

Remote monitoring in construction is important for its ability to provide real-time insights, enhance safety, optimise resource management, reduce costs, and improve overall project efficiency. Using cellular connectivity for remote monitoring is a key element in modern construction practices, allowing for smarter, more informed decision-making throughout the project lifecycle.



How can Cellhire's cellular connectivity be used for remote monitoring?



Environmental sensors

When monitoring factors like temperature, humidity, and air quality, cellular connectivity enables real-time data transmission of environmental sensors to a centralised platform. Managers can gain insights into working conditions remotely and ensure that workers are operating in a safe environment.



GPS tracking

GPS trackers, paired with cellular connectivity, provide real-time 24/7 web-based tracking for heavy equipment on construction sites. This integration enables instant location updates via SMS, enhancing project logistics and facilitating dynamic route optimisation.



Telematics

Telematics devices are installed in construction vehicles to collect and transmit data on fuel consumption, engine performance, and driver behaviour. Cellular connectivity facilitates the remote monitoring of vehicle health and performance, helping improve fuel efficiency and schedule maintenance proactively.



Predictive maintenance sensors

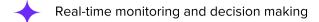
Various sensors are integrated into critical machinery to monitor factors such as vibration, temperature, and usage patterns. Cellular connectivity allows for real-time transfer of such data to a central platform in which the information generates alerts for upcoming maintenance needs. This minimises downtime and extends the lifespan of equipment.

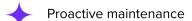


Fleet tracking

Construction companies often maintain a fleet of vehicles and trucks for transporting materials and personnel. Cellular-connected fleet tracking provides real-time visibility into vehicle locations, speed, and fuel levels. This information helps optimise transportation routes, reduce fuel costs, and ensure timely delivery of materials.

What are the benefits of utilising cellular connectivity for remote monitoring?





Enhanced safety

Efficient fleet management

Cost optimisation



Why choose Cellhire for your construction connectivity requirements?

Access to the leading 3 UK networks

Unsteered solutions to maximise continuous connectivity

Customised solutions for construction

Un-steered multi-network SIMs for seamless connectivity

eSIM capabilities for flexibility and control

4G and 5G options for high-speed data transmission

Primary and backup options for continuous functionality





Download our white paper to understand how cellular connectivity for construction could benefit you.

5 minute read

Download

Get in touch with a Cellhire connectivity expert to find out more:

Visit: cellhire.co.uk/iot-connectivity/applications/construction

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