

RESONATE SYSTEMS partner with clients to design and build measurement and control systems tailored to their project and application needs.

When project demands are not met by off-the-shelf systems, customers are often left to compromise on project outcomes.

Our integrated turn-key systems aim to bridge that gap and deliver exactly what the client requires.

Supported by a team of mechanical, electrical, and computer systems engineers, we guide our clients from initial requirements gathering, concept designs and prototypes, through to deployment and testing.

With an ever-growing list of deployed systems, our development team are able to leverage hardware and software designs from past projects to rapidly deliver systems built on tried and tested architectures.

Thanks to our philosophy and approach, every project we take on board results in a highly flexible, tailored and cost-effective system.



## Case Study Card

Resonate Consultants

### O-Bahn City Access Project - Ground Vibration Monitoring

A \$160M major infrastructure project within the Adelaide CBD, the O-Bahn City Access project involved construction of a 670-metre tunnel and road realignments to reduce bus travel time and traffic congestion in that area.

The AvaTrace M80 vibration monitor is ideally suited to construction projects as they provide a number of benefits including, their ease of use in the field.

The units are lightweight, portable and have an extensive battery life of up to eight months depending on use and conditions. AvaTrace M80 and AvaNet cloud services helped minimising time and labour costs spent on changing batteries and retrieving data manually.

Real-time alerts are activated when project vibration levels are exceeded with the cloud-based data portal AvaNet being accessible at all times by users.

The O'Bahn monitoring project included a number of community stakeholders and vibration sensitive areas, including residences and buildings on Adelaide's Hackney Road, the National Wine Centre and commercial premises on East Terrace.

Resonate Consultants used AVATrace M80 vibration monitors to minimise the risk of building damage including, heritage structures from construction-induced vibration and to ensure project-specific vibration requirements were achieved.

When vibration levels were exceeded, alerts were sent to the client and steps taken to review the works to reduce vibration levels within the project area.



## RESONATE SYSTEMS

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