



**TRI-TECH**

engineering • surveying • mapping

# OUR SURVEYING SERVICES





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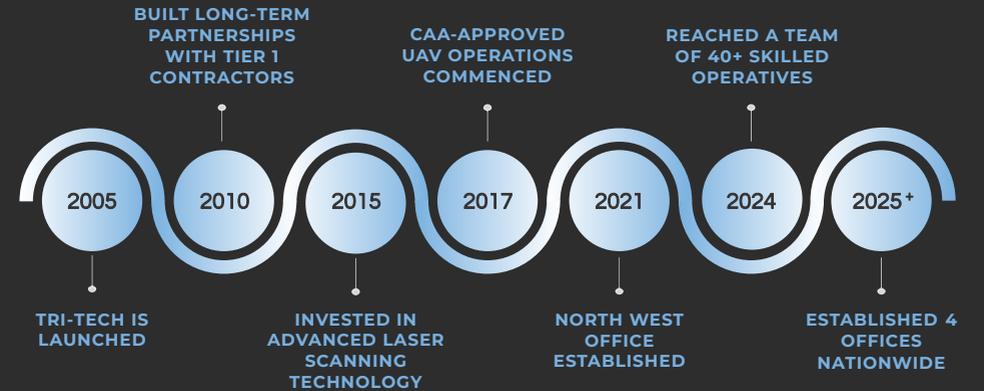
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# ABOUT US



We continually refine our processes and invest in the latest technology to ensure the most efficient and accurate results with a commitment to precision. Supported by a passionate and dedicated team, we're proud to measure our success by the value we bring to yours.

**DECADES OF SURVEYING EXPERIENCE: DRIVEN BY PEOPLE, POWERED BY TECHNOLOGY.**



# INDUSTRY SECTORS

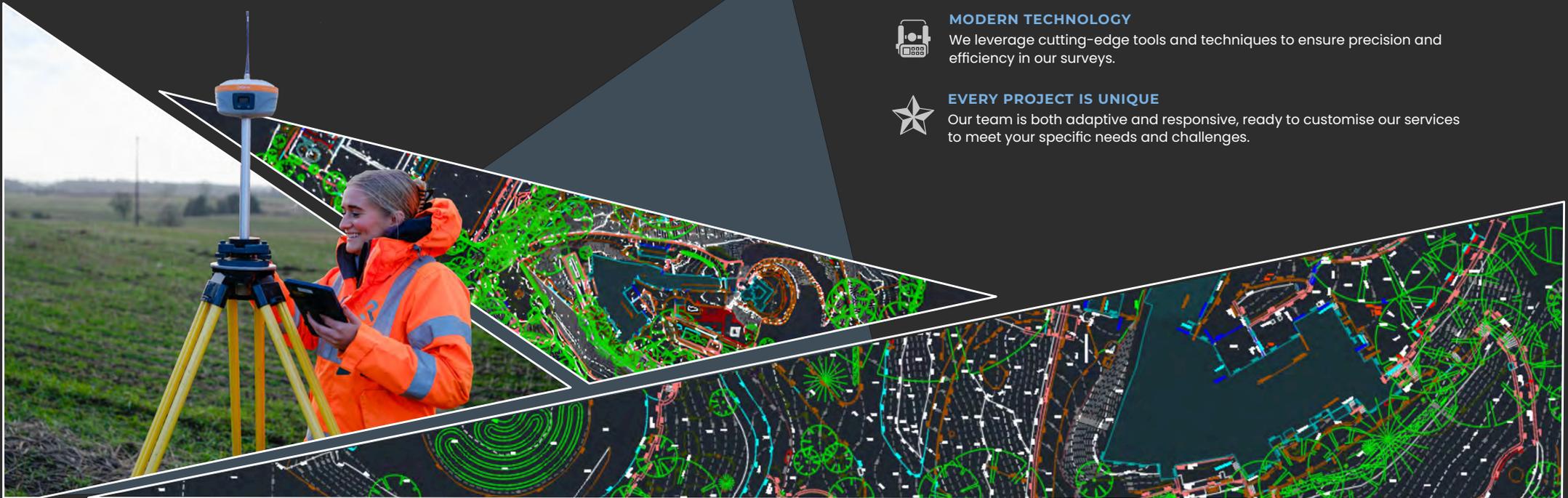


our services

# TOPOGRAPHICAL SURVEYS

With extensive expertise across a wide range of projects, we've solidified our reputation as leading specialists in providing topographical surveys. It is our duty to provide you with accurate, reliable data that is crucial for effective planning and execution for your project, and we deliver our word.

Using the latest surveying equipment, such as Robotic Total Stations and GNSS receivers, we're able to cover all your mapping requirements. From large highway schemes to single dwellings, we have the resources to cover almost any size survey.



#### TIMELINES:

Our efficient processes ensure that you receive comprehensive survey results within your specified time frames, allowing you to move forward.



#### LEAN CONSTRUCTION PRINCIPLES:

Focusing on minimising waste and maximising value, our surveys not only save time but also reduce costs, helping you stay within budget.



#### MODERN TECHNOLOGY

We leverage cutting-edge tools and techniques to ensure precision and efficiency in our surveys.



#### EVERY PROJECT IS UNIQUE

Our team is both adaptive and responsive, ready to customise our services to meet your specific needs and challenges.

our services

# UTILITY MAPPING

We deliver precise 2D and 3D mapping of underground services using the latest Ground Penetrating Radar and Electromagnetic Location technology. Working to PAS128 standards, our surveys help prevent costly service clashes, especially during piling and ground investigations.

Going beyond compliance, we offer future-proof solutions through advanced 3D modelling and trenchless technology that significantly reduces long-term costs. With us, you get accuracy, efficiency, and a smarter way to build.



#### ACCURACY

Our advanced techniques guarantee high-precision utility locations, reducing risks and costly delays.



#### COMPREHENSIVE SURVEYS

We map all types of utilities, including water, gas, electricity, and telecommunications.



#### SAFETY FIRST

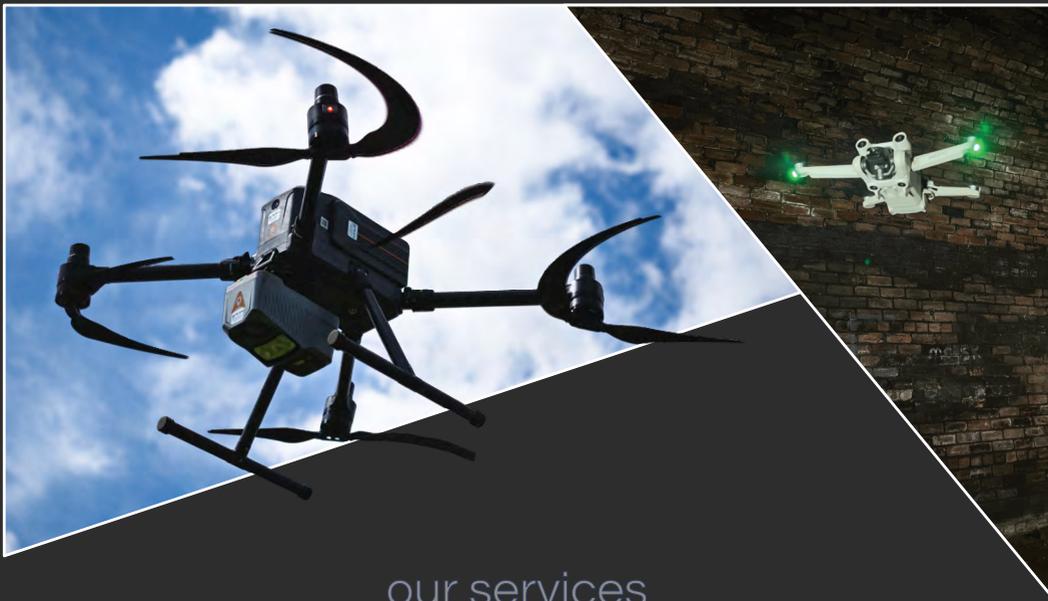
Minimise hazards in your projects by knowing exactly where utilities are located.



#### STREAMLINED PROCESS

Our efficient workflows save you time and money, allowing for smoother project execution.

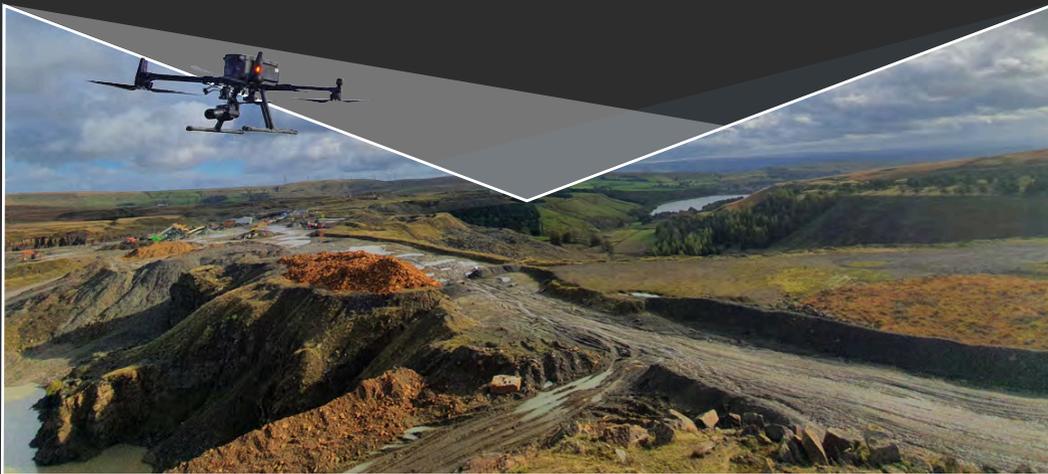




our services

# AERIAL & DRONE SURVEYS

Our UAV operations prioritise safety and compliance with CAA regulations, allowing us to provide exceptional site mapping, progress monitoring, and inspection services. The utilisation of UAV technology captures astonishing levels of detail that are usually challenging through traditional survey methods.



## WHY CHOOSE US?



### EXPERT PILOTS

Fully qualified pilots adhere to strict regulations, ensuring safe and reliable flights.



### COMPREHENSIVE COVERAGE

Efficiently cover large areas, capturing incredible detail that traditional methods can't achieve.



### VERSATILE APPLICATIONS

Perfect for a variety of environments, including inaccessible areas like pitched roofs.

## IDEAL APPLICATIONS



**QUARRIES & LANDFILL**



**HERITAGE PROJECTS**



**SITE  
PROGRESS  
MONITORING**



**EARTHWORKS  
SCHEMES**



**ROOF & FACADE  
INSPECTIONS**

## DATA TRANSFORMATION

We use advanced photogrammetric software to deliver data in formats tailored to your needs, including Point Cloud, Gridded DTM, CAD, PDF, and an HTML viewer for easy access and measurement.

our services

# LASER SCANNING

3D laser scanners capture millions of points per second creating a point cloud, enabling the finer details and the physical site itself to be viewed digitally from anywhere.

Our in-house 3D laser scanners can feed the data captured into BIM, Revit and CAD software to allow any type of manipulation in the form BIM models, DTM's, Cross Sections, Elevations and Internal Floor Plans to name a few.



BIM  
MODELS



POINT  
CLOUDS



3D  
VISUALISATION





our services

## BATHYMETRIC SURVEYS

Our capabilities extend to producing long sections and cross sections that adhere to EA (Environment Agency) Standards. Furthermore, we offer export options in HEC, RAS, ISIS, and EACSD formats, facilitating full river modelling and enabling visualisation of the channel profiles.

With the utilisation of state-of-the-art surveying technology, we ensure safe and efficient assessment of watercourses, delivering reliable services to our clients.

### ABOVE & BEYOND: INNOVATIVE TECHNIQUES

We have previously built a specialised inspection boat while conducting a series of structural inspections on culverts at Teesworks. Through utilising a 'bodyboard', mounting the cutting-edge Elios 2 on the vessel and crafting a fan and electronics circuit with LED lights and an FPV camera, the boat was ready to launch into the culverts to gather critical data.

No matter how complex or formidable the challenge, our teamwork and expertise consistently yield exceptional results.

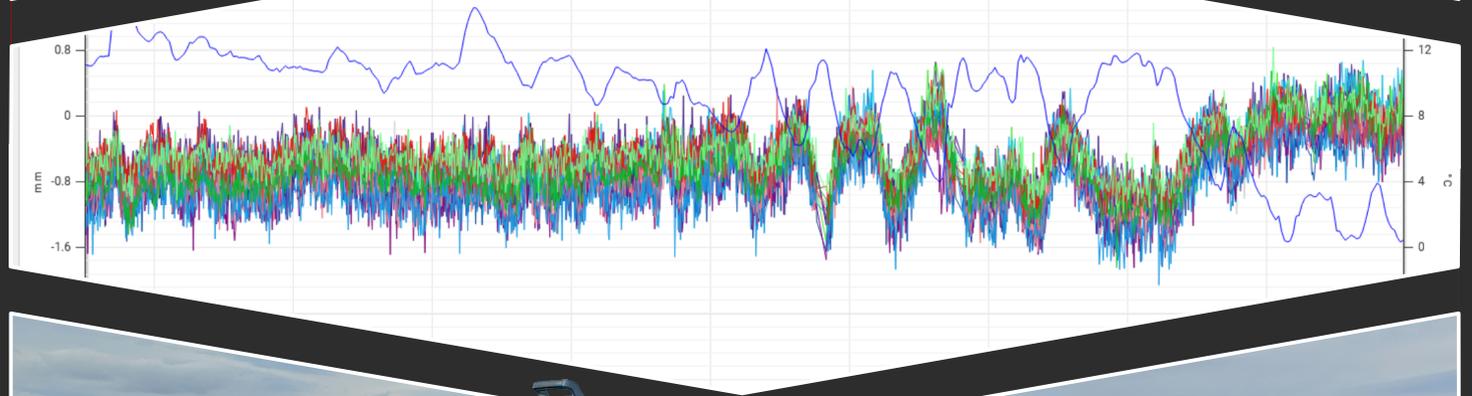
our services

# MONITORING CAMPAIGNS

Monitoring campaign surveys require repeatable measurements using tried and tested survey methods, such as fully automated schemes which link back into a central database, digital levels, tiltmeters, vibrometers, precision total stations and scanners.

We have carried out large and small-scale monitoring projects in a variety of different schemes. From major housing developments and roads to small factories and residential houses.

Our results are reliable, repeatable and trusted.



our services

# MEASURED BUILDING SURVEYS

As a standard, all our measured building surveys include ceiling heights, windows, floor to sill to head heights, door heights, floor levels and sanitary locations. However, we can increase the detail on our drawings to whatever you need.

With the latest 3D laser scanning technology, we produce accurate internal floor plans, elevations, and internal area calculations. From a private house to a sports stadium, we have you covered from floor to ceiling, in light or dark.

**THE USE OF MEASURED BUILDING SURVEYS WE PRODUCE CAN BE VARIED AND NUMEROUS INCLUDING:**



SECTIONS



EXTERNAL  
ELEVATIONS



STREET  
SCENES



INTERNAL FLOOR  
PLANS FORMATS



INTERNAL  
ELEVATIONS



DUBLIN



CHESTER



WINDERMERE

our services

# SETTING OUT & SITE ENGINEERING

Our extensive experience in the industry has ensured the formation of a highly skilled and professional team of Site Engineers and Engineering Surveyors. We are multidisciplinary so we can provide personnel with the correct skill set and experience for your project.

## WHETHER YOUR PROJECT IS



CIVIL ENGINEERING



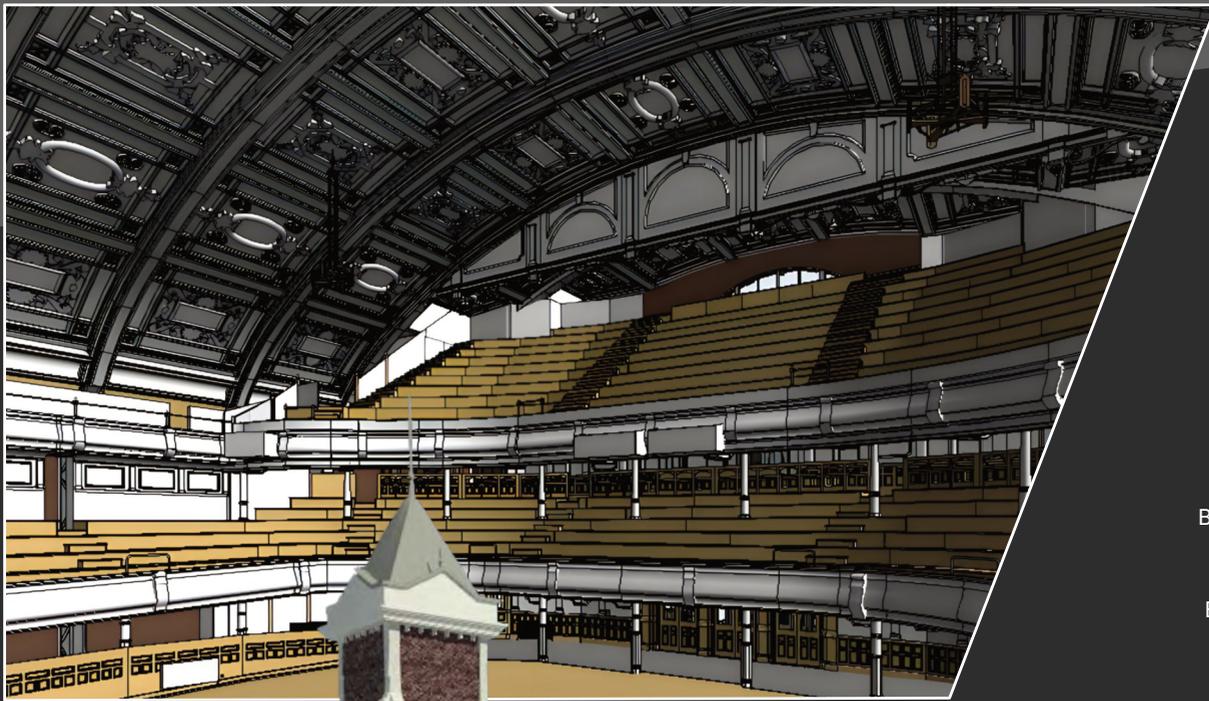
HOUSING



COMMERCIAL BUILD

We have the right people to get your scheme to where it needs to be.

All our site engineers are equipped with the latest surveying equipment and vehicles, efficiently catering to your needs, whether it's a one-time visit or a consistent presence throughout the project.



our services

## BIM MODEL CREATION

BIM provides architects and design professionals with a highly accurate, data-rich 3D model of a building or site. Captured through advanced surveying techniques like laser scanning and drone photogrammetry, BIM models support seamless planning, collaboration and design integration. Whether it's for renovation, new designs, or managing an existing space, BIM makes the whole process smoother, more efficient and better co-ordinated.



REDUCED COSTS



IMPROVED COLLABORATION



INCREASED EFFICIENCY



EASILY SHARED INFORMATION

BIM model creation can help ensure that construction projects are completed on time, on budget, and to the desired quality standards.

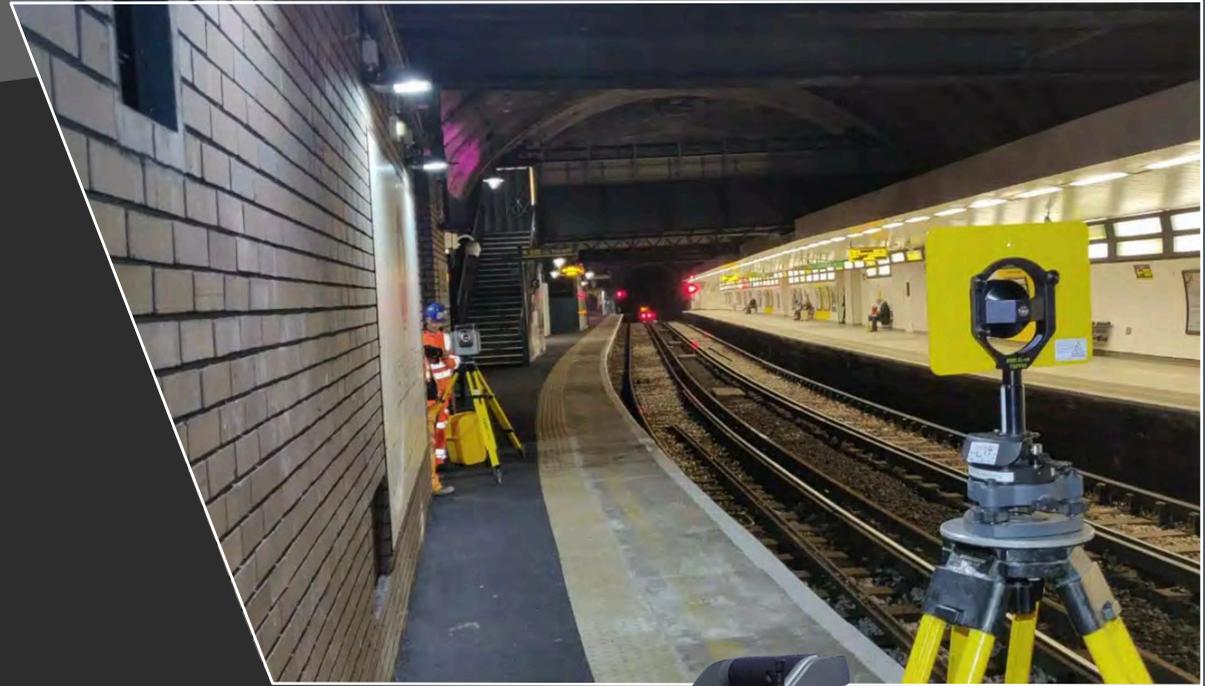
our services

# CONTROL NETWORK INSTALLATION

With our wealth of expertise, we cater to a diverse range of projects, from extensive highway schemes to intimate residential developments, understanding the unique requirements of each endeavour.

Leveraging cutting-edge surveying techniques, including GNSS, Precision Total Stations, and Digital Levels, our team of professionals ensure the delivery of precise measurements in an efficient and effective manner.

Whether you're initiating a new project, expanding an existing one, or verifying an established network, our capabilities enable us to tailor a control scheme perfectly aligned with your specific needs.





our services

# 3D MACHINE CONTROL

Our expertise in transforming designs into 3D models for precise installation on earthmoving equipment was a natural progression from our longstanding practice of producing setting-out data in both 2D and 3D formats.

With close partnerships with major machine control manufacturers such as CHC NAV, Trimble, Topcon, and Leica, we remain at the forefront of cutting-edge technology, ensuring top-notch services for our clients.



BASE STATION  
HIRE



SITE  
CALIBRATION



UTS SYSTEMS -  
HIRE & SETUP



MODEL CREATION  
FROM DESIGN TO DATA  
IN 2D AND 3D FORMATS



LASER SYSTEMS - HIRE OF DUEL  
GRADE LASERS & THE SET UP  
AND CHECKING OF MACHINES.





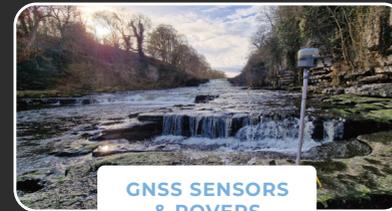
our services

# SURVEY EQUIPMENT HIRE

As a leader in the Surveying and Engineering sector, we have a fleet of modern survey equipment at our disposal which is second to none.

Calibrated by the manufacturer and regularly checked in line with the manufacturer's requirements, all our equipment is always operating as it should do.

We can offer the following equipment on hire and will always try and beat a comparable quote:



**GNSS SENSORS  
& ROVERS**



**TOTAL  
STATIONS**



**LASER  
SCANNERS**



**GNSS BASE  
STATIONS**

# FREELANCE ENGINEERING SURVEYORS

fully equipped & IR35 compliant

Whether you need full-time site support or ad-hoc coverage during peak demand, our freelance surveying professionals integrate seamlessly into your project team. We offer scalable, compliant solutions to keep your project moving, on time and on budget.

## WHAT WE OFFER:



### FLEXIBLE SURVEYING SUPPORT

Available on a full-time or part-time freelance basis, IR35 compliance assured.



### WIDE-RANGING PROJECT EXPERIENCE

From residential housing developments to major infrastructure and civil engineering projects, we've got the expertise and adaptability to deliver accurate, reliable data in any environment.



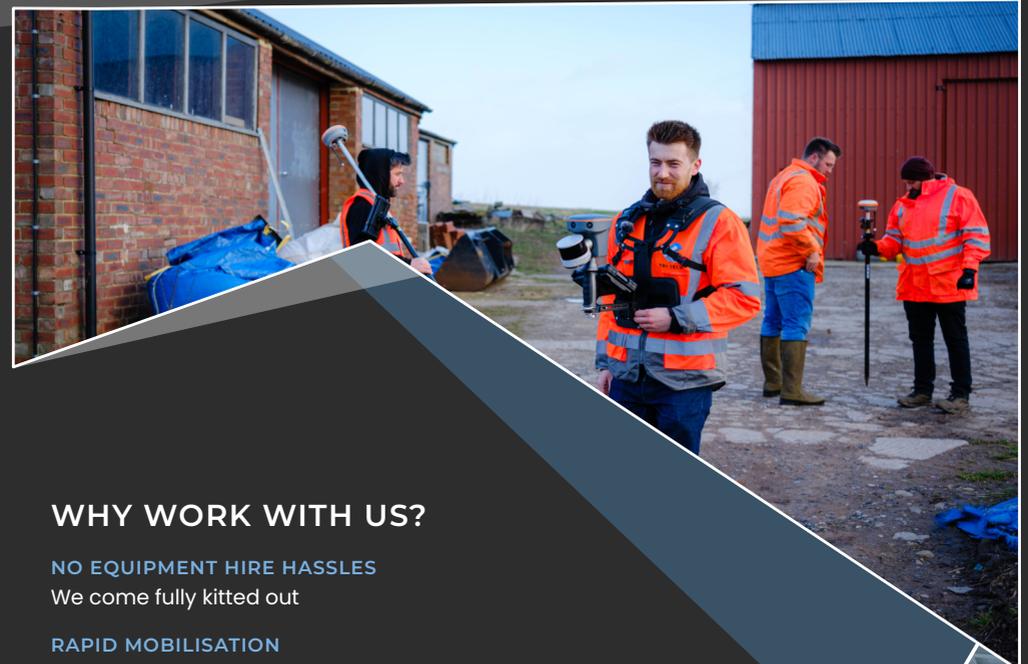
### FULLY EQUIPPED PROFESSIONALS

Every engineer arrives ready to work, equipped with supportive tech such as, Total Stations, GNSS Rovers and all the necessary field tools & software.



### ADVANCED TECHNOLOGY ON-DEMAND

Need more specialised capabilities? Our team has access to advanced equipment such as Laser Scanners, UAV's and more as and when your project needs it.



## WHY WORK WITH US?

### NO EQUIPMENT HIRE HASSLES

We come fully kitted out

### RAPID MOBILISATION

Get boots on the ground fast

### TRUSTED BY CONTRACTORS & CONSULTANTS

All across the UK

### COMPETITIVE DAY RATES

Without compromising on quality

flexible surveying  
support you can trust

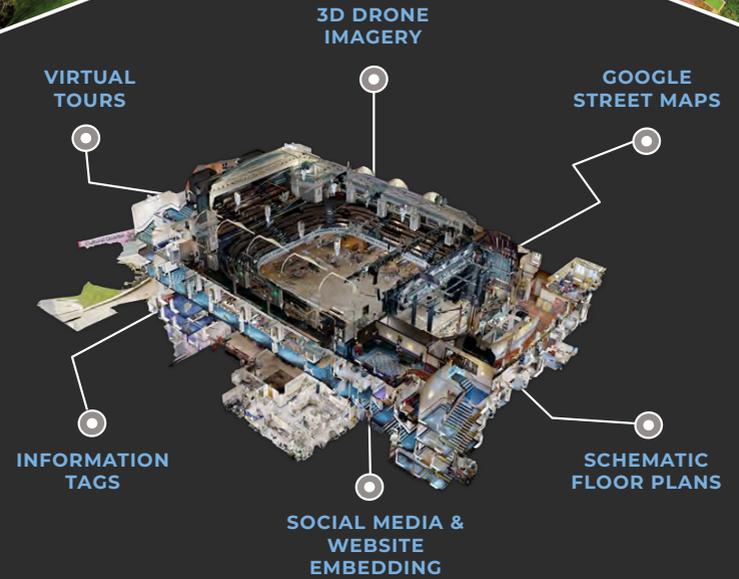


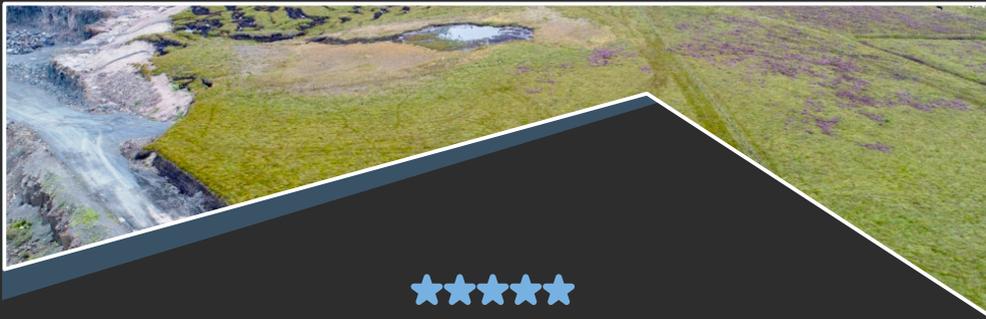


# VIRTUAL TOUR 3D

Replicate your space into an authentic and interactive 3D experience. Allow guests, clients and customers to fully immerse themselves in the venue that pushes beyond static photographs and 360 tours.

Our skilled surveying team utilises cutting-edge cameras and technology to capture the essence of your space. We strategically scan each area, ensuring comprehensive coverage and accurate data collection. The captured scans are then processed using advanced software, resulting in a fully interactive and immersive 3D Tour.





We have recently used the lidar and survey services of Tri-Tech on a feature film. They have been efficient and responsive to our requirements and I would not hesitate in using or recommending them for future work. Many thanks to Jack and the Tri-Tech team.

———— **PAUL GHIRARDANI** ————



As an Earthworks Contractor with sites spread across the North East and Yorkshire, we use Tri-Tech to undertake all of our Topographical Surveys, Volumetric Analysis, and 3D Machine Control; from model creation to site calibration and base station hire. Ted and his Engineers have always provided an extremely professional, efficient, and accurate service and I would highly recommend them without hesitation.

———— **SAM BROWN** ————



“Since 2005, Tri-Tech has been dedicated to delivering high-quality, carefully carried out surveys that our clients can rely on. We pride ourselves on providing results that are precise and consistent in approach, no matter the size or complexity of a project.

We’re proud to build our team locally, offering full training and helping bridge the gap between education and employment. By working closely with local schools and colleges, we’re helping the next generation step confidently into the surveying industry.

From the very start, we focus on clear communication and a proactive attitude. Our flexible pricing means we do our best to shape our services around our clients’ needs, keeping within their budgets.

All of our services are undertaken in-house, meaning that we can guarantee the accuracy and quality throughout your project’s needs – delivering a reliable, quality package of geospatial survey results and data every time.”

———— **Jack Brittain** ————  
DIRECTOR



proud to support



**YORKSHIRE**  
AIR AMBULANCE

# CONTACT US

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