What if...

80% of your data entry was already done before you opened PLS?

Talon AI + PLS-CADD / PLS-POLE

PLS ATUG · Madison, Wisconsin

Today's Journey

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Reality Capture Meets Engineering Excellence

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A Real Project. Every Step.

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The Scale

Throughput, Compliance & Grid Impact

ACT 01

The Foundation

Reality Capture Meets
AI Colleague

RTK Enabled Drone capturing a distribution pole — every attachment, every measurement.

More Field Data Than Ever.

But how much of it is immediately useful for analysis?

Utilities Are Capturing at Scale

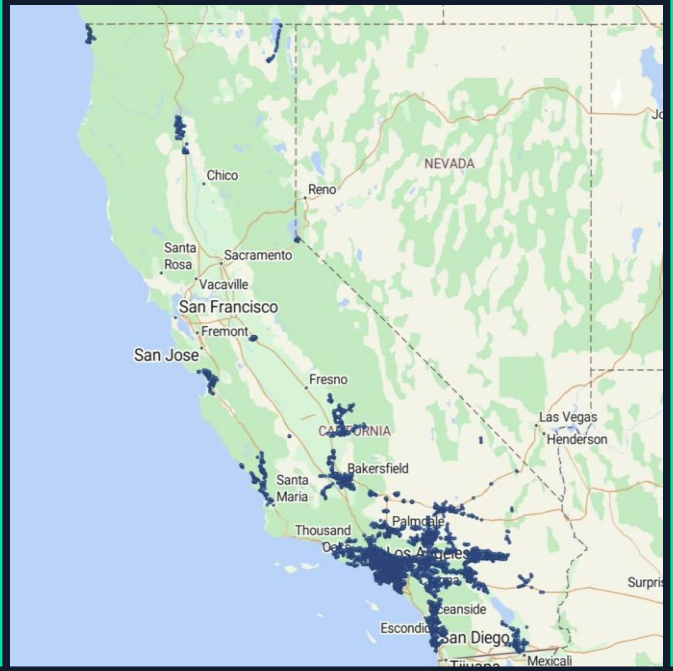
Drone and helicopter LiDAR surveys are now standard. The raw data is rich — but structuring it for modeling takes time.

The Bottleneck Is Data Entry

Engineers spend significant time manually entering attachment heights, span lengths, and pole geometry before real analysis can begin.

Talon's Role

A complementary intelligence layer — ingesting raw field data and producing a model-ready data package for PLS.



Active Talon project sites — Western US

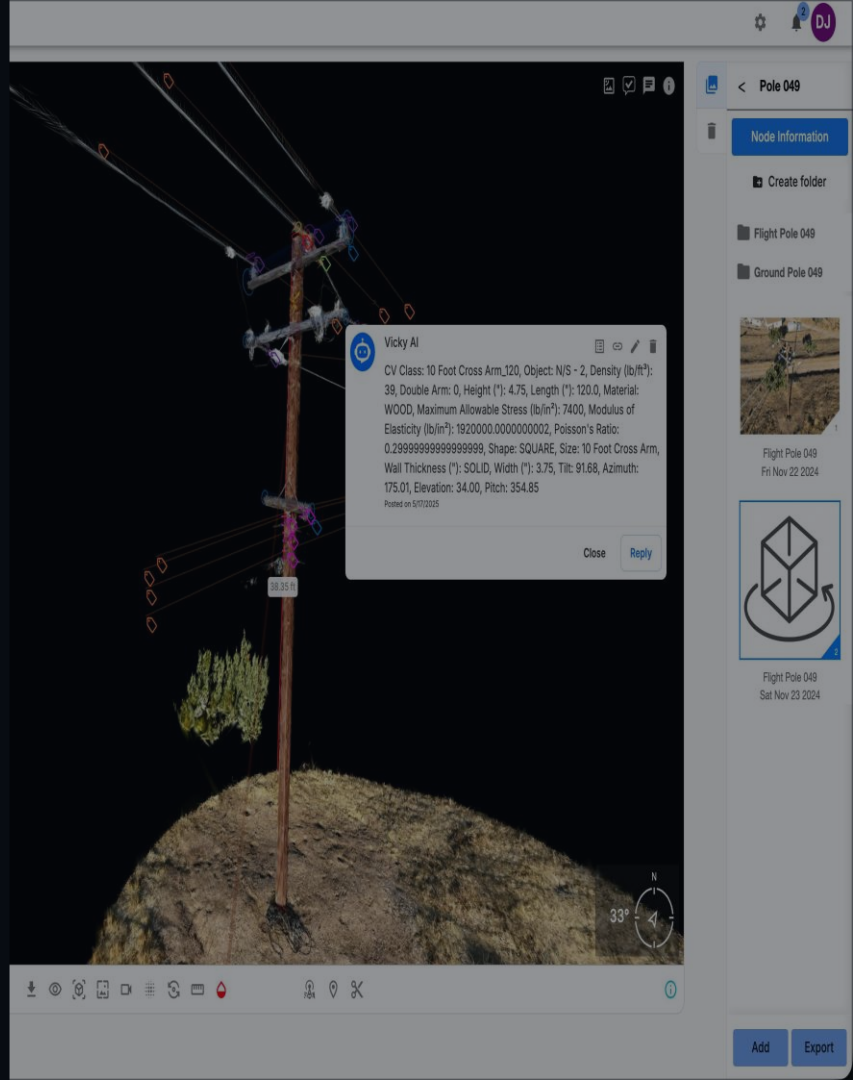
Shared Vision: Less time entering data. More time engineering the grid.

A C T 0 2

The Proof

A Real Project. Every Step.

Every pole. Every attachment.
Every measurement — attributed and ready.



This Is What We Start With.

Real field capture. A complex urban distribution pole — every wire, every attachment.

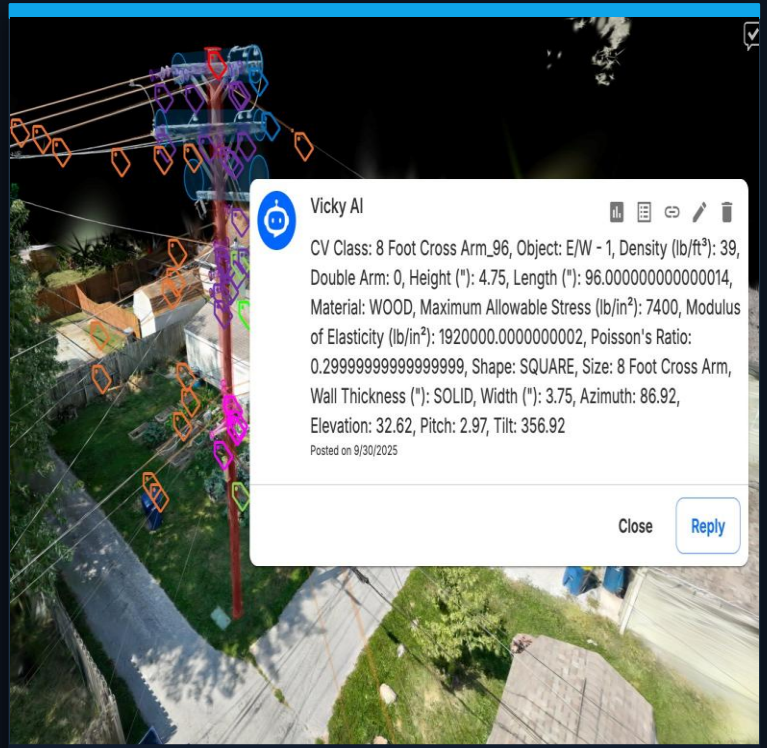
Raw drone image — 1 of 35–50 overlapping captures

The SPLAT model — dense, photorealistic, AI-ready

Vicky AI Gets to Work.

The moment the model is ready, Vicky AI deploys automatically — no manual trigger needed.

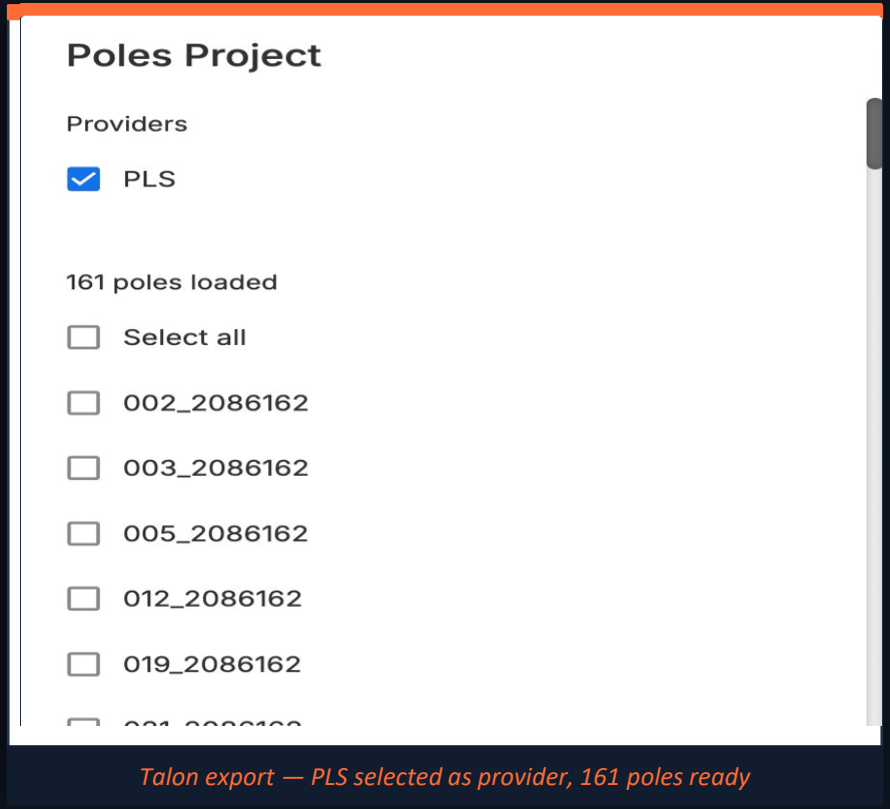
Every component tagged — cross arms, insulators, wires, hardware



CV Class, material, dimensions, azimuth, elevation, pitch, tilt

From Talon to PLS — One Seamless Handoff.

161 poles. PLS selected. Structured data package ready — no manual re-entry.

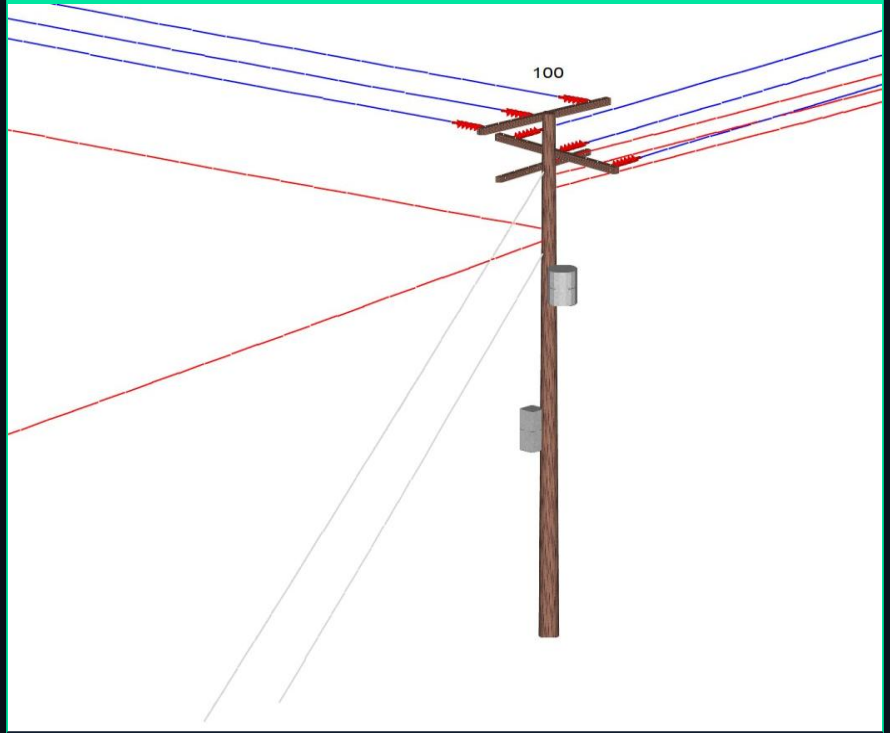


Talon export — PLS selected as provider, 161 poles ready

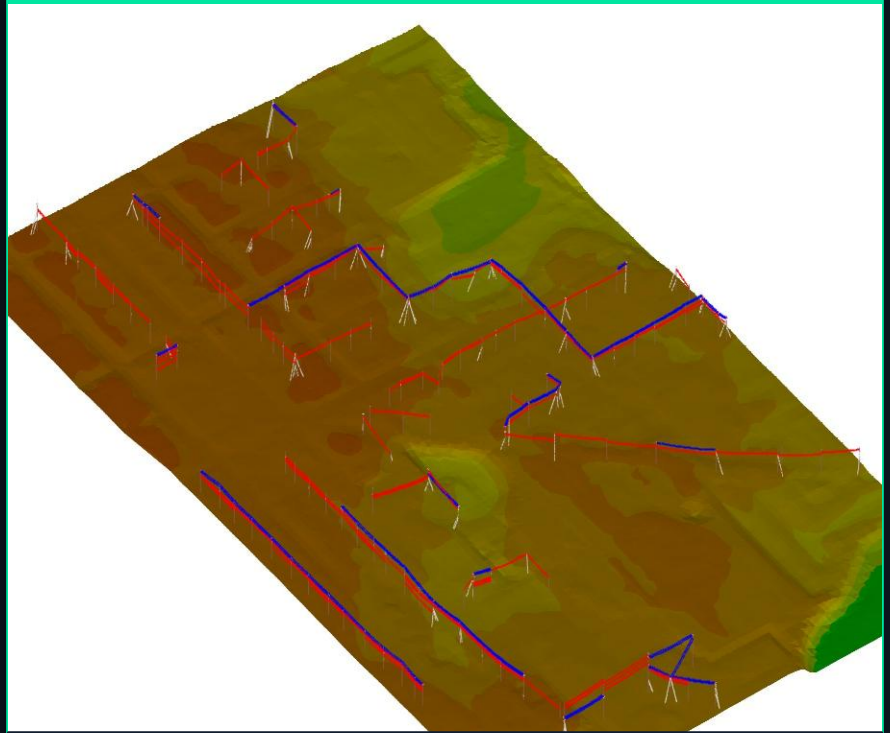
Structured data file — cross arm type, azimuth, attachment heights, connections

The Model Your Engineers Open.

Same pole. Same project. Fully built in PLS — pre-populated and ready for structural analysis.



PLS-CADD model — geometry, attachments, wires pre-populated



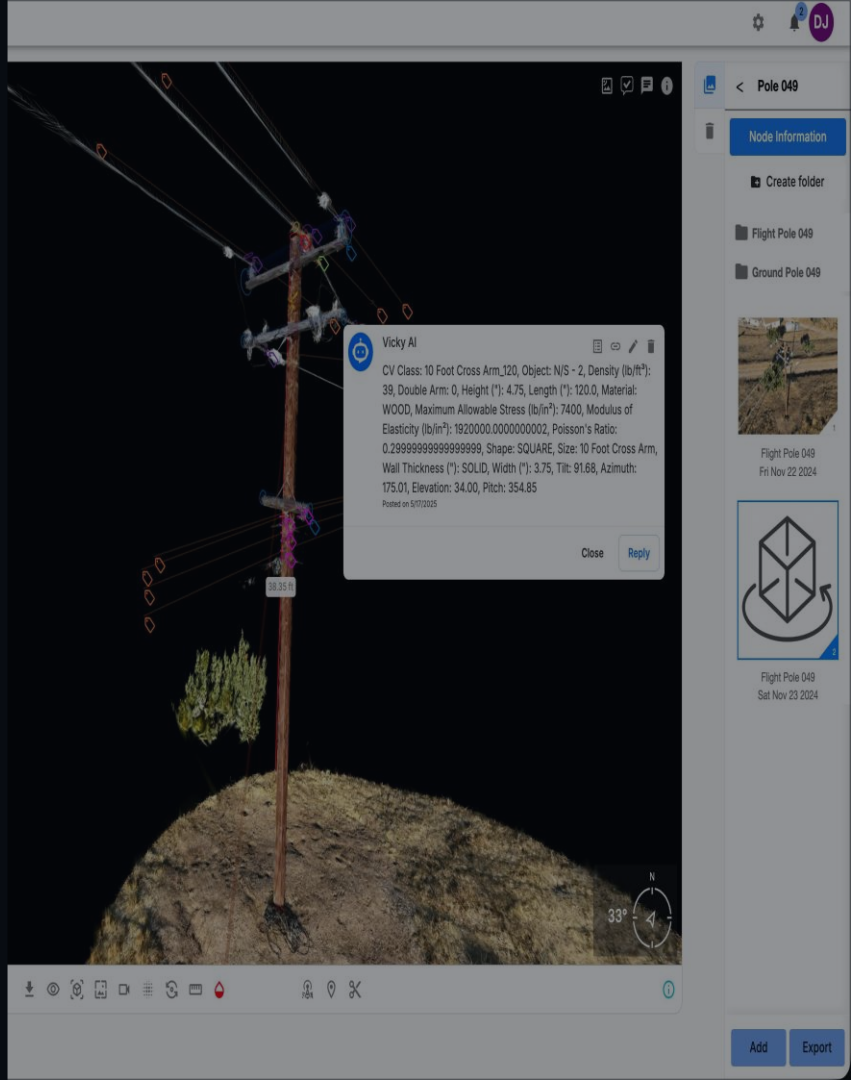
Full project — every pole, every span, on terrain. Ready for analysis.

A C T 0 3

The Unlock

Data Collection → Talon AI → PLS Model Creation

Talon speaks PLS's language.
Structured data in.
PLS models built and ready for engineering.



From Field to Model. Powered by Talon AI.

A seamless three-step process — your data in, a PLS-ready model out.

Field Capture

Your drone team, helicopter, or third-party data — Talon ingests any dense point cloud

Talon AI Analysis

Talon AI processes the data: identifying assets, extracting geometry, heights & classes

PLS Model Creation

A fully populated model ready for your team's structural analysis

[Screenshot: Talon platform or PLS model output — drop your screenshot here]

You don't start at Step 1.

You start at Step 5.

Talon pre-populates your PLS workspace — geometry extracted, attachments identified, model ready. You apply the engineering rigor.

The Time Math.

Per pole. Every pole.

TRADITIONAL DATA PREP

1

HOUR

of manual data entry
before analysis can begin

VS

TALON-POWERED WORKFLOW

6

MINUTES

model-ready package,
straight into PLS

That's not an improvement. That's a transformation.

AI That Scales to Your Project.

Not the other way around.

Done.

A Spot Inspection.

A single pole. A compliance check.
An urgent assessment.

Done.

A Hardening Program.

A corridor. A feeder.
Hundreds of structures.

Done.

A Full System Assessment.

Millions of poles.
An entire service territory.

Talon processes at the pace your project demands — proven at scale, built for any size.

Proven at 25,000+ poles / day

The Work Isn't Getting Smaller.

Annualized Grid Inspections

Modernization Mandates

Grid Hardening Programs

Talon makes sure your engineering team can keep pace.

A purpose-built AI platform that handles the prep work — so your engineers focus on what they were trained to do.

Keeping Pace with the Work That Matters.

Annualized inspections. Modernization. Hardening. Talon helps your team's capacity match the mandate.

Stay Current on Inspections

Annualized grid modeling cycles become achievable — not aspirational. Talon processes at a pace that keeps your inspection program on schedule.

Accelerate Modernization

Faster modeling means faster identification of at-risk assets. More structures analyzed per cycle means proactive hardening, not reactive repair.

Better Outcomes for Consumers

When engineers can analyze more of the grid, more often, the result is a more reliable system for the customers your work is built to serve.

Talon helps you scale.

Ready for your engineers to make engineering decisions.

The data entry is handled.
The model is waiting.
The analysis is yours.

Let's Connect

Come find us — we'd love to show you a live demo of the Talon AI → PLS workflow.