

Portal Content: Lidar Detail

Anatomy of an Open Data Item, Raster Content

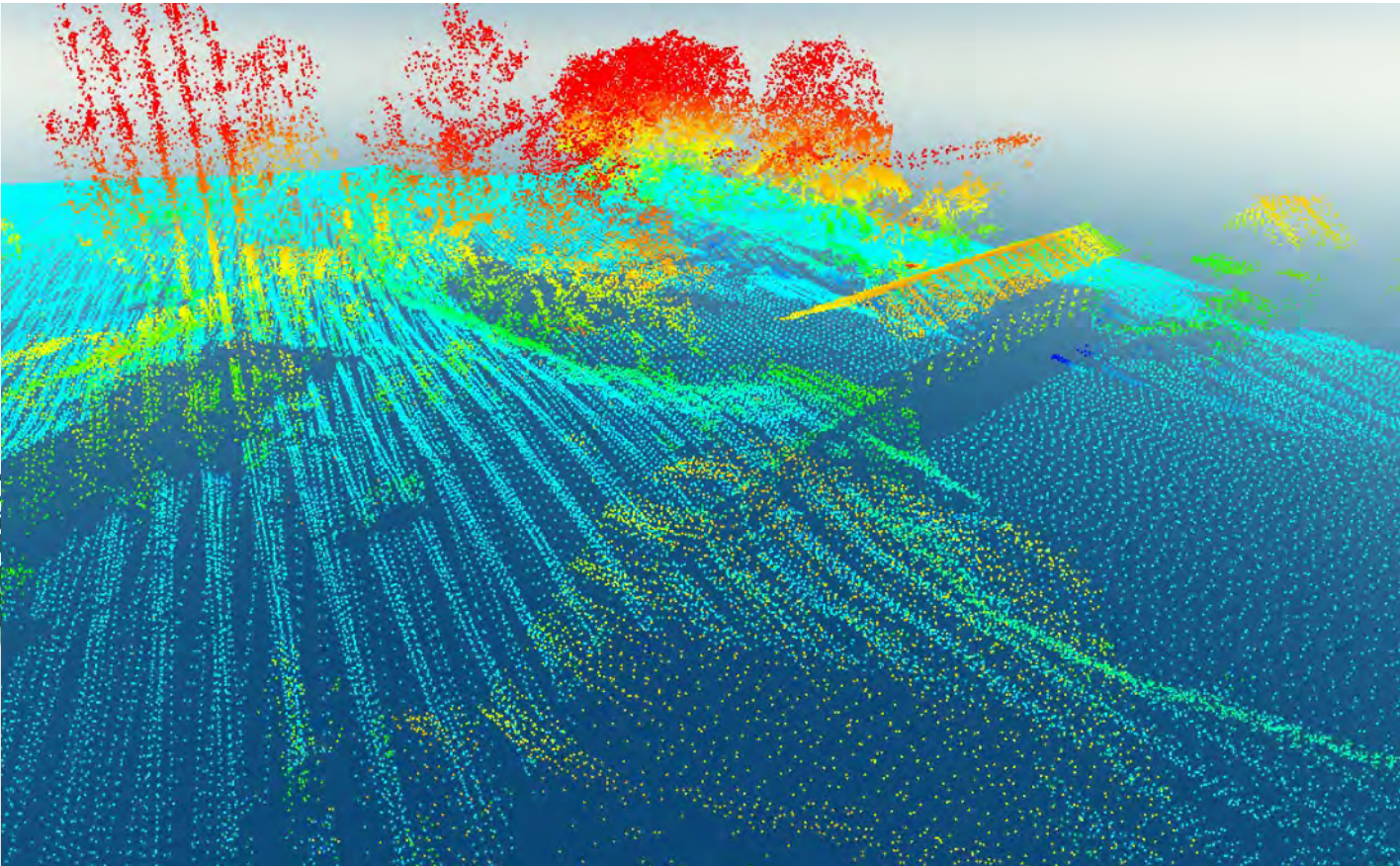
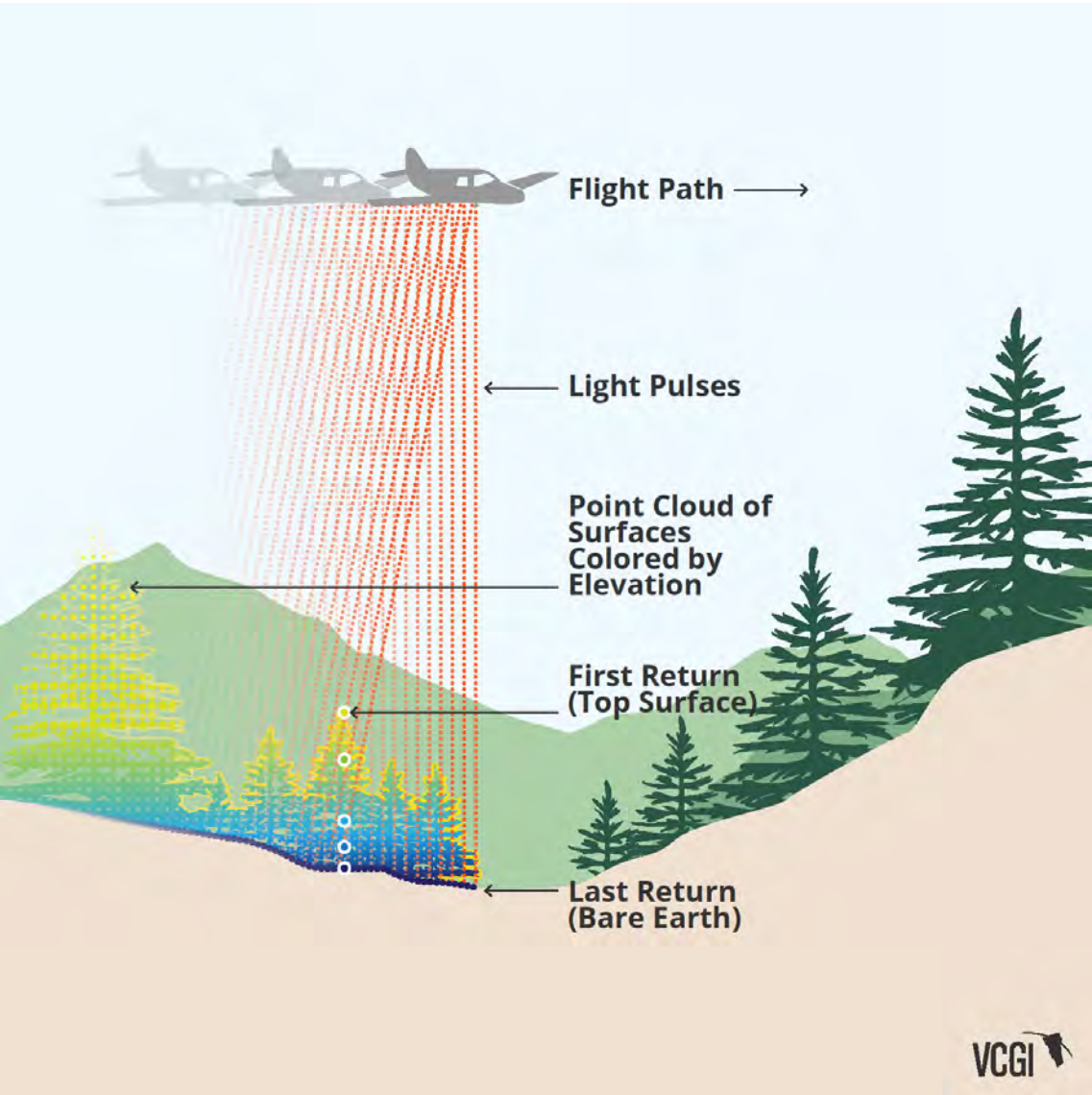


What is Lidar?

Point clouds
Derivatives
Resolution



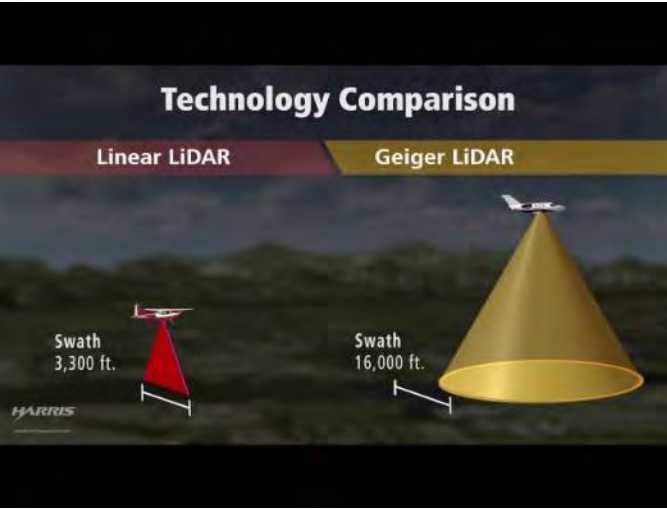
Shooting lasers at the Earth. Getting points in return. Making useful data products from them.

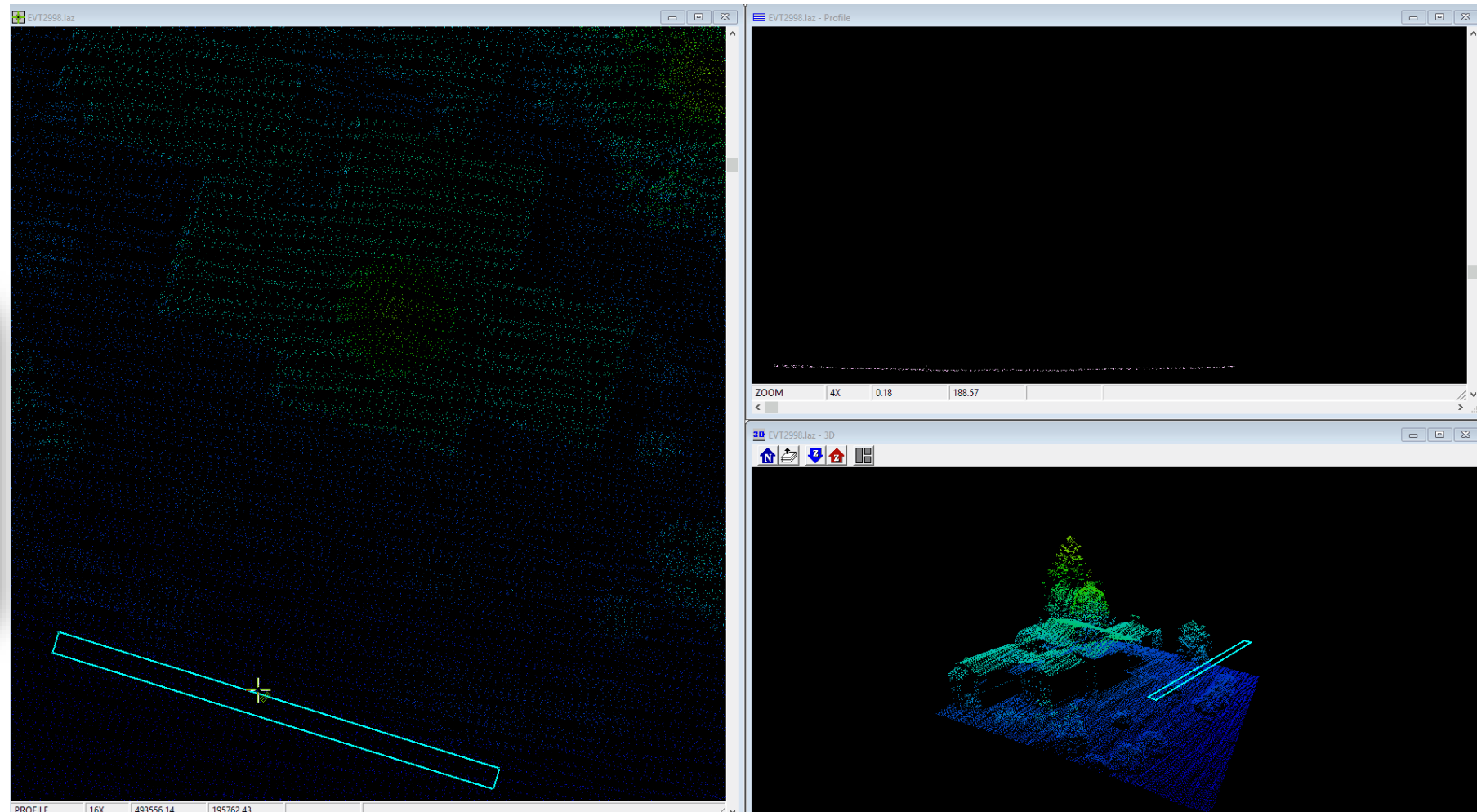
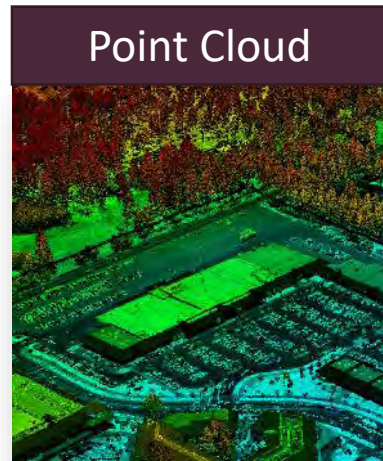


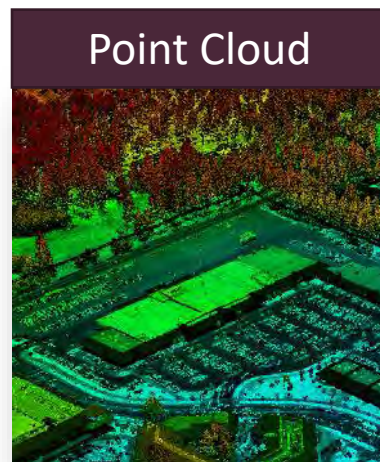
Quality Levels	Data Source	Horizontal Resolution	Vertical Accuracy	
		Point Density	RMSEz in Open Terrain	Equivalent Contour Accuracy
QL 1	LiDAR	8 points/m ²	9.25 cm	1 foot
QL 2	LiDAR	2 points/m ²	9.25 cm	1 foot

AT-A-GLANCE COMPARISON OF GEOSPATIAL SOLUTIONS BASED ON SIZE OF PROJECT

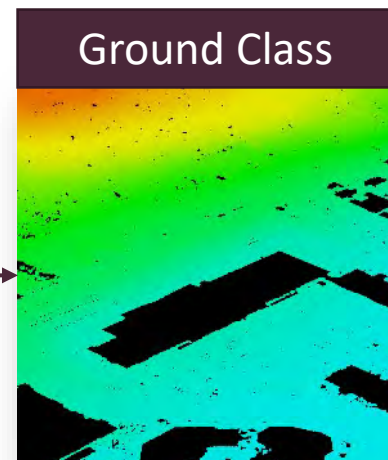
						
	SATELLITE Imagery	FIXED-WING LiDAR/Imagery	HELICOPTER LiDAR/Imagery	UAS LiDAR/Imagery	MOBILE LiDAR/Imagery	STATIC LiDAR
Large Regional Mapping (i.e. Country)	Best	✓				
Medium Regional Mapping (i.e. Large City or County)	✓	Best	✓			
Large Site (500+ Acres)		✓	✓	Best		
Medium Site (100-500 Acres)		✓	✓	Best		✓
Small Site (<100 Acres)				Best		✓
Large Corridors (20+ Miles)		✓	Best Off-Road	✓	Best Roadway	
Medium Corridors (1-20 Miles)		✓	✓	Best Off-Road	Best Roadway	✓
Small Corridors (<1 Mile)				Best	✓	✓
Remote Sites		✓	✓	Best		
Structural (i.e. Bridges, Dams, etc)				✓	✓	Best
Indoor (i.e. Mechanical, Architectural)						Best

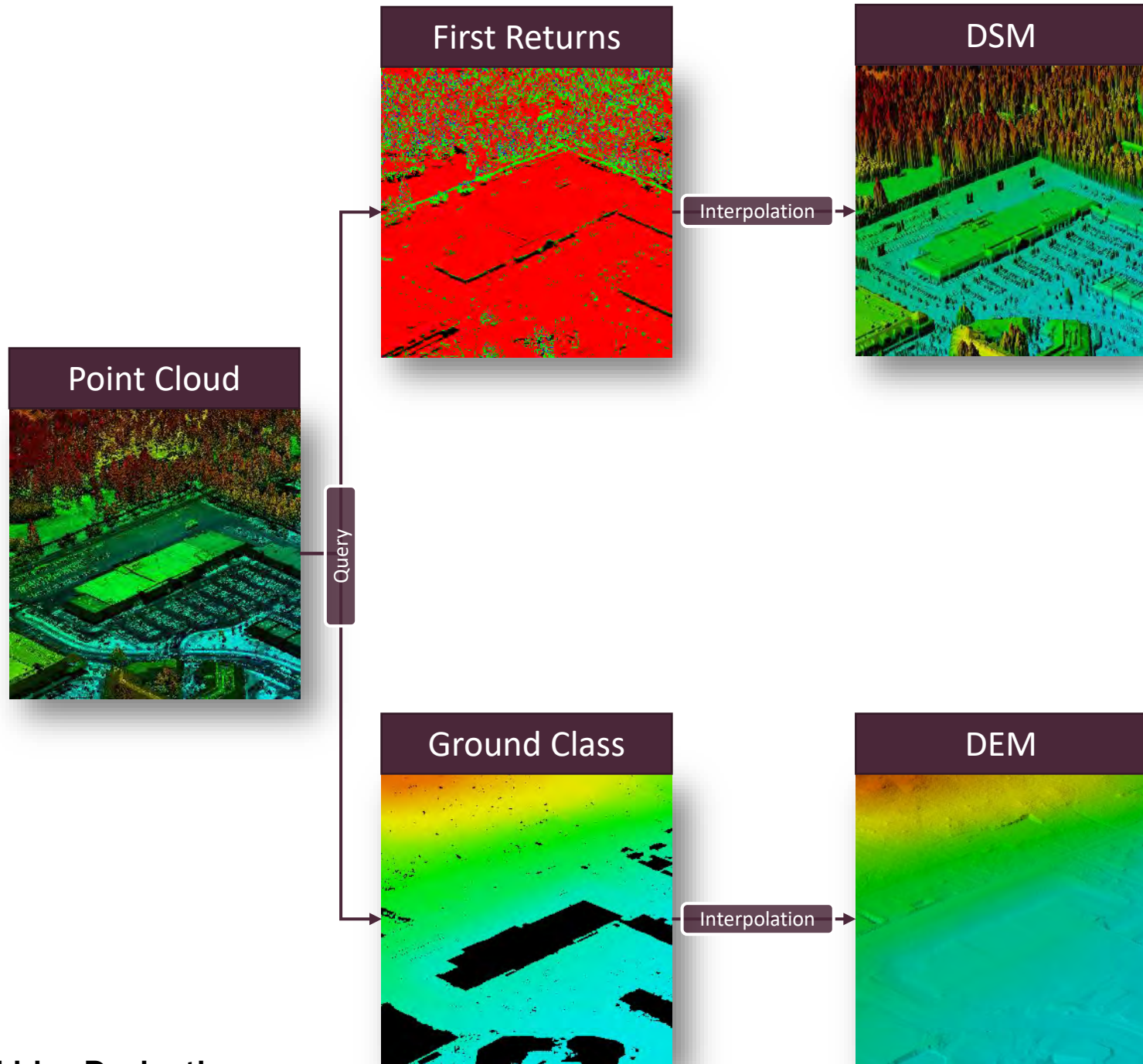


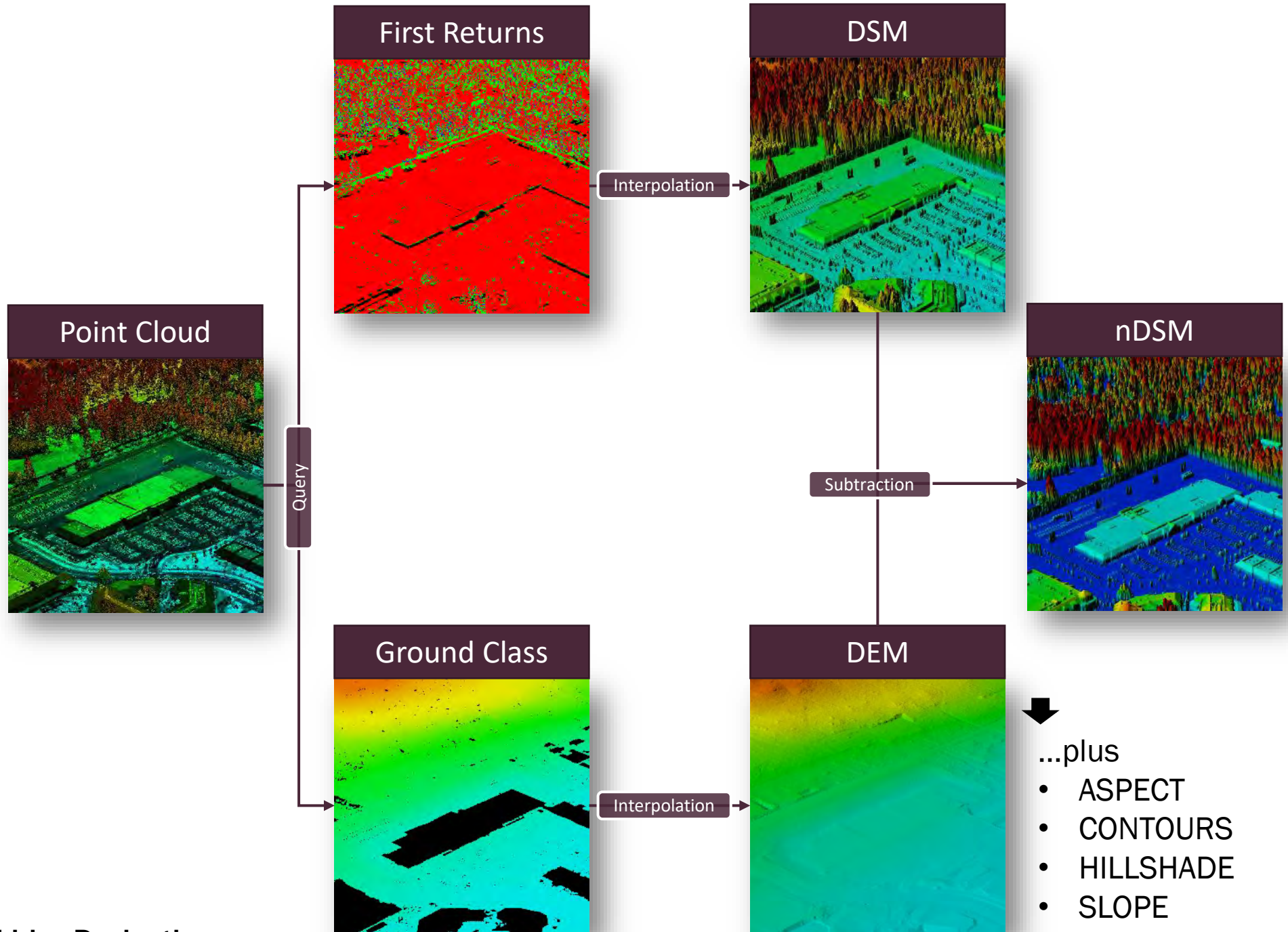




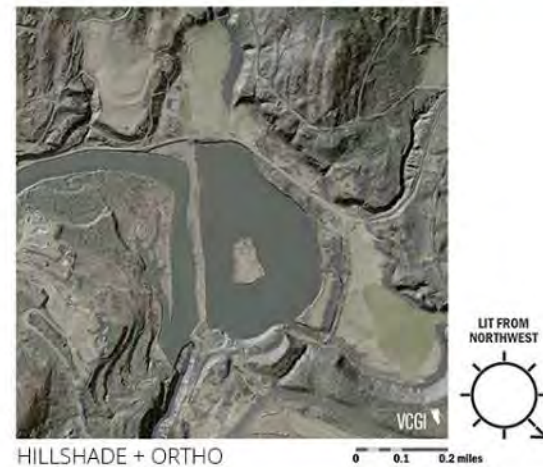
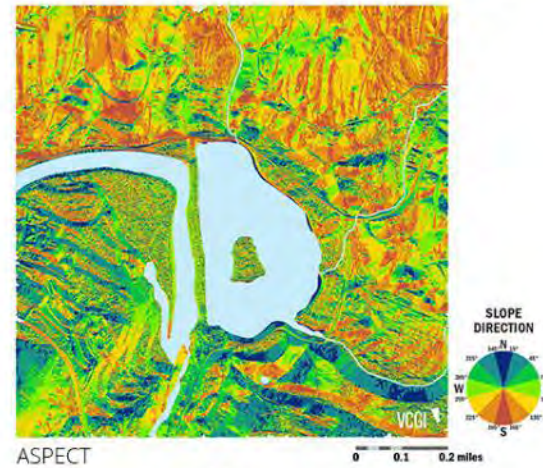
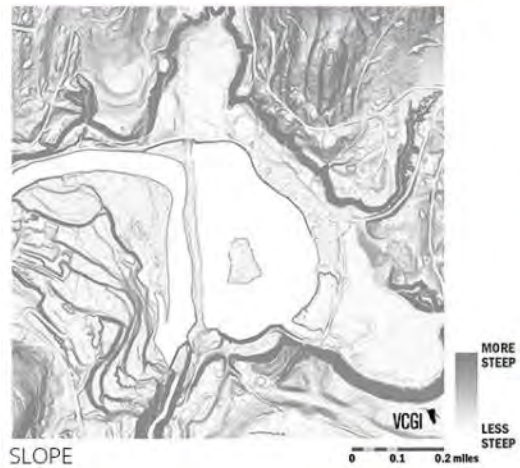
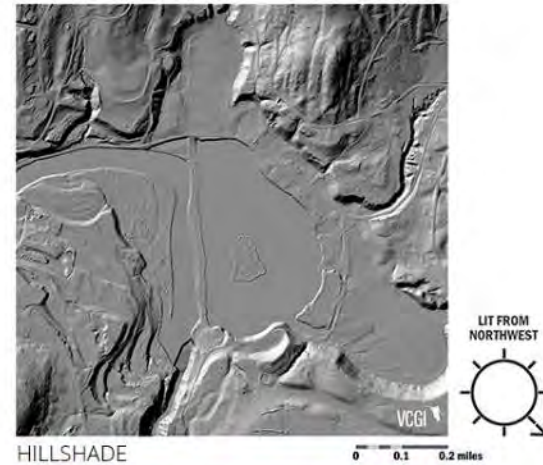
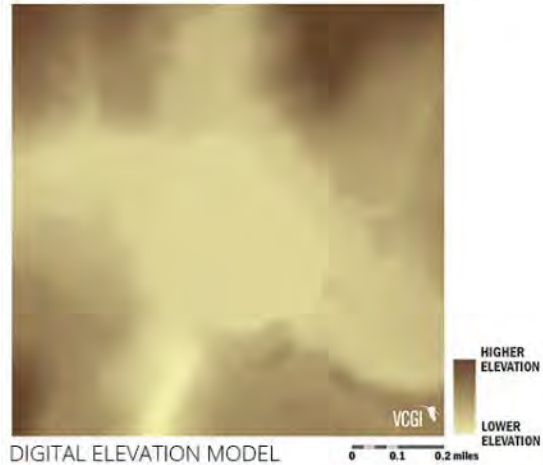
Query







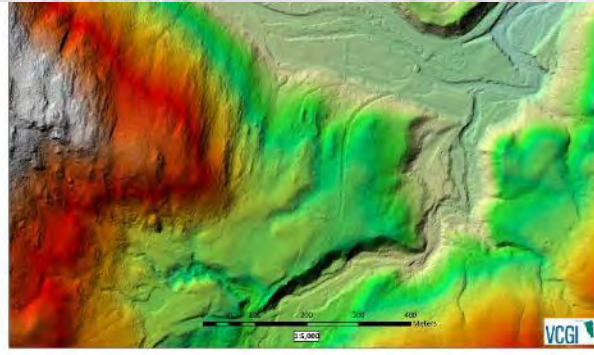
- ...plus
- ASPECT
 - CONTOURS
 - HILLSHADE
 - SLOPE



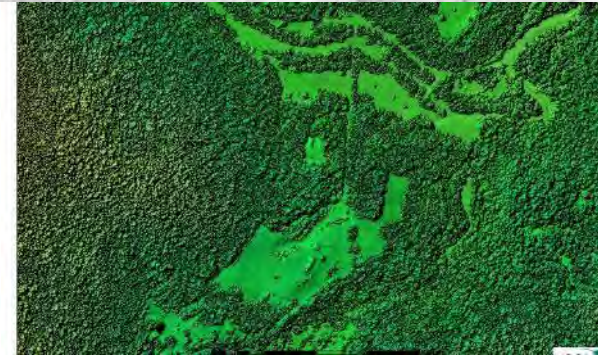
ONE LOCATION, MANY PRODUCTS



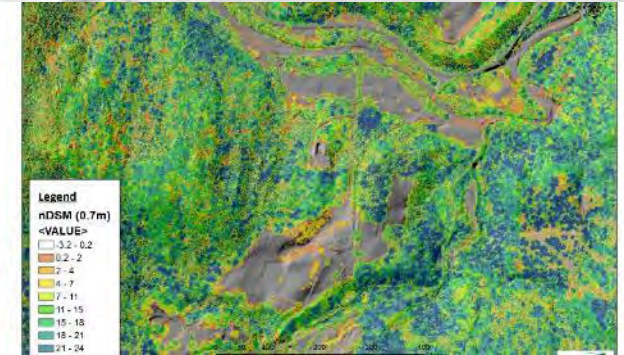
MARLBORO, VT



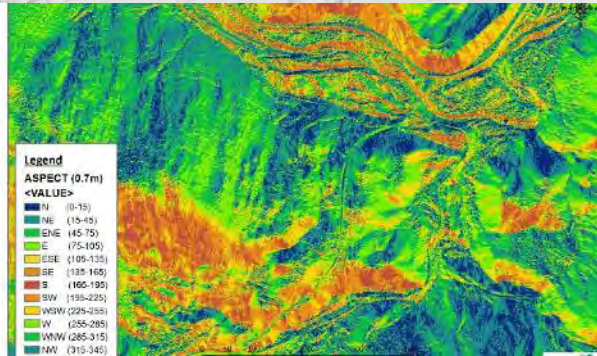
**DIGITAL ELEVATION
MODEL (DEM)**



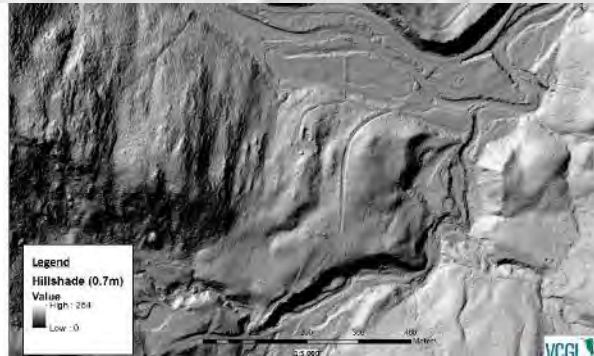
**DIGITAL SURFACE
MODEL (DSM)**



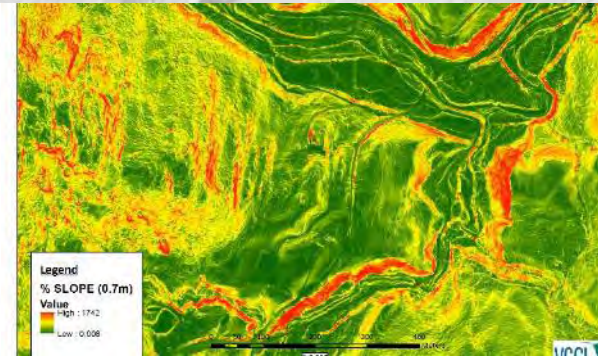
**NORMALIZED DSM
(nDSM)**



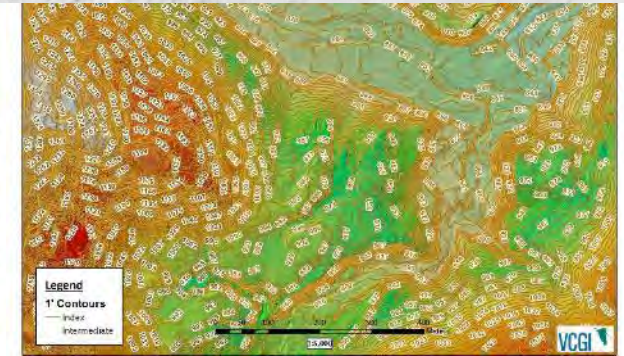
ASPECT (AZIMUTH)



**“BARE EARTH”
HILLSHADE**



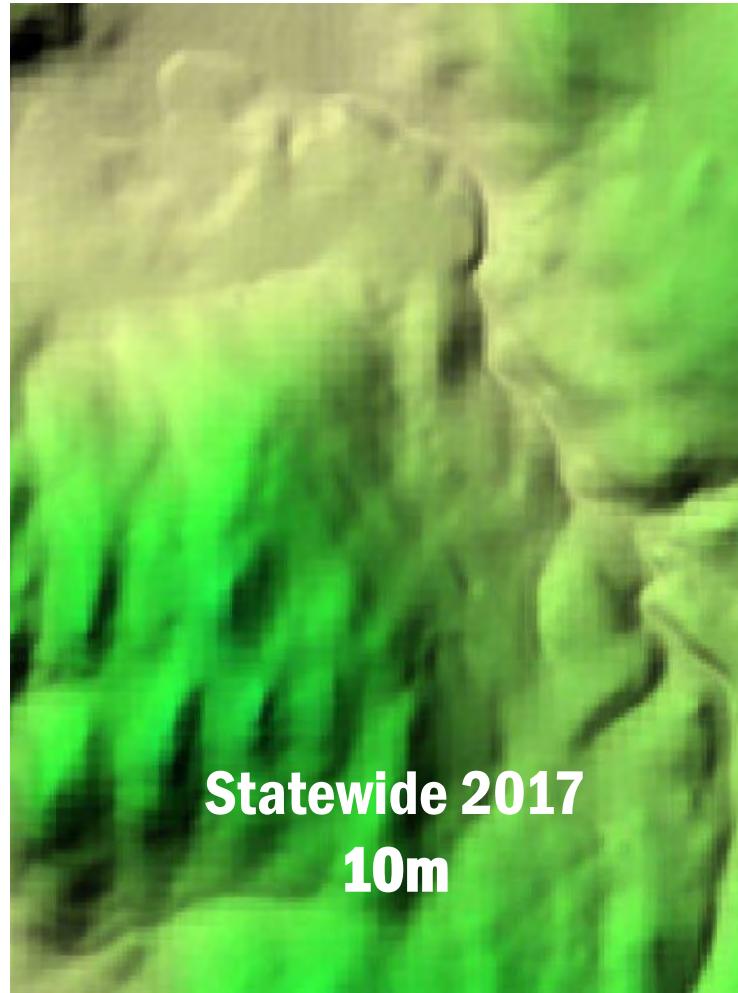
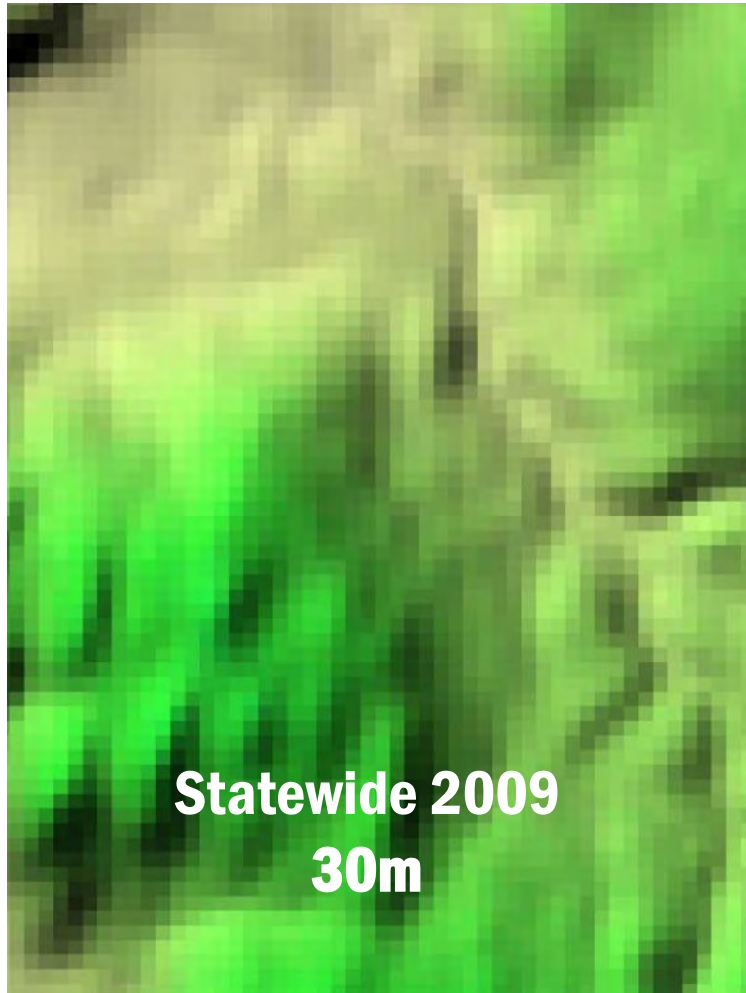
SLOPE



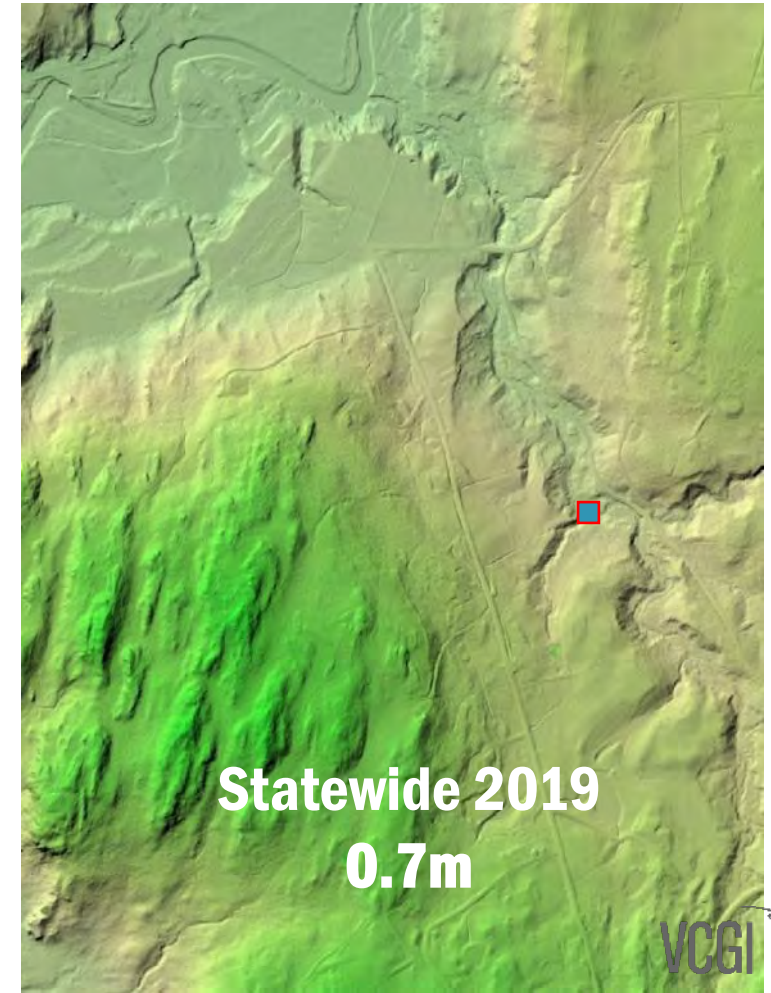
1 FOOT CONTOURS

Understanding Lidar Resolution

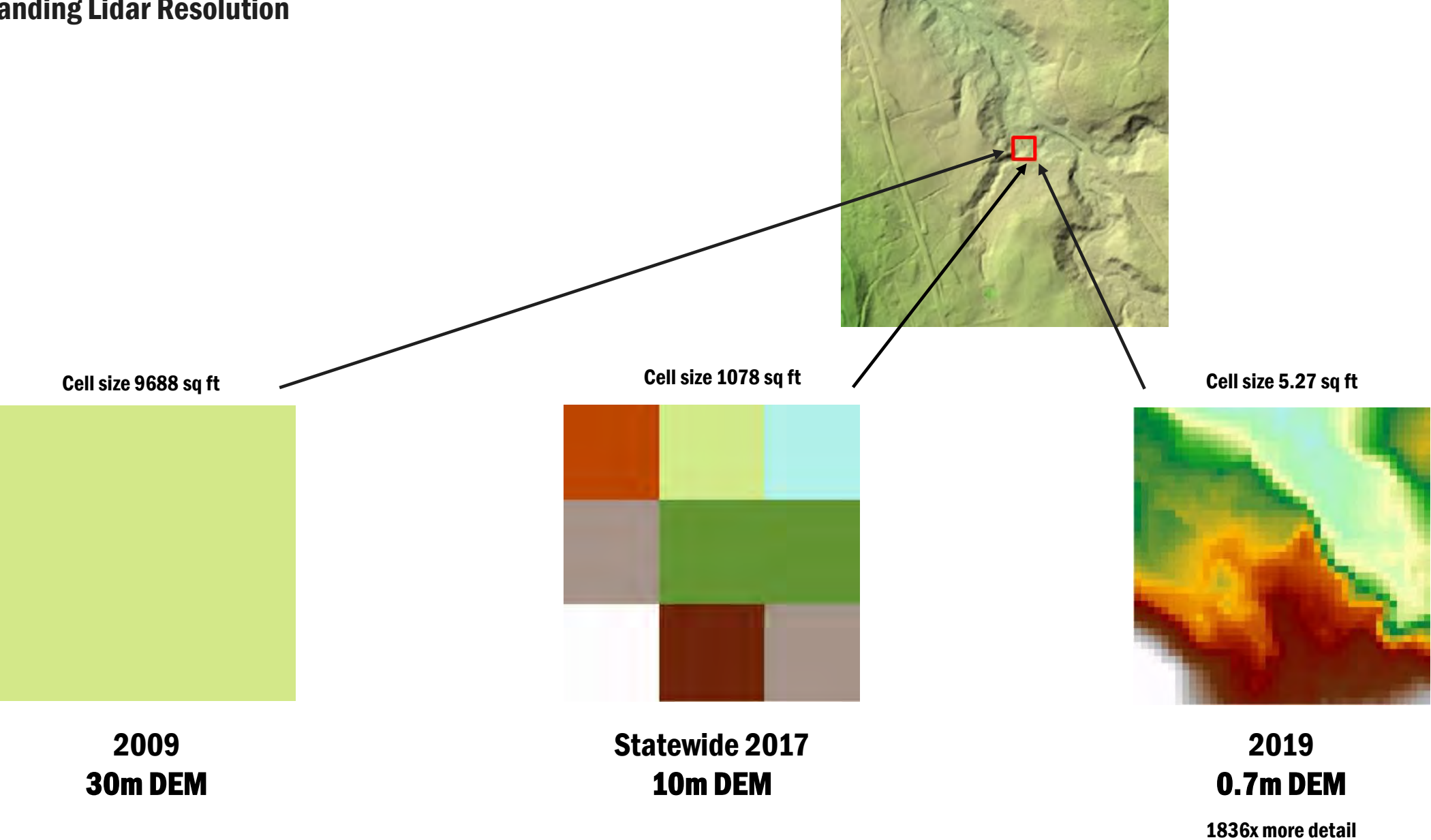
National Elevation Dataset: Reported vertical accuracy= 8 ft.



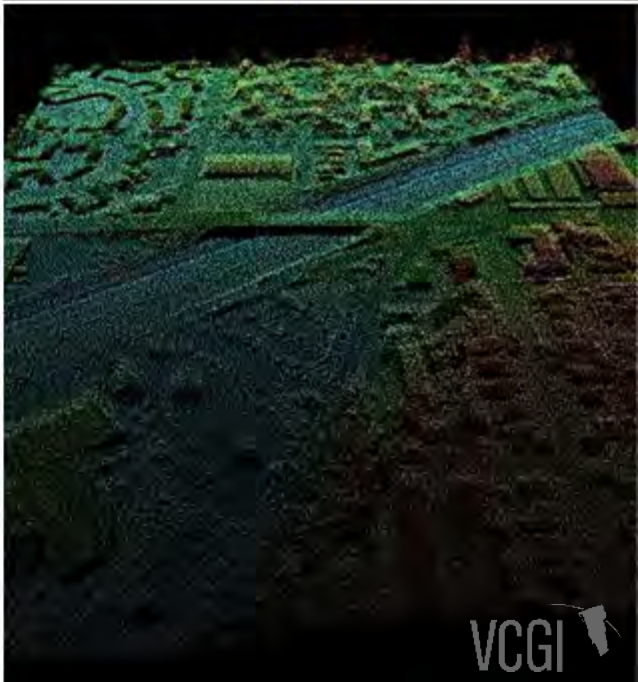
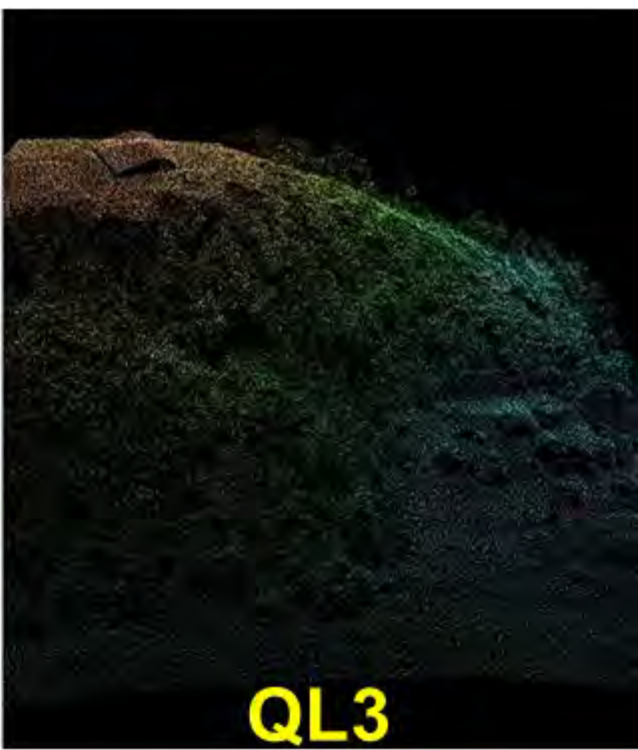
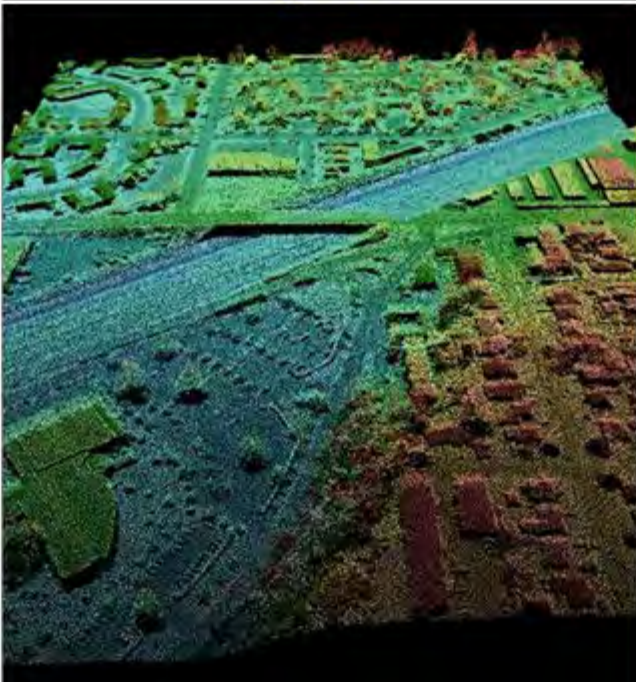
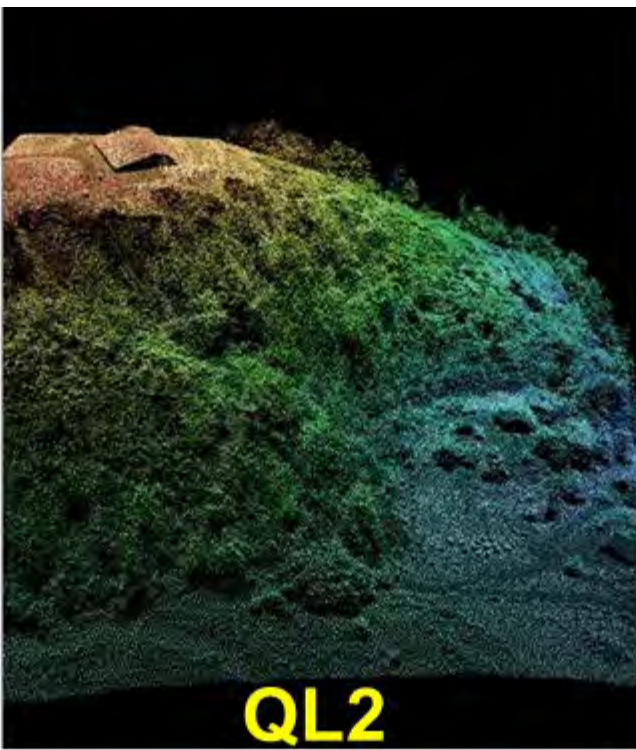
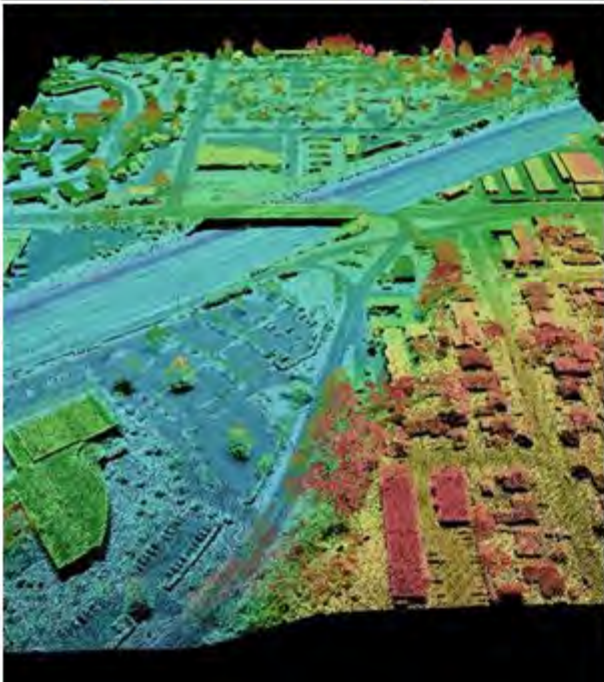
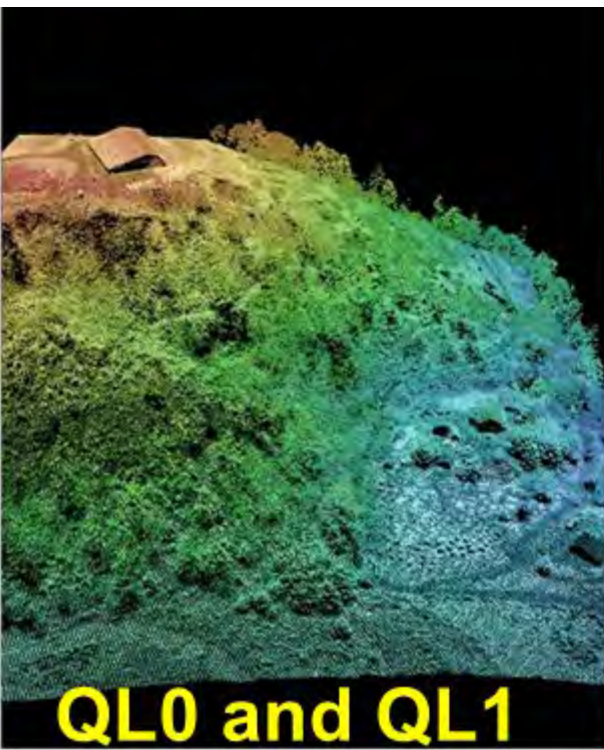
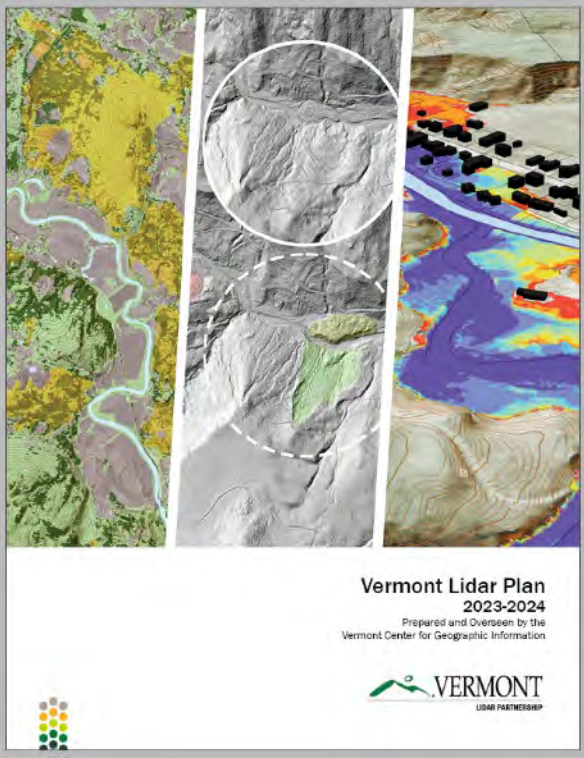
LIDAR QL2: Vertical accuracy= 3.6 in.



Understanding Lidar Resolution



Understanding Lidar
Resolution:
What's Next?



Right Image: USGS

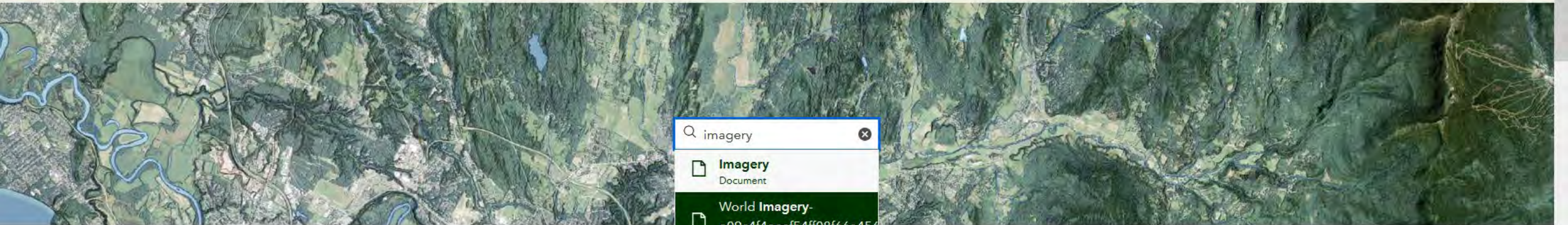
Portal Pages

Imagery, Elevation, Parcels, Land Cover, etc.

STATE OF VERMONT

Vermont Open Geodata Portal

DATA WEB SERVICES APPLICATIONS DEVELOPERS CONTACT US HELP



Imagery
Document

World Imagery-
e09c4f4eeaf54ff08f66a456
Other

Search: near for location



Agriculture



Basemap



Boundaries



Climate



Demographic +
Economic



Elevation



Environment



Geologic + Soils



Health + Public Safety



Imagery



Imagery

Search, View, Download and Stream Georeferenced Vermont Orthoimagery

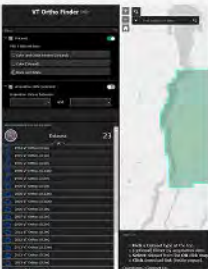
Datasets Services Applications More Information

Datasets

Download Georeferenced Orthoimagery

Imagery datasets are downloadable and contain the available georeferenced orthoimagery we have collected statewide to date.

Use the [Orthoimagery Finder](#) to search by map, navigate the extent of current acquisitions ([coverage overview map](#)), or select from all acquisitions in the data catalog table below.



Vermont Orthoimagery Finder

The Ortho Finder allows you to search, view, and download the georeferenced orthoimagery we have available statewide through a map interface. Available imagery is searchable by type (color, color infrared, black and white), year, and extent. Popups include links to download individual tiles from each collection, or batch download an entire collection as a .zip (caution: large file size).

[Launch Ortho Finder](#)

Search in table

Page 1 of 8

Year	Imagery	Type	Resolution	Tile Download Tool	Download Bundled Zip	Metadata
2021	2021 - NAIP Color Infrared Imagery - Statewide (0.6m)	Color, Color Infrared	0.6M	Download	71.6Gb	Metadata
2021	2021 - Color Infrared Imagery - Statewide (0.6m)	Color, Color Infrared	0.6M	Download	71.6Gb	Metadata



Elevation

Search, Find and Use Lidar-Derived Elevation Products

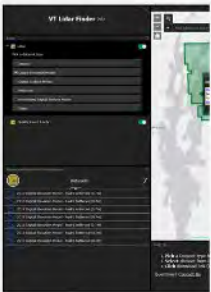
- [Datasets](#)
- [Services](#)
- [Applications](#)
- [Documentation](#)

Datasets

Download Lidar-Derived Elevation Products

Datasets are downloadable and contain the available georeferenced lidar-derived elevation products we have collected statewide to date.

Use the Lidar Finder to search lidar-derived elevation data by map, or select from all acquisitions in the data catalog table below.



Vermont Lidar Finder

The Lidar Finder allows you to search and download the available georeferenced lidar-derived elevation products we have collected statewide to date through a map interface. Available lidar products are searchable by type (e.g. aspect, digital elevation model, hillshade), quality level, year, and extent. Popups include links to download individual tiles from each type, or batch download an entire dataset as a .zip (caution: large file size).

[Launch Lidar Finder](#)

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Year	Product	Source	Resolution ▲	Quality Level	Description	Download	Metadata
2017	Digital Elevation Model	Lidar	0.7m	QL2	Digital Elevation Model - hydro flattened derived from 2017 lidar data	Download	Metadata
2017	Aspect	Lidar	0.7m	QL2	Aspect derived from 2017 lidar data	Download	Metadata



Datasets

These datasets are downloadable and contain the best available GIS parcel data we have received from each municipality to date.



Excerpt of Parcel Data

Parcel Datasets

Vermont GIS parcel data is made available here as typically collected annually by municipalities. There are statewide datasets for parcel polygons and "inactive" parcel polygons (where available). A town by town extract of parcels is also available.

Choose which dataset you wish to use below:

- Parcel Polygons
- Inactive Parcel Polygons
- Parcel Data Status by Town
- Parcels Available by Town

Map Services

Services stream spatial data to your machine via the internet. For an overview of how to connect to map services in desktop GIS software, [watch this video](#).



Excerpt of Parcel Data

Parcel Map Services

Vermont parcel data are available as a statewide, web mercator service in two ways: a feature service and an OGC web feature service or WFS. The services contain both the active and inactive parcel polygon layers.

Both service types contain the same content and are updated at the same time.

Select a service to connect with below:

- Web Mercator - Not Cached
 - Endpoint
 - Overview
- Web Mercator - Not Cached - OGC Web Feature Service (WFS)
 - Endpoint
 - Overview



Search, Find and Use Land Cover Products

Datasets

Services

Applications

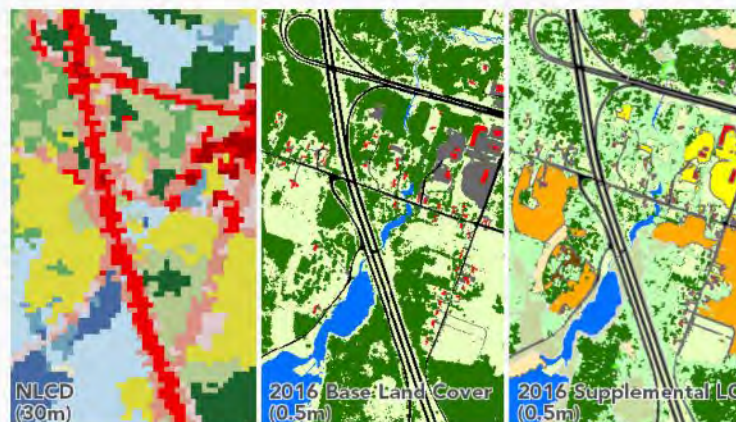
Documentation

Datasets

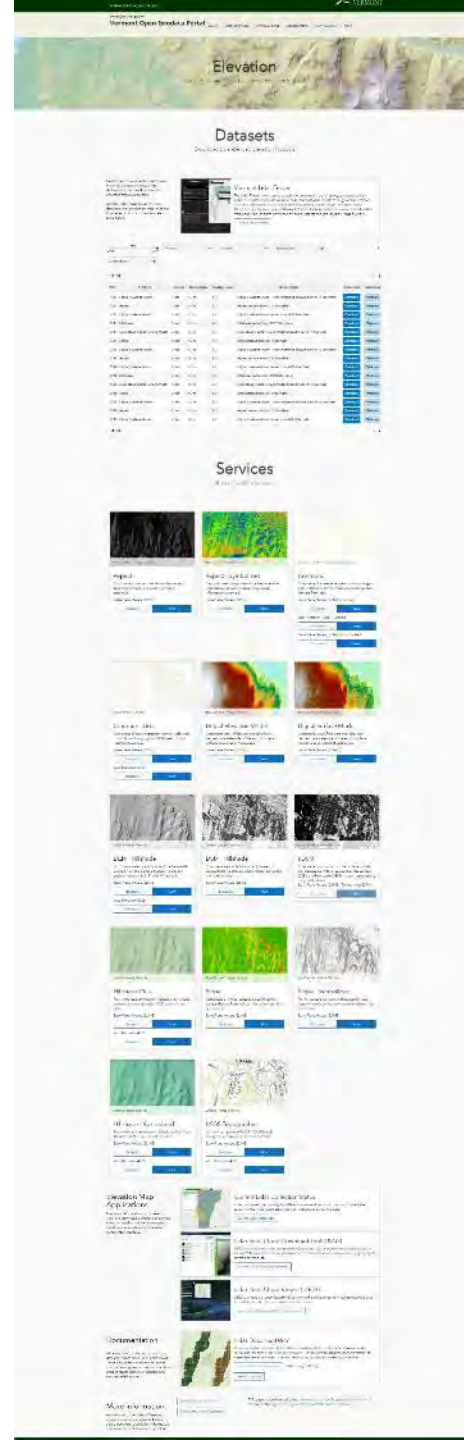
Download Land Cover Products

For Vermont-specific land cover products including the 2016 statewide 0.5 meter resolution set derived from a combination of 2013-2017 LiDAR and 2016 orthoimagery data (see [Report for details](#)), use the data download table below. Vermont specific land cover products are updated on an as-available basis.

For NLCD data at 30 meter resolution with editions every 2-3 years beginning in 2001, see [this page](#).

 Search in table

Resolution



Page Name/Content

Overview / Navigation

Data Downloads

Streaming Services

Related Applications

Documentation
More Info

Access: Data Downloads

Downloading data for local drive-based uses



Search in table

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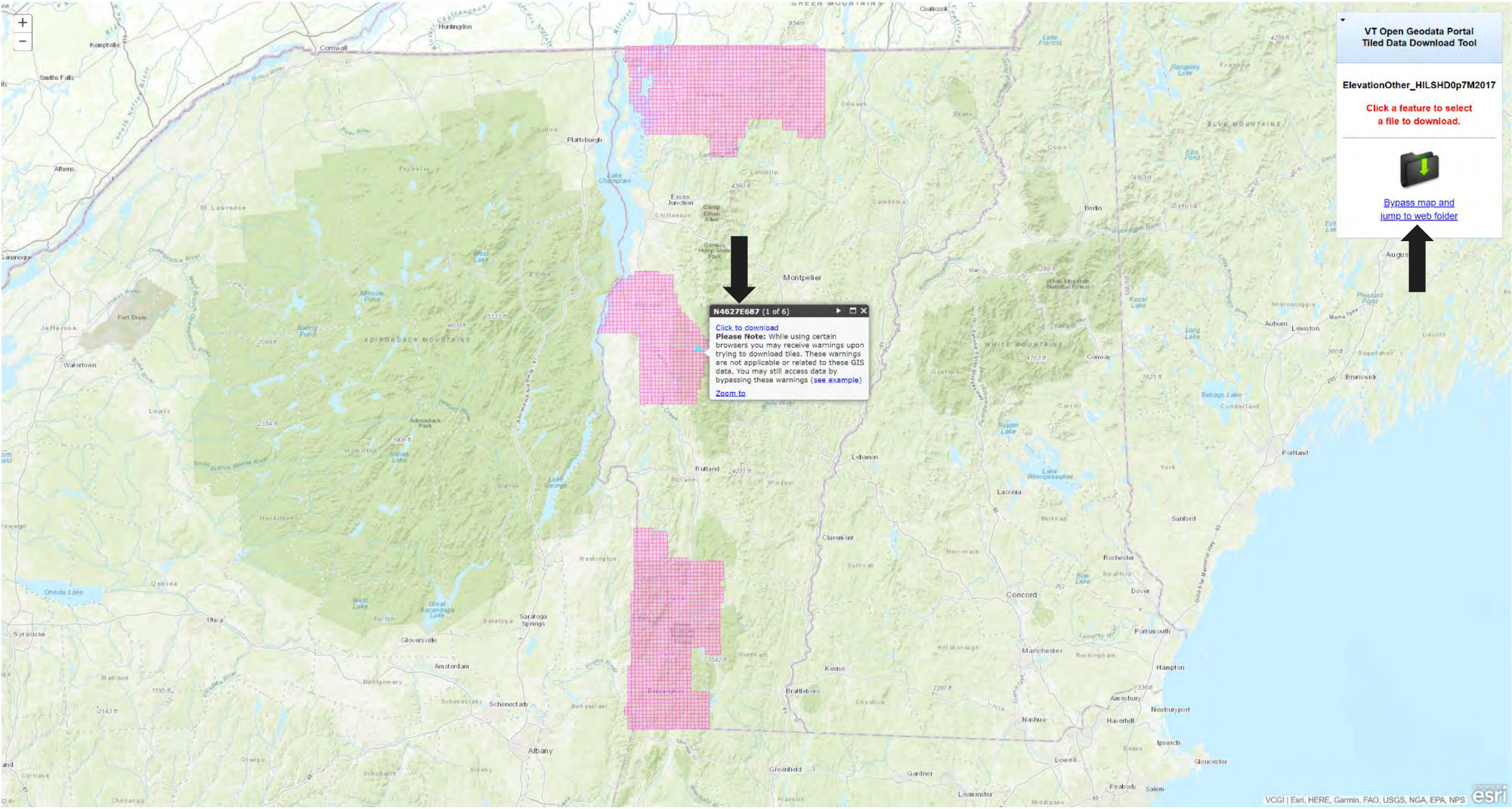


Year	Imagery	Type	Resolution	Tile Download Tool	Download Bundled Zip	Metadata
2021	2021 - NAIP Color Infrared Imagery - Statewide (0.6m)	Color, Color Infrared	0.6M	Download	71.6Gb	Metadata
2021	2021 - Color Imagery, Essex, Orleans, Caledonia Counties (0.3m)	Color, Color Infrared	0.3M	Download	26Gb	Metadata
2021	2021 - Black and White Imagery, Essex, Orleans, Caledonia Counties (0.3m)	Black and White	0.3M	Download	8.8Gb	Metadata
2020	2020 - Color Imagery, Bennington, Windham Counties (0.15m)	Color, Color Infrared	0.15M	Download	4Gb	Metadata
2020	2020 - Black and White Imagery, Bennington, Windham Counties (0.15m)	Black and White	0.15M	Download	1Gb	Metadata
2019	2019 - Black and White Imagery, Addison, Caledonia, Essex, Franklin, Lamoille, Orange, Orleans, Washington, Windsor Counties (0.15m)	Black and White	0.15M	Download	1.07Gb	Metadata
2019	2019 - Black and White Imagery, Bennington, Essex, Windham, Windsor Counties (0.3m)	Black and White	0.3M	Download	2.91Gb	Metadata
2019	2019 - Color Imagery, Addison, Caledonia, Essex, Franklin, Lamoille, Orange, Orleans, Washington, Windsor Counties (0.15m)	Color, Color Infrared	0.15M	Download	4.28Gb	Metadata
2019	2019 - Color Imagery, Bennington, Essex, Windham, Windsor Counties (0.3m)	Color, Color Infrared	0.3M	Download	11.65Gb	Metadata
2019	2019 - NAIP Color Infrared Imagery - portion of Vermont (0.6m)	Color, Color Infrared	0.6M	Download	24.5Gb	Metadata

contour

Year	Product	Source	Resolution	Quality Level	Description	Download	Metadata
Multiple	Contours	Lidar	0.7m	QL2	1' Contours derived from 2013 - 2017 QL2 lidar data - Non-Generalized - Statewide	Download	Metadata
Multiple	Contours	Lidar	0.7m	QL2	1' Contours derived from 2013 - 2017 QL2 lidar data - Generalized Using 0.1 meter Tolerance - Download by Municipality	Download	Metadata
Multiple	Contours	USGS	10m	N/A	VT 20' Contours generated from USGS 10 meter NED DEM	Download	Metadata
Multiple	Contours	Lidar	3.2m	QL4	10' Contours derived from lidar data - Chittenden	Download	Metadata
Multiple	Contours	USGS	30m	N/A	VT 100' Contours generated from USGS 30 meter NED DEM	Download	Metadata
Multiple	Contours	USGS	30m	N/A	VT 50' Contours generated from USGS 30 meter NED DEM	Download	Metadata

Created with [Datawrapper](#)



N4627E687 (1 of 6)

[Click to download](#)

Please Note: While using certain browsers you may receive warnings upon trying to download tiles. These warnings are not applicable or related to these GIS data. You may still access data by bypassing these warnings ([see example](#))

[Zoom to](#)

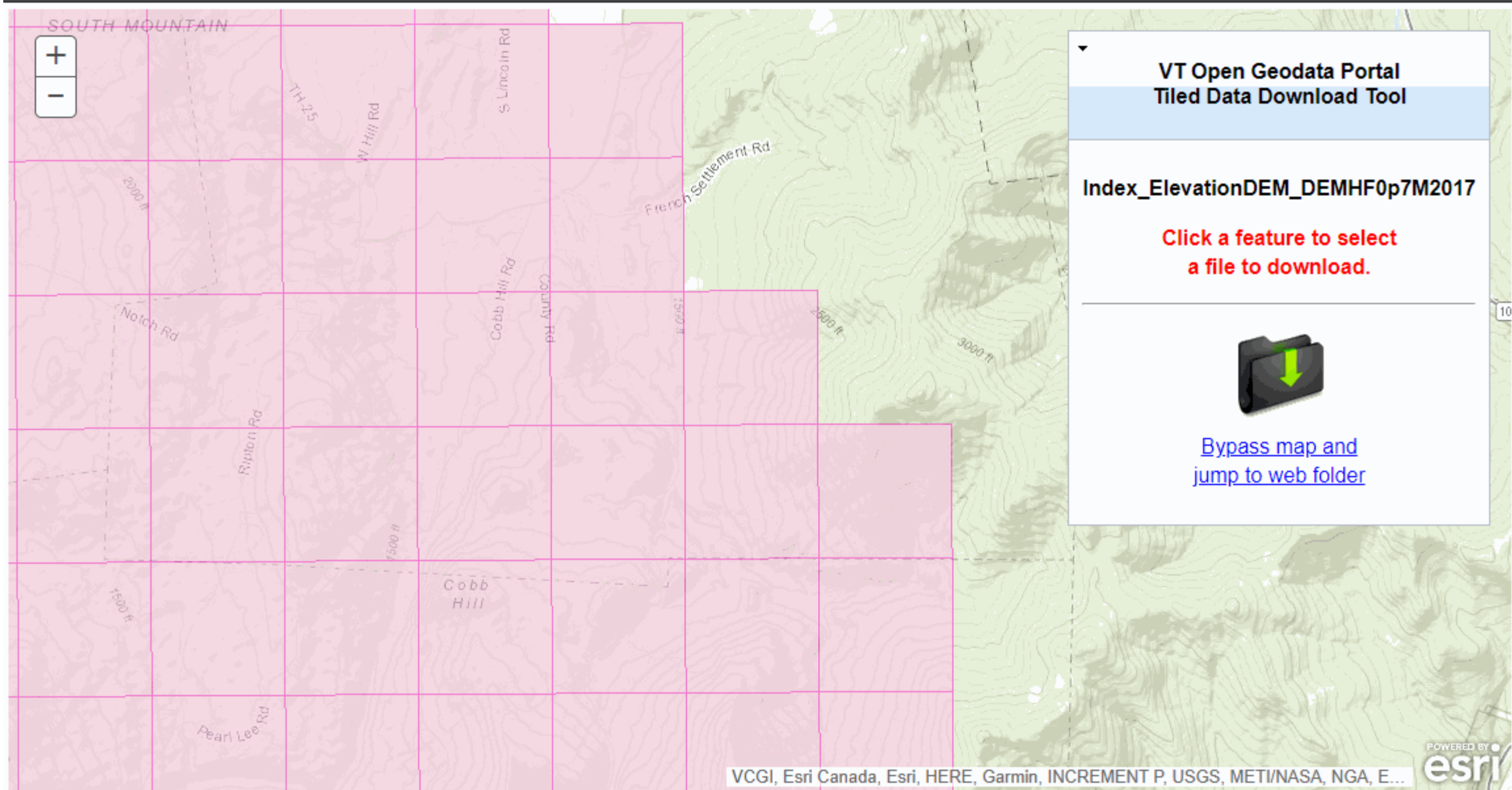
VT Open Geodata Portal
Tiled Data Download Tool

ElevationOther_HILSHD0p7M2017

Click a feature to select
a file to download.



[Bypass map and
jump to web folder](#)



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esr

11-9-62

VT-62-H 36-240



Name ↓	Owner	Last modified	File size
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 Elevation_HILSHD0p7M2017_N5089E779.img.vat.dbf 	VCGI Data	May 7, 2019 me	8 KB
 Elevation_HILSHD0p7M2017_N5089E779.img.aux.xml 	VCGI Data	May 7, 2019 me	2 KB
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[\[To Parent Directory\]](#)

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