

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

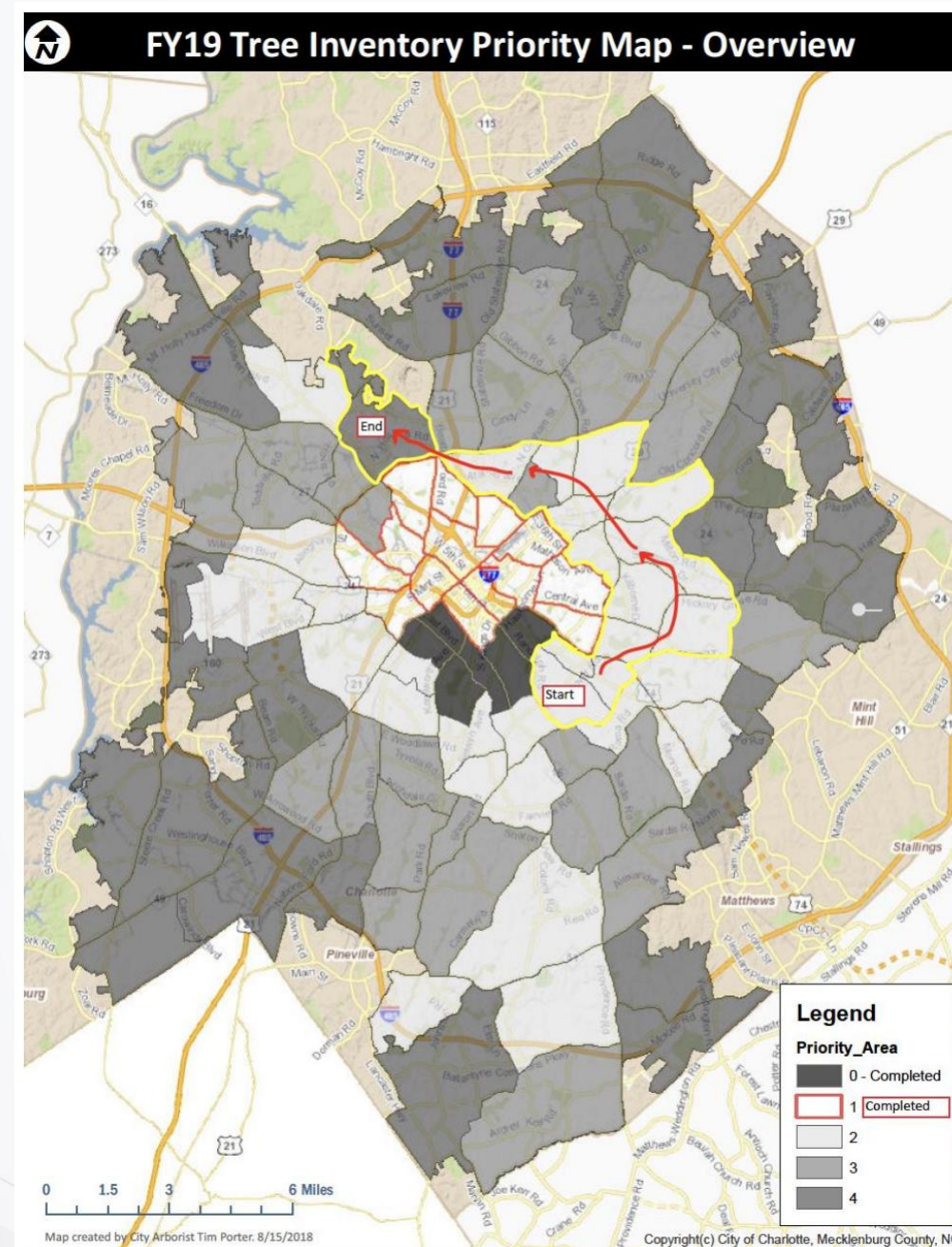
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CLIENT ENGAGEMENT PROCESS

1 Clients selects area of interest

2 SYNC measures vegetation health using high resolution satellite imagery

3 SYNC creates online dashboard of high risk vegetation.



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)

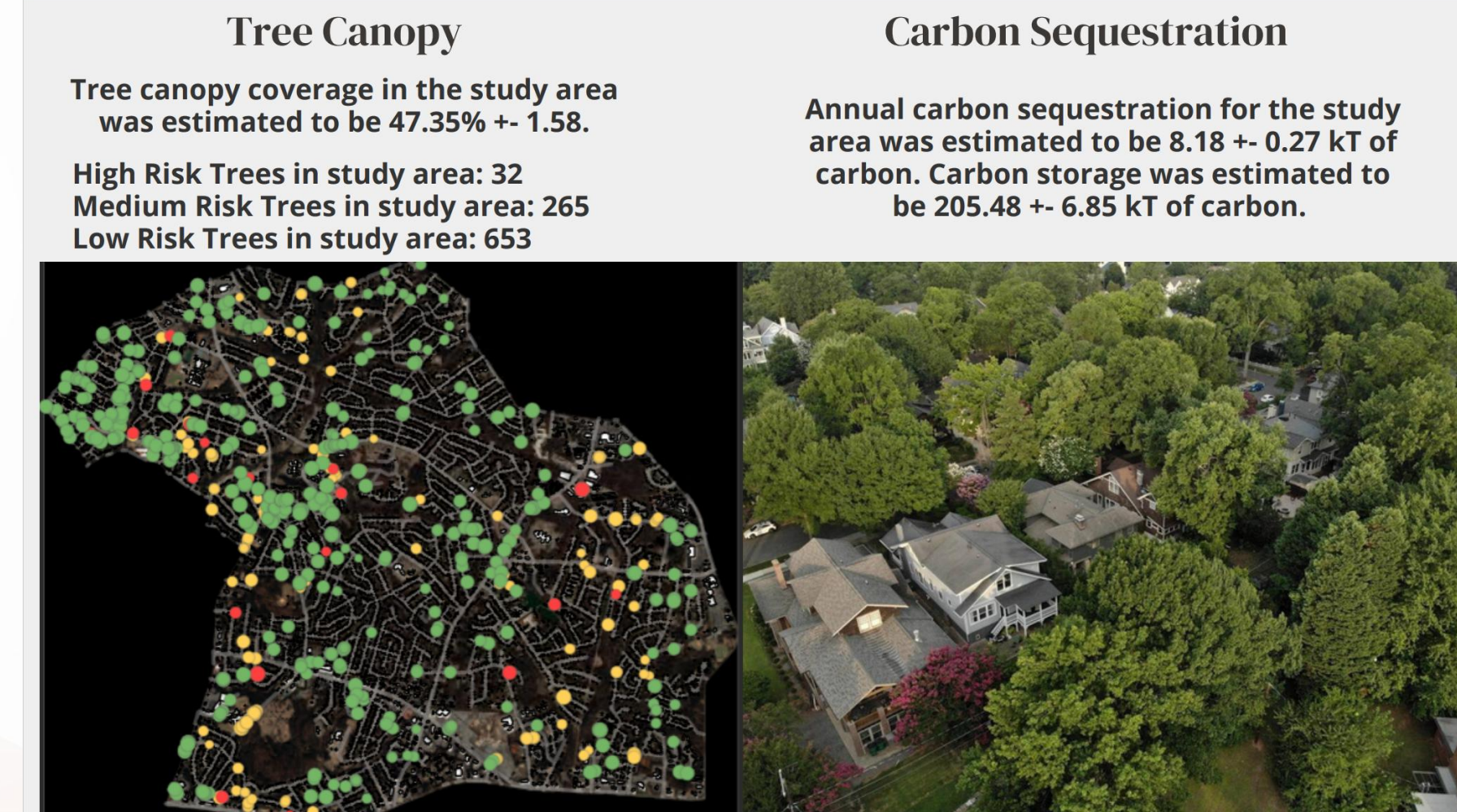
Satellite Imagery of Network and Assets (15-30-50 cm resolution)

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



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CUSTOMERS & PARTNERS



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THE OPPORTUNITY



Every year, cities need to monitor tree canopy health and coverage



Monitoring the tree canopy of an entire city is costly and time consuming when done manually



Many cities have lush urban forests, which requires efficient ways to manage and minimize canopy-related risks



Therefore, many cities need a proactive, rather than reactive approach to minimize tree canopy risks and management costs

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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

Tree Canopy

Tree canopy coverage in the study area was estimated to be 47.35% +/- 1.58.

High Risk Trees in study area: 32

Medium Risk Trees in study area: 265

Low Risk Trees in study area: 653



Carbon Sequestration

Annual carbon sequestration for the study area was estimated to be 8.18 +/- 0.27 kT of carbon. Carbon storage was estimated to be 205.48 +/- 6.85 kT of carbon.



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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