Case Study: New Build/Upgrade Network Engineering

CUSTOMER	**TIER ONE NATIONAL TELECOM SERVICE PROVIDER**
PROJECT	**FIBER AND 5G NETWORK ENGINEERING**
ISSUES, CHALLENGES & GOALS	Before engineering can begin, a field survey is required to inventory assets and site conditions. Field surveys are performed manually by experienced personnel walking out the routes. A manual "boots on the ground" approach is painstaking, expensive, and extremely time consuming.
SOLUTION DESCRIPTION	• Drive and capture 360° imagery + LiDAR along the network design Area of Interest (AOI) • Perform data analytics to extract surface and overhead asset details as well as road base/ROW • Integrate precise, detailed imagery and extracted asset data with the GIS/CAD design system
IMPACT & BENEFITS	• Pre-engineering field work is eliminated reducing asset inventory time/cost by at least 50% • Office staff have instant access to precise, detailed imagery; this means designs are accurate, re-work due to mistakes is avoided, and on-going site visits are no longer needed • Engineering costs are controlled, and time-to-market is improved with a reliable schedule

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