



ORTHOPHOTOGRAPHY ACQUISITION

2/18/2022

John E. Adams, VCGI Director

Agency of Digital Services

Senate Committee on Corrections & Institutions



VERMONT CENTER FOR GEOGRAPHIC INFORMATION

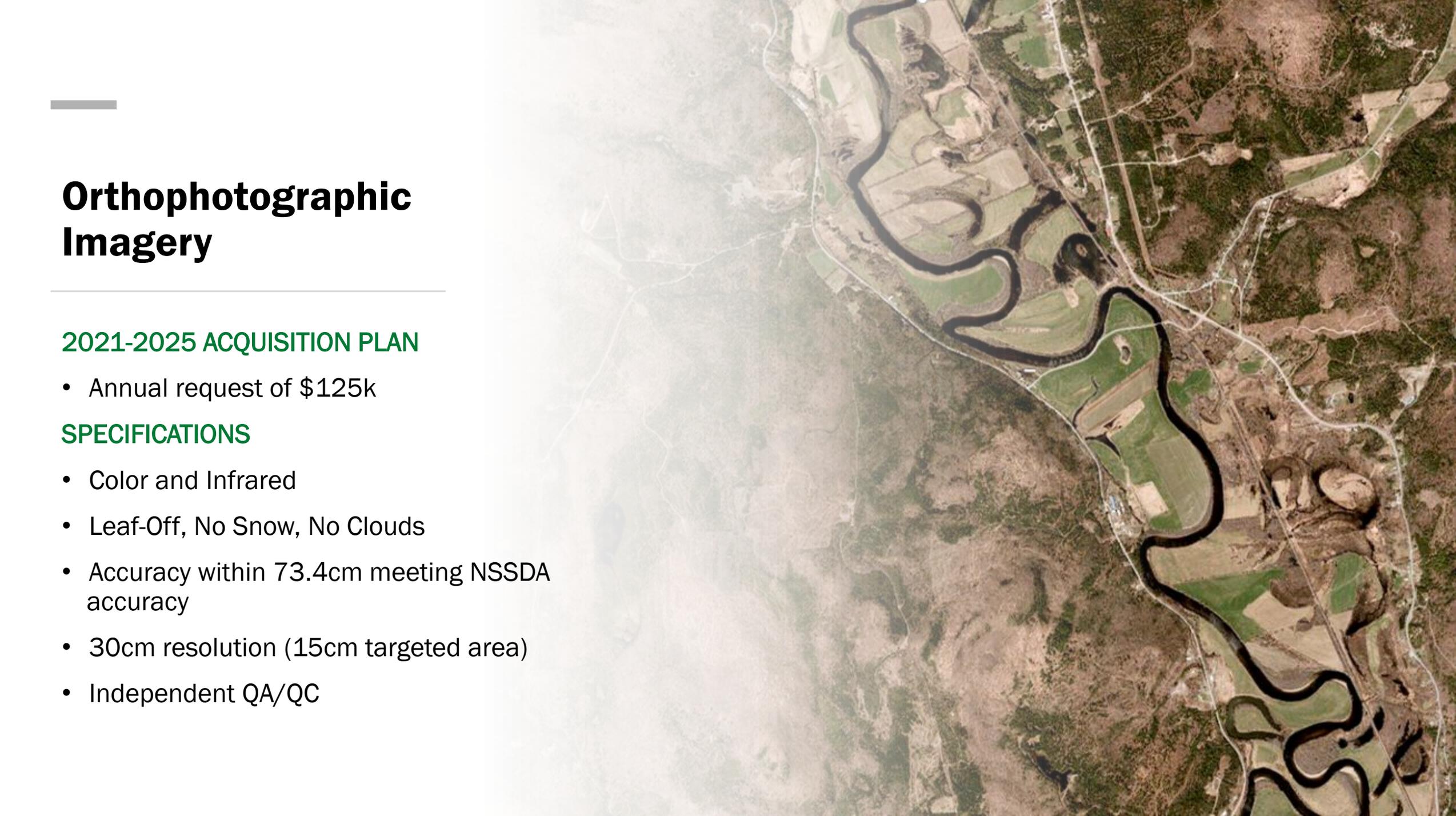


VERMONT CENTER FOR GEOGRAPHIC INFORMATION



Orthophotographic Imagery

An orthophoto is an aerial photograph or geometrically corrected ("orthorectified") such that the scale is uniform: the photo or image follows a given map projection. Unlike an uncorrected aerial photograph, an orthophoto can be used to measure true distances, because it is an accurate representation of the Earth's surface, having been adjusted for topographic relief, lens distortion, and camera tilt.



Orthophotographic Imagery

2021-2025 ACQUISITION PLAN

- Annual request of \$125k

SPECIFICATIONS

- Color and Infrared
- Leaf-Off, No Snow, No Clouds
- Accuracy within 73.4cm meeting NSSDA accuracy
- 30cm resolution (15cm targeted area)
- Independent QA/QC

History of Orthophotos in Vermont

1974
Orthophotographs

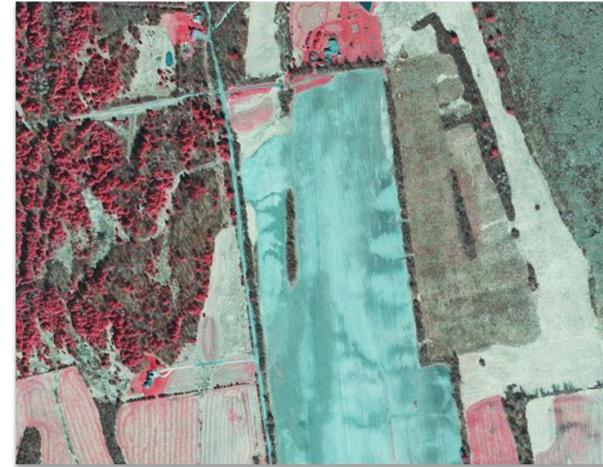


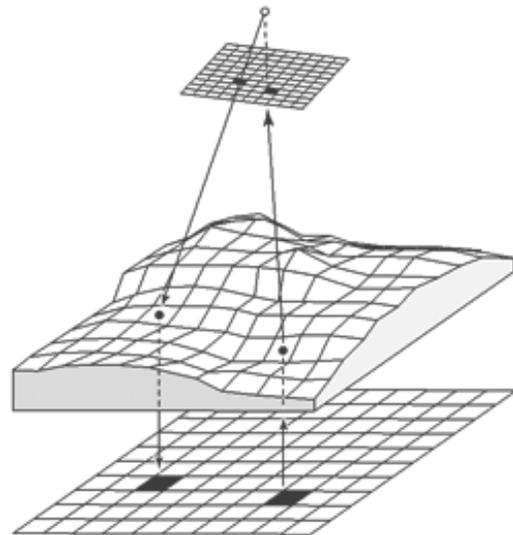
Figure 2 - Color Infrared showing bare earth

2016
VCGI Officially
takes over duties
from Tax Dept

2011
Color Infrared

1994
Digital
Orthophotos

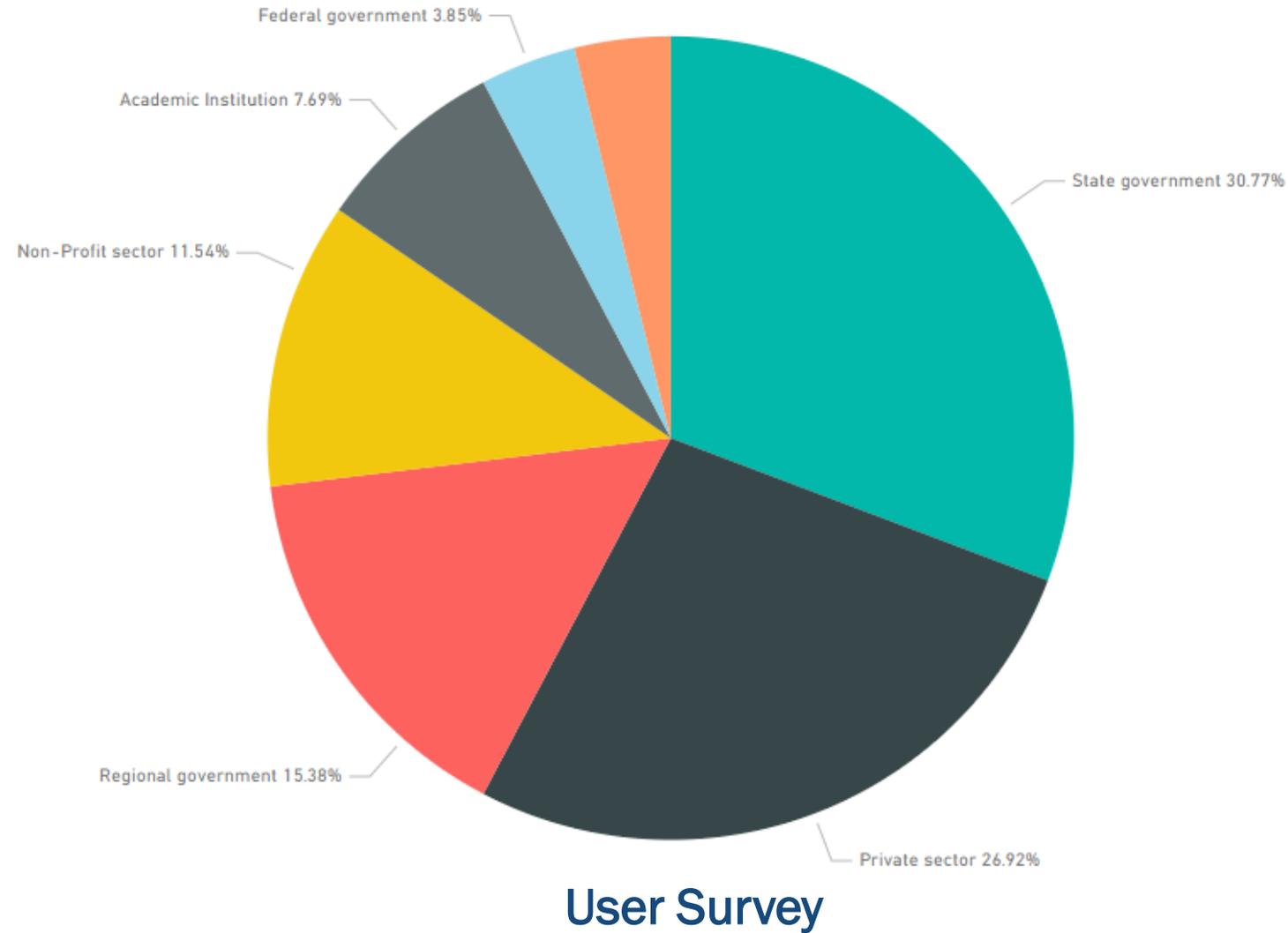
1968
Vermont Mapping
Program



Orthophotography Workgroup

Members

- Steve Sharp - VCGI
- Erik Engstrom - ANR
- Johnathan Croft + Brad Herring - VTrans
- Jeremy McMullen + Tyler Hermanson - E911
- Pam Brangan - VADPA/Regional Planning Commissions
- Jarlath O'Neil-Dunne (UVM)
- Bill Hegman (Middlebury)
- Mark Day – Vermont Society of Land Surveyors



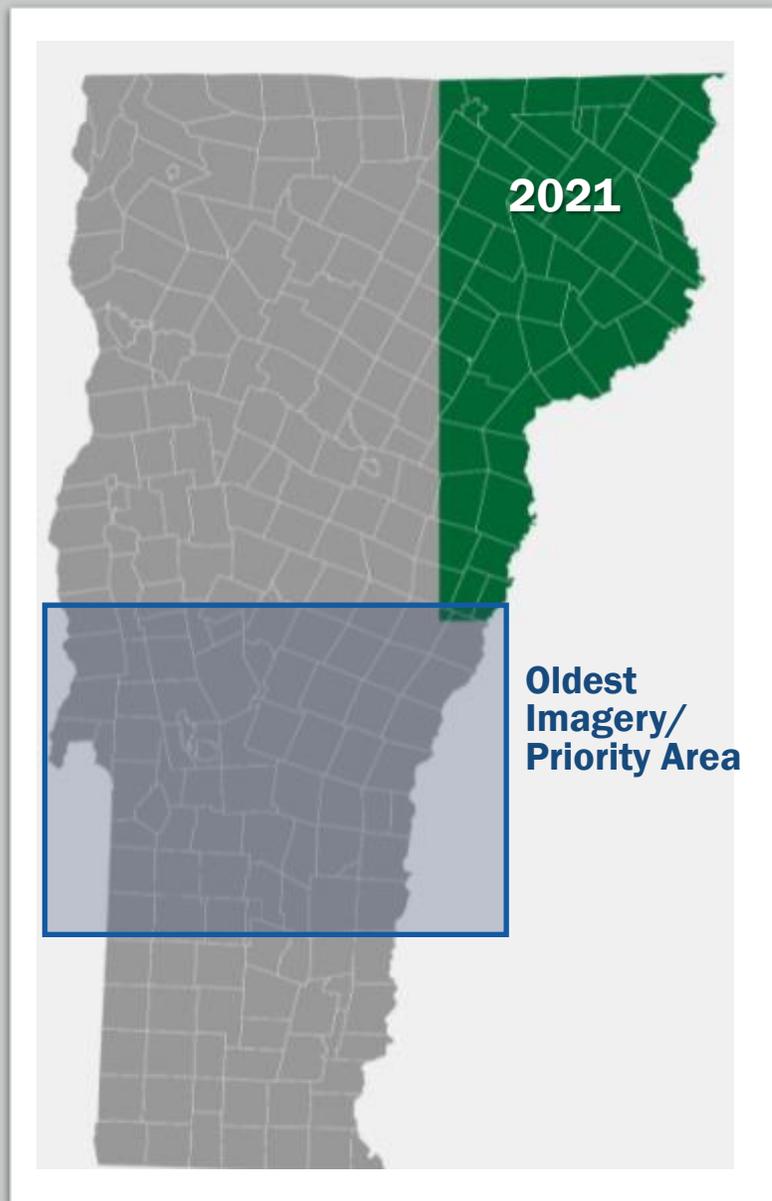


50cm resolution



15cm resolution





2021 Acquisition

2022?

Weather and ground conditions (snow/leaf-out/flooding) will determine what we can collect.

Availability and Users

AVAILABILITY

- Free for use by all (including commercial uses)
- Imagery available for download & web service
- Uncompressed available on hard drives

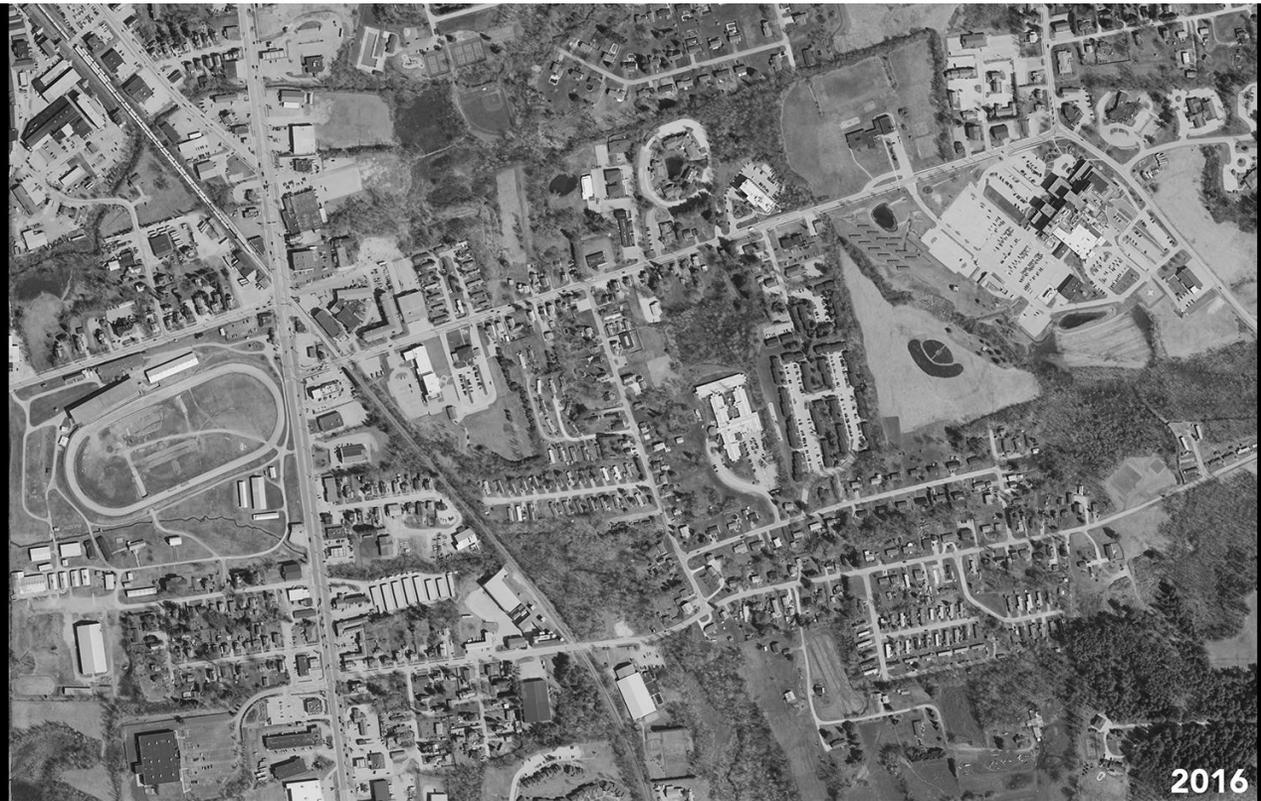
USERS

- State Agencies (AOT, DPS, Tax, ANR, AHS, E911, PSD, ACCD)
- Municipalities, RPCs and Federal Agencies
- Academia
- Private Sector (Engineers, Surveyors, Foresters, Attorneys, Landscape Architects Ecologists, and many more.)



[Download Imagery](#)

Historic Imagery



[Learn more & access 1962 imagery](#)

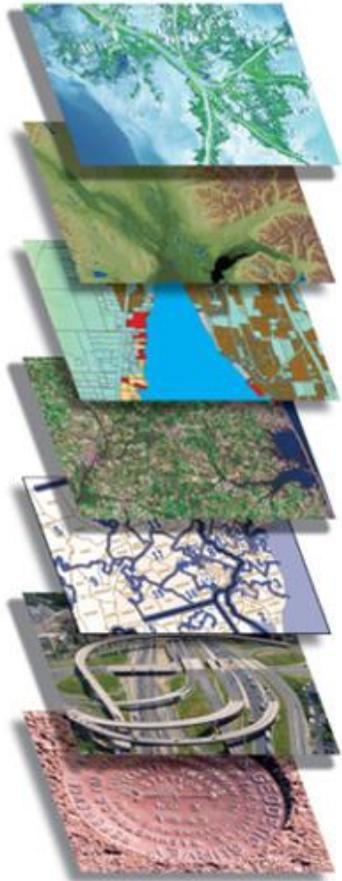


Historic Imagery

VCGI is working with VTrans and VSARA to scan historic aerial photos. The focus is currently on holdings held by VTrans, which includes statewide 1:20,000 scale photos from 1974. Work on this project is planned for this summer.



Spatial Data Infrastructure

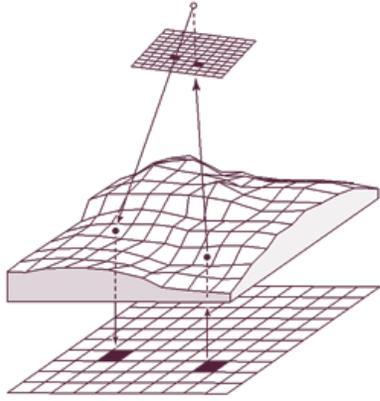


Elevation
Governmental Units
Cadastral (Parcels)
Land Cover
E911 Addresses
Transportation
Hydrography
Orthophotography

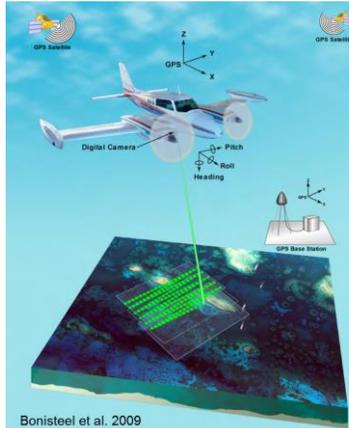
FGDC.GOV
FEDERAL GEOGRAPHIC DATA COMMITTEE



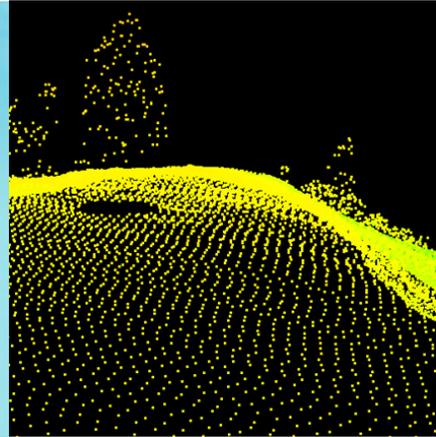
 **NSGIC**
National States Geographic Information Council



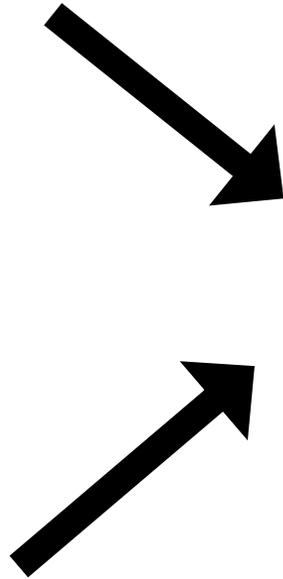
ORTHOIMAGERY



Bonisteel et al. 2009

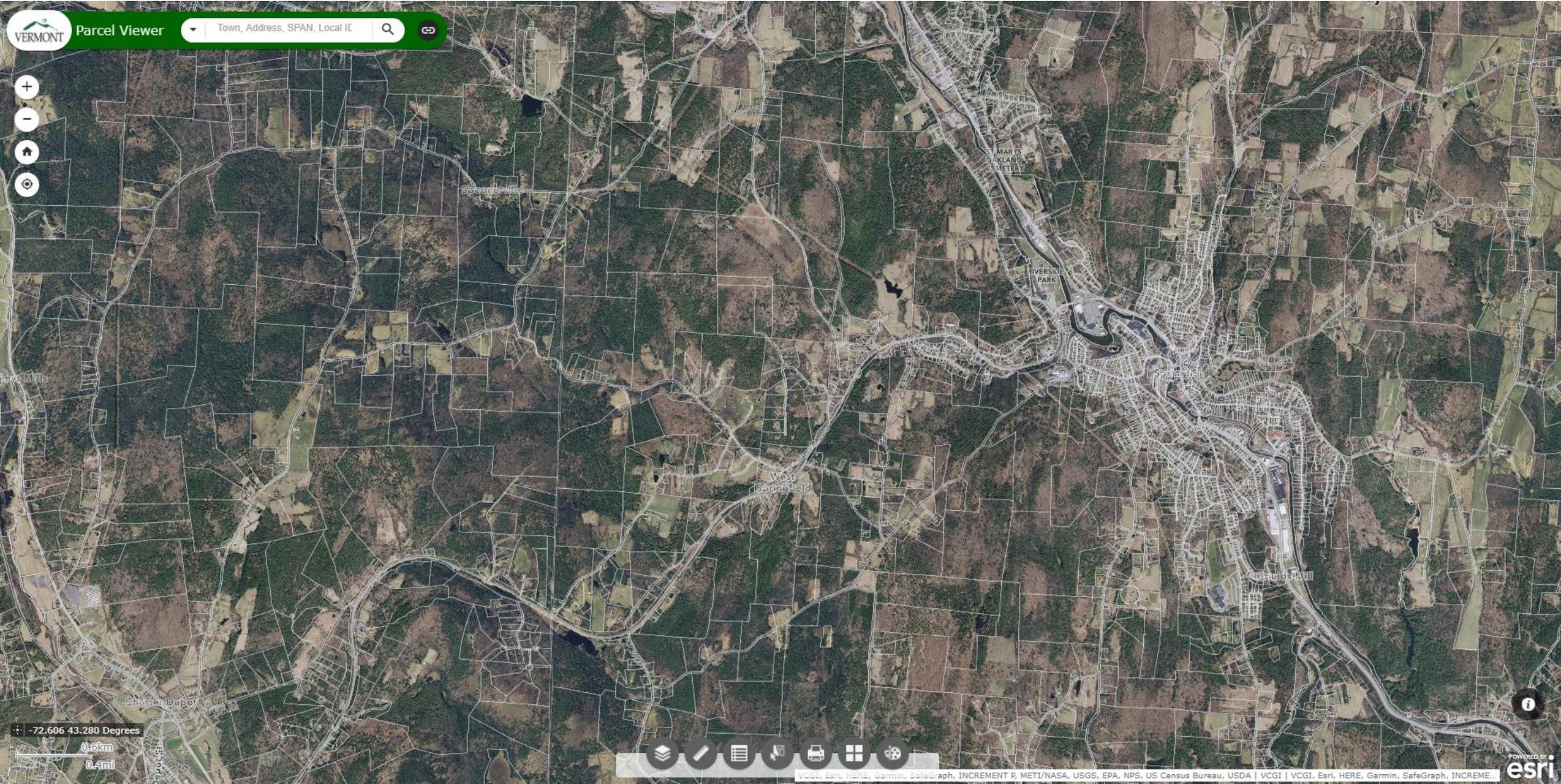


LIDAR



Land Cover

Access Parcel Viewer with Orthoimagery (zoom in to see imagery)



COVID-19: RESOURCES FOR TAXPAYERS

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[COVID-19 Resources](#)

Individuals

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[File an Extension](#)

[Paying Tax Owed](#)

School Property Account Number (SPAN) Finder

1 BALDWIN ST, MONTPELIER, VT, 05602



Results: 1

Multiple results may appear below, particularly for condominium properties. If this is the case, please review the list and identify your particular unit. Please contact your landlord if you can't find your unit.

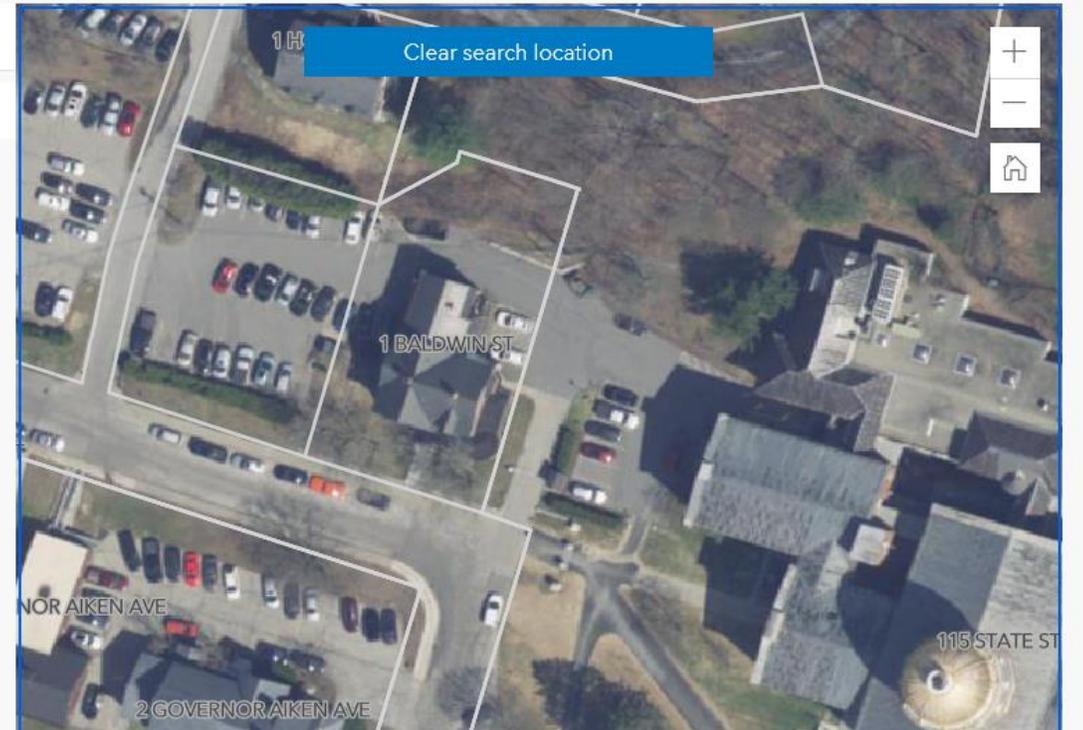
Property Information

1

1 BALDWIN ST, MONTPELIER

SPAN: 405-126-13202

DESCRIPTION: 0.27 AC & OFFICE BLDG



Learn More

- [2021 GIS Year in Review](#)
- [Interactive Map Viewer](#)
- [Tax Parcel Data Viewer](#)
- [Census: High Cost of a Low Count](#)
- [Historic Imagery](#)
- [Download Imagery](#)
- vcgi.vermont.gov

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