

# STATEWIDE DIGITAL PARCEL MAPPING UPDATE

## TRANSPORTATION USE CASES:

### INFORMATION GATHERING & COMMUNICATION

- Ownership identification
- Support for public meetings and presentations
- Context and visuals in web-based GIS viewers
- Support land transactions
- Rights of Way (ROW) mapping
- Permitting process
- Enforcement of rights

### INNOVATIVE USES OF STATE LAND

- Land use (and conflicting uses)
- Solar energy potential
- Carbon sequestration and biomass
- Habitat development
- Utility corridors
- Land cover (such as shading trees)

### ENVIRONMENTAL HEALTH & SAFETY

- Stormwater management
- Hazardous spill notification
- Vegetation management
- Identification of parcels that drain onto State land
- Access and safety
- Physical characteristics (structures, drainage, utilities)

### PLANNING AND SITE ASSESSMENT

- Pre-project site reconnaissance and site measurement
- Response to public inquiries and complaints
- Support for transit studies
- Project cost estimating
- Bicycle and pedestrian route planning
- Alternative land uses

### DATA MAINTENANCE AND ASSET MANAGEMENT

- Alignment of road centerline data
- Bus routes, bus stops/shelter, sidewalk, and curb data maintenance
- Quality Control for asset data collected in field
- Access points
- Transportation asset management

### EMERGENCY MANAGEMENT

- Situational Awareness and Needs Assessment
- Emergency response
- Grant applications

**STATEWIDE USE CASES:** The ROI study focused on a subset of specific use cases with particular statewide relevance.

The project team identified a lengthy list of potential use cases (shown below), and prioritized three of these use cases for in-depth information gathering – **Economic Development, Public Safety, and Stormwater Management.**

Input from stakeholders and subject matter experts informed the assignment of value to statewide parcel benefits for each use case. [ROI and other parcel documents at <https://outside.vermont.gov/sites/egcgeo/parcelwg/default.aspx>]

### ESTIMATED TOTAL BENEFITS

#### OVER 5 YEARS

Low: \$6,004,000  
High: \$12,915,000

### ESTIMATED TOTAL COSTS

#### OVER 5 YEARS

\$2.4 million

### ROI CALCULATION

ratio ranges from a very conservative 1.58 to 4.55  
(value above 1 is a good investment)

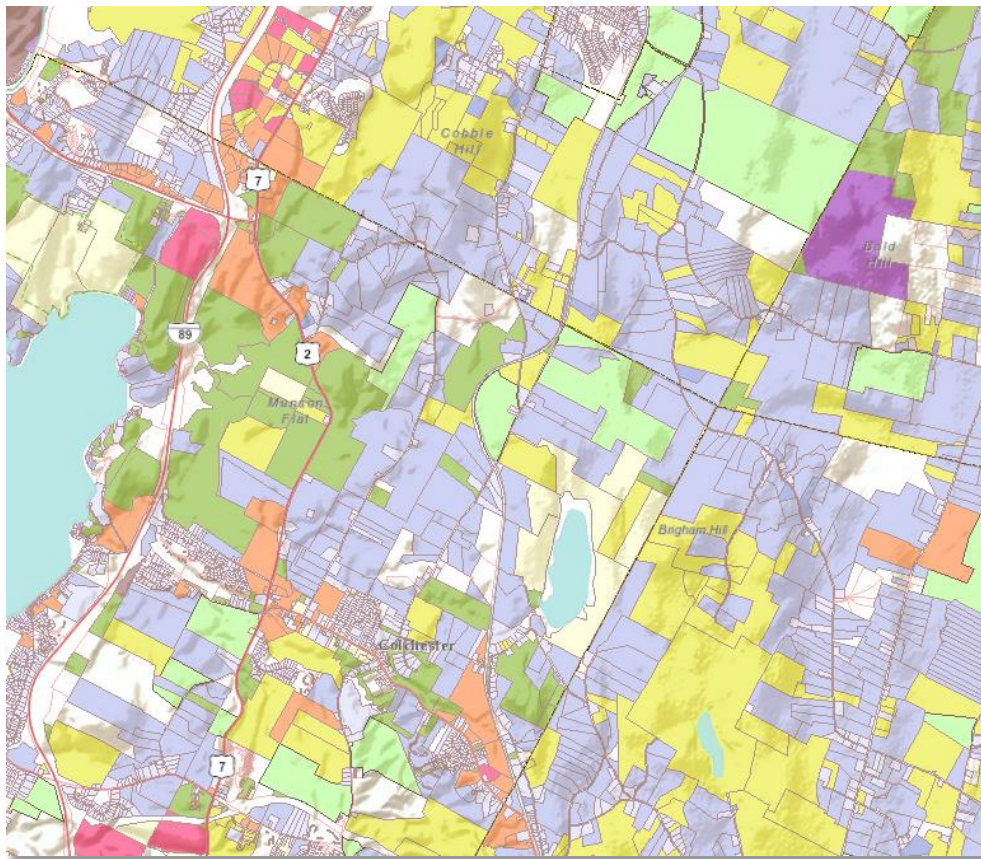


		Application Use															
		Asset/Land Management	New Business Site Selection	Site Planning and Development	Streamlined Permitting	Improved Services	Forest Fragmentation/Parcelization	Support for Field Work/Inspections	Fair Taxation & Use Value Program	Communication and Outreach	Evacuation & Access Planning	Damage Assessment & Recovery	Collection of Fees	Identifying Encroachment	Response to Inquiries/Complaints	Tourism and Recreation	Land Use Mapping/Verification
Sectors	Econ. Development	X	X	X	X	X	X	X	X			X	X	X	X		
	Forestry	X		X		X	X	X	X				X				
	Tax Assessment	X	X	X	X	X	X	X	X			X	X	X	X	X	X
	Stormwater	X		X	X	X	X		X			X	X	X	X	X	X
	Pub Safety/Emerg Resp			X		X	X		X	X	X					X	
	Transportation	X		X	X	X	X	X	X				X	X	X	X	X
	Floodplain Mgt.			X	X	X		X		X			X	X	X		
	Planning	X	X	X	X	X	X	X		X			X	X	X		
	Land Surveying			X		X	X	X		X			X		X		X
	Housing	X		X	X	X		X	X	X			X		X		X
	Broadband Planning	X	X	X		X				X			X		X		

X Denotes sector and use case considered for ROI benefits  
 Denotes sector and use case considered as "sub-category" within primary area of ROI focus  
 X Denotes potential sector and use case example



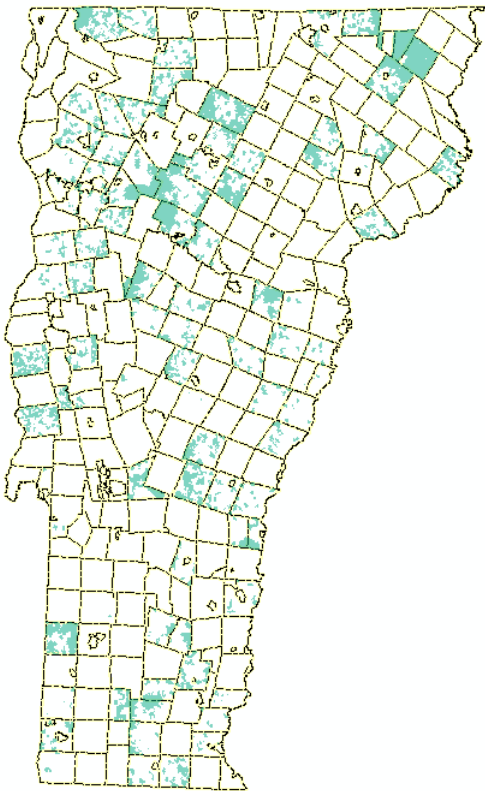
# Examples of Parcel Data Linked to the Grand List



Parcels by Category

- Parcel Categories
- Residential-1
  - Residential-2
  - Mobile Home/landed
  - Mobile Home/un-landed
  - Seasonal-1
  - Seasonal-2
  - Farm
  - Commercial Apt
  - Commercial
  - Industrial
  - Utilities Electric
  - Utilities Other
  - Woodland
  - Other
  - Miscellaneous

Location of VTrans Parcels



Parcels Greater Than 250 Acres

