

Data Needs Related to Impervious Surface / Parcel Fees

SENATE COMMITTEE ON NATURAL RESOURCES & ENERGY

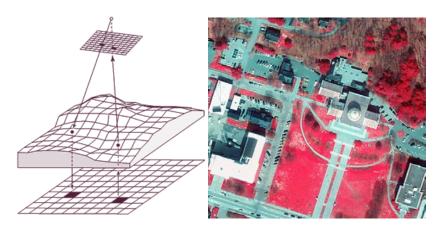
FEBRUARY 26, 2019

JOHN E. ADAMS

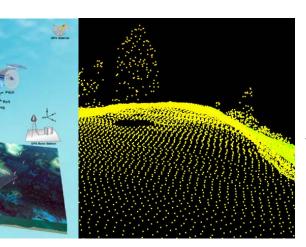








ORTHOIMAGERY

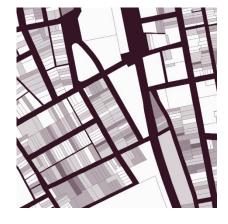












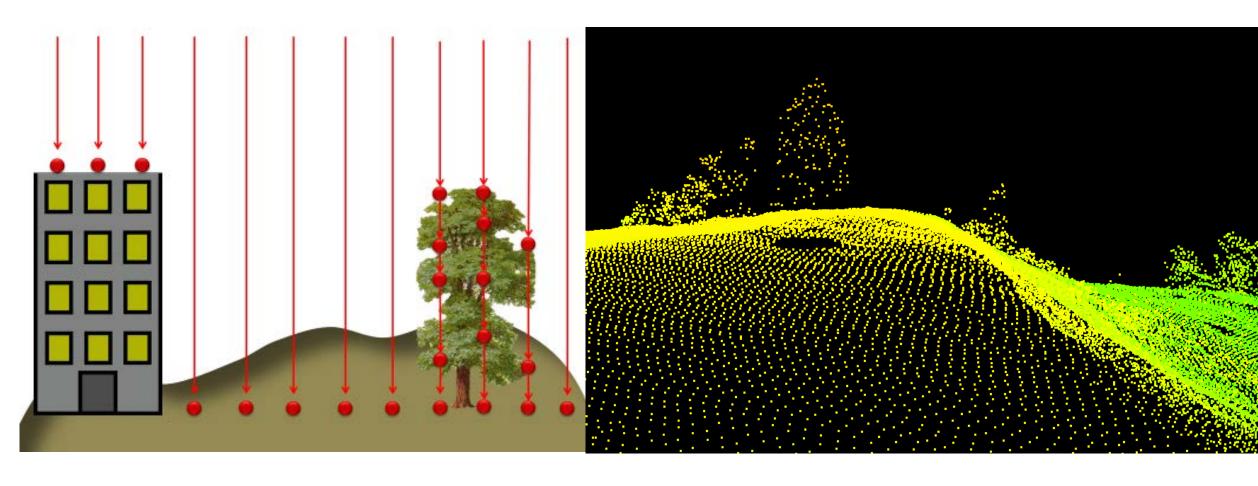
STATEWIDE PARCEL DATA (January 2020)



Data needs for an impervious surface stormwater fee

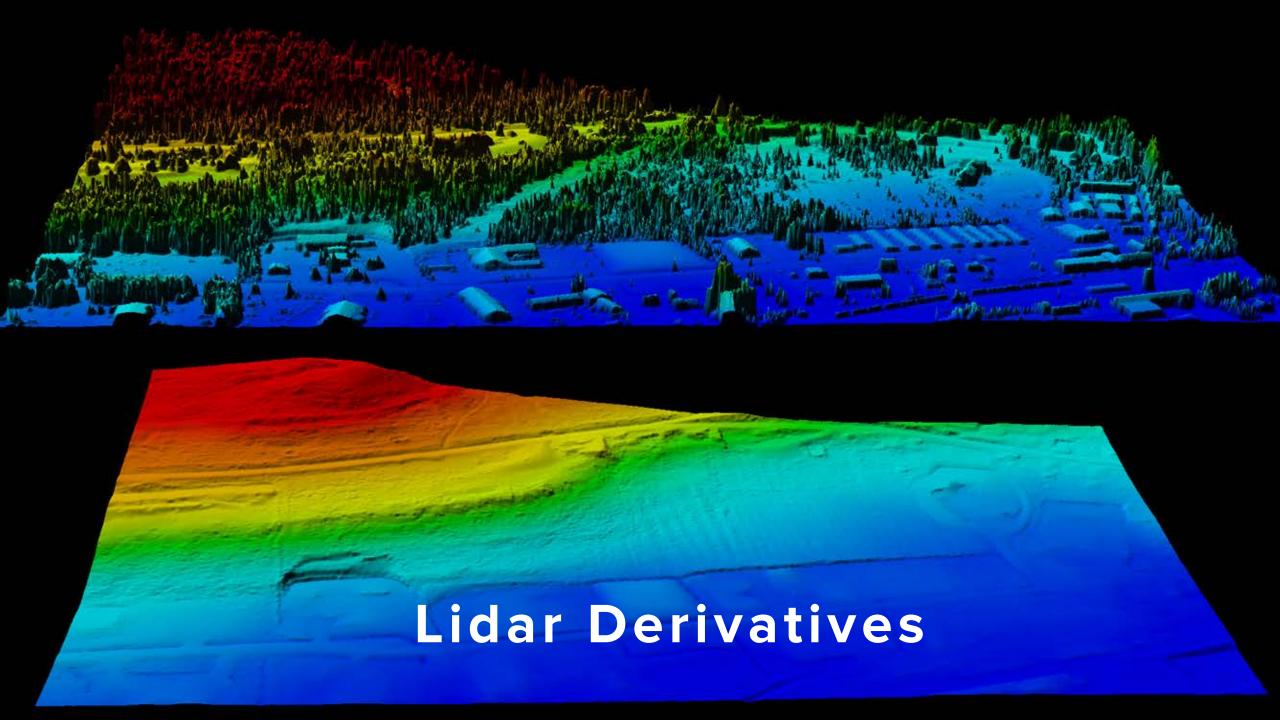


Lidar







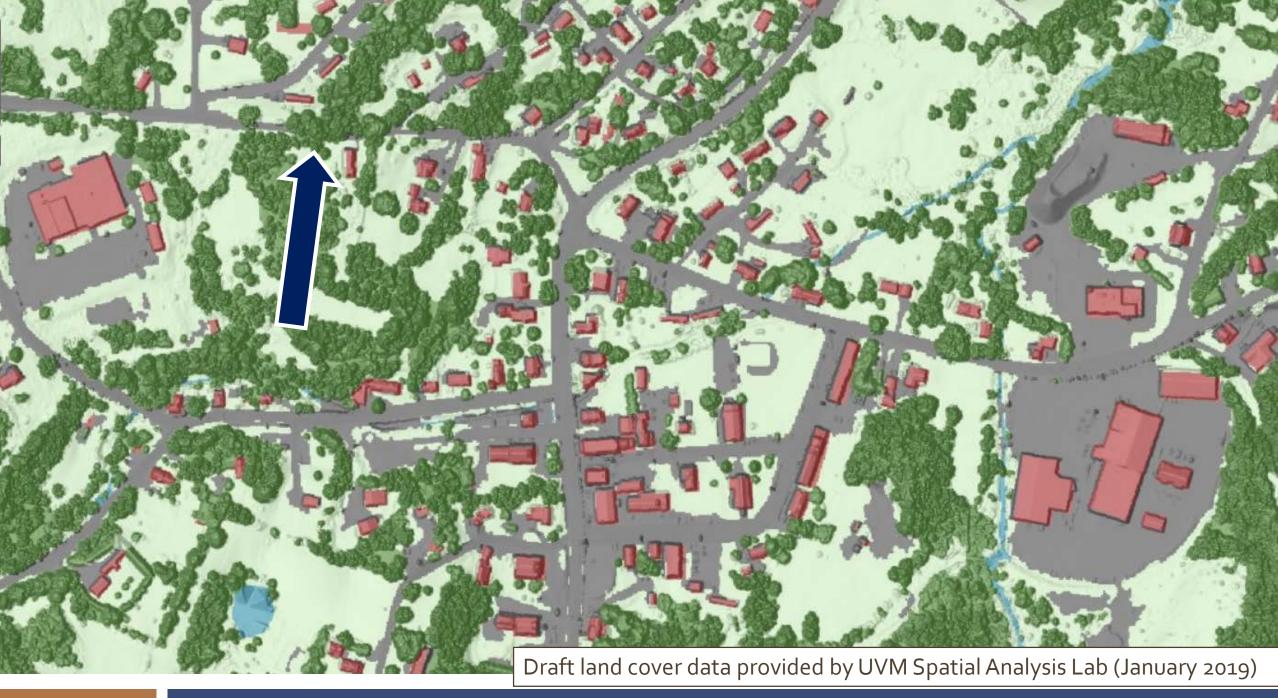


Cell size: 9688 sq ft Cell size 1078 sq ft Cell size 5.27 sq ft

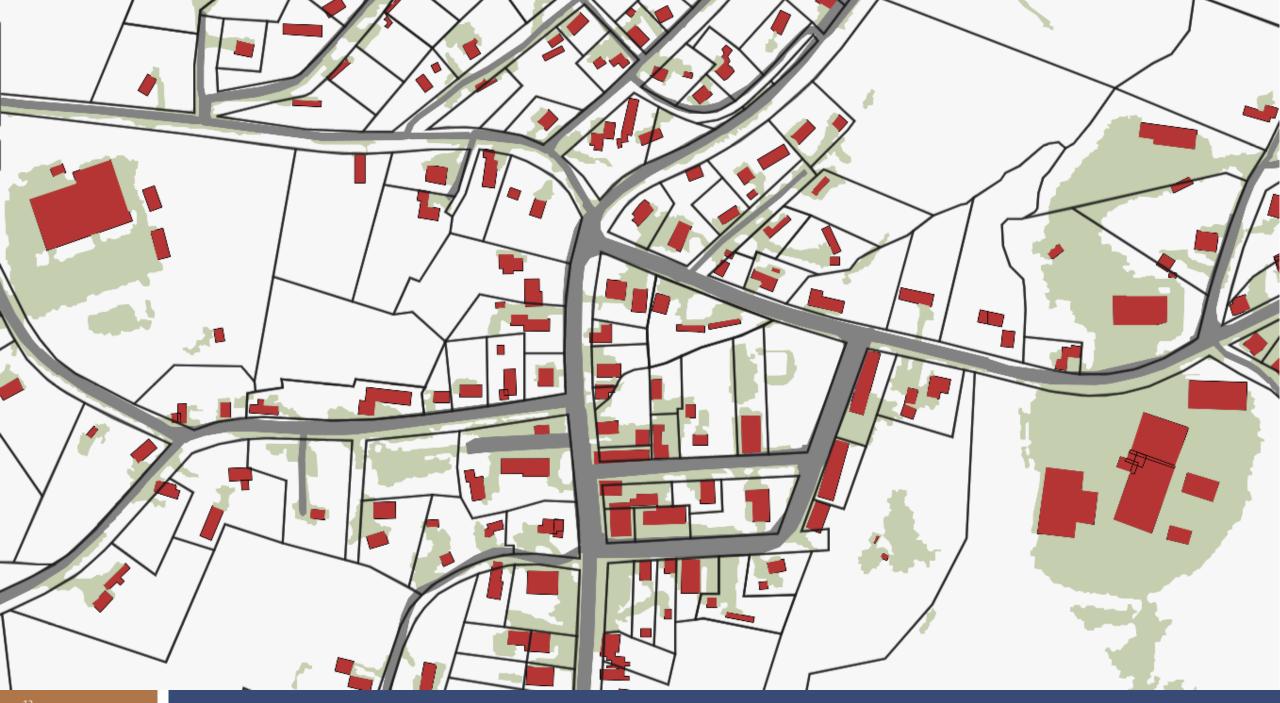


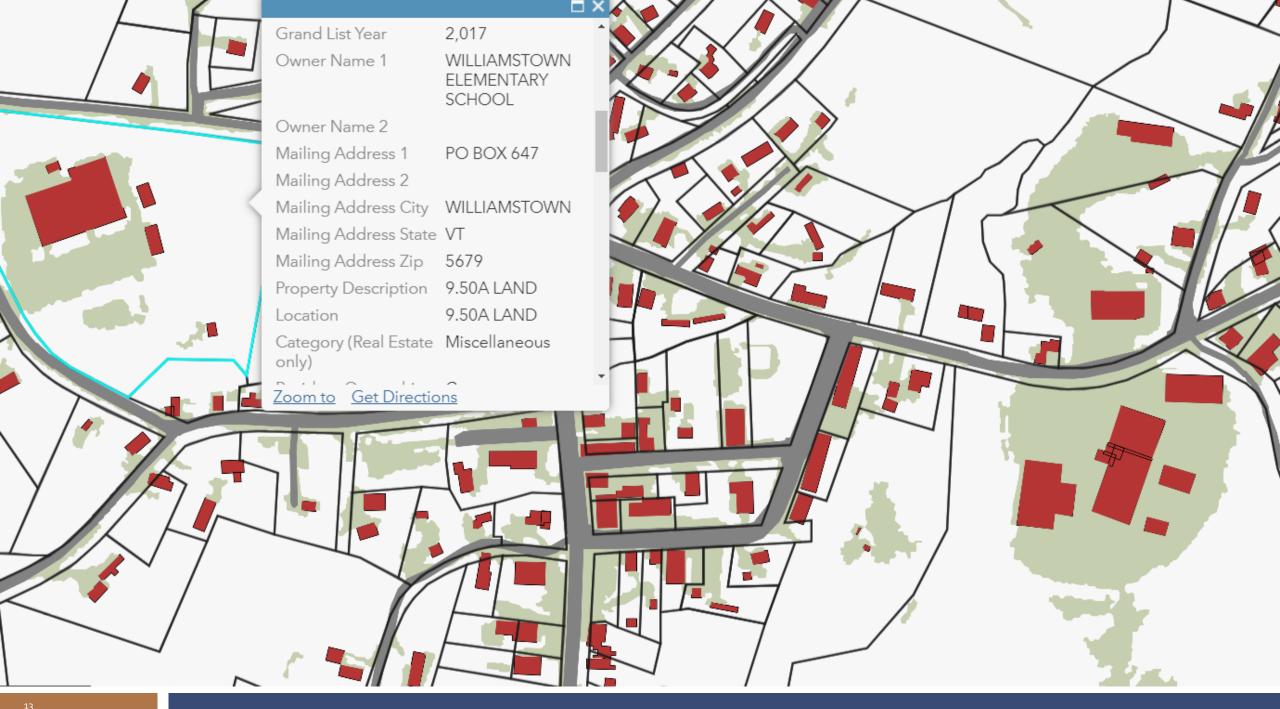








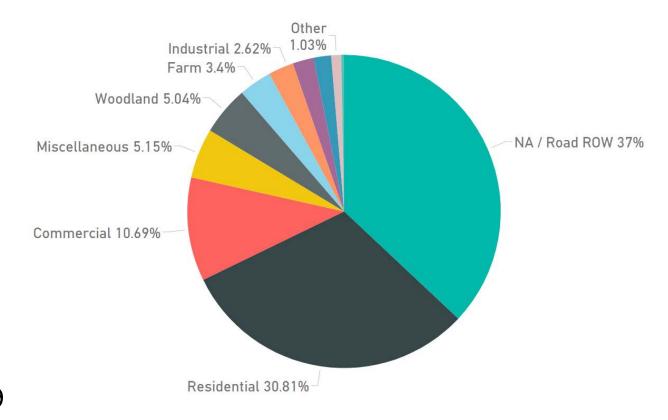




Impervious Surface

STATUS: 1st Draft Complete

- Estimated 142,236.45 acres
- 14% from buildings, 1% railroad, and 85% from roads and other paved surfaces.
- Initial review completed and UVM Spatial Analysis Lab reprocessing based on feedback.
- Next version expected March 2019



Source of Impervious Surface by Parcel as Categorized by the 2017 Grand List for 107 Municipalities

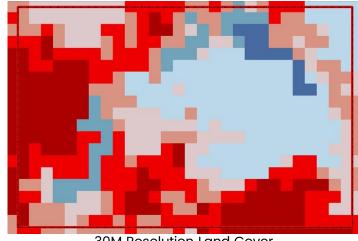


Impervious Surface

STATUS: 1st Draft Complete

Ongoing Maintenance:

- Frequency and extent of necessary updates to the data needed to successfully administer an impervious surface fee is unknown.
- Need source to update data. Significant percentage of development in Vermont is not subject to any State permit/review, area-wide updates would likely need to come from orthophotography.
- Costs associated with updating the dataset may vary widely and are dependent on a several variables related to program specifics and advancements in technology.



30M Resolution Land Cover



VERMONT

Impervious Surface

STATUS: 1st Draft Complete

Considerations:

- The definition of what qualifies as impervious surface could have significant impact on data needs. If the definition differs from mapped land cover classifications, it may be challenging if not impossible in any economical way to update the data.
- A process for updating and/or appealing any measurements must be clearly defined.



Statehouse



National Life Campus

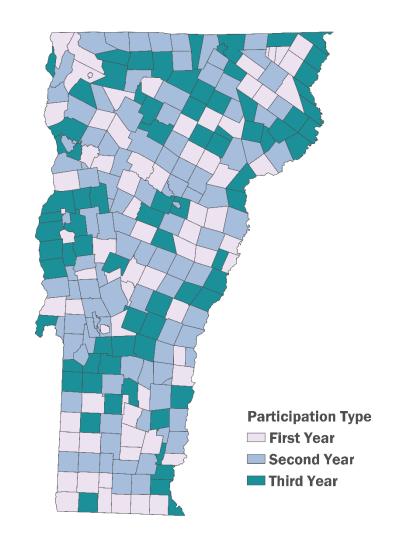


Statewide Parcel Data

STATEWIDE COVERAGE GOAL: End of 2019

Ongoing Maintenance:

- Many municipalities currently do not update their parcel data on a regular basis.
- Information required to update data is typically only available in a paper format in the municipal land records.
- VCGI is working with State Parcel Advisory board to develop maintenance program to keep up to date.







Massachusetts

9,616 mi²

Land Area



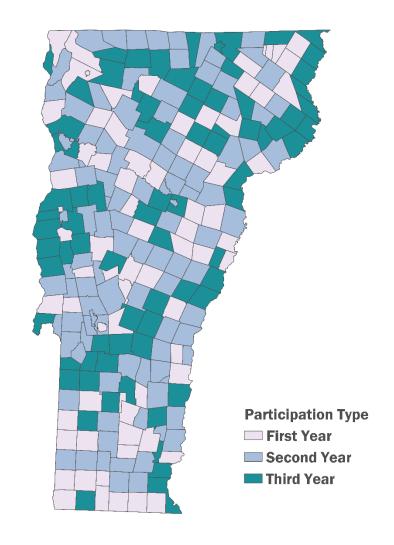
Land Area

Statewide Parcel Data

STATEWIDE COVERAGE GOAL: End of 2019

Considerations:

- Parcel data will vary in quality and the boundaries represented are approximate.
- Differences in how municipalities maintain their grand lists may create challenges in consistently assigning an impervious surface value to certain kinds of properties, such as 'unlanded parcels' and common lands.
- The definition of a parcel, "all contiguous land in the same ownership, together with all improvements thereon," is problematic when certain span numbers become 'inactive' and not reflected on the grand list.





QUESTIONS?

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