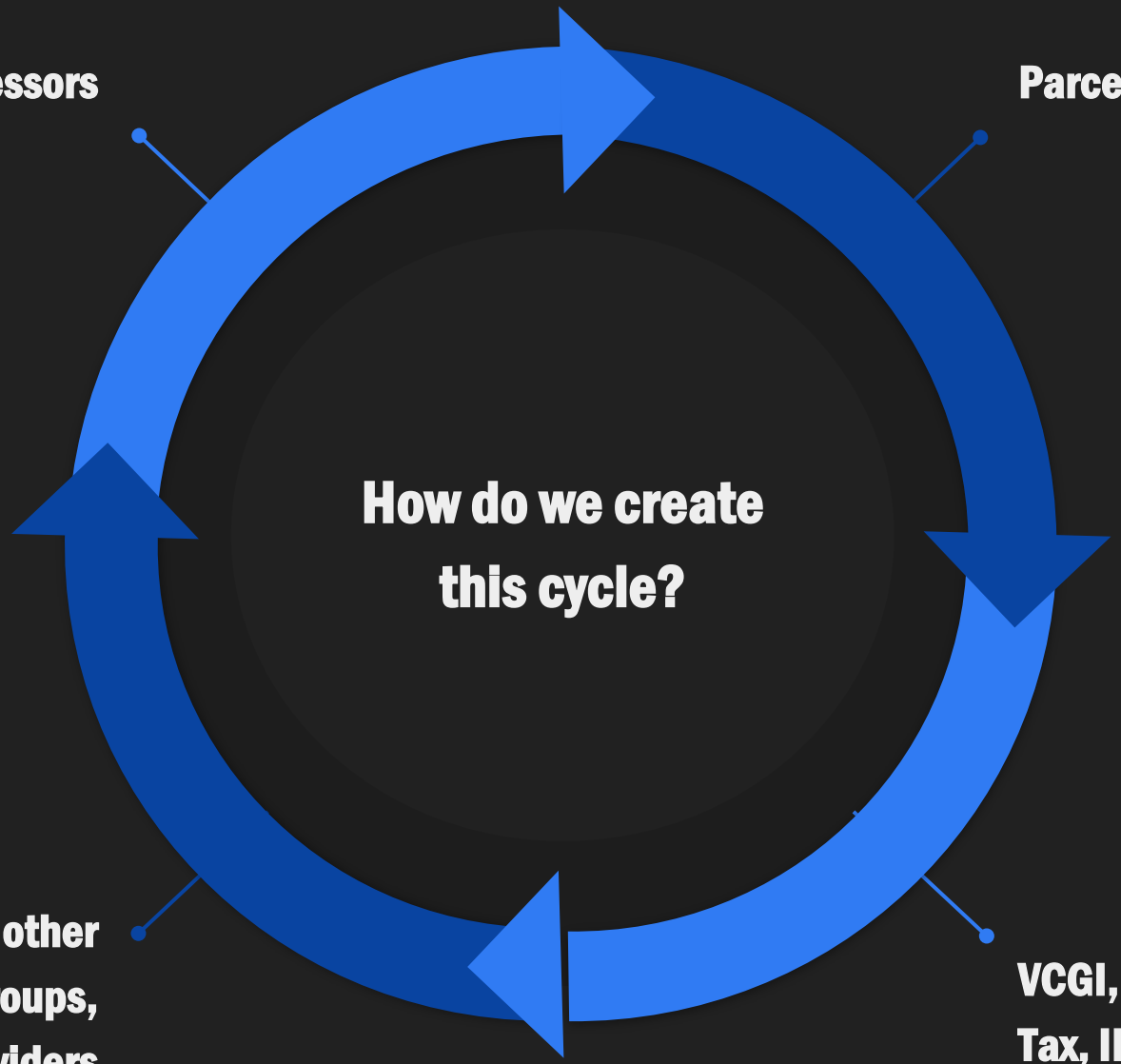


Old model



Town listers and assessors

Parcel Data Providers



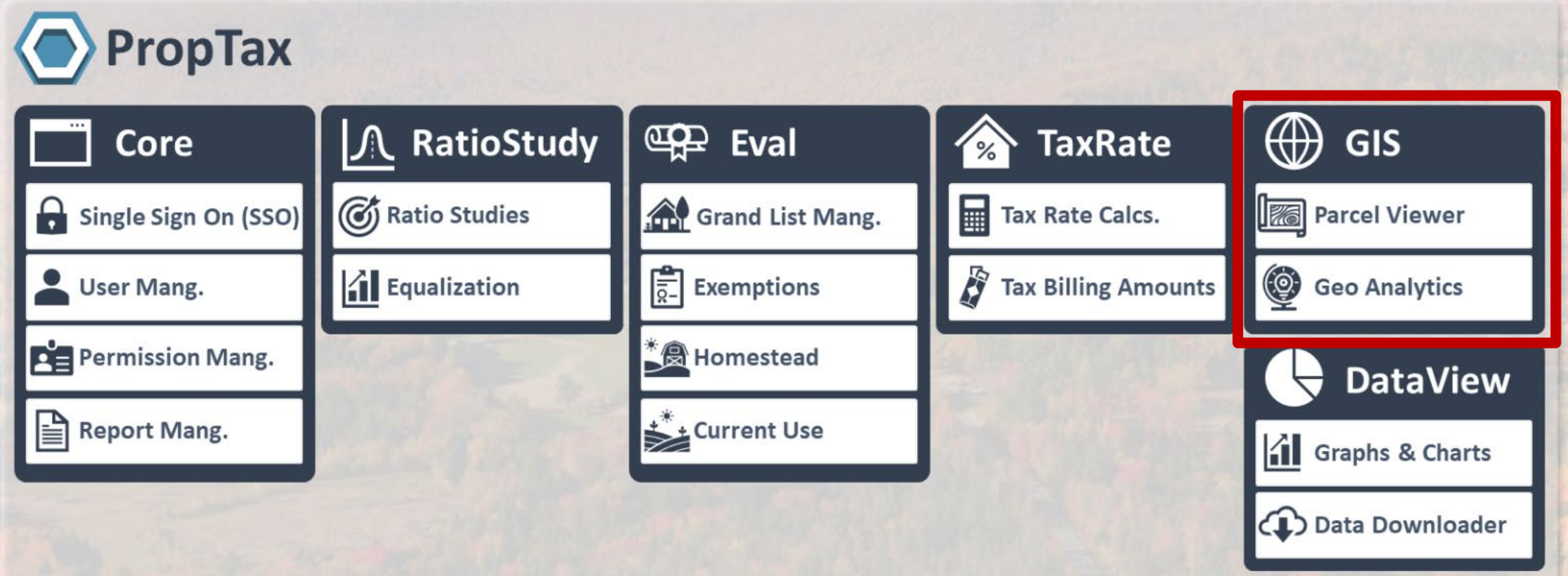
Public, Professionals, other
Planning & Dev. Groups,
Parcel Data Providers

VCGI,
Tax, IPTMS, State Partners

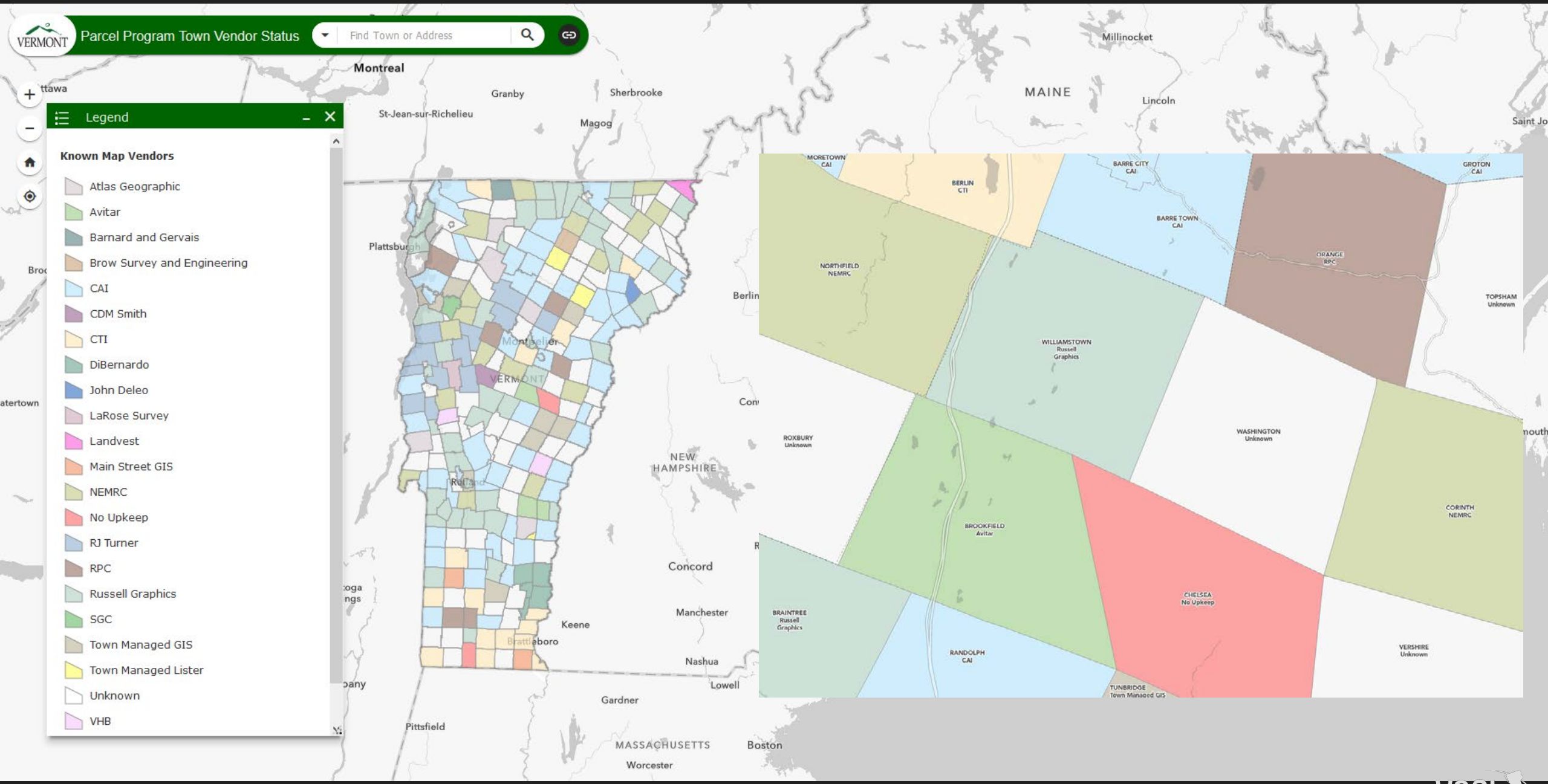
VCGI

VERMONT PROPTAX CONFIGURATION

INTEGRATED PROPERTY TAX MANAGEMENT SYSTEM



[Learn more about the IPTMS here.]


VERMONT
Parcel Program Town Vendor Status
Find Town or Address
Legend
Known Map Vendors
Atlas Geographic
Avitar
Barnard and Gervais
Brow Survey and Engineering
CAI
CDM Smith
CTI
DiBernardo
John Deleo
LaRose Survey
Landvest
Main Street GIS
NEMRC
No Upkeep
RJ Turner
RPC
Russell Graphics
SGC
Town Managed GIS
Town Managed Lister
Unknown
VHB
Montreal
Granby
Sherbrooke
St-Jean-sur-Richelieu
Magog
Millinocket
MAINE
Lincoln
Plattsburgh
Montpelier
VERMONT
NEW HAMPSHIRE
Rutland
Concord
Manchester
Keene
Brattleboro
Nashua
Lowell
Gardner
Pittsfield
MASSACHUSETTS
Boston
Worcester
MORETOWN CAI
BERLIN CTI
BARRE CITY CAI
BARRE TOWN CAI
GROTON CAI
ORANGE RPC
NORTHFIELD NEMRC
WILLIAMSTOWN Russell Graphics
TOPSHAM Unknown
ROXBURY Unknown
WASHINGTON Unknown
BROOKFIELD Avitar
CORINTH NEMRC
CHELSEA No Upkeep
BRAINTREE Russell Graphics
RANDOLPH CAI
TUNBRIDGE Town Managed GIS
VERSHIRE Unknown

Vermont Land Survey Library

Search, View and Add Vermont Land Surveys

A Public Library for Vermont's Land Survey Records

The library hosts copies of land surveys of boundary line adjustments and subdivisions as prepared by Vermont licensed land surveyors.

Enter the Land Survey Library

Digital Survey Plats

Effective January 1, 2020 and as stated in 27 V.S.A. § 341, surveys are required for property line changes in Vermont. Licensed land surveyors who produce the surveys are to submit a digital copy of them to the library in .pdf format (see 27 V.S.A. §1401 and 27 V.S.A. §1403).

The copies of surveys are for public reference only, with the signed and stamped mylars that live with the Town remaining the official documents. The purpose of the land survey library is to improve knowledge of who owns what lands where throughout Vermont.

What is it?

The library consists of a web map that displays the general locations of .pdf copies of surveys produced by Vermont licensed land surveyors. For new surveys produced from January 1, 2020 onward, surveyors upload the .pdf copies to the map when the surveys are to be filed with the Town Clerk. The library's content is open to the public for viewing and reference.

Learn More Here

Submit a Survey

Are you a Vermont licensed land surveyor completing a survey of a property line change on land in Vermont? Are you a town official with recorded surveys that you'd like to make available on a map? If yes to either, then use the survey library application linked from this page to submit a .pdf copy of these documents. Learn more about how and when to use the library in the How It Works section, and read answers to frequently asked questions under FAQ's.

Submit a PDF of a Survey

VCGI

Survey, Surveyor, Address,

About

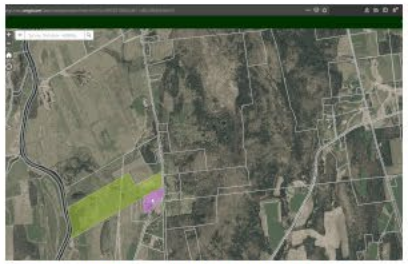
Searching for a Survey

By Search Bar: Type in the name of the surveyor or address of the survey's location

By Map: Navigate the map to the general location of the survey and make sure the survey library layer is turned on. You may also filter available surveys by map extent using the attribute table at the bottom of the page.

Viewing a Survey

Click on a polygon of a survey that you've located on the map. A pop-up window will display with its associated information. **In the pop-up window, click on the linked .pdf in the Attachments field**. This will open the .pdf in a new tab. For example:



Purple polygons represent the general location of subdivisions.
Blue polygons represent boundary line adjustments.
Green polygons represent the general property surveys.
Red polygons represent uploaded but not yet reviewed surveys.
Orange polygons represent all other survey types.

Adding a Survey to the Library

Use the Add a Survey tool by clicking on the icon at the top of the page. Follow the instructions on the left pane. **Only land surveys produced by Vermont licensed land surveyors are permitted.** An example of uploading a .pdf survey is shown below. Uploaded content is checked before being published to ensure the validity of content.

(1 of 2)

Subdivision For THE CONSERVATION FUND

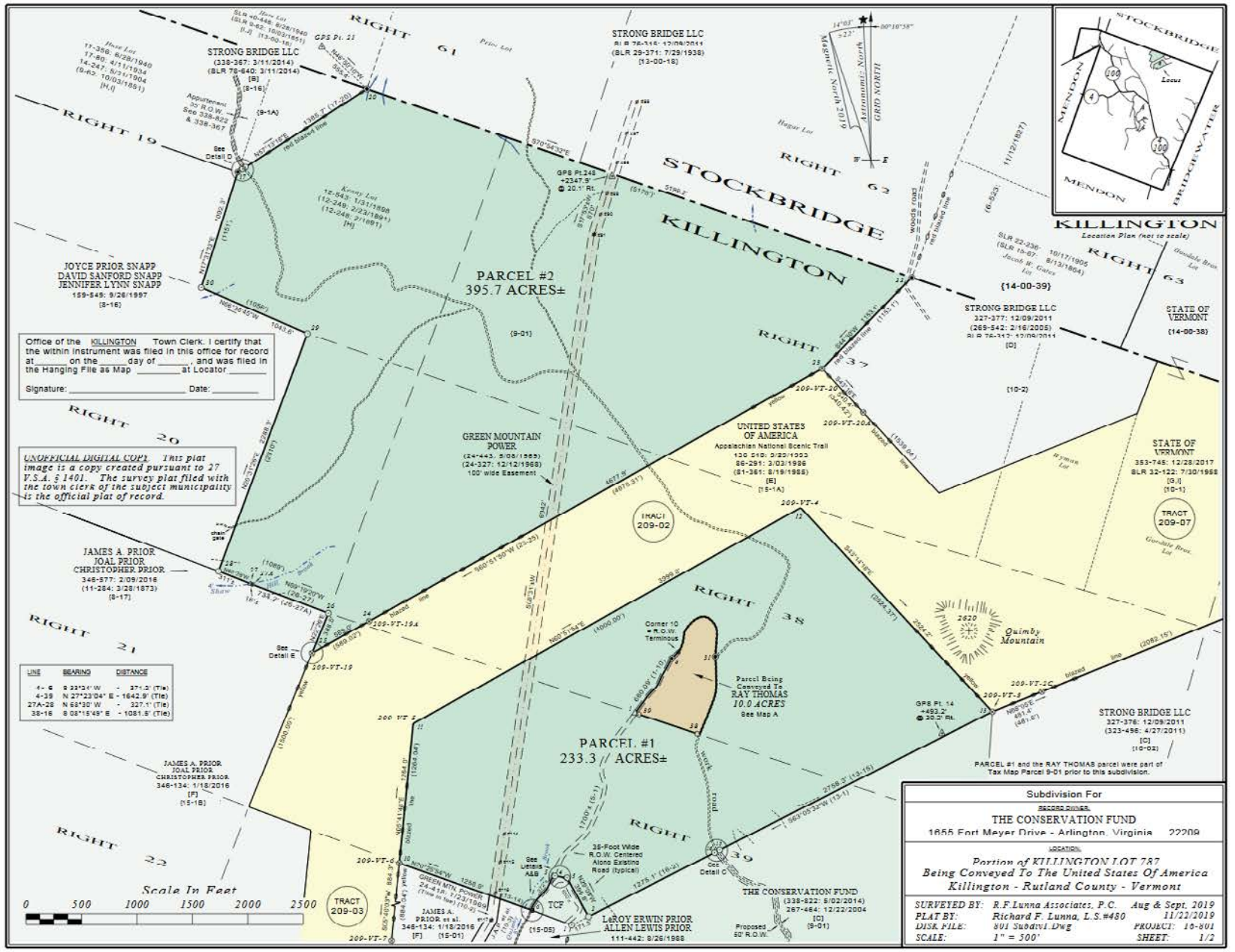
Name of Surveyor	Richard F. Lunna, L.S.
Date of Survey	11/22/2019
Name of Uploader	up loaded by surveyor
Uploader Email	rflunna@gmail.com
Survey Type	Subdivision
Town	Killington
Notes	
Recording Information	unknown

Attachments:
801 Subdiv2_VCGI.pdf
801 Subdiv1_VCGI.pdf

Zoom to

https://services1.arcgis.com/BkFxaEFNwHqX3tAw/arcgis/rest/services/FS_VCGI_Land_Survey_Library_reviewed_v2_1/FeatureServer/0/57/attachments/39

Automatic Zoom



Parcel Geometry

Grand List

Property Transfer Data

WHEN ARE PARCELS UPDATED?

VCGI

Parcel Geometry

Grand List

Property Transfer Data

WHEN ARE PARCELS UPDATED?

- **Parcel geometry** are updated for each town after they are received by VCGI from their updating entity, typically a vendor hired by the town
- **Parcel grand list attributes** are updated for all towns once every year

Longer explanation here.

VCGI

Resources for Access & Use

- Vermont Parcel Program Overview
- Parcel Program Frequently Asked Questions
- Vermont Parcel Viewer
- Vermont Parcel GIS Data
- Example Uses of Parcel Program GIS Data
- Parcel Program Town Data Status
- Parcel Program Known Town Map Vendors
- Vermont Land Survey Library
- Digital Parcel Mapping Guidelines and Contract Guidance
- For Map Vendors: Guidance in working with VCGI and the Parcel Program

https://vcgi.vermont.gov/data-and-programs/parcel-program

VERMONT OFFICIAL STATE WEBSITE

VERMONT

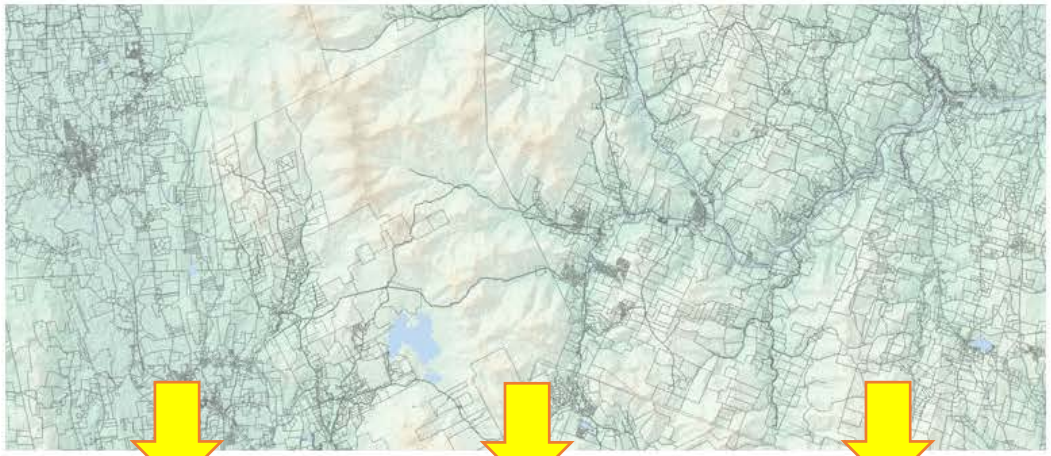
AGENCY OF DIGITAL SERVICES

Vermont Center for Geographic Information

SEARCH

CONTACT

- Data and Programs
  - Parcel Program
    - Parcel Advisory Board
  - Lidar Program
  - Imagery Program
  - Data Status
  - Share Map Data
- Resources
- Maps
- Partners
- About VCGI



PARCEL PROGRAM FAQ | VIEW PARCEL DATA | ACCESS PARCEL DATA

EXAMPLE USES | TOWN DATA STATUS | TOWN MAP VENDORS

PARCEL PROGRAM

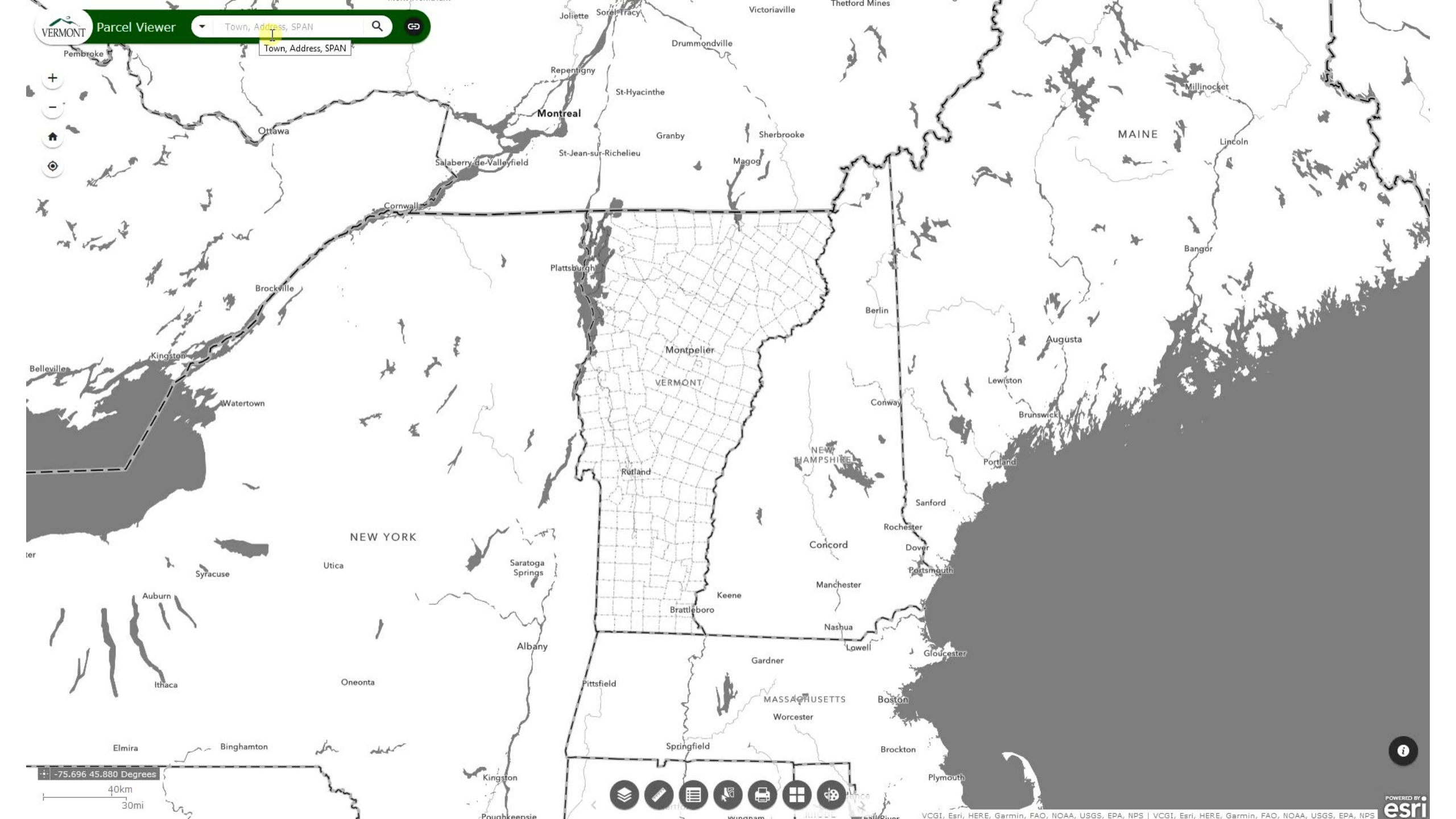
Parcel mapping in Vermont is undertaken and overseen by each municipality, who may perform annual map updates on their own or hire vendors to maintain. As part of the Parcel Program, VCGI coordinates the collection of the best available digital parcel data from municipalities and publishes them in a uniform GIS format joined with the Tax Department's annual grand list. VCGI also develops the data standards, templates, digital parcel mapping guidelines, and guidance resources by which Vermont digital GIS parcel data are organized and made publicly available.

The Parcel Program is an outgrowth of the Statewide Property Mapping Project which included a three-year (2017-2019) funded effort to create or update digital GIS parcel data for all of Vermont's municipalities. The Project successfully completed that work in December 2019, resulting in a freely available GIS layer for all Vermont municipalities joined with their annual grand list via a parcel's unique School Property Account

Program Info:
vcgi.vermont.gov

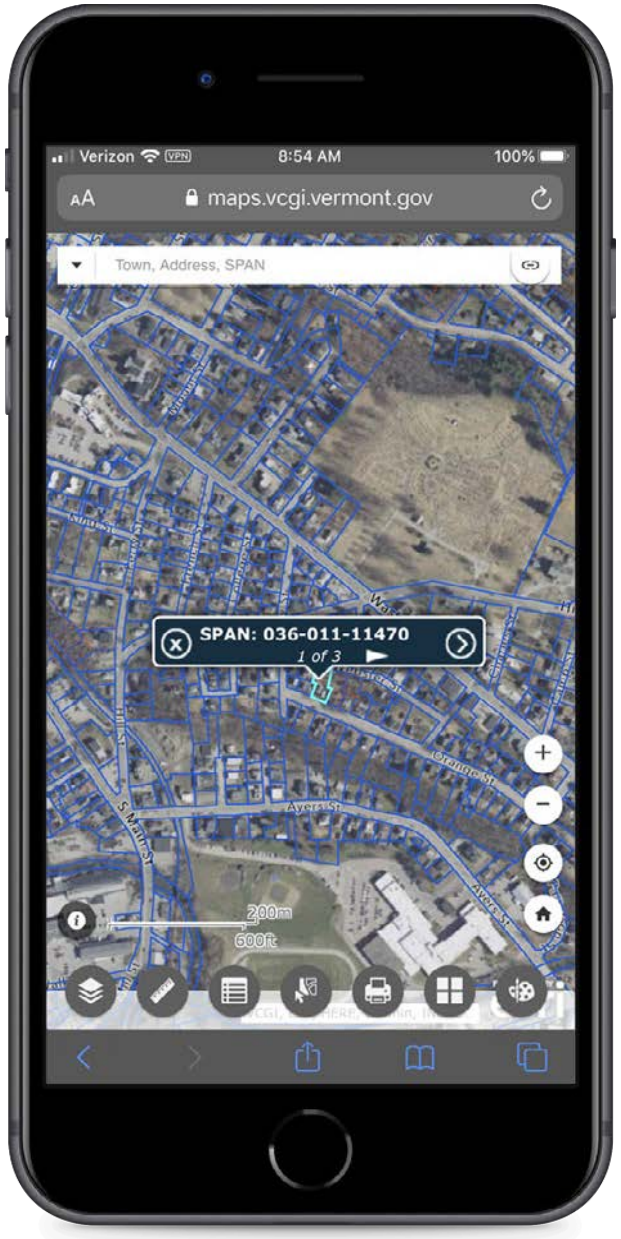
Map Applications

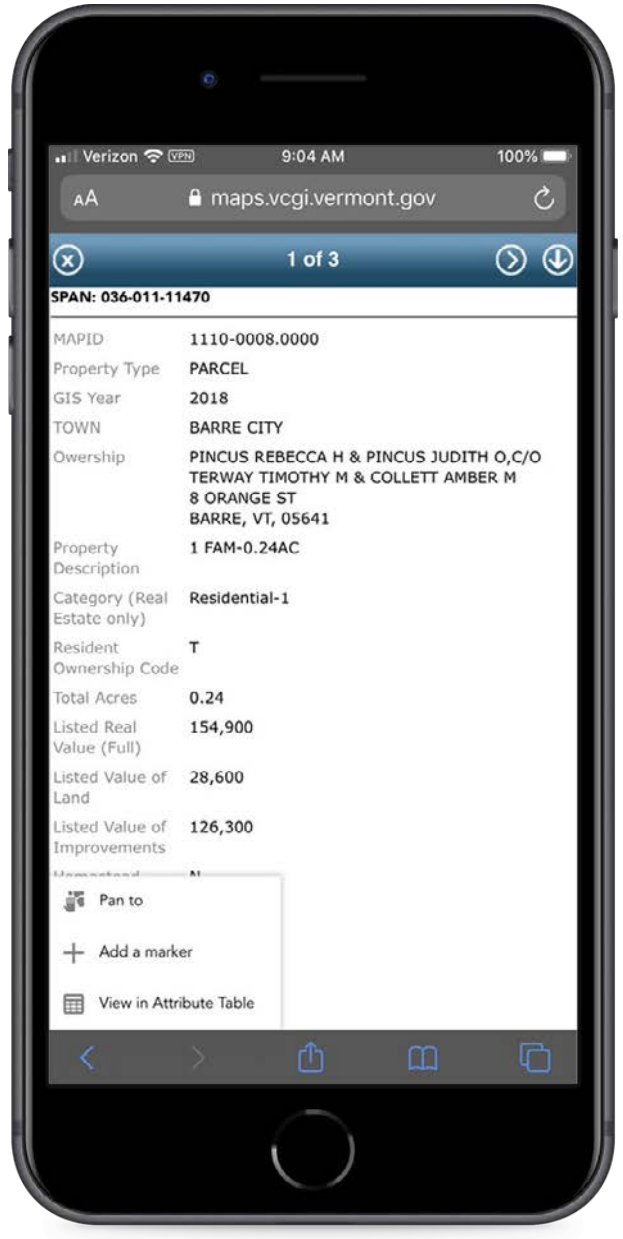
- Vermont Interactive Map Viewer
- Vermont Parcel Viewer
- Available Municipal Parcel Data
- Vermont Orthoimagery Finder
- Vermont Orthoimagery Status
- Vermont Lidar Finder
- Vermont Lidar Status

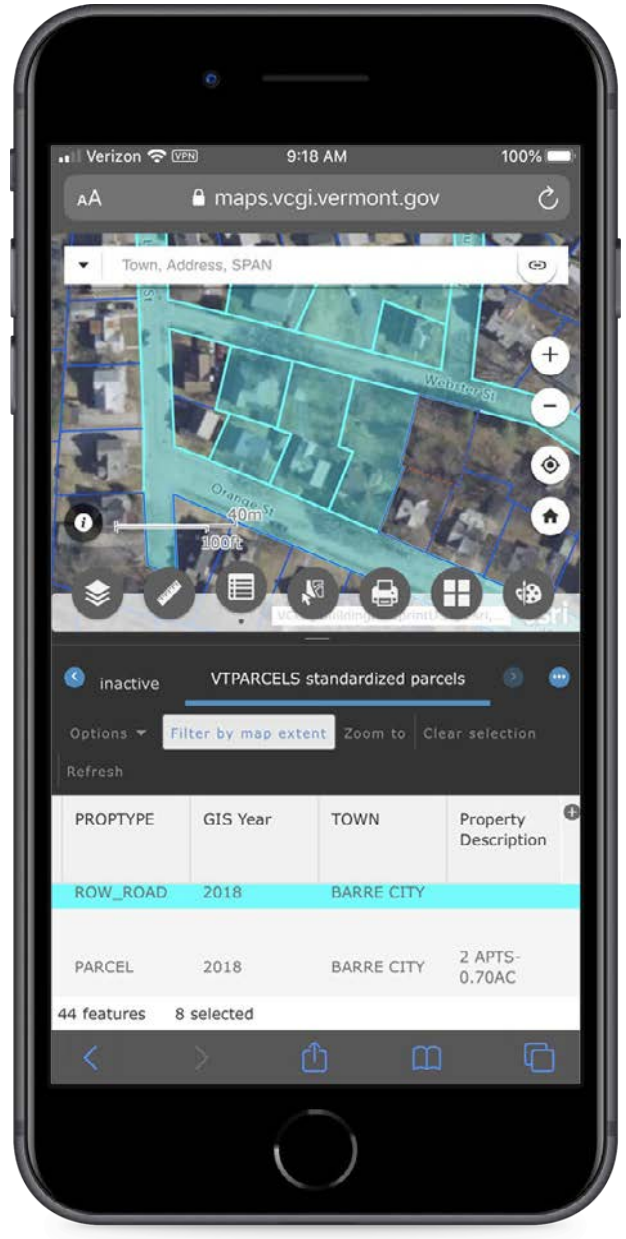

VERMONT
Parcel Viewer
Town, Address, SPAN
Town, Address, SPAN
Pembroke
Joliette
Sorel-Tracy
Victoriaville
Thetford Mines
Drummondville
Repentigny
St-Hyacinthe
Millinocket
Montreal
Ottawa
Granby
Sherbrooke
MAINE
Lincoln
St-Jean-sur-Richelieu
Salaberry-de-Valleyfield
Magog
Cornwall
Bangor
Plattsburgh
Brockville
Berlin
Montpelier
VERMONT
Augusta
Belleville
Kingston
Lewiston
Watertown
Conway
Brunswick
NEW HAMPSHIRE
Portland
Rutland
Sanford
Rochester
NEW YORK
Concord
Dover
Utica
Portsmouth
Saratoga Springs
Syracuse
Manchester
Auburn
Keene
Brattleboro
Nashua
Albany
Lowell
Gloucester
Gardner
Ithaca
Oneonta
Pittsfield
MASSACHUSETTS
Boston
Worcester
Elmira
Binghamton
Springfield
Brockton
Kingston
Plymouth
Poughkeepsie
-75.696 45.880 Degrees
40km
30mi
POWERED BY esri
VCGI, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS | VCGI, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

SELECT ABUTTING PARCELS, VIEW ATTRIBUTES

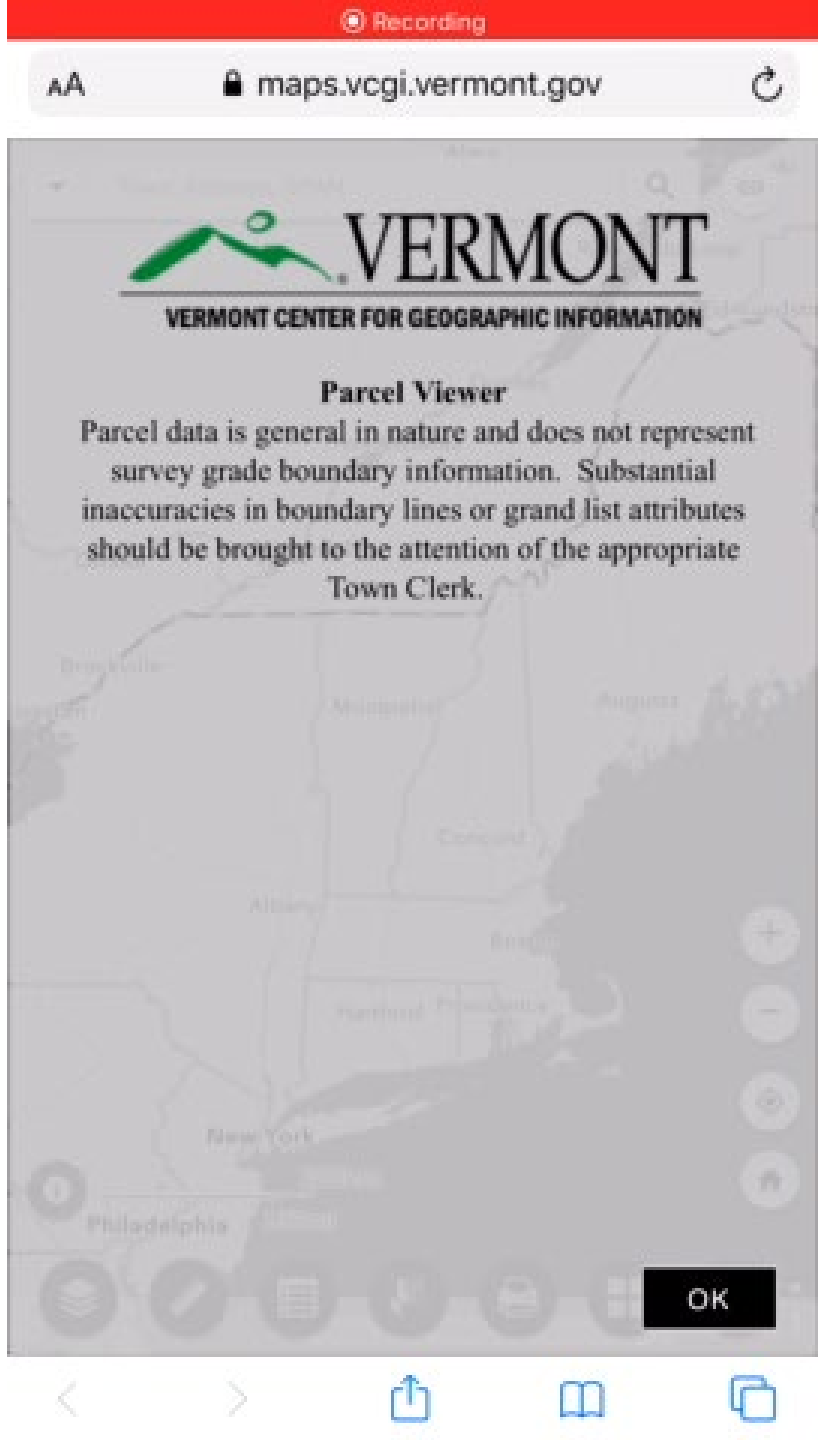
VIEWER FUNCTIONS





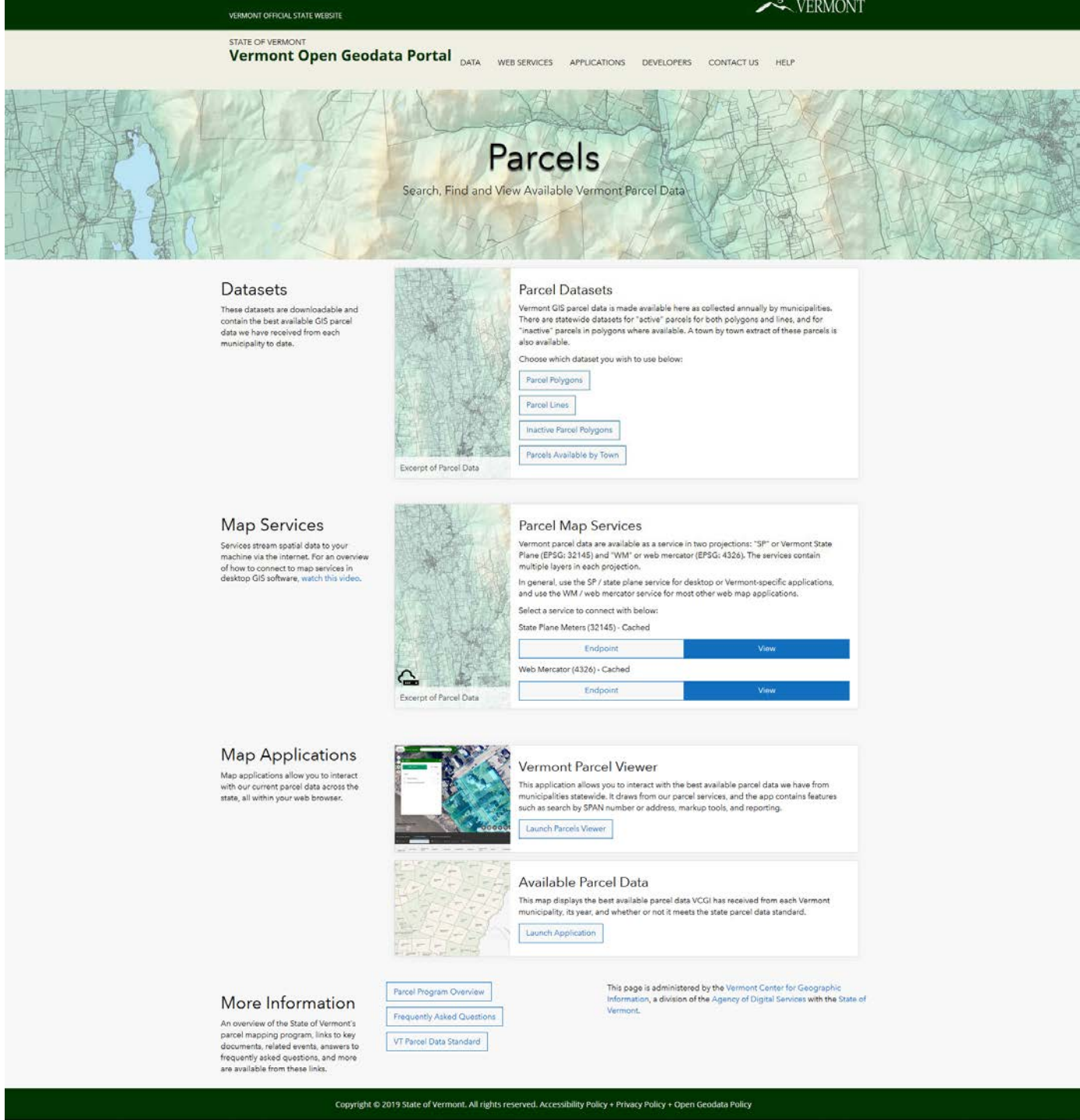


VCGI


Recording
AA
maps.vcgi.vermont.gov
VERMONT
VERMONT CENTER FOR GEOGRAPHIC INFORMATION
Parcel Viewer
Parcel data is general in nature and does not represent survey grade boundary information. Substantial inaccuracies in boundary lines or grand list attributes should be brought to the attention of the appropriate Town Clerk.
OK

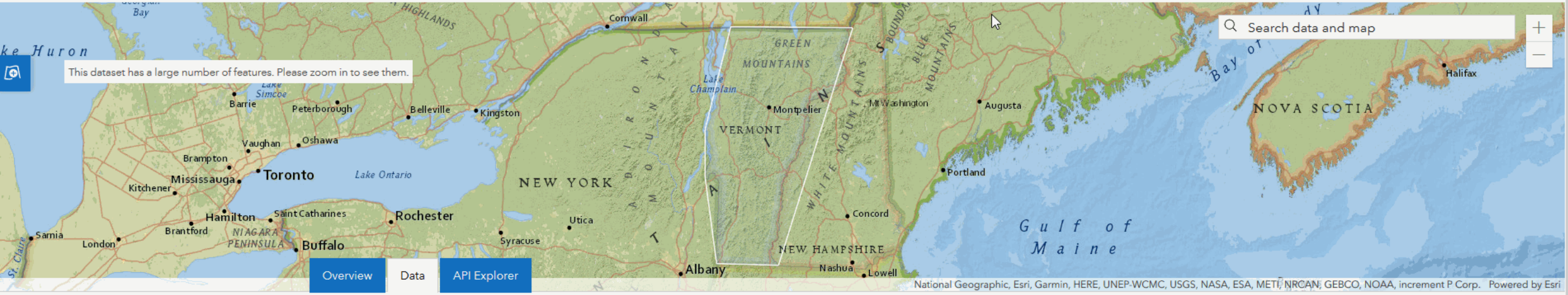
geodata.vermont.gov/pages/parcels

Where parcel data lives



VT Data - Statewide Standardized Parcel Data - parcel polygons

Last updated 9 months ago | 335,538 Records



5/30/2019 Feature Layer Custom License

Download APIs

Showing 1 to 10 of 335,538

Hint: Filter columns using

OBJECTID	GIS SPAN	Grand List SPAN	MAPID	Parcel ID	PROPTYPE	GIS Year	Grand List Year	TOWN	Gr
6836106					PARCEL	2017		ALBURGH	
6836107					WATER	2017		ALBURGH	
6836108					PARCEL	2017		ALBURGH	
6836109					PARCEL	2017		ALBURGH	
6836110					PARCEL	2017		ALBURGH	

Parcel Upkeep: Summary

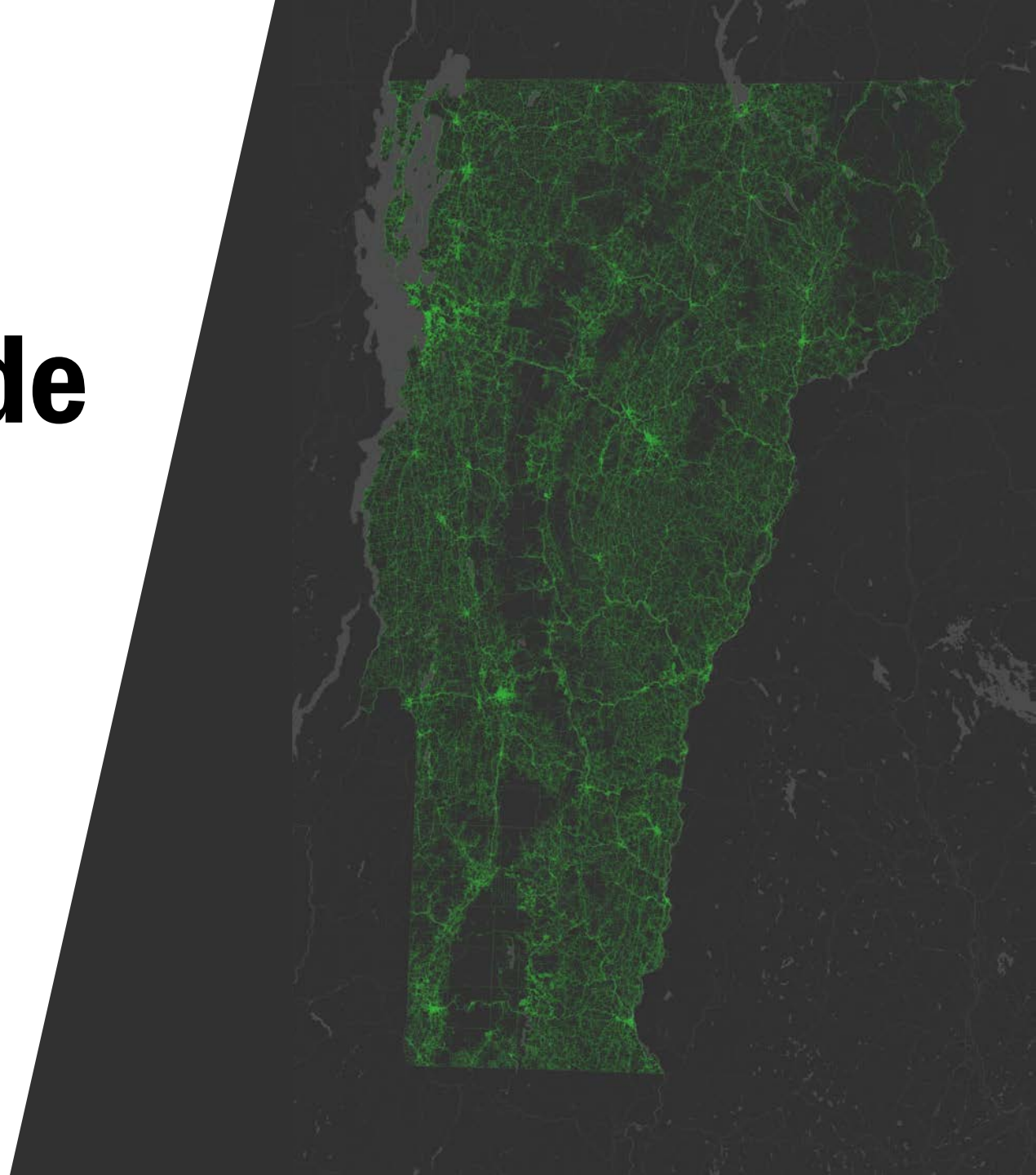
- Consistency of message of what parcel data is & is not (our teams, towns)
- 2020 & beyond Workflow:
  - Vendors / Creators directly to VCGI
  - Survey library backup for periodic VCGI upkeep
  - Staying in touch with creators & town reps
- Content: SPAN is most important
- Expectations: Some variability in current-ness, quality, coverage to resume post-project w/o direct payment; we'll do the best we can
- Future variables: Tax Dept., new property info. mgmt. system
- Use and promote current & future applications
- Maintaining info about towns' parcel mapping plans is important: let us know what you know!
- Overall: keeping in touch, making case for maintained, up to date GIS data

VERMONT

VERMONT CENTER FOR GEOGRAPHIC INFORMATION

Vermont's Statewide Parcel Program

Vermont's Most-Used GIS Data



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Southern Vermont Economy Project | 09.25.2020