

Industrial and urban noise and vibration



Trinity Consultants Australia offers a comprehensive range of noise monitoring services, including industrial and urban noise and vibration.

Our team have significant experience in monitoring, analysing and assessing noise and vibration impacts, and assisting clients at all stages of project cycles. We offer targeted expertise in development applications and preparing environmental impact statements.

We also have a range of specialist monitoring instruments and software, including telemetry and high sensitivity vibration monitors, to help us cover diverse projects and work sites simultaneously.

Our capabilities

Applications and certifications

- Environmental impact statements, environmental permits
- Development application reports – material change of use, reconfiguring a lot, etc
- Registered Professional Engineer Queensland (RPEQ) certification of noise solutions, as required by some regulatory authorities
- AS3671 – Road traffic noise intrusion – Building siting and construction
- AS2021 – Aircraft noise intrusion – Building siting and construction
- Green Star, WELL and other sustainability certifications
- Preparation of noise management plans

Modelling and management

- 3D computational modelling of environmental and industrial noise using specialist software
- Results presented as 2D contour plots and 3D renders of predicted noise levels
- Noise control options also considered through computational modelling (cost-effective means of assessing different options)

Assessments, monitoring and management

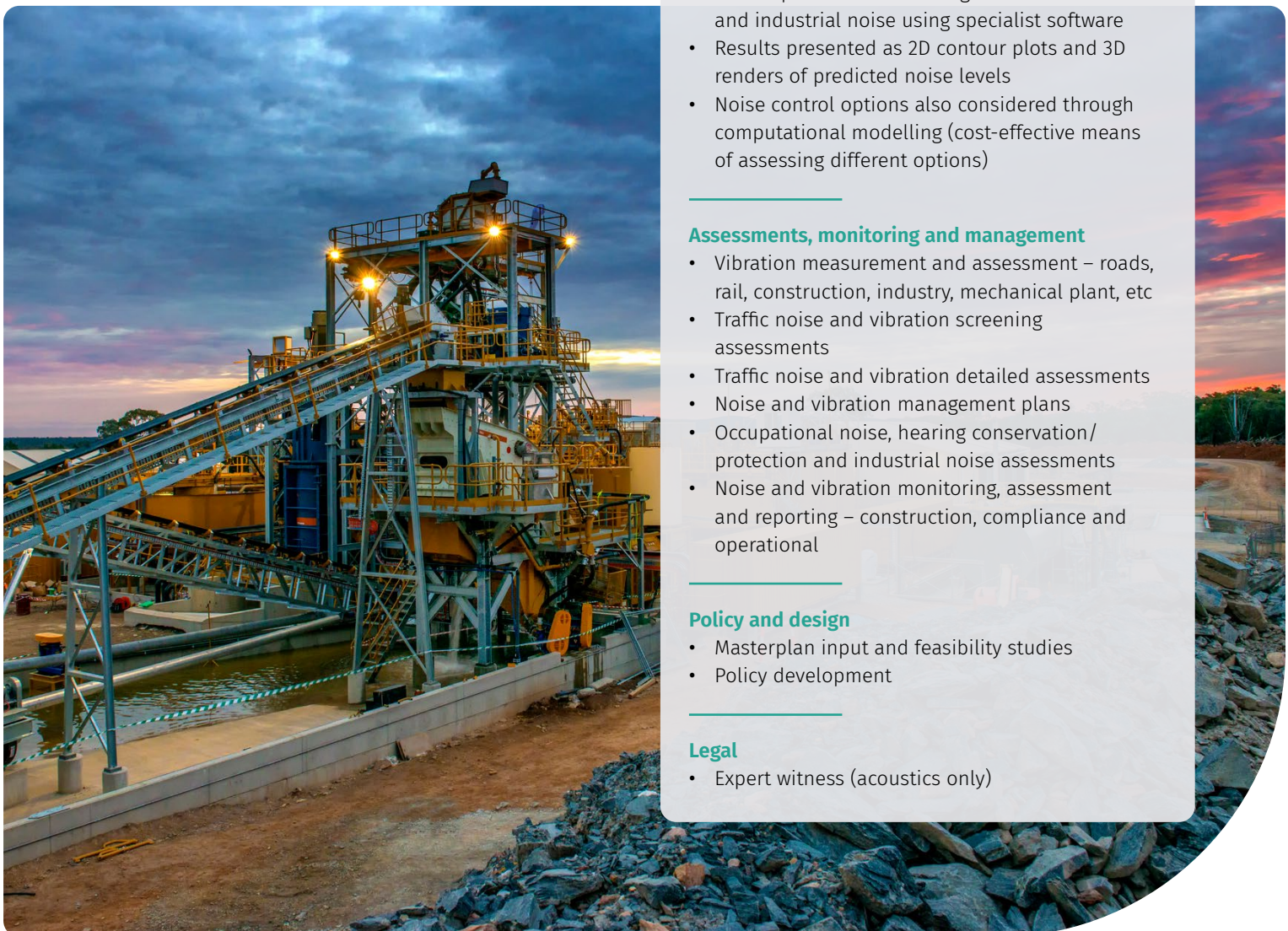
- Vibration measurement and assessment – roads, rail, construction, industry, mechanical plant, etc
- Traffic noise and vibration screening assessments
- Traffic noise and vibration detailed assessments
- Noise and vibration management plans
- Occupational noise, hearing conservation/ protection and industrial noise assessments
- Noise and vibration monitoring, assessment and reporting – construction, compliance and operational

Policy and design

- Masterplan input and feasibility studies
- Policy development

Legal

- Expert witness (acoustics only)





Software and modelling

At Trinity, we use software including CadnaA, SoundPLAN and more to create advanced 3D modelling of room acoustics and sound insulation.

Our software allows us to provide targeted noise control solutions. Drawing on our knowledge of legislation and industry, we can use our modelling to support and inform comprehensive applications and noise management services.

Certifications and standards

- JAS/ANZ 3rd Party Certified by SCI Qual International (certification number 4277) for our Quality Management System, which is in conformance with ISO 9001:2015
- Level 3 Prequalification status with Queensland Government, PQC Registration Certificate Number 4663A
- Multiple staff who hold a Registered Professional Engineer Queensland (RPEQ) certification



Our clients

Infrastructure projects: Mooloolaba Rd upgrade, Bells Creek Arterial Rd upgrade, Woolooga solar farm and transformer station, Stanwell power station

Mining: Baralaba coal mine, Debella mine, Bluff mine

Aircraft noise assessments: Helicopter hangars and freight warehouses Archerfield

Largescale developments: Stocklands – Aura precinct

Residential developments: Summerlin (Banyo), Tricare Ashgrove multi-storey aged care centre

Commercial/industrial: Creastmead, Darra and Matraville Green Star

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Get to know our work
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