

Red Air Media are at the leading edge of drone technology in the building and construction industry, trail-blazing new and cost-effective solutions for contractors promoting better welfare and site safety.

With a range of different drones as well as 360 walkthrough cameras, that can capture data within buildings, Red Air Media can support contractors to work quicker, more cost effectively and safer during all stages of a construction project.

The focus of this case study is on how drones can support pre-construction, enabling and sub-structure works and to monitor earthworks on site.

At the pre-construction stage drone surveys can allow contractors to map existing site conditions extremely quickly. The operating system can identify vegetation that requires clearance, map elevation gradients and communicate important site logistics such as staging areas, parking, storage, etc. This enables the contractor to more efficiently plan enabling works, site set up requirements, calculate required levels of cut and fill and allows trades to better coordinate prior to mobilisation.



Drones in construction

For more information on Red Air Media please contact Operations Director Jim Bishop on jim@redairmedia.co.uk

RED AIR MEDIA

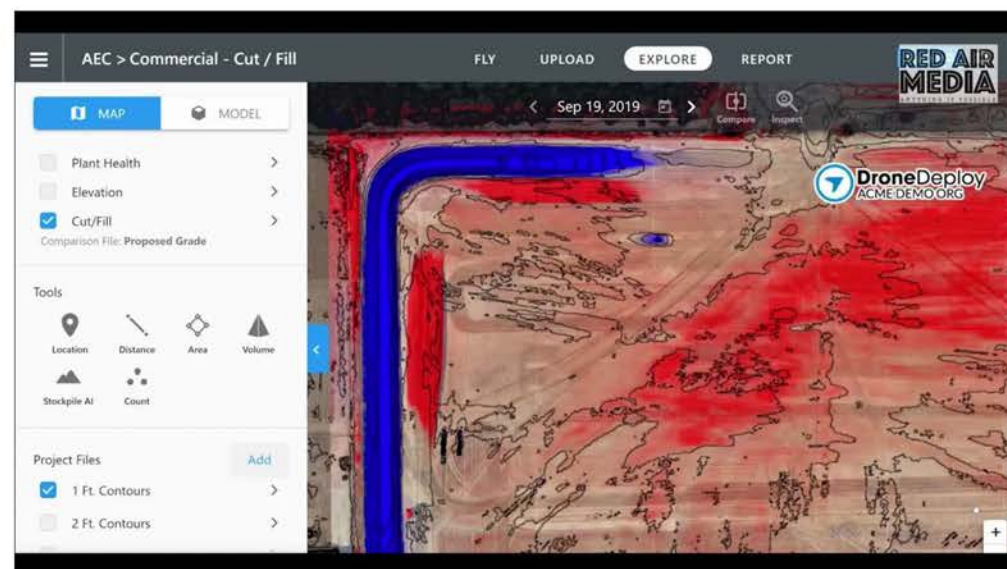


During earthworks Red Air Media can precisely measure the actual volume of spoil piles using 3D scanning software allowing contractors to more accurately plan for materials that need to be removed from site, leading to more correct up front cost planning.

Another service offered by Red Air media is to monitor sub-structure works, where drone surveys can be used to measure footing length, excavation and trenching. Design data can be overlaid to show existing utilities and check earthworks and foundations are sited in the correct locations. Providing a valuable tool for contractors in their quality assurance processes.

Whilst works commence Red Air Media can measure and monitor the amount of works that have been undertaken, such as length of curb and gutter that has been installed, or to measure the progression of site grading within minutes rather than hours. This leads to quicker, better and more accurate monitoring.

Drone surveys are completed 90% faster than traditional data methods with flights undertaken, data processed and reports created within 24 hours. And the data is more accurate than traditional methods with the drone capturing data in a one cm per pixel resolution. Using Red Air Media avoids the need for additional people to walk on a live construction site increasing site safety.



Companies like Red Air Media are changing the construction industry saving contractors time and money and reducing risks on site. Drones can take on a wide range of activities. For this emerging technology the sky's the limit.

Contact us

If you have a project that provides outstanding benefits and demonstrates best practice to the standards of this case study please share your experience to the industry by contacting us at:

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