Case Study: Vegetation Encroachment Risk Assessment

CUSTOMER	**TIER ONE IOU WITH MILLIONS OF ELECTRIC AND GAS CUSTOMERS**
PROJECT	**DISTRIBUTION NETWORK VEGETATION ENCROACHMENT AND RISK ASSESSMENT**
ISSUES, CHALLENGES & GOALS	• Fire threat risk is high across large parts of the electric service territory • No information on actual vegetation encroachment and fuel load rating (FLR) of ground cover • Tree trimming is based on route miles, not prioritized where it's needed the most
SOLUTION DESCRIPTION	• Capture 360° imagery and LiDAR along overhead distribution lines based on threat level • Perform data analytics to extract poles and conductors with critical attributes • Run automated process to determine vegetation encroachment to conductors and ground FLR
IMPACT & BENEFITS	• 20,000+ miles of accurate, detailed encroachment & FLR results that were previously unavailable • Fine-grained data points (every 3 ft) aggregated as risk vectors along spans with severity • Identified over 180,000 high fire threat (4 ft or closer) encroachments

cyclomedia