

[www.syncenergyai.com](http://www.syncenergyai.com)  
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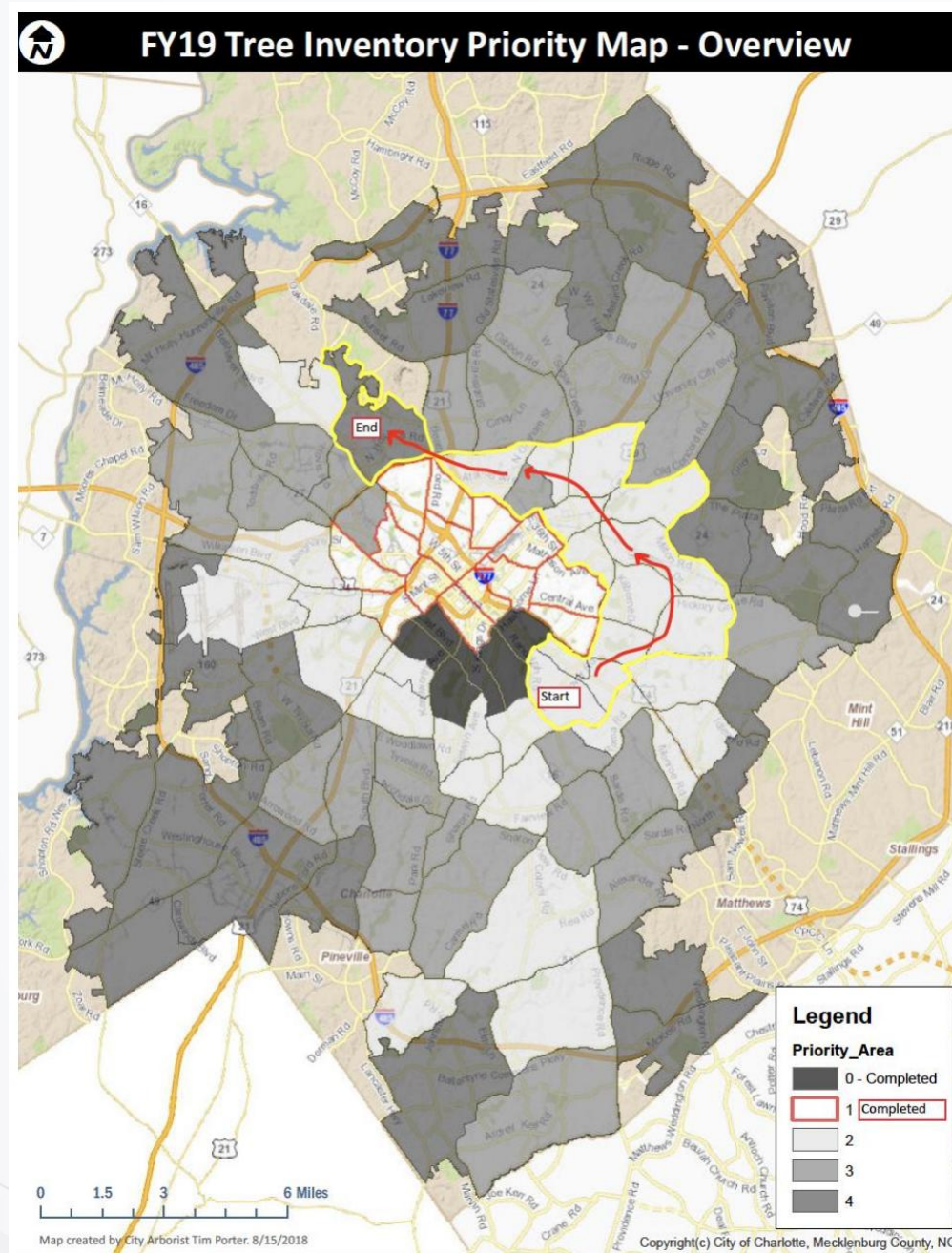
# SYNC ENERGY AI – THE MISSION

We help public service and infrastructure organizations to increase safety by proactively identifying high-risk vegetation

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# CLIENT ENGAGEMENT PROCESS

**1** Clients selects area of interest

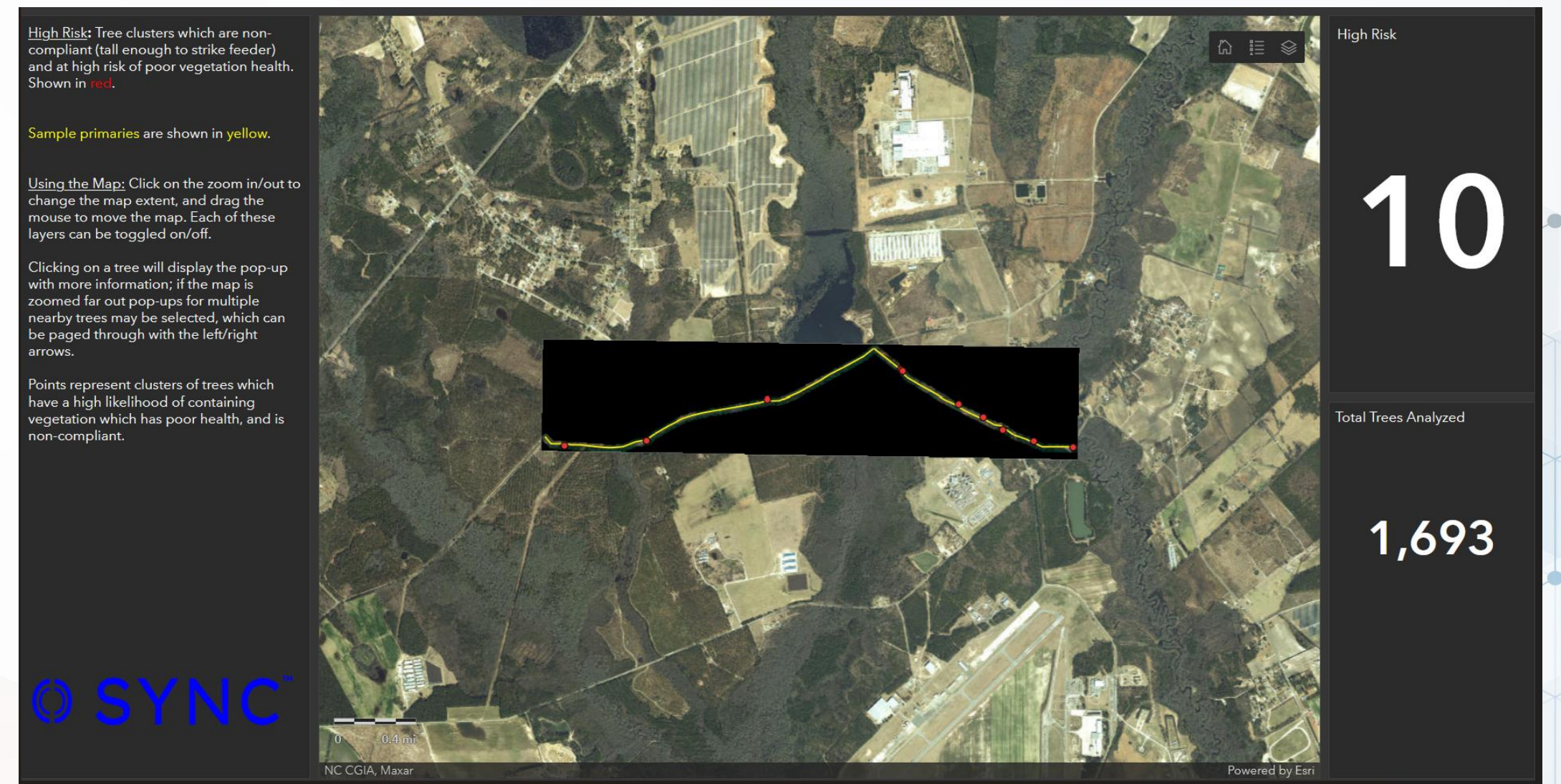


**2** SYNC measures vegetation health using high resolution satellite imagery

**PLATFORM**

Agent-Based Power System Simulator (Load Flow, 8760, Load Forecast, Fault Analyst)	Critical National Infrastructure (CNI Firewall) and SOC2
Weather Forecast Models (10km resolution, hyper-local is also possible)	Satellite Imagery of Network and Assets (15-30-50 cm resolution)
Finite Element Simulator to study interaction of wind speeds on poles/assets	Monte-Carlo Simulator for simulating 1000s of scenarios
Resilience and Reliability	
Image Analytics, Timeseries forecasting, Classification Machine Learning models, Neural Networks	

**3** SYNC creates online dashboard of high risk vegetation.



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# CUSTOMERS & PARTNERS



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# THE OPPORTUNITY



Electric utilities have a limited VM budget and staff



Hard to monitor entire service areas because utility powerlines run through many miles of lush forests



Tree fall-in can lead to power outages, fires, and other catastrophes.



A more proactive, cost-effective and efficient approach is needed to identify poor health vegetation in the right of way

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# THE SYNC ADVANTAGE

## RISK REDUCTION

Proactively identify high risk vegetation, up to a 90% accuracy

## COST REDUCTION

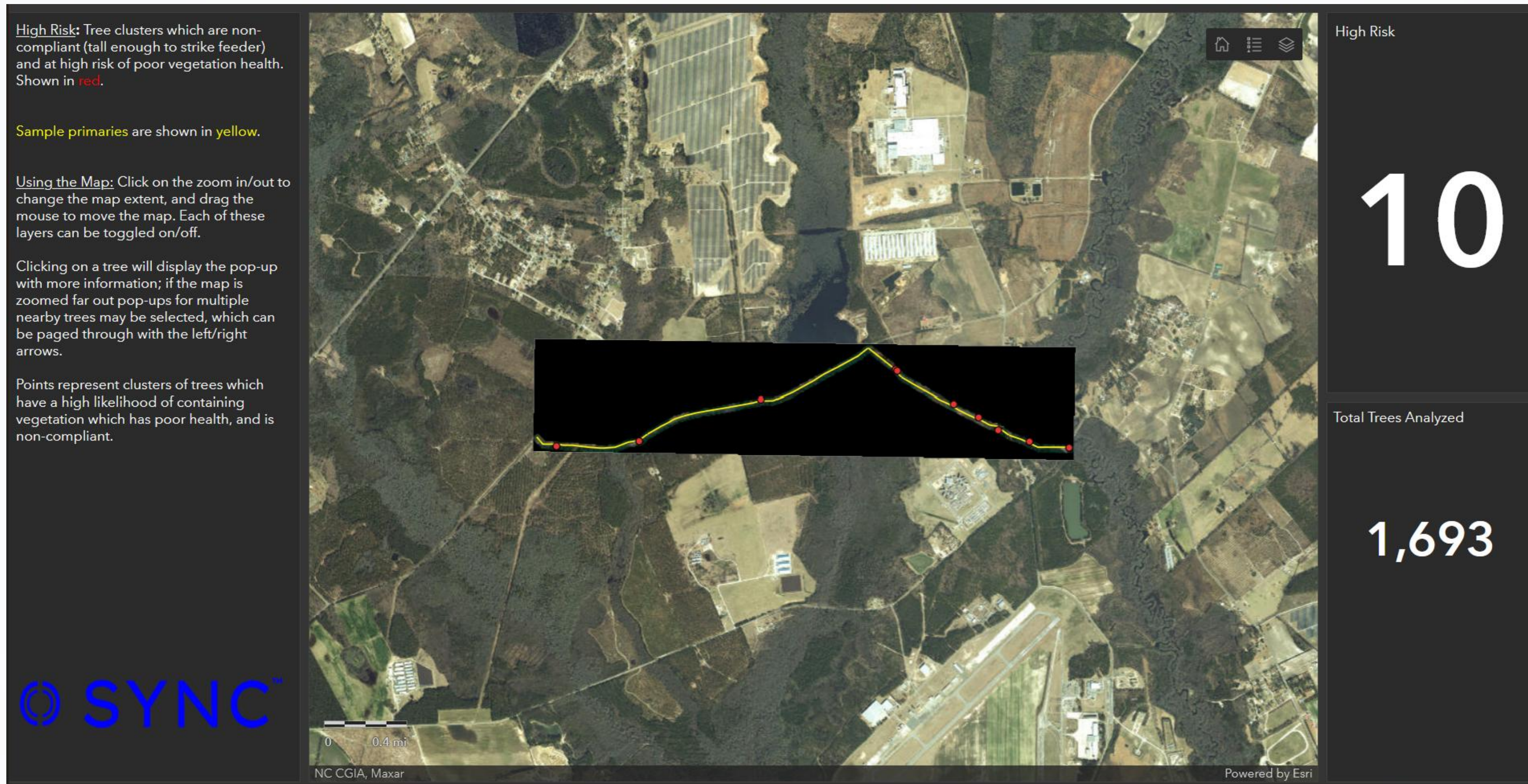
Perform vegetation health inspection at 1/5 the cost of alternative methods

## EFFICIENCY GAINS

Do vegetation health inspection in 1/10 the time used by alternative methods

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# THE SYNC SOLUTION



**Vegetation Management Dashboard** - Identify high risk vegetation in the right of way up to 90% accuracy

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## CONTACT

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# CLIENT TESTIMONIAL ([VIDEO LINK HERE](#))

“Using aerial photography, it is really impressive what the team has put together so far”

- David Wolfe, Deputy Director of General Services, City of Charlotte, North Carolina



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