



TRACE

STRUCTURAL INVESTIGATIONS

Structural Intelligence
Redefined



ABOUT US

WHO WE ARE

We give engineers, project managers, and asset owners faster, clearer and complete structural understanding, while reducing the disruption of intrusive investigation.

Our Non-Intrusive Analysis (NIA) methodology combines advanced technologies with disciplined workflows and expert interpretation, turning raw data into dependable insights and a true picture of structural condition.

We design smart investigations, integrate evidence intelligently, and deliver conclusions engineers can act on immediately, reducing risk and giving a clear understanding of how a structure is built and performing.

As advocates for progress, we drive the industry forward through sustainable, responsible practice that shapes how the built environment approaches investigation, maintenance and rehabilitation.

“Our non-intrusive methods can **cut site investigation time by up to 85%** compared to traditional intrusive works.”

Andy Kitson, Co-Director



ABOUT US

OUR HISTORY

Founded by structural investigation specialists, TRACE was born from frustration with traditional, data-heavy assessments that left engineers with more questions than answers.

Our mission was clear: redefine how structural evidence is captured, analysed and applied. Today, we are a trusted partner to leading engineering consultancies, contractors and asset owners across the UK and Europe, delivering clarity, efficiency and assurance on projects of every scale.

OUR TEAM

We understand the challenges faced on-site because we've been there ourselves. Led by Andy Kitson and Kyle Olajorin, our team brings together decades of expertise in engineering, data analysis and non-destructive testing. Our strength lies in turning data into understanding and insight into confident action.

WHERE WE WORK

TRACE partners with clients across the UK and Europe, delivering non-intrusive structural investigations and analysis across every stage of an asset's life, from construction and refurbishment to maintenance and performance assessment.



ABOUT US

WHO WE SUPPORT

Civil & Structural Engineers

Get the information behind every calculation. We reveal what's really happening within your structures, so your designs and decisions are grounded in proven data.

Project Managers

Deliver with confidence. Our non-intrusive approach reduces access constraints, keeps programmes on schedule, and eliminates unnecessary disruption.

Asset Owners & Operators

Protect your investment. Identify issues early, extend asset life, and reduce lifecycle cost with sustainable, evidence-based maintenance planning.

Across the built environment, the same problems keep slowing progress:

- Uninterpreted data creating **uncertainty and risk**.
- Intrusive investigations **driving cost, delay, and disruption**.
- **Lack of trusted evidence** to inform sustainable decisions.
- Surface-level surveys **missing critical structural issues**.
- Fragmented workflows leading to **inconsistent, hard-to-use results**.

WHY PARTNER WITH US? INNOVATION THAT LEADS

Innovation isn't something we adopt - it's something we drive. Partnering with TRACE gives you access to our pioneering Non-Intrusive Analysis (NIA) methodology, which combines tailored investigations and trusted technologies with meticulous processing and detailed interpretation.

By integrating advanced technologies - from GPR to Ultrasonic Tomography and iCAMM™ - NIA forms a seamless workflow that delivers comprehensive, interpreted evidence, setting a new benchmark for precision and clarity in structural investigation.

“Reducing intrusive works from **a hundred breakouts to three** dramatically cuts exposure to dust, vibration, and working-at-height risk.”

Kyle Olajorin, Co-Director

OUTCOMES YOU CAN MEASURE

Up to **85% faster**

Non-intrusive inspections can be completed in days, not weeks.

Up to **60% lower total project cost**

Reduced access time, traffic management and disruption.

Fewer risks

Cutting breakouts from 100 to a handful reduces dust, vibration and exposure.

Extended asset life

Year-on-year non-intrusive monitoring supports proactive maintenance and lowers embodied carbon.

WHY PARTNER WITH US?

ASSETS WE INVESTIGATE

Bridges & Viaducts
Heritage Structures
Roads & Highways
Railways & Tunnels
Airports & Transport Hubs
Ports, Piers & Dockyards
Car Parks & Podium Decks

Warehouses & Industrial Facilities
Residential & Mixed-Use Developments
Commercial & Public Buildings
Water & Wastewater Infrastructure
Marine & Coastal Defences
Energy & Utility Installations
Schools, Universities & Healthcare Estates

THE NIA APPROACH

TRACE's Non-Intrusive Analysis (NIA) methodology fuses innovation, expertise and integrity to deliver structural information you can rely on.

Targeted Non-Intrusive Data Collection

We capture high-resolution data across your structure with minimal disruption using advanced tools including GPR, Ultrasonic Tomography and our exclusive iCAMM™ technology.

Integrated Evidence & Reporting

Our reports combine technical accuracy and visual clarity through CAD overlays, schematics and 3D visualisations providing evidence you can act on immediately.

Intelligent Analysis & Interpretation

Receive clear, defensible insights, not pages of raw data. Our analysts interpret results in context, delivering the why behind every finding, saving you time and reducing uncertainty.

Sustainable, Safe Decisions

By prioritising non-intrusive methods, we reduce waste, environmental impact and risk – helping you make smarter, more responsible decisions grounded in evidence.

Collaboration & Consultation

We work as a true project partner, communicating findings early, aligning results with your objectives and supporting safe, efficient and sustainable outcomes.

WHY PARTNER WITH US?

INVESTIGATION TO ANALYSIS

Project Consulting

Set your project up for success with precise, purposeful planning. We define objectives, select the most effective non-intrusive methods and design efficient investigations that deliver accurate, actionable results.

Structural Investigation & Analysis

Understand how your structure is built and performing. Using trusted technologies and our NIA methodology, we provide evidence-based insights that drive informed decisions.

Structural Condition Assessment

Identify corrosion, voids and section loss early through non-destructive testing and expert analysis, supported by targeted intrusive work, enabling timely, cost-effective maintenance or repair.

iCAMM™ Corrosion Mapping

Quantify corrosion and section loss in reinforcement and steelwork without exposure. iCAMM™ delivers unmatched accuracy, working through coatings and underwater to provide a true picture of asset health.

Bridge & Post Tension Assessments

Evaluate bridge performance and post tension tendon integrity. We detect voiding, section loss and construction variations, delivering insights to guide safe, efficient maintenance planning.

As-Built Quality Checks

Verify that construction aligns with design. We compare investigation data with original drawings to confirm compliance, detect discrepancies and ensure quality before handover or redevelopment.

“TRACE has delivered **over 100 iCAMM™ projects** in the last 18 months, detecting 20–30% section loss **without a single breakout.**”

Andy Kitson, Co-Director



OUR PARTNERSHIP PROMISE

We don't just deliver reports, we deliver partnership. We act as an extension of your team, providing insight, honesty, and hands-on guidance from first conversation to final decision. Our approach is built on trust, innovation, and collaboration to ensure every project benefits from shared goals and tangible results.

WHAT OUR PARTNERS SAY

"I was pleased with their **level of technical knowledge**, and the initial advice we received about selecting the most appropriate survey method. The **interpretation provided** in the report they produced was **extremely helpful**."

Jonathan Hudson
Director, Haydn Evans

"TRACE are very **knowledgeable**, very **adaptable**, and I'd recommend them to everybody. The results they come out with are **accurate**, and they're always **helpful on site**, if something changes, they deal with it straight away and **keep everyone informed**."

Scott Grayson
Director, SG Geotechnical

"You can trust TRACE to get the information they need and **deliver a clear, accurate report** every time. They're **collaborative, easy to work with**, and **deliver on time**."

Richard Sellwood, Associate, Frankham Consultancy Group



TRUSTED INSIGHT. PROVEN INTEGRITY.

We deliver evidence that stands up to scrutiny. Every TRACE report is clear, defensible, and backed by the highest standards of safety and ethics. Our transparency builds trust, our expertise builds confidence.

“Regular, non-intrusive condition monitoring allows **proactive maintenance – extending asset lifespan** and **cutting embodied carbon** from unnecessary replacements.”

Kyle Olajorin, Co-Director

EXPLORE SOME OF OUR RECENT REPORTS

Mapping As-Built Details of a Bridge Approach Structure



Detecting Delamination in a Bridge Deck Underside



Identifying Subsurface Voids Within Dam Spillways



Post-Tension Special Inspection of a Bridge Soffit Structure



INNOVATION. INSIGHT. INTEGRITY.

Three pillars. One purpose: helping engineers and asset owners build confidence in every decision.

CONTACT US

No matter the size, complexity, or location of your project, we're here to help you see deeper, decide faster, and deliver with confidence.

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