



Understanding How NYS GIS and Open Parcel Data Sharing Can Benefit Counties

NYS GIS Program Office

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NYSAC Thanks the Following Sponsor of Today's Webinar:

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Our deep New York government expertise allows us to bring valuable services and actionable ideas to our clients. We're ready to help guide your County toward its strategic goals through customized financial solutions.



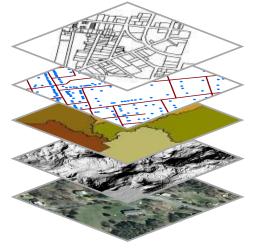
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Geographic Information Systems (GIS)

NYS GIS Program Office (GPO) Framework Data



Tax Parcels

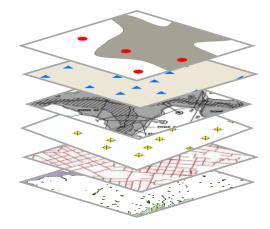
Streets & Address

Boundaries

Elevation

Ortho Imagery

Business Data Layers



Incidents, Events, 9-1-1

Environmental Assets

Flood Zones

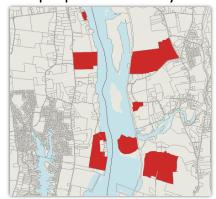
Fleet Vehicles

Utilities

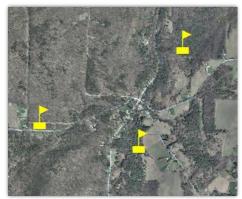
Wetlands

Intelligence derived from location analysis

Which properties suit my needs?



Which school am I closes to?



Where will the water flow?

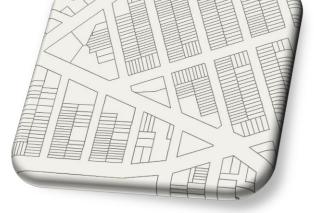


Office of Information Technology Services

The NYS Statewide Parcel Map Program

Our mission is to collect, assemble, maintain, and provide access to statewide tax parcel GIS data.

We collect every county's GIS tax parcel polygons once a year and standardize them using tabular assessment data from the NYS Department of Taxation and Finance Office of Real Property Tax Services. We share this standardized GIS data product as widely as each county allows. http://gis.ny.gov/parcels/





Standardized Parcel Data

It is necessary for users of parcel data across multiple counties to reconcile the differences in attributes and field naming conventions.



Attribute Needed	County #1	County #2	County #3	County #4	County #5
Municipality					X
Owner	×	×		×	
Mailing Address		X	/		
Property Class		×			
Year Built	X	X		/	×

This is the work the NYS GIS Program Office does to combine all the counties' parcel data in a common schema.



Sharing Standardized Parcel Data

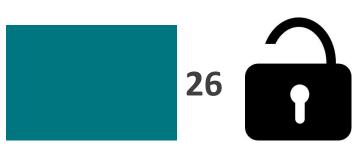
While we encourage counties to open their parcel data publicly, we respect each county's right as the data owner to control the distribution their GIS data. We will only share your data as the county directs us.

GIS Program Office, Emergency Preparedness/Response, CIRIS*, and State Agency Business Use





Publicly Available





Thank you for your yearly updates- Even when you do not share your GIS parcel data publicly, providing timely yearly updates to the NYS GIS Program Office ensures that the following critical services (and much more) are always using the most current parcel data:

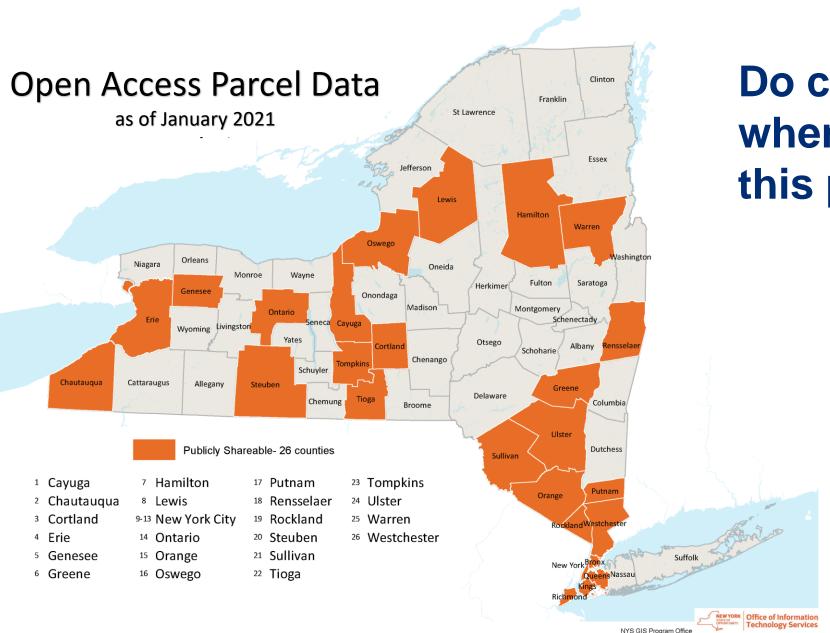
- State Police use parcels in the their computer aided dispatch (CAD) systems to assess property boundaries and ownership on 911 calls
- Department of Corrections

 use the parcel boundaries in the State's Critical Infrastructure Response Information
 System (CIRIS) application to ensure sex offenders are housed at a legal distance from schools
- Office of Emergency Management/Dept of Environmental Conservation – use parcels for natural disaster planning and response, such as flooding and high-risk dam assessments. Federal aid for disasters has been secured for localities within a much shorter time window when current data is on hand in case of an emergency.





Office of Information Technology Services

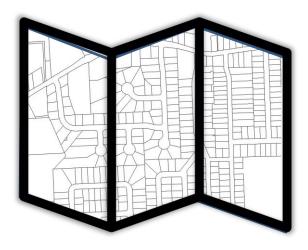


Do counties miss out when their piece of this puzzle is absent?

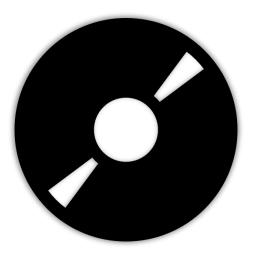


Distribution of Mapping Data Through Time

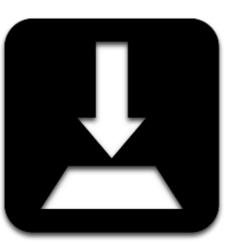
Print



Burn



Click



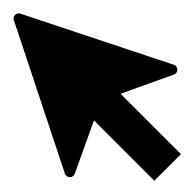
< 1980 2000 2020

Paper Maps

Files on Disc

Download

Click



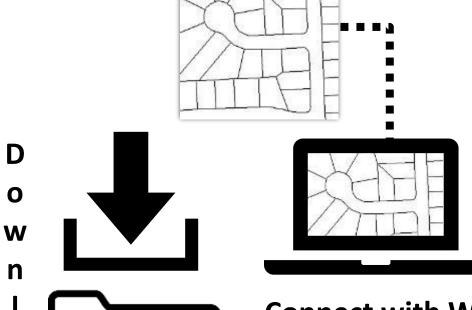
These days it is expected that you can get almost everything online at the click of a button...

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Get



Happy



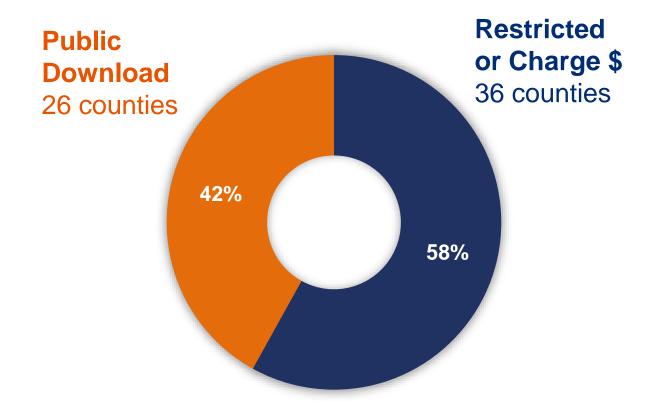
Connect with Web Services

...Why not parcel data too?



Obtaining GIS Parcel Data in New York

County GIS Tax Parcel Data Access





Internet searches on multiple websites



Phone calls to multiple offices



In-person visits, witness notary



Written agreements and/or FOIL



Requests & data may need to be physically mailed

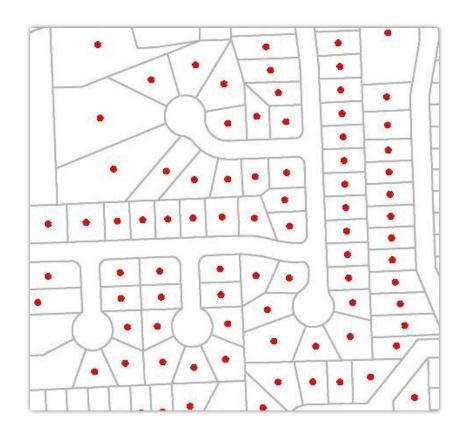


Data may cost \$ to access



Assessment Information is already Publicly Available in some formats

Parcel centroid points with assessment information from the NYS Department of Taxation and Finance Office of Real Property Tax Services are publicly available. Assessment information is also available in posted local Tax Rolls. Attributes include owner names and parcel addresses.



20 CRR-NY 8189.10 NY-CRR

OFFICIAL COMPILATION OF CODES, RULES AND REGULATIONS OF THE STATE OF NEW YORK
TITLE 20. DEPARTMENT OF TAXATION AND FINANCE
CHAPTER XVI. REAL PROPERTY TAX ADMINISTRATION

PART 8189. PREPARATION AND MAINTENANCE OF TAX MAPS FOR REAL PROPERTY ASSESSMENT AND TAXATION ADMINISTRATION

20 CRR-NY 8189.10 20 CRR-NY 8189.10

8189.10 Coordinate locator number.

- (a) Each land parcel shall have a coordinate locator number assigned to its visual center. The coordinate locator number shall be derived from the appropriate zone of the New York coordinate system. The easting reading must precede the northing reading. The grid coordinate value describing the visual center of each land parcel shall be accurate to a degree to ensure that the true position of such coordinate falls within the boundaries of the land parcel being described. A new coordinate locator number, which shall not duplicate any previous coordinate locator number used, shall be assigned to each new land parcel.
- (b) New York State plane coordinate grid tic marks for the four corners of each section map shall be accurately located and appear thereon along with a clear indication of the visual center of each land parcel delineated on the section map. Coordinate locator numbers for each land parcel delineated on the section map shall be generated in a mechanized environment and appear together with the section, block and lot number for each such land parcel on a tape or other mechanized media to be incorporated into a data base maintained by the county. This mechanized media or the assessment roll supplied pursuant to article 15-C shall be submitted by the county to ORPTS showing the section, block and lot number together with the corresponding coordinate locator number for each land parcel delineated on each section map within the county.

20 CRR-NY 8189.10 Current through March 15, 2020

New York Consolidated Laws, Real Property Tax Law - RPT § 1588. Posted tax roll

Notwithstanding any provision of law to the contrary, information regarding date of payment of taxes, the receipt number and related information need not be posted on the tax roll or other printed record of payment if that information is entered into the data file and retained by means of electronic data processing. **This information must be stored so that it can be made readily available to the public in legible form.** At the conclusion of the period for the redemption of property from taxes which become a lien on such roll, a copy of the posted tax roll shall be produced in either a paper format or archival quality microform and be permanently retained as a public record.

Freedom of Information Law (FOIL) - Article 6 § 84-90 of the NYS Public Officers Law

Real Property Data is subject to the FOIL process.

Sources:



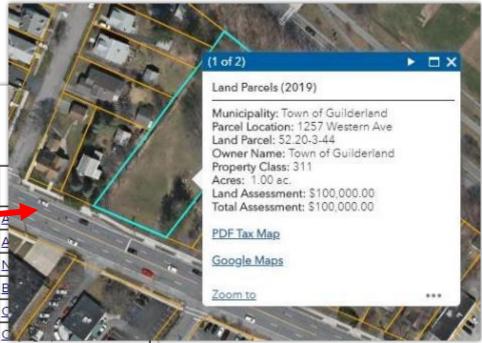
January 2021

Most Counties offer an Online Parcel Viewer

http://gis.ny.gov/parcels/#parcel

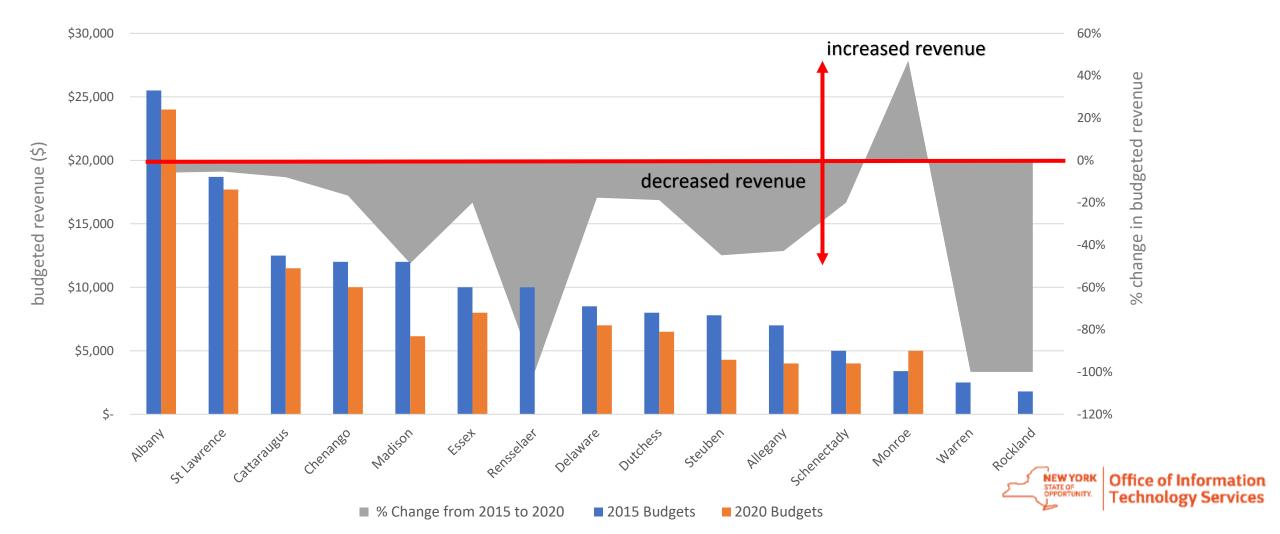
County Parcel Data Resources

County	Parcel Data on gis.ny.gov	Parcel Data on County Website	Parcel Data Viewer	
Albany	<u>Albany parcel page</u>	<u>Albany parcel resources</u>	Albany parcel viewer	4
Allegany	<u>Allegany parcel page</u>	Allegany parcel resources	<u>Allegany parcel viewer</u>	
Bronx	n/a	NYC parcel resources	NYC parcel viewer	
Broome	n/a	Broome parcel resources	Broome parcel viewer	
Cattaraugus	<u>Cattaraugus parcel page</u>	<u>Cattaraugus parcel resources</u>	Cattaraugus parcel viewer	<u>c</u>
Cayuga	n/a	<u>Cayuga parcel resources</u>	<u>Cayuga parcel viewer</u>	additional
Chautauqua	n/a	Chautauqua parcel resources	<u>Chautauqua parcel viewer</u>	Chautauqua additional
Chemung	<u>Chemung parcel page</u>	Chemung parcel resources	<u>Chemung parcel viewer</u>	Chemung additional
Chenango	n/a	<u>Chenango parcel resources</u>	<u>Chenango parcel viewer</u>	Chenango additional
Clinton	n/a	Clinton parcel resources	Clinton parcel viewer	Clinton additional
Columbia	<u>Columbia parcel page</u>	Columbia parcel resources	Columbia parcel viewer	Columbia additional
Cortland	Cortland parcel page	Cortland parcel resources	Cortland parcel viewer	Cortland additional
Delaware	<u>Delaware parcel page</u>	Delaware parcel resources	<u>Delaware parcel viewer</u>	Delaware additional





The GPO examined the online budgets of 15 counties that received revenue for budget items which likely included the sale of GIS tax parcel data. These numbers may include the sale of other tax map data products as well. In 2015, the average revenue budgeted by these counties for tax map/parcel data was \$9,700. In 2020, the average revenue was \$7,200. Average decrease in revenue of -33% during this time. If you only include counties that continue to receive revenue for parcel data in 2020 the figures are: \$10,900 in 2015, \$9,000 in 2020, and an average decrease of -17%. See the following page for more detail and links to the information included in this graph.



Online County Budget Details:

County	(per	x Map Data Sales 2015 County Budgets)	Sales 2020 County Budgets)	nange from 15 to 2020	2020 link to Budget	Revenue Item(s) in Budget (2020)	
Albany	\$	25,500	\$ 24,000	\$ (1,500)	Albany County 2020 Budget	p.152 ("Tax Map Reproduction Charges" + "Tax Map Charges")	
St Lawrence	\$	18,700	\$ 17,700	\$ (1,000)	St Lawrence 2020 Budget	p.133 ("Imagemate Online fees" + "R LR Sale of Tax Maps" + "RP Salesnet")	
Cattaraugus	\$	12,500	\$ 11,500	\$ (1,000)	Cattaraugus 2020 Budget	p.22 (Real Property "Sales, Other, Sale of Maps/Supplies")	
Chenango	\$	12,000	\$ 10,000	\$ (2,000)	Chenango County 2020 Budget	p. 4 ("Sale Of Tax Maps")	
Madison	\$	12,000	\$ 6,150	\$ (5,850)	Madison County 2020 Budget	p. 20 ("Digital Processing Fees" + "Sale of Tax & Survey Maps")	
Essex	\$	10,000	\$ 8,000	\$ (2,000)	Essex County 2020 Budget	p. 440 (2020 Tentative Budget, "Sale of Tax Maps")	
Rensselaer	\$	10,000	\$ -	\$ (10,000)	n/a	opened up GIS tax parcel data publicly since 2015	
Delaware	\$	8,500	\$ 7,000	\$ (1,500)	Delaware County 2020 Budget	p. 11 ("Minor Sales- Electronic" + "Minor Sales Files")	
Dutchess	\$	8,000	\$ 6,500	\$ (1,500)	Dutchess County 2020 Budget	p.193 ("Assessor Fees Maps & Aero Photos: Sale of maps, aerials and assessment data")	
Steuben	\$	7,800	\$ 4,300	\$ (3,500)	Steuben County 2020 Budget	p. 53 ("Tax map sales" + "Sales- Geogrpahic Info Sys"); opened data publicly in 2020	
Allegany	\$	7,000	\$ 4,000	\$ (3,000)	Allegany County 2020 Budget	p. 56 (Assessments "Sales- Other")	
Schenectady	\$	5,000	\$ 4,000	\$ (1,000)	Schenectady 2020 Budget	p. 270 ("Minor Sales- Tax Mapping")	
Monroe	\$	4,000	\$ 5,000	\$ 1,000	Monroe County 2020 Budget	p. 155 ("Map Copies and Overlays")	
Warren	\$	2,500	\$ -	\$ (2,500)	n/a	opened up GIS tax parcel data publicly since 2015	
Rockland	\$	1,800	\$ -	\$ (1,800)	n/a	opened up GIS tax parcel data publicly since 2020	
Average	: \$	10,917	\$ 9,013	\$ (1,904)	4) NOT including the counties that opened up their GIS tax parcel data		
Average	: \$	9,687	\$ 7,210	\$ (2,477)	Including the counties that opened up their GIS tax parcel data		





Managing requests online or via email



Handling requests on phone calls



Staff time on filling data requests



Written agreements or FOIL and legal costs



Filling data delivery via physical mail



Mechanisms for exchange of \$

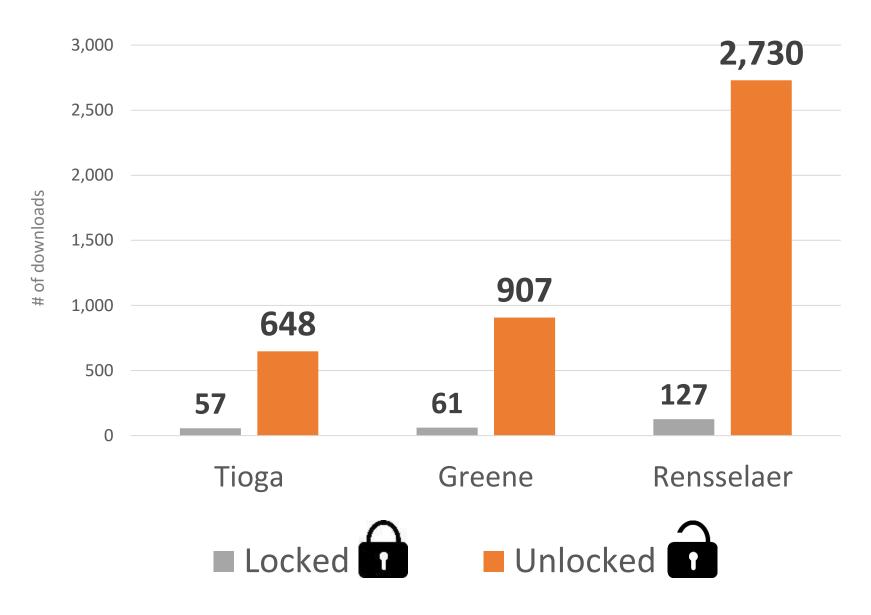
\$9,000 average revenue to maintain this data delivery system (which has its own inherent costs)OR....



What happens when a county says YES to sharing GIS tax parcel data publicly, at the click of a button?



County Parcel Downloads on GIS.NY.GOV



We examined the number of downloads for three counties that unlocked their parcel data in 2015. The number of downloads drastically increased after opening up the data to the public.



Rensselaer County Parcel Data Downloads by Sector



Types of Businesses that Downloaded Data

Home Ownership Assistance

Information Technology Computer Repair Web Design

Start Ups And Entrepreneurial Support

Architectural Woodwork Grocery Stores
Self Storage Construction And Property Management

Sustainable Energy CompanyInformation Technology Antivirus Software Entertainment Retail Property Hazard Risk Solutions Risk Strategy

Engineering Surveying Architecture And Landscape

Home Builders

Tax Financial and Accounting Services Aerospace and Combat Systems Cultural Resource Management Real Estate Services Utility Contractor

Process Service Court Filing Retail Distribution Centers
Freight Transportation And Logistics Retail Distribution Commercial A
Commercial A

. Commercial And Industrial Contracting

Mortgage Field Services Manufacturing Energy Infrastructure Valuations of Properties Land Conservation

Environmental Emergency Response
Property Insurance Claims Tools Construction Machinery Sales and Rentals

Planning Architecture and Interior Design

Information Security and Cloud Solutions

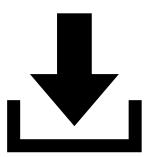


Examples of Specific Businesses that downloaded open parcel data on GIS.NY.GOV

Projects and priorities that benefit local economies



Economic Development Amazon downloaded Rensselaer County GIS tax parcel data



Amazon Warehouse Facility has just been built in Schodack bringing:

- 800 full time jobs with benefits, and up to \$3,000 tuition assistance per year for 4 years
- Property Tax estimates over the next 20 year period after taking into account the cost to the town: \$1.5 million per year (previously \$15,000 for the property)
 - ✓ Town of Schodack average annual, would get \$206,000
 - ✓ Water district- \$21,000
 - ✓ Sewer district- \$13,000
 - ✓ Ambulance- \$9,000
 - ✓ Fire district- \$45,000
 - ✓ East Greenbush School District- \$1.25 million





Regeneron

Temple Lane, East Greenbush

Pharmaceutical Science Building, Manufacturing, and Warehouse being built now. Engineering companies working on the site downloaded the publicly available parcel data.

REGENERON

August 12, 2019 at 10:01 AM EDT

- √ 1,500 jobs (salary range) \$45,000-\$110,000)
- ✓ Creating medicine to treat: eye disease, allergic and inflammatory diseases, cancer, cardiovascular and metabolic diseases, pain, rare diseases, and infectious diseases like Ebola and COVID-19.

Our goal is to address serious medical conditions, across multiple and diverse therapeutic areas. Our FDA-approved medicines are only the beginning of our long-term commitment to solve the human body's most complex mysteries.











PALM EBOLA CLINICAL TRIAL STOPPED EARLY AS REGENERON'S REGN-EB3 THERAPY SHOWS SUPERIORITY TO ZMAPP IN PREVENTING EBOLA **DEATHS**

TARRYTOWN, N.Y., Aug. 12, 2019 /PRNewswire/ -- Regeneron Pharmaceuticals, Inc. (NASDAQ: REGN) today announced that the Company was informed by study investigators that a randomized, controlled trial evaluating four investigational therapies for Ebola virus infection was stopped early because REGN-EB3 was superior to ZMapp in preventing death. ZMapp served as the control arm of the trial because it was considered the standard-of-care based on the previous PREVAIL II clinical trial. The protocol specified that the PALM trial



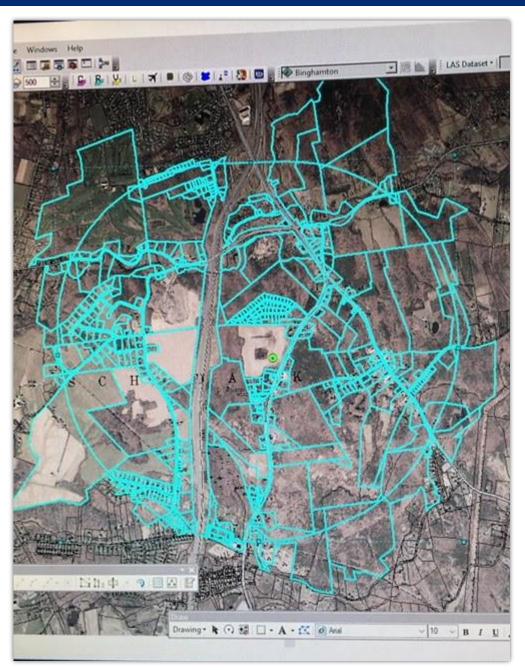
30th September 2020 (Last Updated September 30th, 2020 07:49)

A descriptive analysis of Regeneron Pharmaceuticals' Phase I/II/III clinical trial has found that its antibody cocktail REGN-COV2 lowered viral load and the time to symptoms improvement in nonhospitalised Covid-19 patients.



Citizen Engagement GIS-powered opposition to the Amazon project in Schodack



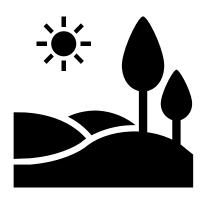


"484 parcels that intersect the Amazon parcel within 1 mile. The green dot is the blasting coordinate."

Local citizens downloaded the publicly available parcels for Rensselaer County to quickly act on their concerns about the development. Blasting at the Amazon site was rescheduled after the neighbors used a map analysis of parcel data to remind the town about the law that stated all residents had to be informed and allowed to request a pre/post inspection.



Environmental Protection Forest and wildlife preservation and sustainable energy companies



The Conservation Fund

Cowee Forest traps more than 2.2 M tons of CO2 from the atmosphere-equivalent to removing 471,000 passenger cars from the road for one year

Contributes to the local economy by supporting 102 jobs in Vermont, 102 jobs in Massachusetts and 101 jobs in the state of **New York**

Conserves **59 miles of streams**, and filters nearly 27B gallons of water annually

Conserves habitat for seven species of national importance, like the New England cottontail, and four hawk species listed by the New York State Endangered Species Act



Projects / Cowee Forest

Cowee Forest

Cowee Forest consists of several parcels of former privately-owned forestland scattered along the borders where New York, Vermont and Massachusetts meet. Totaling 23,000 acres, the lands were assembled over generations to support wood products manufacturing mills in the Rensselaer Plateau and Taconic regions.





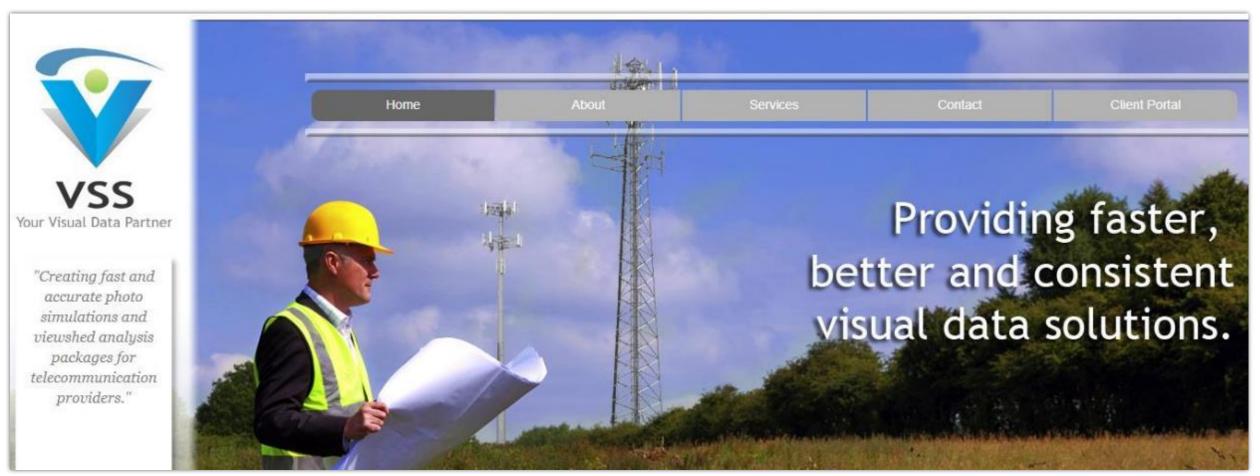
Cowee Forest, Photo credit: Carl Heilman

https://www.conservationfund.org/projects/cowee-forest; 2017 Project



Virtual Site Simulations

"...data analysis applications for commercial construction, windmill and solar engineering..."



And Many More...

- Broadband Internet Access Expansion
- Historic and Cultural Preservation
- Research Laboratories
- Application Developers
- Small Business Development



We hear from businesses and residents...

- I'll just keep using the old data I have for now.
- I lose too much time and money for my business having to track this data down.
- Let us know when more of the data is public.
 We'll only use what's available now until then.
- I don't understand why I have to pay when I'm using it to do something good for the county.
- I can get this for other States, why not here?





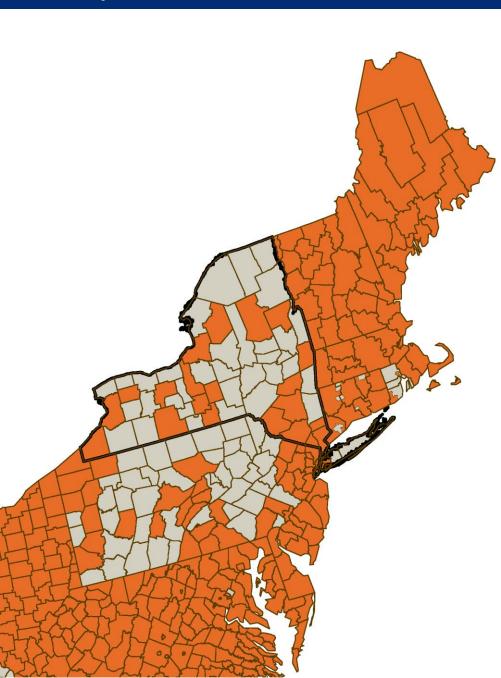
We hear from NYS Empire State Development...

"One premier site selection firm, that has sited numerous large-scale projects in NYS, expressly told [us] that communities have been excluded from consideration because this information was not easily available to the site selector."

- Strategic Business Division of Empire State Development







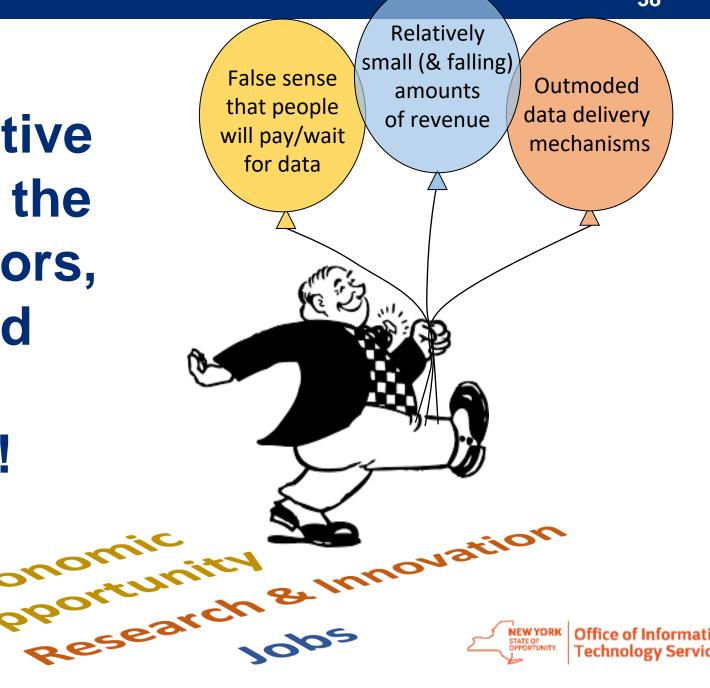
Northeast Regional Map of Open Parcel Availability

Economic opportunities, jobs/services, and innovation requiring open and fast access to parcel data can easily go elsewhere in our region....





Help put authoritative GIS parcel data in the hands of job creators, researchers, and innovators. Don't miss out!



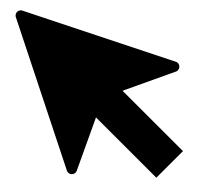
The New York State GIS Program Office has the technical capability already in place to make your county's parcel data accessible in one-click via data download and web services.

Just Say





Click



Is it beneficial to open access to parcel data?...

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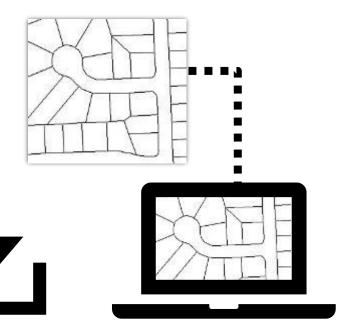
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Connect with Web Services

...The decision is up to you.



Thank You! GISBoundaries@its.ny.gov

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