



**engenium**  
smart project delivery

## Asset Reliability

Engenium adds value by establishing the reliability of your infrastructure using a tiered assessment process:

1. **Asset Reliability Study:** Overview to establish assets that are likely to be unreliable.
2. **Asset Remediation:** Establish repair and remediation options.
3. **Asset Lifecycle Management:** Service life and lifecycle cost establishment to determine a balanced asset management outcome.

Engenium delivers smart engineering advice. We collaborate with stakeholders throughout all phases of the project and asset lifecycle to establish risk, cost and management requirements to achieve asset reliability.

### Our Services

- Risk Assessment
- Expert investigation
- Desktop assessment and review
- Diagnostic testing, Non-Destructive Testing (NDT) and sampling
- Inspection and specialist monitoring advice
- Remediation options assessment
- Schedule and plan development
- Materials selection
- Deterioration prediction and modelling.

### Our Capabilities

#### Asset Reliability Study

- High level inspection, condition and risk assessments
- Review of relevant documentation and data
- Stakeholder consultation
- Site inspection imagery
- Drone inspection.

#### Asset Remediation

- Desktop structural assessment
- Degradation diagnosis and mechanism determination
- NDT inspection guidelines
- Critical member and element review
- Targeted detail investigation
- Analysis of repair and remediation options.

#### Asset Lifecycle Management

- Targeted site investigation including NDT and sampling for laboratory testing
- High level structural analysis (e.g. FEA)
- Remediation strategy development
- Maintenance strategy development
- Service life estimates
- Life cycle analysis (for budget estimates)
- Outcomes documented in a succinct report, supplemented with drawings and images.

**Delivering Value. Delivering Results.**