



2026 | CASE STUDY | NETWORK SCIENCE

WINDMILL INSPECTIONS POWERED BY DEEP TECH

Overview

1.

Windmill inspections required technicians to physically climb turbines at dangerous heights in remote locations with poor connectivity. This posed serious safety risks and made real-time expert guidance nearly impossible. Network Science deployed an AR platform for remote video collaboration, giving on-site engineers access to expert guidance – hands-free, even in low-bandwidth conditions.

Solutions & Strategy

2.

Deployed an AR-enabled remote assistance platform that connected field engineers with remote experts, improving inspection efficiency, safety, and decision-making in challenging wind farm environments.

Solution

AR-Enabled Diagnostics

Real-Time Expert Collaboration

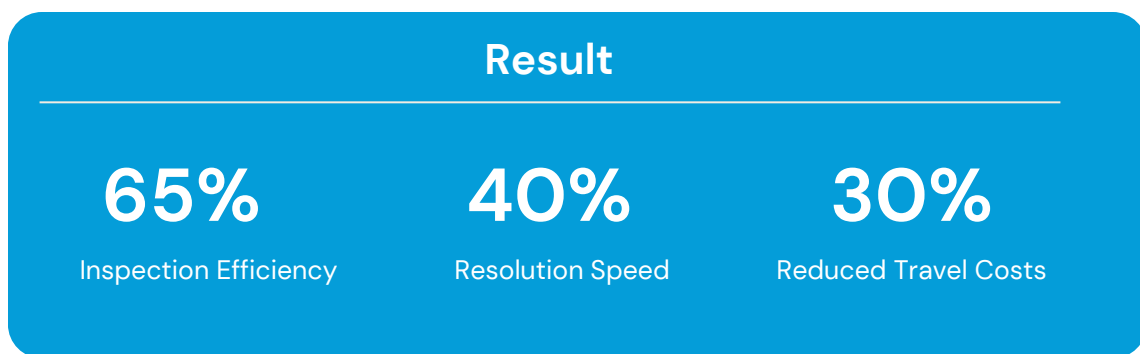
Low-Bandwidth Optimization

Hands-Free Field Operations



4.

- Inspection efficiency increased – remote guidance reduced time-to-resolution.
- On-site safety significantly improved through hands-free operations and remote safety protocol guidance.
- Expert travel costs eliminated, generating substantial cost savings.
- On-site teams continuously upskilled through knowledge transfer from remote specialists.



AR-enabled remote collaboration made windmill inspections safer, faster, and more cost-effective. By putting expert guidance directly in engineers' field of view – without requiring travel or high-speed internet – Network Science transformed a hazardous manual process into a connected, intelligent operation.