

Tunnel Inspection Technology



Traditional

- Waiting for unpredictable access periods
- Complicated field inspection forms
- Long and tedious labor hours
- Subjective evaluations



NEXCO Technology

- Capture tunnel liner in one go
- Accurate measurements of findings
- Miles of data captured in a single night
- Proactive decision-making



Benefits

How does this technology benefit tunnel owners?

The better question is how does it not benefit owners. Although a critical part of maintaining tunnels, inspection work is subject to limited access and track rights, extending project periods over long terms. The quality of imagery obtained by TSS rules out the need for this by capturing active and passive leaks, efflorescence, cracking, spalling, and other forms of deterioration.



The System

High-performance thermal, line, and 360 cameras make up an array that records a portion or 360 degrees of the tunnel liner. The system captures high-definition imagery that is translated into detailed and customized deficiency maps, locating and quantifying how much repair work is needed for upcoming projects. The deliverables are accessible online through NEXCO's web reporting platform.

Accreditations

“To accommodate limited time windows for inspection opportunities, we used mobile imaging technology to rapidly identify structural deterioration within both concrete and steel tunnel liners. Work carried out in subsequent projects benefitted from the scanning data because known leakages and other deterioration were specified in interactive fill-forms given to on-site inspectors, expediting their processes.” – Project Manager at Gannett Fleming

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