



ELEUSIS LTD

 ELEUSIS LIMITED

The complete inspection & engineering partner.

One team. Six capabilities. No handovers.

THE PROPOSITION

The complete inspection & engineering partner.

One multidisciplinary partner. We reach, examine, assess and resolve, under one roof.

WHAT WE DELIVER

One team. Six capabilities. No handovers.

We reach any structure, examine and assess it with our own chartered engineers, and deliver the decision and the fix, not just the data.



01

**Structural Examinations
& Assessment**



02

**Specialist Access
& Confined Spaces**



03

**Survey, UAV
& Geomatics**



04

**Subsurface
Investigations**



05

**Underwater
Examinations
& ROV**



06

**Enabling, Remedial
& Special Projects**

ASSURANCE & COMPLIANCE

RISQS Verified & Audited • Constructionline Gold • CHAS • SMAS • ISO 9001 / 14001 / 45001 • Network Rail STE01-STE07 • CAA UAV • IRATA



Structural Examinations & Assessment

From defect to decision.

THE CHALLENGE

70,000+ rail structures must be examined to standard and on cycle, under live regulatory scrutiny. Highways and metro owners carry the same pressure, and examiners are scarce.

OUR ANSWER

Examined. Inspected. Assessed. All in-house, to sign-off.

Detailed and visual examinations, rail and highways compliant, above and below the waterline, with structural assessments from Level 0 to the full Network Rail range.

SIGNATURE OFFERING

Any asset, any access

From ground, rope and confined space, for every asset owner

360° Reality Capture

Walk through the examination: immersive, annotated asset records

Chartered sign-off

Examination to recommendation, reviewed and signed off in-house

CASE STUDY • STRUCTURAL EXAMINATIONS

Scotland route — CEFA structural examinations

3,608

EXAMINATIONS

CLIENT: Amey • CEFA Scotland

SCOPE: Detailed, visual and additional examinations across the full Network Rail asset range: metallic and masonry bridges, viaducts, tunnels, culverts, retaining walls, signalling structures and radio masts. By rope access, confined space and RRV.

OUTCOME: Ongoing three-year framework, delivered route-wide by our multidisciplinary examination teams.





Specialist Access & Confined Spaces

Reach what others can't.

THE CHALLENGE

Falls from height remain the UK's biggest workplace killer (HSE), and confined spaces add gas, engulfment and oxygen loss. Access is where examination programmes stall, and where people get hurt.

OUR ANSWER

Access teams that examine. Not just get you there.

IRATA Levels 1-3 rope and high-risk confined space crews, rescue trained. Our Elios 3 scopes the task first: the safest entry is the one never made by an operative.

SIGNATURE OFFERING

IRATA rope access

Levels 1-3, all standards: teams who examine as well as access

High-risk confined spaces

Trained entry and standby rescue, to the Confined Spaces Regulations

Elios 3 SLAM LiDAR

Flown in first, before anyone enters

CASE STUDY • ROPE ACCESS

Tay Rail Bridge — IRATA rescue cover

L3

IRATA RESCUE

CLIENT: Amey

SCOPE: IRATA Level 3 rescue cover for Amey's examination teams on the Tay Rail Bridge, with a crewed rescue boat stationed in the water below.

OUTCOME: A collaborative partnership — Amey examining, Eleusis safeguarding — delivering safe working over open water.





Survey, UAV & Geomatics

Captured once. Used everywhere.

THE CHALLENGE

Everyone offers a drone. Value comes from choosing **the right capture** for the asset, the airspace and the deliverable, and standing behind the model that results.

OUR ANSWER

The right capture, every time. Modelled under one roof.

Terrestrial laser scanning, UAV LiDAR and photogrammetry, topographical, measured, track and gauging surveys: captured by our own teams, modelled by our own CAD technicians.

SIGNATURE OFFERING

In-house geomatics

Measured, topographical, track and gauging surveys by our own surveyors

UAV fleet and approvals

Elios 3 and Matrice 400 LiDAR; CAA OSC held, enhanced cases in progress

Capture to deliverable

CAD and modelling technicians under the same roof as capture

CASE STUDY · UAV & AERIAL

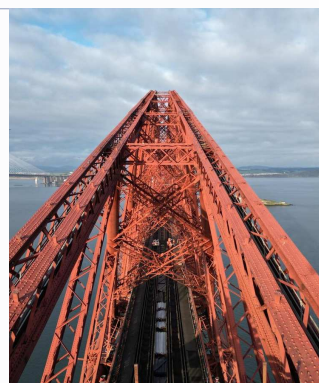
Forth Rail Bridge — UAV examination support

100%
COVERAGE

CLIENT: Amey · CEFA Scotland

SCOPE: Multi-payload UAV deployment supporting Amey's STE04 examiners — capturing soffits, undersides and high steel beyond the reach of conventional access.

OUTCOME: Complete visual coverage of the bridge, including members previously unexaminable due to access restrictions.





Subsurface Investigations

Know before you dig.

THE CHALLENGE

Four million excavations a year in Britain; 60,000 strike a buried service. Every unknown beneath your site is cost, delay and danger.

OUR ANSWER

The ground, mapped in 3D. Utilities, drainage, one team.

PAS 128 ground penetrating radar with full statutory records, delivered as 2D and 3D models, alongside CCTV drainage condition surveys with jetting and cleansing.

SIGNATURE OFFERING

PAS 128 GPR

Utility surveys with full statutory records, modelled in 2D and 3D

CCTV drainage surveys

Condition surveys to MSCC5 by OS19X-qualified surveyors, with jetting and cleansing

One integrated package

GPR, drainage and topographical survey from a single team

CASE STUDY • GPR & SUBSURFACE

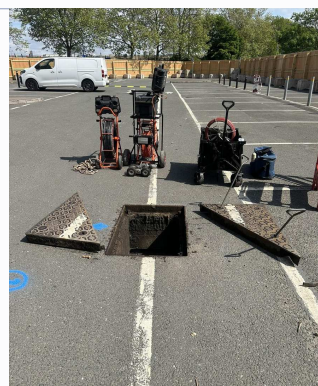
IMO car wash estate — GPR & drainage surveys

56
SITES UK-WIDE

CLIENT: IMO Car Wash Group

SCOPE: PAS 128 GPR and voiding surveys diagnosing surfacing failure, full CCTV drainage inspection by ROV crawler, with jetting and cleansing — all buried services marked on site to de-risk excavation.

OUTCOME: Full remediation across all 56 sites and a complete subsurface asset inventory.





Underwater Examinations & ROV

Below the waterline. Above doubt.



THE CHALLENGE

Submerged structures are the least seen on any network. Scour causes 27% of rail bridge failures; tidal windows are short, and diver hours are precious.



OUR ANSWER

Examined below the waterline. Interpreted above it.

Diver and ROV examination of piers, abutments and culverts, with every finding interpreted by our own structural engineers: an engineering decision, not raw footage.



SIGNATURE OFFERING

ROV examination

More examined per tide, less diver exposure

Examiner-led diving

STE07 underwater examinations and commercial diving, signed off by our engineers

Above and below, together

Rope, UAV and ROV combined in a single mobilisation

CASE STUDY • UNDERWATER EXAMINATIONS

Strangford Harbour — underwater examinations

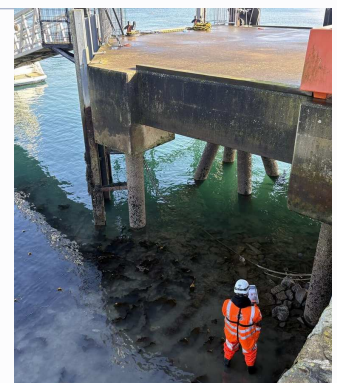
216

UTT READINGS

CLIENT: Amey OW Limited • for DfI Northern Ireland

SCOPE: Diver and ROV examination of 18 piles and piers, with 216 ultrasonic thickness readings taken across the structure.

OUTCOME: Full underwater examination report delivered — a complete condition baseline for the harbour.





Enabling, Remedial & Special Projects

From finding to finished.

THE CHALLENGE

One firm examines, another designs, a third repairs. **Every interface** between them adds cost, programme and risk, and the asset waits while they hand over.

OUR ANSWER

Found, designed and fixed. By the same company.

From examination through design to remediation and repair, often by the same multi-skilled team: one project lead, one point of contact, one person to hold to account.

SIGNATURE OFFERING

Inspection to intervention

Examination, design, remediation and repair from one company

Rapid mobilisation

Examiners, designers, rope access and delivery under one system

ICATS protective coating

Accredited corrosion protection delivered in-house

ENABLING WORKS

Wales route — signal structure life extension

+20
YEARS ASSET LIFE

38 signalling structures assessed at height with 360° HDR photogrammetry, remediated and repainted; ladders, gantries, handrails, gates and plinths renewed.

AmcoGiffen • Network Rail • All 38 signals overhauled; asset life extended by 20 years, with material warranties.



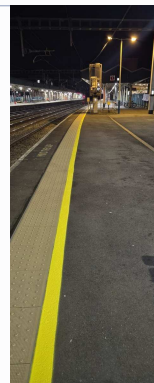
ENABLING WORKS

Wales route — platform edge renewal

52
STATIONS

Tactile paving prepared and new platform-edge markings applied at 52 stations across the Wales route.

AmcoGiffen • Network Rail • Consistent, compliant platform-edge demarcation delivered route-wide.





Innovation & Technology

Built into the day job, not bolted on.

INNOVATION AT THE CORE

We invest continuously in capture, flight and analysis technology, so the people examining your asset always carry the latest capability, and every visit returns richer data: **fewer site visits, earlier decisions, lower whole-life cost.**



360° HDR rig, inside the asset.

OUR APPROACH

Engineering judgement, amplified. Never replaced.

THE TECHNOLOGY



Zero-entry inspection with UT thickness payload: no person enters first.

Elios 3 confined space



The latest DJI LiDAR, flown on the Matrice 400.

DJI Zenmuse L3 LiDAR



70-million-pixel scenes; a tamper-proof record.

Spheron 360° HDR camera

HDR photogrammetry

Measurement-grade 2D and 3D models

LiDAR UAVs

Terrain and assets, no closures

AI defect recognition

Defect and change detection

IN DEVELOPMENT

Acoustic hammer drone

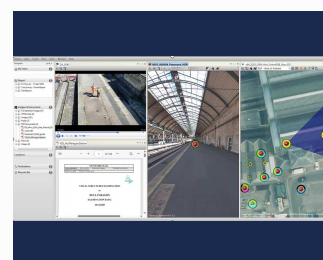
No-touch delamination

IN DEVELOPMENT

THE DELIVERABLE • DIGITAL TWIN

A living digital twin of your asset, included.

Examinations delivered as **360° immersive, annotated, navigable digital twins**, BIM Level 2 compliant, with platform access **included at no additional cost**: measurement tools, a full audit trail, a living record that feeds your asset management.



The navigable twin: every defect, annotated in place.



Spend less. Risk less. Prove more.



THE THREE QUESTIONS

Every framework now asks you the same three questions. Can you deliver this for less? Can you take people out of harm's way? Can you evidence the innovation you promised at tender? Eleusis was built to make your answer yes: **all three, on the same project.**



ONE PARTNER, ONE POINT OF CONTACT

Structural examinations, IRATA rope access, UAV and confined-space robotics, underwater inspection, geomatics and 360° photogrammetry: reaching what others can't, capturing what others miss, and handing your engineers decision-ready data in the same week.

Rail. Highways. Defence. Utilities. Construction.

If the asset is difficult, dangerous or expensive to reach, it's our territory.

Your next tender is already moving. Have us in your supply chain before it lands.

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RISQS AUDITED • CONSTRUCTIONLINE GOLD • CHAS • CAA APPROVED • ISO 9001 • 14001 • 45001



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