

Monitoring



Welcome to

mabeyhire

Every construction and infrastructure project brings unique challenges. That's where our expertise makes the difference.

Covering the civil infrastructure, buildings and utilities sectors, we've been using our knowledge and experience on projects from bridging and railways to basements and tunneling for over 60 years.

We're the only temporary works specialists in the country that can work with you from early tender stage, design the right solution, supply all the equipment you need, install that equipment and then dismantle it.

All of this, combined with a national engineering team, the UK's widest range of temporary works equipment and a nationwide network of 16 depots, enables us to deliver the right solition for you, whatever the scale or complexity of your project.



What makes Mabey Hire different?

Rapid response

When you need a quick, simple temporary works equipment hire, our network of 16 nationwide depots are ready to deliver or for you to collect.



No other UK temporary works provider can offer a complete in-house solution across design, supply, installation and monitoring for planned, reactive and emergency projects.

Immersive technology

Explore your design like never before with EVE. Take a virtual walk through your project and identify any changes or potential risks before any work begins on site.





Widest range

We have the UK's widest range of temporary works equipment, including groundworks, propping & jacking, formwork & falsework, temporary bridging & access and monitoring.



All the technical info you need

Instantly access a standard design solution from our standard solutions platform, MyConstruct or find all user guides, Revit families and AutoCAD files on our Tech Hub.





Working across all sectors

We have decades of experience helping our customers build, maintain and repair our country's infrastructure, utilities and buildings.



Taking responsible action

We're committed to protecting the planet, caring for our people and communities, and being a responsible business.







Insite is our unique web portal, which allows customers to instantly see and analyse the data from any environmental or structural monitoring that we are undertaking.

Wirelessly transmitted in real-time, the accurate data is accessed with a unique login, and presented in a way that is easy to analyse, interpret and draw conclusions. This ensures that you are able to react to any changes in the condition of a structure or to increased noise, dust or vibration levels, straight away. Project managers can create immediate action plans to ensure the safety and integrity of their sites and structures.

Our expert engineers will set up your Insite portal, in a way that is unique to you and your specific requirements. Many projects have specified thresholds that must not be reached for safety or legislative reasons. These project thresholds are added to your portal and the system will send immediate alerts if any of these are breached.

Accessible remotely from desktop, tablet or mobile, your data can be displayed in many different ways such as reports, graphs or schematics to enable quick analysis and decision making.

For further information on any of our monitoring solutions, please visit: mabeyhire.co.uk Call us on 0330 191 5594 or email action@mabeyhire.co.uk



Your data, on demand from our cloud based environment



User friendly - easy to navigate and pull out the insight from your project data



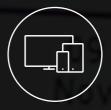
Configurable to your exact requirements



Data presented in real-time ensuring you can react to any changes straight away



Built in trigger levels to instantly alert you to any breaches



Data is available 24/7 remotely from desktop, tablet or mobile



The Benefits of Monitoring The implementation of monitoring on a project, whether structural or environmental, is important to help keep structures safe and to protect against considerable costs and disruption by reducing the risk of unforeseen issues. Monitoring is used in a wide variety of situations, here are just some of the benefits it can provide.



Structural Health

Proactive or reactive monitoring for movement, strain, fatigue etc, can provide the data needed to ensure actions can be put in place to prevent the health of a structure getting worse or failing.



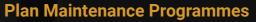
Whether it is a structure under your control or a 3rd party structure, our monitoring solutions can report if any surrounding works are having a detrimental impact on the structural integrity of a building.



Risk Mitigation

Structural monitoring systems act as an advanced warning system of potential failure when specified proactively.

Sensors will highlight any risks of failure before they occur, enabling any safety concerns to be mitigated before they become a problem.



Planning for the future is important to all building or structure owners. Our monitoring solutions give you accurate real-time data which is much more efficient than regular visual inspections. This ensures that you can accurately predict and plan for any remediation work that may be required.



Ensuring Site Safety

Our monitoring sensors are regularly used on sites in conjunction with our temporary works equipment to ensure that loads are not exceeded, that movement is not occurring and many more instances to ensure a safe working environment.

Protecting The Local Environment

Environmental monitoring ensures that the local environment is not too heavily affected by noise, dust or vibration from local construction or demolition works. It ensures compliance to Section 61 of the Control of Pollution Act 1974, helping to minimise the environmental footprint of the site and disruption to the local neighbourhood.



Our Monitoring Solutions

Our structural and environmental monitoring solutions include both wireless systems and optical solutions such as 3D Scanning and Automated Total Stations. We have a full set of solutions for all situations and all our monitoring packages are tailored to the requirements of each individual project.

We have a large breadth of engineering expertise here at Mabey Hire, making sure we can design the perfect solution, every time.

- Electronic engineers
- Electrical engineers
- Environmental engineers
- Software engineers

- Mechanical engineers
- Structural engineers
- · Geotechnical / Geodetic engineers















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System planning & design

Early engagement with our clients ensures that our expert engineers design a tailored monitoring solution to all projects.

Installation & configuration

Our team will install and ensure accurate configuration of all monitoring equipment on site.

Data configuration

Our unique web based reporting software, Mabey Insite is pre-configured for each project based on a clear understanding of client needs with built in trigger levels to alert users to any breaches.

Data visualisation

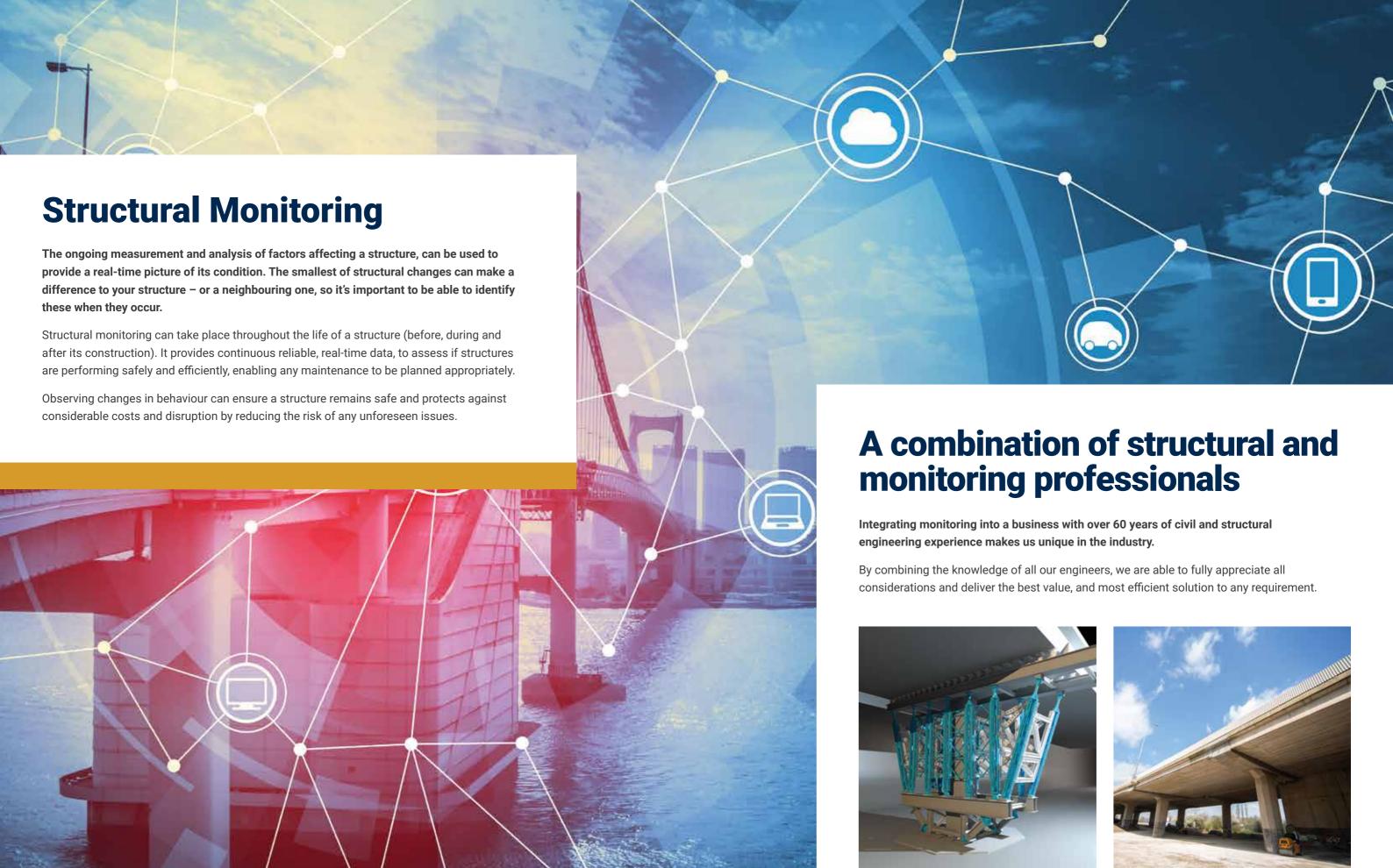
Clients are able to view accurate, real-time data that is easy to interpret through the use of graphs, schematics and 3D modelling.

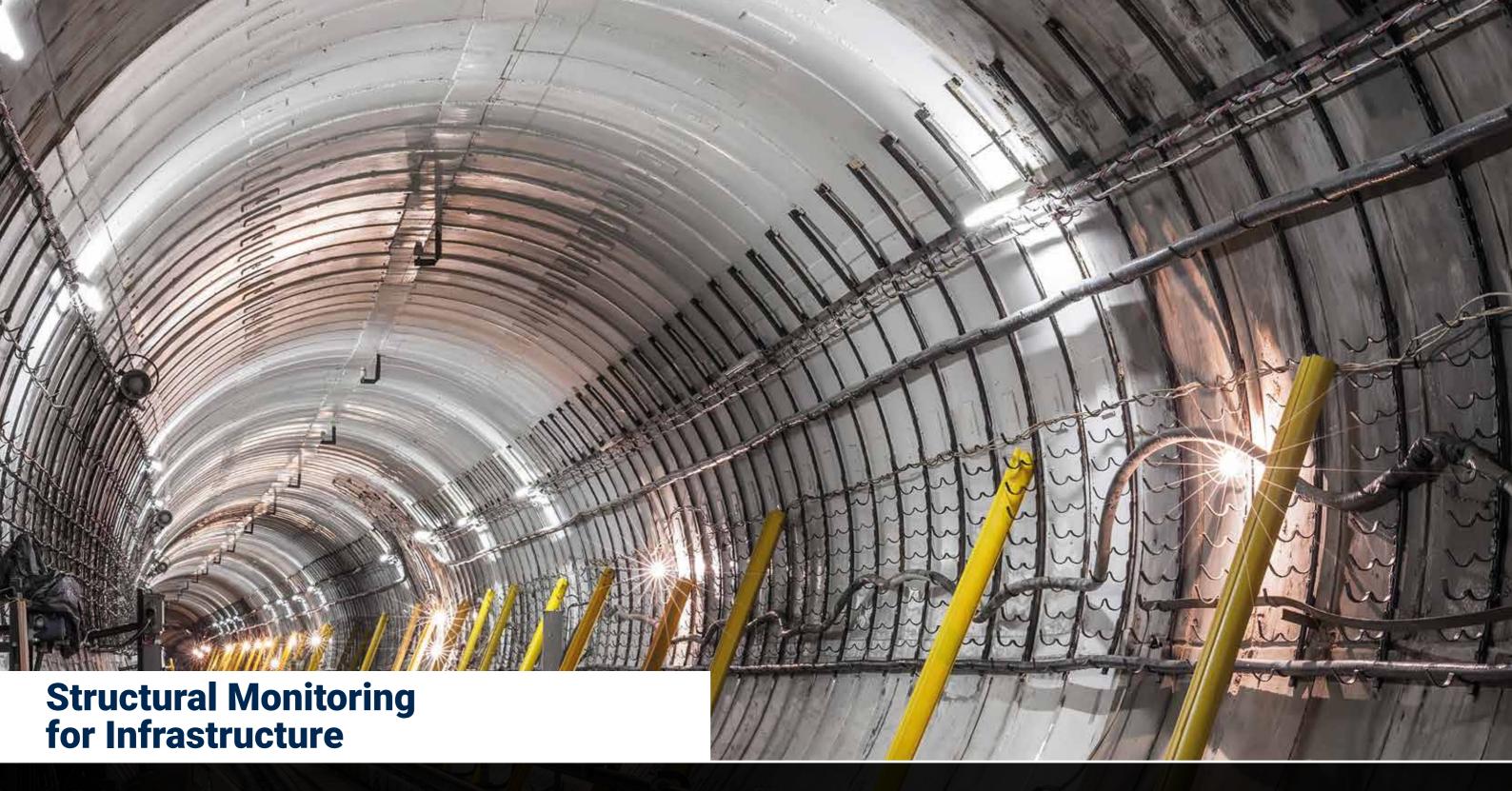
Reporting

Templates are set up within the Insite system to enable quick and easy reporting.



When structural monitoring highlights that remedial work is required on your building or structure, we also have the widest range of temporary works equipment and the expert structural engineers to design your complete solution.





Whether bridges, tunnels or railways, our country's infrastructure is subject to wear and deterioration. This may be caused by age or an extreme situation such as a bridge strike or a flood. Monitoring the behaviour of these assets and their surrounding areas ensures that any changes can be observed as they occur. This helps to inform engineers and inspectors about the condition of a structure. Condition based maintenance plans can then be put in place before any serious damage is caused, replacing schedule driven maintenance.

Applications:

- Railway track monitoring
- Slope stability
- Motorway settlement
- Bridge structural health
- Abutment monitoring
- Tunnel monitoring
- New build infrastructure
- Ground monitoring







Rail

Factors such as nearby construction activities or environmental conditions can affect the safe and continuous use of a railway. Our rail monitoring solutions are key to ensure these important assets are protected. They provide the data required to assess the performance of tracks, tunnels and the surrounding area in real-time. This ensures the most appropriate action can be taken to maintain the performance and safety of the railway.

1 Track Monitoring

Working to Network Rail Standard NR/BS/LI/045, our team are well versed in delivering all-inclusive track monitoring solutions including scheme design, installation and project lifecycle support.

Using a combination of manual and fully automated, remote monitoring systems, our solutions can reduce the number of visual inspections and track possession time, ensuring the railway remains safe and can continue its operation.

Our solutions provide critical measurements and alerts in real-time for track geometry, void and critical rail temperature.

2 Tunnel Monitoring

The failing structural health of a tunnel has an impact on the safety of these important structures and therefore the operation of a road or railway.

Using our monitoring solutions proactively, helps to inform engineers and inspectors of any deterioration in its structural health, before it becomes a safety concern. Our team can design and implement schemes to give accurate indications of tunnel stability using instruments such as wireless crack monitors, 3D scanners and wireless tilt sensors.

This helps to ensure the safety of a tunnel over its lifespan, allowing for planned maintenance and ensuring the continued operation of the road or railway running through it.

3 Slope Stability

Key to ensuring the safe operation of our railways, the instability of a railway cutting can have serious consequences on the track and therefore public safety.

Our geotechnical monitoring solutions act as an early warning system to alert asset owners to any ground movement. Any movement will trigger specialist camera systems that record any changes visually in order that any impact can be assessed without needing access to the cutting itself.



Ground vibration can affect the safe operation of a railway. This can be caused by nearby construction works for example. Our vibration monitoring solutions provide real-time measurements ensuring that immediate action can be taken so that the railway is protected from any potential damaging effects.

> Email action@mabeyhire.co.uk for more information



		Track Monitoring			Tunnel Monitoring		
	3D Track Geometry Monitoring	Movement Monitoring	CRT and Void	Tunnel Diametrical Distortion	Structural Health	Embankment Monitoring	
Automated Total Stations	✓			✓		✓	
Manual Track Monitoring	✓						
3D Scanners	✓			✓	✓	✓	
Temperature Monitoring			✓		✓		
Wireless Tilt Sensors		✓		✓		✓	
Shapeaccel Array				✓		✓	
Fibre Optic Sensors				✓	✓	✓	
Ground Inclinometers		✓	✓			✓	
Vibrating Wire Strain Gauge				✓			
Ground Pressure Cells					✓	✓	
Real-Time Cameras			✓			✓	
Dynamic Displacement Sensors			✓				

Did you know...

We are RISQS verified



For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk

Highways

Our major road networks are another key part of our countries infrastructure. Keeping them running is paramount, and continued, proactive maintenance is key. Our monitoring solutions can be used in many ways to provide assurance and enable proactive maintenance plans to be put in place.

1 Motorway settlement

Construction works taking place near or under a motorway could affect its performance and therefore public safety.

Our sophisticated monitoring systems can operate from a distance using total stations installed at the side of the hard shoulder. They help to ensure the continued safe operation by highlighting any maintenance requirements in advance and negate the need for motorway closures.

2 Environmental Impact

As our motorways become busier, the environmental impact of them is ever greater. Our environmental monitoring solutions can be implemented close to motorways to provide insight into noise, dust, vibration and air quality. This ensures compliance to Section 61 of the Control of Pollution Act 1974 and helps protect neighbouring communities from their effects.



		Motorway Settlement	Environmental Impact		
	3D Movement	Dynamic Monitoring	Long Term Structural Health		Noise Assessments
Automated Total Stations	✓		✓		
3D Scanning & Targetless Monitoring	✓				
3D Dynamic Video Gauging	✓	✓			
Wireless Tilt Sensors			✓		
Ground Inclinometers			✓		
Fibre Optic Systems	✓	✓			
Foil/Vibrating Wire Strain Gauges		✓	✓		
Thermal Expansion - Temperature			✓		
Dynamic Displacement		✓			
Enviroguard - Vibration		✓			✓
Enviroguard - Noise				✓	✓
Weather Stations				✓	✓
Precipitation And Visibility Sensors				✓	



For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk

Bridges

Increasing rates of traffic and the subsequent load strain it causes, in conjunction with general fatigue, can lead to unpredictable bridge failures. Our bridge monitoring systems accurately detect any structural health issues, enabling maintenance schedules to be planned and the reduction of visual inspections.

1 Absolute 3D Movement

Aging, nearby works or any repair works on a bridge, can cause a bridge to move. Typically, this is by millimetres but can be more severe and over time, could cause failure of the bridge.

Our solutions are able to monitor any movement either continuously, using our total station and prisms or manually using our 3D scanning equipment.

2 Bridge Load/Deflection Monitoring

By placing displacement sensors underneath the deck, we can provide a strong assessment of the structural integrity of a bridge at different loads.

The insight gathered from this long or short term monitoring can provide assurance that a bridge remains safe under load or alternatively, requires a maintenance and repair plan putting in place.

Our experts also have extensive experience monitoring load throughout bridge jacking and de-jacking operations ensuring optimum safety at all times.

3 Abutment & Pier Monitoring

Movement or degradation in the abutments or piers of a bridge, can have an impact on the overall structural health of the bridge. The monitoring of these key components of the bridge, is therefore often performed as part of a full bridge monitoring scheme.

Soft ground conditions below bridges present settlement and stability issues for abutments. Conversely, well compacted, heavy material around the base of an abutment can cause rotation, which can lead to full expansion joint closure or even bowing of the deck in more serious cases.



	Absolute 3D	Movement	Bridge Load/Deflection Monitoring			Abutment & Pier Monitoring		
	Automated 3D Movement	Manual Monitoring	Load Test - Bridge Assessments		Bridge Strikes	Settlement	Long Term Structural Health	Structural Repair
Automated Total Stations	✓	✓		✓		✓		
3D Scanning & Targetless Monitoring	\checkmark	✓						
3D Dynamic Video Gauging	✓		✓					
Load Monitoring - Temporary Works						✓		✓
Load Cells				✓				
Wireless Tilt Sensors				✓			✓	
Fibre Optic Systems	✓			✓	✓		✓	
Foil/Vibrating Wire Strain Gauges				✓	✓		✓	
Thermal Expansion - Temperature				✓		✓	✓	✓
Displacement Sensors				✓	✓			✓
Ground Inclinometers						✓		
Impact Sensors - Accelerometers					✓			

Did you know...

Our jacking and structural monitoring solutions were used together to successfully float a flyover across 11 piers on Docklands Light Railway for 18 months.



Offering the complete solution to infrastructure projects, our large range of propping and jacking equipment means that our experienced team of temporary works experts can design you the perfect solution to keep your bridge safe whilst any remedial work is undertaken.

Email action@mabeyhire.co.uk for more information

For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk

Bridges

Increasing rates of traffic and the subsequent load strain it causes, in conjunction with general fatigue, can lead to unpredictable bridge failures. Our bridge monitoring systems accurately detect any structural health issues, enabling maintenance schedules to be planned and the reduction of visual inspections.

4 Bridge Crack Monitoring

Crack identification is one of the most important aspects of structural health monitoring. Cracks will occur in most structures and are often the first signs of more serious defects. Using our monitoring solutions, we can record and observe the changes in crack behaviour in real-time, providing much more accurate and detailed insight than visual inspections. This ensures that potential structural failures are detected at an early stage, helping to ensure that our bridges remain safe and in good structural health.



Environmental conditions, grit or residues from the road, aging and fatigue, are all factors that can cause bearings to cease which can be catastrophic for the bridge deck and the pier.

By using our displacement sensors to monitor the movement of the bearings over time, any maintenance requirements can be planned in, ensuring the bridge remains safe and enabling any costs to be planned in. We also have solutions to measure the temperature of the concrete in order to monitor any thermal expansion and contraction of the bridge.

6 Expansion Joint Monitoring

Residues and grit from the road can cause corrosion and blockages on the expansion joints. This can affect the expansion properties of the bridge, which in turn can cause deck seizure.

Change of movement outside the normal expansion of the bridge, could also identify that the expansion joints need some general maintenance.

Implementing structural monitoring can highlight the need to maintain or replace any steel expansion joints before these issues occur.



	Bridge Crack Monitoring	Bearing Monitoring		Expansion Jo	int Monitoring
	Movement		Long Term Bearing Health	Movement	Long Term Expansion Joint Health
3D Scanning & Targetless Monitoring	✓			✓	
Load Cells			✓		✓
Wireless Tilt Sensors					
Fibre Optic Systems					✓
Foil / Vibrating Wire Strain Gauges	\checkmark		\checkmark		
Temperature Sensors	✓	✓	✓	✓	✓
Displacement Sensors	✓	✓	✓	✓	✓
Crack Propagation Sensors	✓				
Ptfe - Depth Gauges		✓	✓		
Impact Sensors - Accelerometers				✓	✓

Did you know...

We have the most extensive range of hydraulic jacks, supported by our dedicated team of professionals



Our expert monitoring team, combined with our structural engineers can also implement any remedial work that may be required on a bridge.

We can mitigate any risks by integrating our temporary works equipment and controlling any lifting with our hydraulic jacks and monitoring systems.

Email action@mabeyhire.co.uk for more information

For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk



Buildings are subject to natural movement, however, activity in and around them imposes the risk of greater than usual movement through vibration. This may be as a result of such things as party wall activity, adjacent piling works, internal demolitions or basement construction. In such circumstances, it is important that a monitoring solution is installed in order to protect these assets by highlighting any significant movement as soon as it occurs.

Our monitoring solutions can be useful at any stage of a buildings lifecycle - throughout the construction process, on an existing building or during a nearby demolition.

Applications:

- Basement Excavations
- Façade Retention
- Building Movement
- Demolition
- Load monitoring during construction
- Ground engineering





Structural Monitoring of Buildings

There are a great number of situations in which buildings can benefit from structural monitoring throughout their lifecycle. Structural monitoring provides the insight to ensure that from the start of the construction phase and throughout the life of the building, the structural integrity is maintained.

1 Basement Excavations

Our bespoke wireless load monitoring solution, LIVEpin works exclusively with our excavation support systems. Implementing load monitoring on the groundworks support within large scale excavations, gives peace of mind that your project is secure.

The ground around such an excavation can also be monitored and any movement reported in real-time ensuring that the excavation remains safe.

Building Movement

Movement will occur in most buildings, but significant movement as a result of nearby works or building renovations can cause serious issues. Using our real-time monitoring solutions, we can record and observe movement over time, providing an accurate and detailed synopsis. Any structural failures in the building are therefore detected at an early stage, enabling repair plans to be put in place.

3 Demolition

Levels of noise, dust and vibration tend to be elevated on a demolition site and so can affect people that live and work in the surrounding area.

The Mabey Hire Enviroguard, is an all-in-one environmental monitoring system, able to measure all these factors and more. It sends real-time data to our Insite web portal and has tailored trigger alarms alerting you to any breaches. This will ensure your demolition site remains compliant to Section 61. This system can also be integrated with dust suppression systems to prevent limits from being reached.



	Basement Excavations		Building N	Movement	Demolition	
	Excavations	Structural Movement	Façade Retention	3rd Party Wall Agreement	Environmental Impact	Structural Movement
Automated Total Stations	✓	✓	✓			✓
3D Scanning & Targetless Monitoring	✓	✓				
Manual Surveying	\checkmark			✓		✓
LIVEpin - Load & Temperature	\checkmark				✓	
Wireless Tilt Sensors			✓			√
Foil / Vibrating Wire Strain Gauges			✓	√		\checkmark
Thermal Expansion - Temperature			✓			✓
Displacement Sensors			✓	✓		
Ground inclinometers	\checkmark	✓				✓
Enviroguard - Noise, Dust And Vibration				✓	✓	
Dust Suppression					✓	
Portable Vibration		√		✓	√	

Did you know...

Our structural monitoring ensured that any movement of a multi-storey building with a full glass facade, never exceeded set parameters when tunnelling work was underway in the London Underground below.

For more information, view our Bank Station case study at mabeyhire.co.uk



Vibration monitoring ensures that the effects of construction are not causing any other issues on site or for neighbouring properties. Our solutions include our Portable Vibration Monitoring unit or our fixed Enviroguard unit for longer term vibration monitoring.

> Email action@mabeyhire.co.uk for more information

For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk

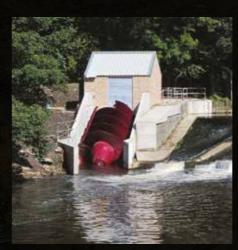


Working with our customers, our monitoring solutions have been used extensively across the utility industry. From our gas, electricity and water supply network, to our nuclear infrastructure, our monitoring solutions ensure that projects run safely and on time.

We often monitor for ground movement, vibration and VOC's to support pipe laying or land remediation work and we also have the equipment to support activity on reservoirs and dams ensuring that water levels and water quality are monitored and flood prevention schemes are in place.

Applications:

- Pipelines
- Sub Stations
- Reservoirs and Dams
- Water Quality
- Environmental





Monitoring for Utilities

Assets within the utilities market are particularly varied. Reservoirs, inlets, chambers, high pressure mains, treatment works and pumping stations are just some examples. Management of these assets is key and the data provided through monitoring is vital to aid decision making when it comes to upgrading or repairing.

1 Pipelines

Our monitoring solutions provide critical insight to ensure that the maintenance of our pipelines can progress safely and efficiently.

From providing data and alerts on gas levels, to highlighting any movement of manholes or old Victorian sewers during any maintenance work. Our solutions can ensure that pipeline maintenance is completed without any major disruption or delays.

Within deeper projects in urban areas, our data can provide assurance that nearby structures are not affected by vibration due to any major pipeline works close to their foundations.



Electrical sub stations in particular, are highly sensitive to vibration due to the electrical components housed within. It is therefore key, that these structures are protected from any vibration or ground movement that may occur as a result of adjacent excavations or piling works.

Our vibration monitoring solutions can provide 24/7 real-time data to highlight any cause for concern and will immediately alert project managers should any parameters be met. This enables works to pause whilst any vibration or movement is assessed for impact.

3 Reservoirs/Dams

Monitoring can be used as a preventative measure in a number of situations that may occur within reservoirs or dams. Our Enviroguard, environmental monitoring solution can be implemented to monitor water levels as part of a flood prevention scheme. It will generate early warnings to make sure that action plans can be put in place before the event of a flood. These same units can also be used to monitor water quality.

Our structural monitoring solutions such as 3D scanning and manual surveying can also be put in place to monitor the integrity of any reservoir or dam walls to provide assurance that they remain in good structural condition.



	Pip	Pipelines		Reservoirs/Dams		
	Structural Deformation	Damage / Leakage	Asset Protection	Structural Movement	Long Term Structural Health	
Automated Total Stations	✓			✓	✓	
Manual Surveying	✓			✓		
Vibration	✓	✓	✓		✓	
Wireless Tilt Sensors			✓	✓	✓	
Foil / Vibrating Wire Strain Gauges	✓	✓				
Thermal Expansion - Temperature	✓	✓		✓	✓	
Water Level					√	
Enviroguard - VOC - Gas Monitoring		✓				
Ground inclinometers		✓			√	

Did you know...

We provided hydraulic support and load monitoring for the outflow of what was the worlds largest hydroelectric dam in Venezuela.



Our Enviroguard units are the ideal solution for the monitoring of VOC's and other gases when conducting land remediation work on any contaminated land surrounding old gas chambers.

Email action@mabeyhire.co.uk for more information

For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk



Monitoring & Control

As a leading provider of structural propping and jacking, combined with our monitoring expertise, we are able to offer a complete range of monitoring and control systems for applications across the construction and civil engineering sectors.

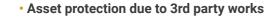
Managing risk on any project is key. By integrating our expertise in structural support and hydraulic control, we ensure that projects can go ahead safely and efficiently.

When further assurance is required, we have unrivalled experience in integrating our realtime structural monitoring. The data that this delivers, is used to automatically control the hydraulic jacking system. This ensures we mitigate any risk of potential damage and structural failure.

Our wide range of jacks, purpose designed synchronised pumps and computer controlled jacking techniques means we can create a bespoke solution for your project.

- · Managing long term settlement
- · Load and displacement monitoring
- Tunneling settlement

Building movement





80,000 vehicles use the motorway bridge every day

88

hydraulic jacks used on the project to lift the bridge by just 5mm

Our unique combined expertise in propping, jacking and monitoring meant that we could successfully manage this project, and others like it, from start to finish.



Essential repair work required on the concrete piers of a 45 year old bridge.

Used by over 80,000 vehicles every day, closing the bridge, even in one direction, was not an option.

We designed, fabricated and installed a bespoke solution to lift the bridge just 5mm using:

Superprop
 88 hydraulic Hymat jacks

We also implemented a structura Imonitoring solution to monitor for any movement during the works, ensuring use of the bridge could continue safely.





For further information on any of monitoring systems please refer to our website at mabeyhire.co.uk

Environmental Monitoring

Environmental Monitoring in construction, is the measurement and analysis of environmental conditions both on and around work sites. This includes Noise, Dust, Vibration, VOC, Wind Speed and Direction and more.

Environmental monitoring allows construction and infrastructure projects to stay within permitted noise, dust, and vibration limits, ensuring compliance to Section 61 of the Control of Pollution Act 1974 and helps to reduce their environmental impact.

The monitoring and management of environmental conditions also helps to protect against potential claims. It provides the data you need to mitigate risk and avoid potential costly programme delays due to local enforcement actions.

Section 61 Applications

mabeyhire

A completed and approved Section 61 application can have great benefits to a project. It gives legal protection to the contractor whilst also building trust with local residents, reducing the risk of complaints.

Our expertise in environmental monitoring, means we can work with you to ensure your application is approved, enabling you to reach the full potential of the rate of works whilst remaining within acceptable limits of noise, dust and vibration.

The key to an approved Section 61 agreement is early involvement in your project. This ensures that we can create a detailed, tailor made plan to mitigate noise and vibration levels. This plan will consider local constraints, availability of plant and any project implications.

Once approved, our monitoring systems will make sure that your site adheres to your Section 61 agreement and will provide evidence of compliance should it be required.

Enviroguard

Mabey Hire Enviroguard is a real-time monitoring solution able to measure any number of factors that might impact the environment.

Ideal for use in and around a construction or demolition site, by continuously monitoring on-site conditions it ensures compliance to Section 61 of the Control of Pollution Act 1974 whilst also helping to minimise:

- · The environmental footprint of the site
- · Delays due to work stoppages
- · Disruption to the local neighbourhood

Features & Benefits:

- Real-time monitoring solution Provides 24/7 real time data for complete assurance
- Modular and scalable Tailored to your exact requirement
- Measures Air Quality, Noise Dust & Vibration, Weather and more everything you need in one unit
- · Live data via web portal Instantly manage your data remotely
- Tailored trigger level alarms Immediate notification of any changes that require
- Installed and configured by our experienced engineers giving you the complete solution
- · Can be integrated with dust suppression units for the complete dust solution

An all in one solution, each Enviroguard unit is tailored to the exact requirements of each project with the ability to monitor many different factors including:

The perfect solution for shorter term or multiple ad-hoc measurements, this portable vibration monitoring solution has been specifically designed to be robust and easy to use - ideal for

Portable Vibration Monitoring

construction and demolition environments.

Housed in a virtually unbreakable, IP67 rated case, the Portable Vibration Monitor can be moved around site as a project progresses and features audible and visual alert beacons to warn of any breaches.

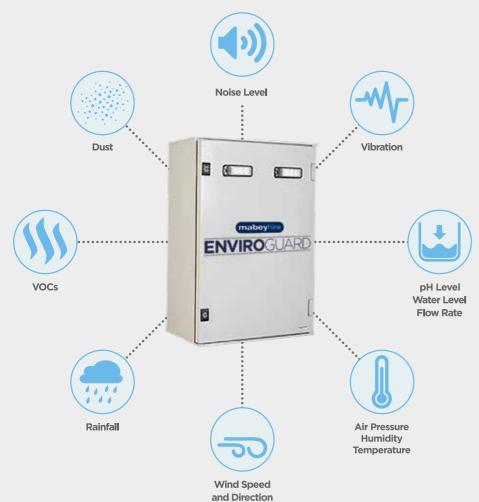
Our Portable Vibration Monitor is fully compliant to BS7385, BS5228 and DIN4150-2 and is ideal for use in a wide range of applications for example:

- · Construction and demolition activities
- · Piling projects and Groundworks
- · Party wall agreements
- · Rail embankment monitoring
- · Buried services monitoring
- Traffic surveys

Features & Benefits:

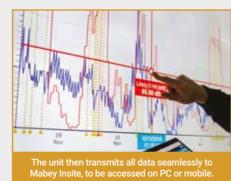
- · Simple, intuitive touchscreen operation
- easy to use
- · Lightweight, portable unit
- can easily be moved around site
- · Battery operated with mains charger
- ensures continual, uninterrupted use
- Data is stored to the unit memory, for USB download
- for analysis at a later stage
- · If required, data may be streamed to our online portal (Insite)
- for instant real-time review

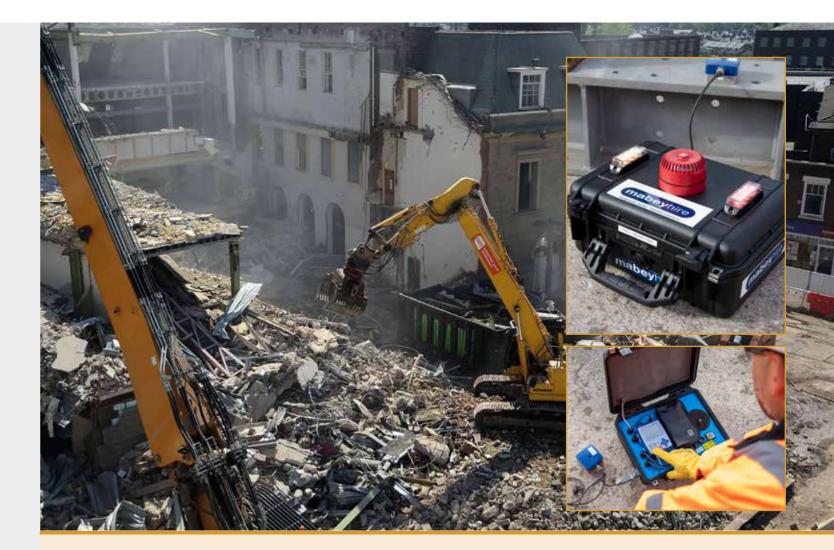
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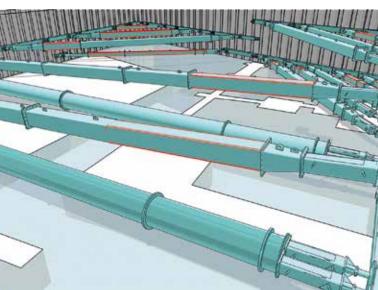
BIM (Building Information Modelling)

Our early adoption of Revit 3D software in our scheme designs, enabled us to further help our clients to win and deliver projects. We have the capability/processes to work to BIM level 2 standards.

Immersive Technology

Developed by our in-house engineers, EVE uses immersive technology to create an intuitive 3D design for your construction project, incorporating all aspects of temporary works.

Rendering a fully explorable visualisation of your project, EVE allows users to see the full project before construction work begins.



STEM (Science, Technology, Engineering & Mathematics)

We take our responsibility for encouraging the next generation of engineers seriously. That's why we have built the STEM Education programme, using LEGO® to inspire children to consider a career in engineering, delivered by our own STEM Ambassadors, enabling a new generation of engineers to take our industry forward..

Learning & Development

With our in-house ICE accredited training programme we are committed to supporting the development of our engineers to raise standards within the temporary works industry.

The ICE has approved our structured training agreement and many of our engineering team are either Fellows of the ICE, Chartered Engineers or are working towards professional qualifications.



CUSTOMER SATISFACTION mabeyhire Temporary works. Trusted solutions. 0845 741 3040 mabeyhire.co.uk Propping & Jacking Groundworks Support Formwork & Falsework - Mountaining Temporary Access Temporary Bridging

Working with Mabey Hire

Any delay impacts a construction project significantly, so our customers demand a right first time service. We have built our business to ensure we meet that need.

As an award-winning temporary works specialist - we have the knowledge, experience and the support network to ensure we deliver an unrivalled service. This ensures we can deliver a quick and efficient solution, from design through to delivery and installation, throughout the UK.

This service is backed by our commitment to quality, safety and the environment.



INVESTMENT **IN EQUIPMENT**

£2M

98.75%

ON TIME IN **FULL INVOICE** £1M

INVESTMENT **IN VEHICLES**

GET IT RIGHT INITIATIVE

error within the construction industry. With our membership to GIRI (Get It Right Initiative), we're working directly with them and other members to improve productivity, quality, sustainability and safety through the drive of innovation and sharing of best

Site services

Successful completion of any contract requires co-operation and a desire to succeed from all parties. Our mission is to bring the benefit of our market-leading products together with our experienced engineers and our installation capability to offer safe, economic and least intrusive temporary works solutions, delivered on time and on budget. Our site management and installation teams work closely with the engineers and our clients to advise, plan and execute works on site in a safe, timely manner with due regard to the needs of others working around us.

Customer service excellence

We pride ourselves on our commitment to customer service excellence and regularly conduct external research to refine and improve our service offering, striving for complete customer satisfaction.

Commitment to quality, safety and the environment

Our health and safety programme has been recognised by numerous professional bodies across the construction and manufacturing industry.



ESG

Our activities help shape the world we live in and leave a lasting impact. That's why we're committed to protecting the planet, caring for our people and communities, and being a responsible business.

ESG stands for Environmental, Social and Governance and our strategy sets out how we're taking responsibility for protecting the planet, people and communities to achieve a sustainable future, from the way we behave and operate as a business, to the actions we all take every day.

Discover our full ESG strategy at: mabeyhire.co.uk/esg



PROTECTING THE **PLANET**

Taking action today to protect our planet's future

- Net Zero by 2035
- Enhancing biodiversity
- · Reducing waste to landfill
- Paper-lite business















CARING FOR PEOPLE & COMMUNITY

Supporting a fair and inclusive society

- Providing an inclusive workplace with equal opportunities
- Engaging with the communities we work in
- Early career engagement
- · Supporting our people













BEING A RESPONSIBLE

Doing the right thing,

· Fair and rewarding

and responsible

renumeration

A compliant

business

Responsible

procurement

management

Transparent

reporting

and supply chain

BUSINESS

always



Mabey Hire Near You

SCOTLAND

0141 779 3535

GLASGOW

Woodhead Rd, Muirhead, Chryston, Glasgow, G69 9JD

INVERNESS

41 Lotland Street, Inverness, IV1 1ST

ABERDEEN

Ellon Commercial Park, Balmacassie, Ellon, AB41 9RD

NORTH

DURHAM

Parkgate, Hetton Lyons Ind Est, Houghton-Le-Spring, DH5 0RH

GARSWOOD

198 Gibbons Road, Garswood, Nr Wigan, Lancashire, WN4 0YA

DEWSBURY

1-5 Railway Street, Scout Hill, Ravensthorpe, WF13 3EJ

CENTRAL

01902 404512 central@mabeyhire.co.ul

NOTTINGHAM

Oakwood Grange, Robinettes Lane Cossall, NG16 2RX

WELLINGBOROUGH

15 Bradfield Close, Finedon Road Ind Est, Wellingborough, NN8 4RQ

BILSTON

Stag Ind Est, Oxford Street, Bilston, West Mids, WV14 7HZ

SOUTH EAST

01707 267171 southeast@mabeyhire.co.uk

BURY ST EDMUNDS

Mercers Rd, Compiegne Way Bus Pk, Bury St Edmunds, IP32 7HX

ROMSEY

Belbins Business Pk, Cupernham Lane, Romsey, SO51 7JF

HATFIELD

Dennis Works, Travellers Lane, Welham Green, Hatfield, AL9 7HN

STROOD

Commissioners Road, Strood, Rochester, Kent, ME2 4EQ

SOUTH WEST

01249 81906 southwest@mabeyhire.co.ul

CARDIFF

Gulf Works Industrial Estate, Penarth Road, Cardiff,CF11 8TT

NEWTON ABBOT

Fairfax Road, Heathfield Ind Est, Newton Abbot, Devon, TQ12 6UD

Harris Road, Porte Marsh Ind Est,

