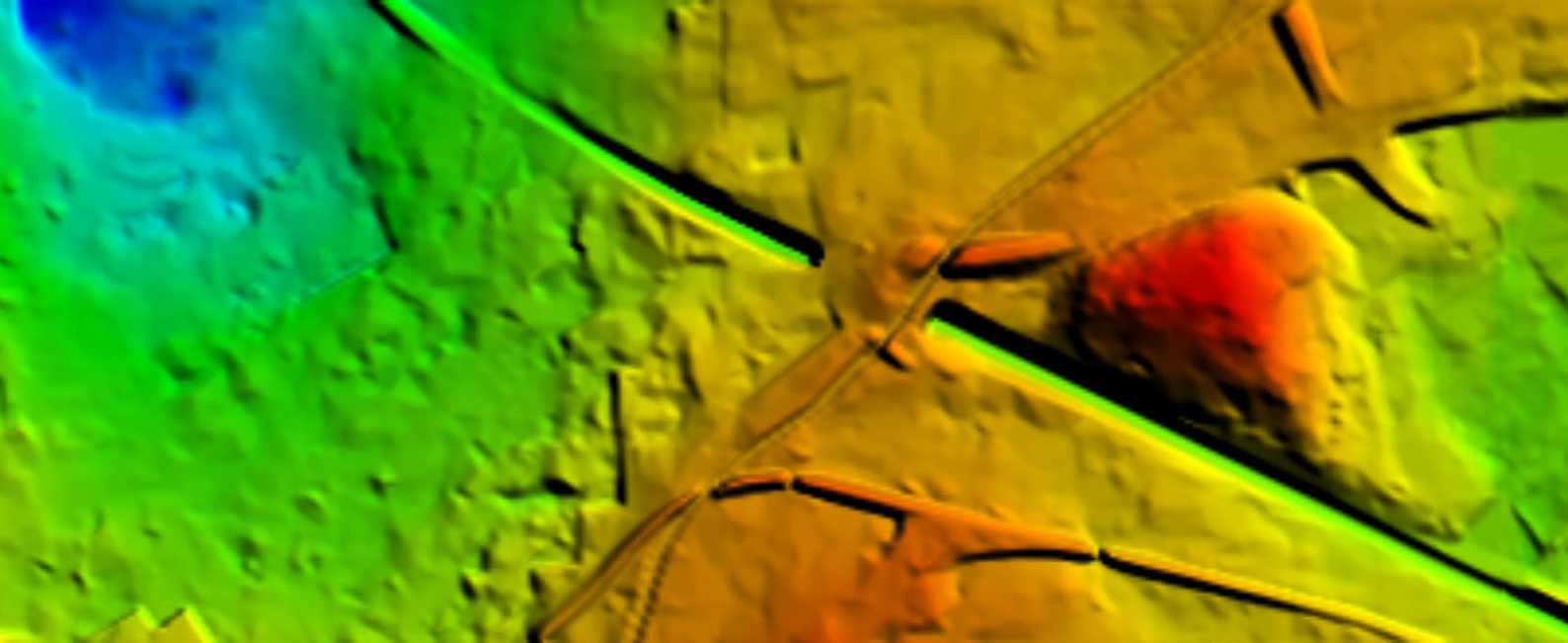


Case Study



City of Wolverhampton Council



Client:

The landscape and grounds maintenance teams at the City of Wolverhampton Council. The teams are responsible for the maintenance of the grounds of the Authority's assets, such as recreation grounds, parks and cemeteries.

Industry:

Local Government

Product:

Digital Terrain Model (DTM)

“ Having access to Digital Terrain Models via the APGB contract means we can support this team with slope analysis, landscape design, maintenance planning and flood risk assessment. ”

Gary Swift – System Support Officer GIS
City of Wolverhampton Council.

CITY OF
WOLVERHAMPTON
COUNCIL

Summary:

Using Bluesky's Digital Terrain Model (DTM) has enabled the landscape and grounds maintenance teams at the City of Wolverhampton Council to create safer environments when working on-site. The DTM offers a clear visual of real-world terrain variations which is helping to identify potential water run-off and flooding risks during periods of heavy rainfall. Additionally, the data highlights areas that may pose a risk to the teams and supports with identifying the most suitable machinery to carry out work.

Challenge:

The landscape and grounds maintenance teams identified a need for site safety and risk assessments which take in to account real world slopes, embankments and levels. With access to only 2D mapping and contour lines, which were general gradients across a much wider area, the teams lacked precise height detail for specific areas. This lack of detailed terrain information made it difficult to accurately assess site conditions and, therefore, the appropriate machinery needed for each location. This posed a risk to the safety and efficiency of maintenance operations.

Solution:

Using Bluesky's DTM, which is available as a grid of heightened points and contours at 5 metre intervals, the GIS team at the Council were able to create 3D maps of the terrain that is managed by the maintenance teams. This comprehensive dataset means the maintenance teams can create assessments based on clear and accurate visualisations of the sites, and this is then shared with contractors and site personnel.

Results:

The landscape and grounds maintenance teams have been able to confidently meet the safety requirements set out in their site safety and risk assessments as they can now consider real world terrain variations when assessing sites. Using the height data to

better understand the landscape has enabled the maintenance teams to better assess sites for potential risks, and they can now conduct maintenance in a safer environment whilst using the correct machinery.

DTM Specification	
Resolution	5m
Coverage	Great Britain
Accuracy XY	± 1m rmse
Accuracy Z	± 1.5m rmse
Formats	Include: ASCII Grid, ASCII XYZ, DXF Point, Geotiff
Standard Projection	British National Grid
Metadata	Gemini 2.3

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