NIRICSON   ARCADIS

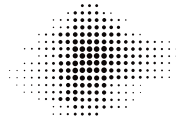# Bridge Health
Advanced AI and data-driven asset condition assessments

Making Infrastructure Safer
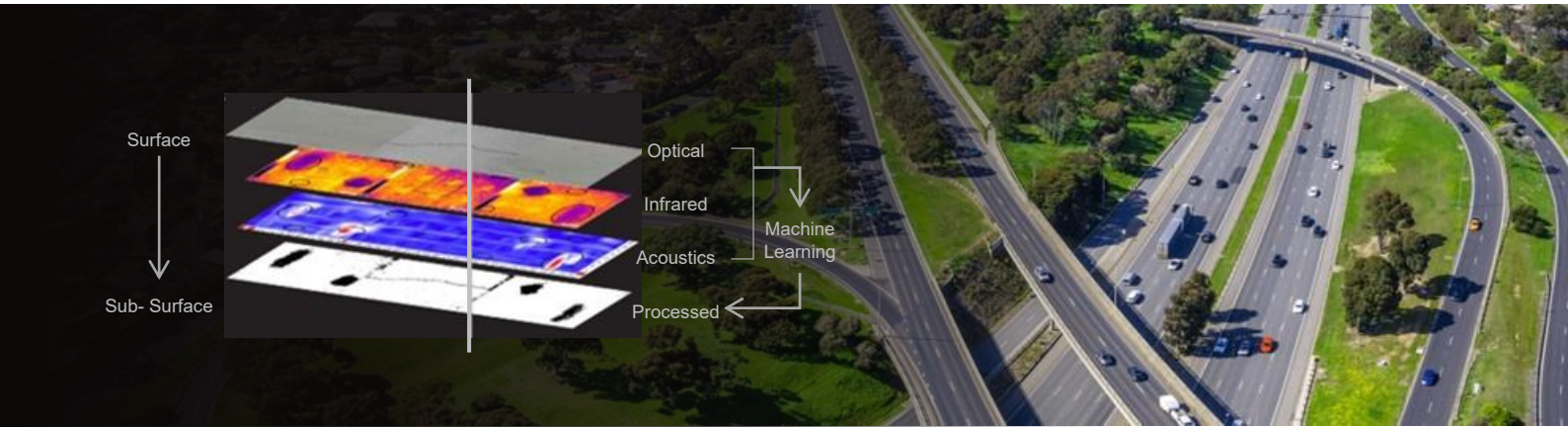
Arcadis. Improving quality of life.

DRONIC
Data Collection Technology

Multi layered data collection technology. Collects visual and thermal imagery, acoustic signature, positional information and reference distance measurements. Acoustic signature identifies the depth and significance of defects.

AUTOSPEX™
Predictive Analytics Platform

Fuses the four layers of data collected through DRONIC and applies automatic defect detection and quantification using machine learning and AI to detect and quantify cracks, delamination, voids, corrosion and other surface and sub-surface data.

ARCADIS
Services

The pre-diagnosis scan from AUTOSPEX™ is used by experienced Arcadis engineers to build asset intelligence (for example feed into digital twin) for predictive maintenance and evidence-based advice for Asset Management Strategies.

Improved accuracy and efficiency

Automated inspections are faster, more efficient and more reliable. With three layers of data to inform structural conditions, our analysts can assess under the surface delamination that is impossible to see with the naked eye.

Quality assured assets

Removes inconsistencies associated with manual inspections, provides change monitoring certainty through digital mapping and quantification of defects, minimizes downtime risks and material variations in reparation contracts with accurate measurement of delamination, comprehensive structural independent verification provides assurance of build quality at final handover.

Reduced risk for people and assets

Automated inspection techniques provide a safer approach, with fewer people exposed to site hazards. Greater asset intelligence drives data-driven performance and safety decisions, minimizing the risks for people and assets.

Sustainable, predictive asset management

Predictive, data informed decision making pre-empts degradation. The removal of unnecessary interventions reduces CO2 emissions, while decreased asset downtime during inspections minimizes emissions caused by traffic congestion.

Arcadis has a longstanding history and track record of delivering whole lifecycle bridge support to clients globally. Our partnership with Niricson is the next step and the future of condition assessments, providing certainty for our clients.

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By combining our expertise with Niricson's predictive analytics platform, we have a non-invasive way to safely inspect and monitor concrete bridge structures and improve performance through targeted maintenance programs. Ultimately, automating inspections will make the maintenance process more efficient, reduce the potential for injury, and result in less disruption to the transport network,"

Greg Steele
Global President of Mobility at Arcadis

Contact us: Reach out to <u>Clara Owen</u> to discuss how we can help you.

Learn more about Arcadis →