

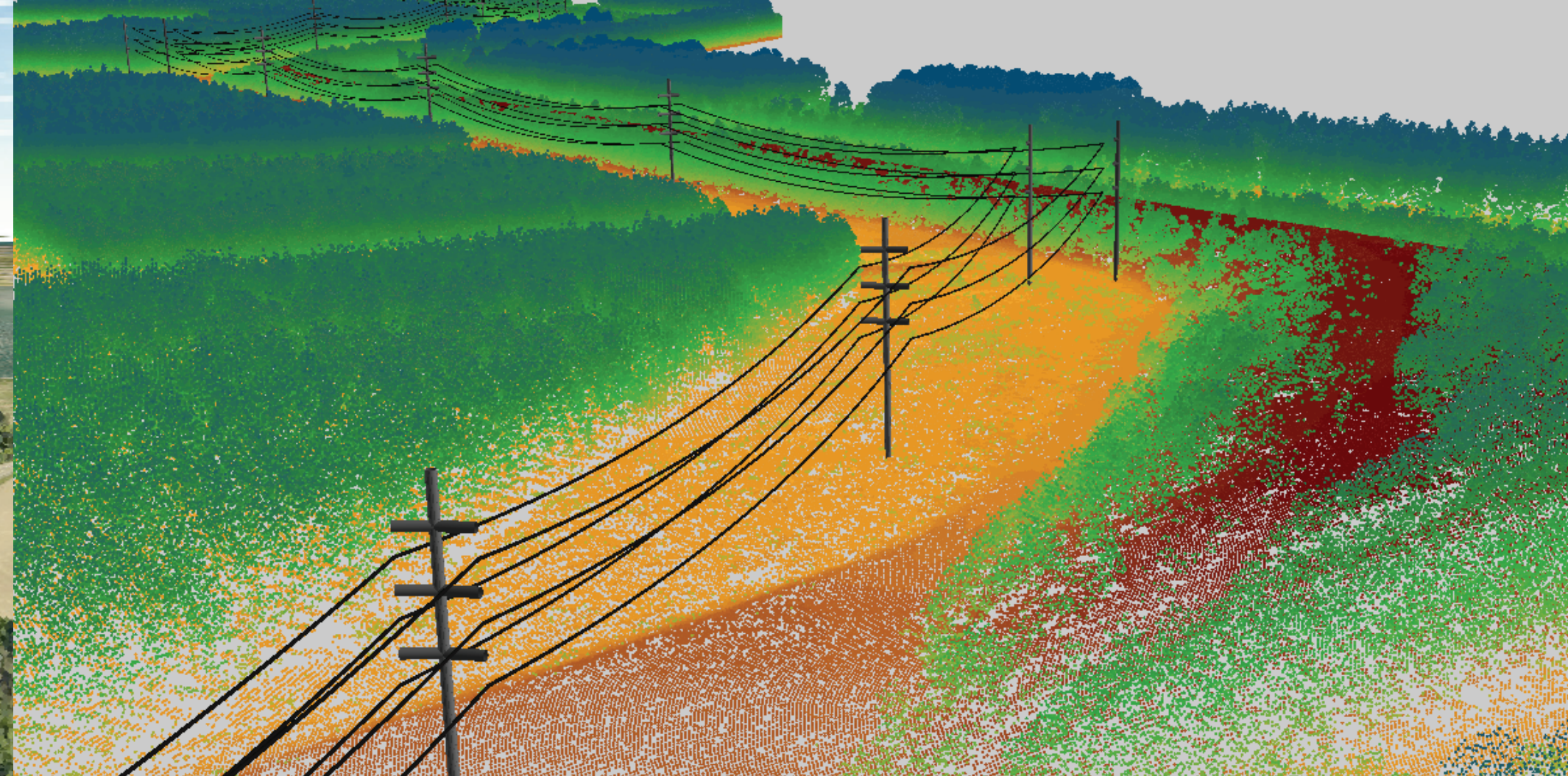
TREE  **RISK**™

A CLEAR PATH TO ANSWERS

 **EAGLEVIEW**®

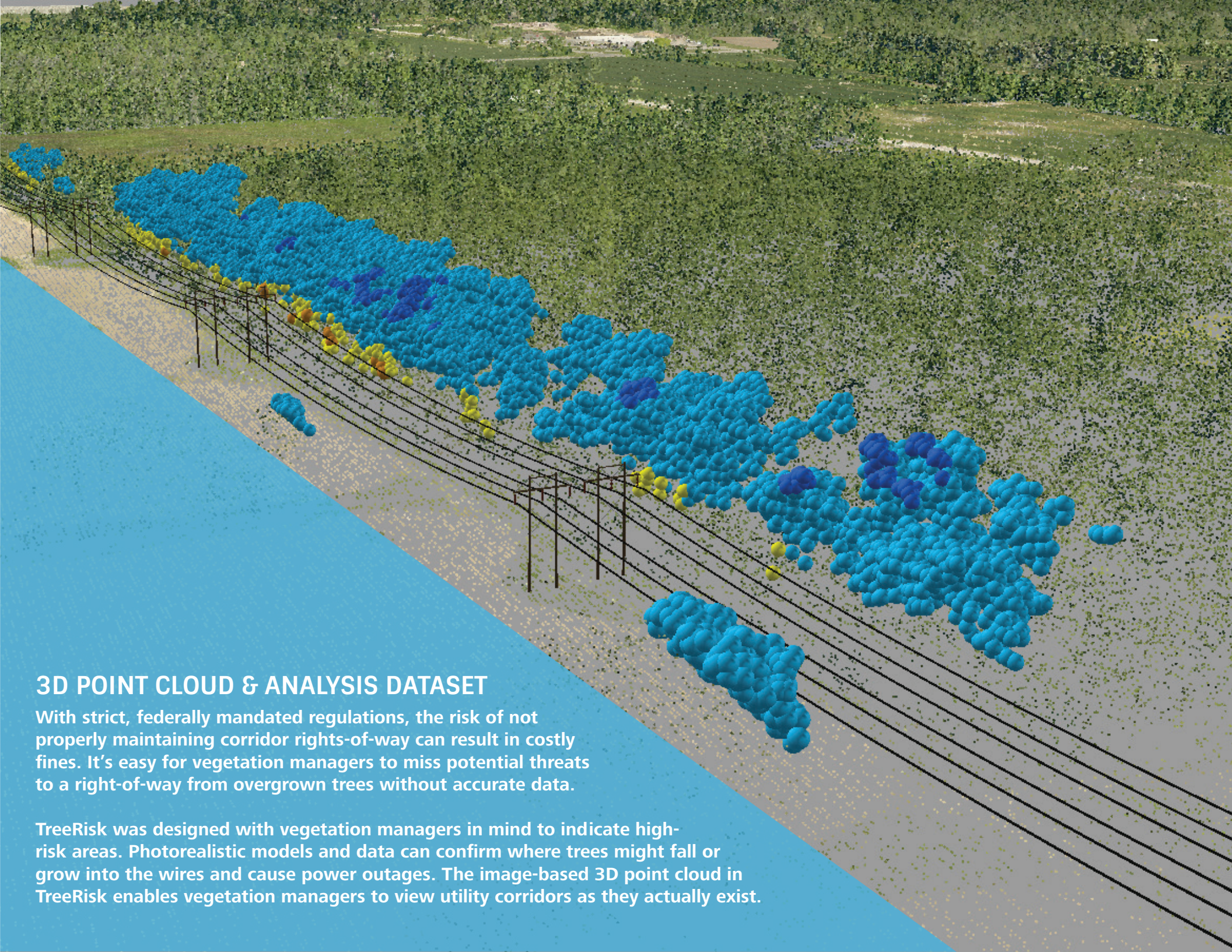
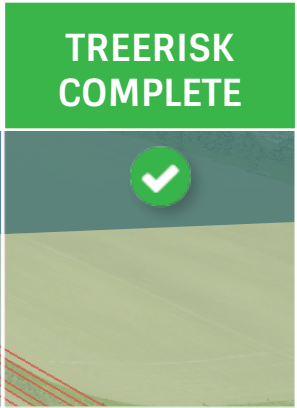
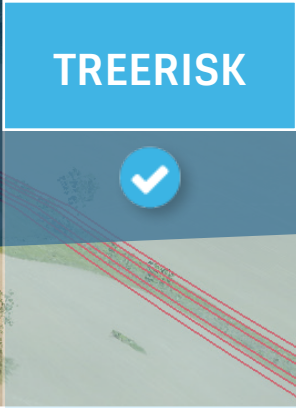
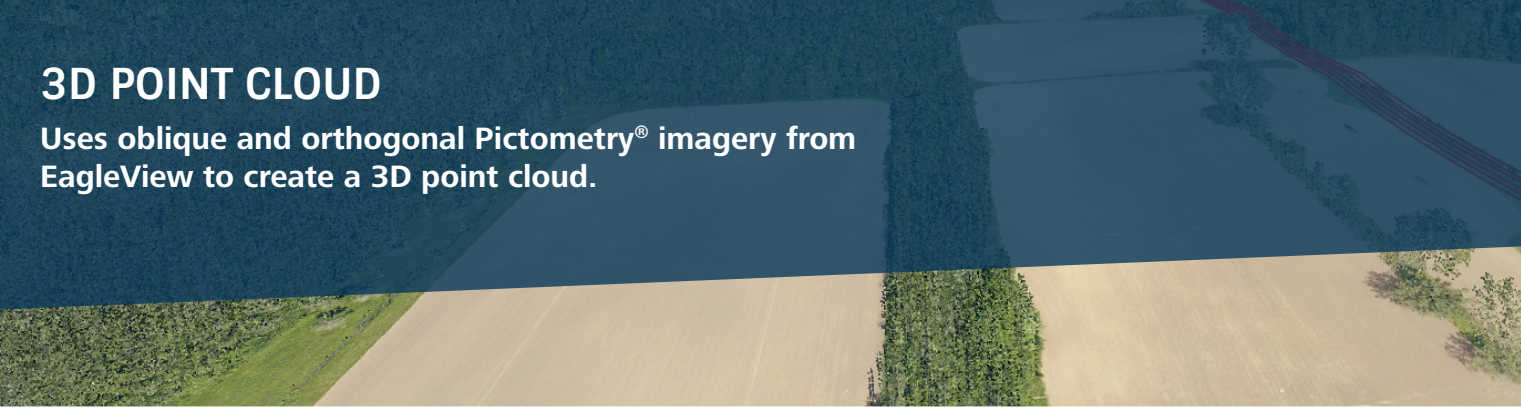
Utility vegetation managers often employ expensive, labor-intensive means for identifying vegetation hazards to electrical assets. Trees that fall onto or grow into transmission lines can cause power outages and other threats, subjecting utilities to steep regulatory fines.

TreeRisk™ from EagleView helps vegetation managers pinpoint encroachments and risks and confidently take action to mitigate them. Through TreeRisk's precision imagery, and complete datasets, users can view and utilize highly accurate maps. The solution enables utilities to reduce field time and significantly decrease mitigation expenses.



TREERISK ENABLES VEGETATION MANAGERS TO:

- Visualize vegetation encroachments on utility lines—including vegetation height above ground—using photorealistic oblique and orthogonal aerial imagery
- Reference the TreeRisk Mapbook in the office or in the field to view potential proximity clearance and overstrike issues, and to schedule field crews for mitigation
- Import imagery and 3D point cloud data into vegetation management systems
- Integrate utility GIS content and/or CAD line drawings to rank areas of greatest risk and prioritize mitigation
- Enhance risk assessment and mitigation to avoid regulatory fines and lost revenue

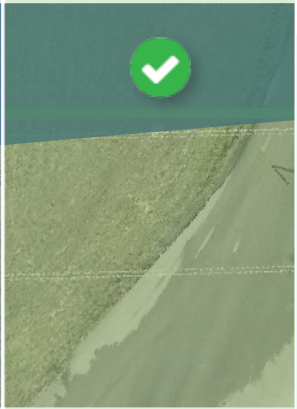
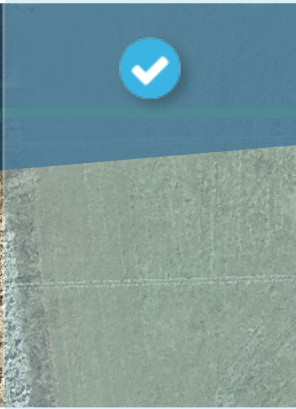


3D POINT CLOUD

Uses oblique and orthogonal Pictometry® imagery from EagleView to create a 3D point cloud.

ANALYSIS DATASET

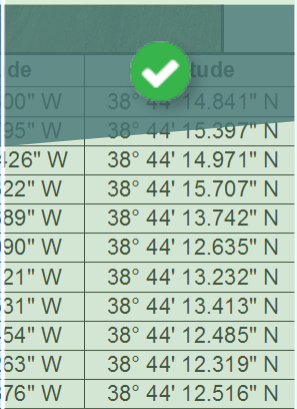
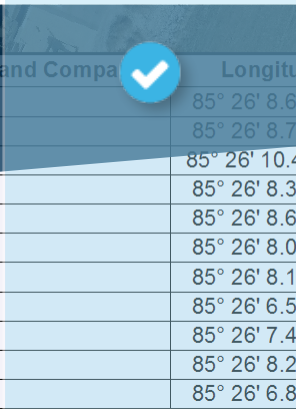
Detects vegetation encroachments and identifies locations of greatest risk along utility corridors.



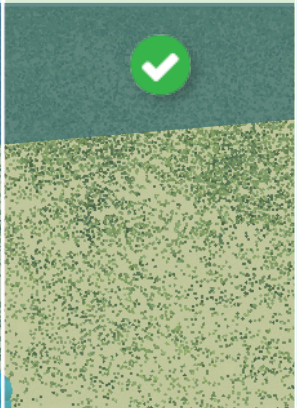
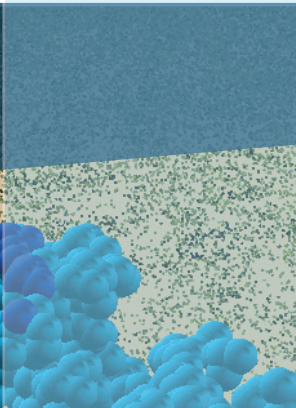
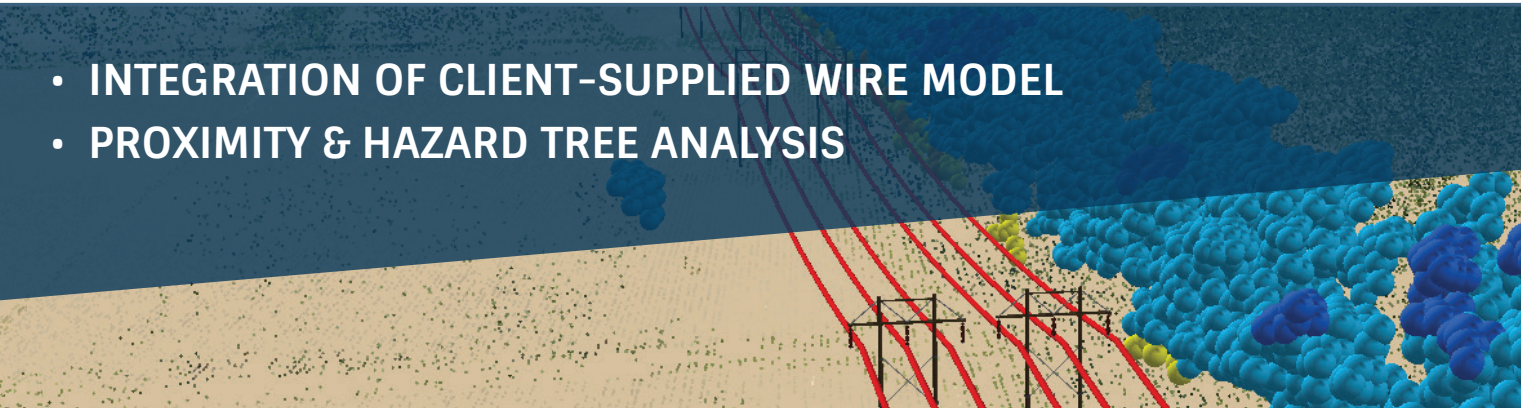
PDF MAPBOOK

Can be accessed on a mobile device or printed and referenced in the field to view clearance issues and potential fall-in risks

OBJECT ID	Height	Circuit	Nearest Tower	Date Field Reviewed	Field Reviewer Comments	Reviewer Name and Company	Longitude	Latitude
58	over 15 ft	Hanging Rock - Jefferson (IM)	610				85° 26' 8.600" W	38° 44' 14.841" N
66	over 15 ft	Hanging Rock - Jefferson (IM)	610				85° 26' 8.795" W	38° 44' 15.397" N
67	over 15 ft	Hanging Rock - Jefferson (IM)	610				85° 26' 10.426" W	38° 44' 14.971" N
71	over 15 ft	Hanging Rock - Jefferson (IM)	610				85° 26' 8.322" W	38° 44' 15.707" N
75	over 15 ft	Hanging Rock - Jefferson (IM)	610				85° 26' 8.689" W	38° 44' 13.742" N
77	over 15 ft	Hanging Rock - Jefferson (IM)	610				85° 26' 8.090" W	38° 44' 12.635" N
80	over 15 ft	Hanging Rock - Jefferson (IM)	609				85° 26' 8.121" W	38° 44' 13.232" N
82	over 15 ft	Hanging Rock - Jefferson (IM)	609				85° 26' 6.531" W	38° 44' 13.413" N
83	over 15 ft	Hanging Rock - Jefferson (IM)	609				85° 26' 7.454" W	38° 44' 12.485" N
							85° 26' 8.263" W	38° 44' 12.319" N
							85° 26' 6.876" W	38° 44' 12.516" N



- INTEGRATION OF CLIENT-SUPPLIED WIRE MODEL
- PROXIMITY & HAZARD TREE ANALYSIS



3D POINT CLOUD & ANALYSIS DATASET

With strict, federally mandated regulations, the risk of not properly maintaining corridor rights-of-way can result in costly fines. It's easy for vegetation managers to miss potential threats to a right-of-way from overgrown trees without accurate data.

TreeRisk was designed with vegetation managers in mind to indicate high-risk areas. Photorealistic models and data can confirm where trees might fall or grow into the wires and cause power outages. The image-based 3D point cloud in TreeRisk enables vegetation managers to view utility corridors as they actually exist.

Vegetation Proximity

- 5 Feet
- 10 Feet
- 15 Feet
- Towers

Hazard Tree

CATEGORY 1 -

- >10 ft overstrike

CATEGORY 2 -

- 5 ft understrike to 10 ft overstrike

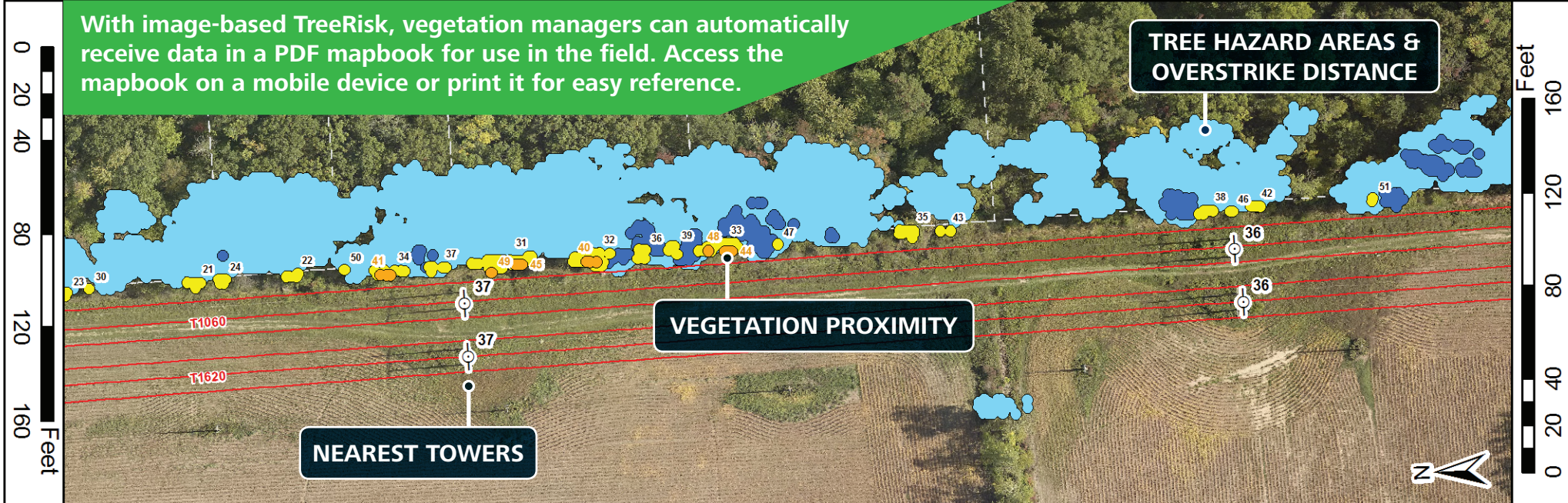
CORRIDOR SEGMENT MAP

Circuit

Page

T1060 & T1620

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OBJECTID	Proximity	Circuit	Nearest Tower	Date Field Reviewed	Field Reviewer Comments	Reviewer Name and Company	Longitude	Latitude
40	10 Feet	T1060/T1620	37				-78.9884788358294	43.1892787787057
41	10 Feet	T1060/T1620	37				-78.9884688152218	43.1896743876291
44	10 Feet	T1060/T1620	37				-78.9884809949298	43.1890148577002
45	10 Feet	T1060/T1620	37				-78.9884699790455	43.1894183304165
48	10 Feet	T1060/T1620	37				-78.9884760103462	43.1890523650852
49	10 Feet	T1060/T1620	37				-78.988485771718	43.1894707026098
21	15 Feet	T1060/T1620	37				-78.9884510370528	43.1900407405345
22	15 Feet	T1060/T1620	37				-78.9884519378339	43.189851829792
23	15 Feet	T1060/T1620	38				-78.9884471565908	43.1902945106235
24	15 Feet	T1060/T1620	37				-78.9884492430108	43.1899869917394
30	15 Feet	T1060/T1620	37				-78.988441110254	43.1902420470551
31	15 Feet	T1060/T1620	37				-78.9884633969586	43.1894482034308
32	15 Feet	T1060/T1620	37				-78.9884705792822	43.1892773429057
33	15 Feet	T1060/T1620	37				-78.9884703290368	43.1890308754963
34	15 Feet	T1060/T1620	37				-78.9884623599167	43.1896678537353
35	15 Feet	T1060/T1620	36				-78.9884708643382	43.1886698984406
36	15 Feet	T1060/T1620	37				-78.988469370172	43.1891806863546
37	15 Feet	T1060/T1620	37				-78.9884614232213	43.1895741764106
38	15 Feet	T1060/T1620	36				-78.9884823816779	43.1880957768308
39	15 Feet	T1060/T1620	37				-78.9884640154206	43.1891201029249



A CONFIDENCE BUILDER FOR VEGETATION MANAGERS

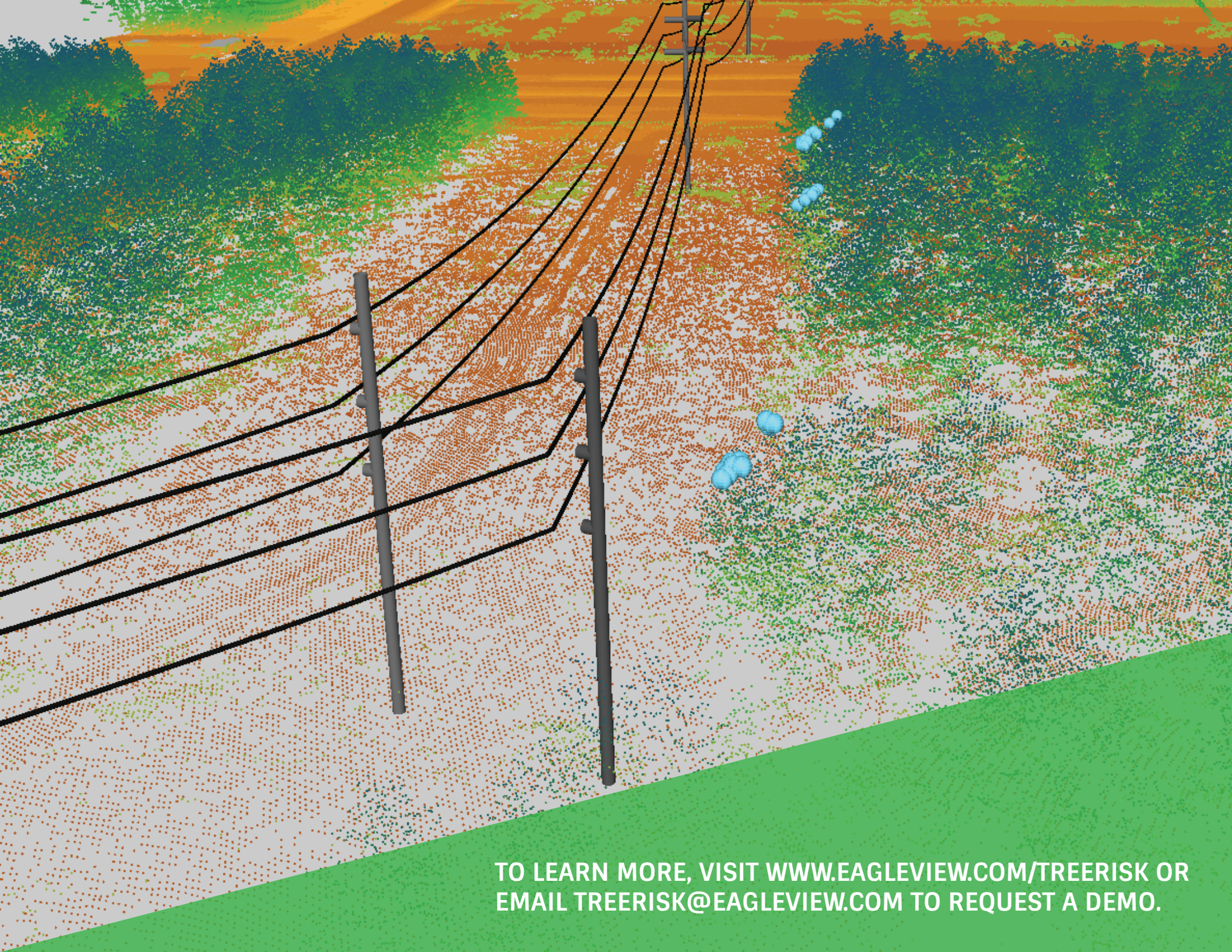
Ryan Blothenburg, Western Division Transmission Line Forester for National Grid, manages the western third of New York state, which includes roughly 2,800 circuit miles of transmission line over an 8,400-square-mile area.

During the summer, a transmission line had “tripped” a couple of times, meaning there was a momentary outage. Blothenburg asked the transmission line department if the location had been similar both times. They confirmed that both outages had occurred in the same 20-span section.

Before using TreeRisk, Blothenburg would have had to send crews out to patrol the entire 20 spans, which could be time-consuming and difficult depending upon terrain. Yet with access to TreeRisk data, Blothenburg was able to make the process quicker and more efficient.

“What I simply did was page through my TreeRisk mapbook,” Blothenburg said. “I saw that there was only one potential location where there could be an issue from vegetation and sent a crew right there. They were there in 20 minutes and determined that [the vegetation] couldn’t have been the cause of the momentary outages. And from there our work was done, so you’re talking a huge cost savings there.”

Blothenburg called this increased efficiency a big confidence builder. “You’re not sitting there the entire day to find out if [vegetation] may be the cause of the problem,” he said. “It allows you to answer the question and move on to the next task.”



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EMAIL TREERISK@EAGLEVIEW.COM TO REQUEST A DEMO.