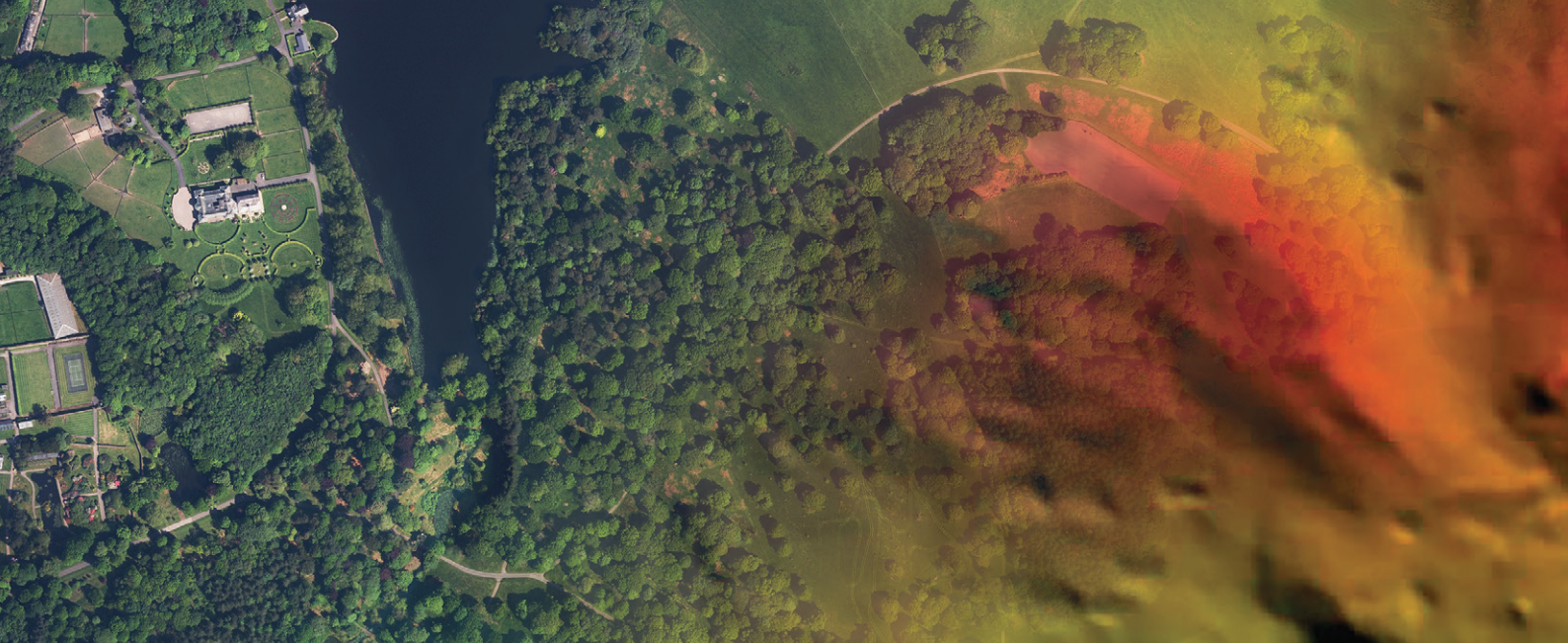


Case Study



The Mersey Forest Partnership



Client:

The Mersey Forest is created from a partnership of local authorities (Cheshire East, Cheshire West and Chester, Knowsley, Liverpool, Sefton, St. Helens, Halton and Wirral), landowners, the Forestry Commission, Natural England, Environment Agency, businesses, and local communities.



Industry:

Local Government

Product:

Aerial Photography
& Height Data

“Having access to aerial photography and height data via the APGB contract means we can offer natural flood management solutions that protect and enhance our environment and communities. Using The 12.5cm aerial photography and height data is great because it offers us a level of detail we need to create an accurate desktop appraisal, assessing opportunities to share with landowners.”

Rob Dyer, NFM Manager, Mersey Forest

Summary:

The Mersey Forest's Natural Flood Management (NFM) team is working to create effective and sustainable flood prevention and reduction measures. The team's ethos is to protect what is there, to restore and to mimic nature. Additionally NFM should improve water quality, biodiversity, habitats and climate resilience.

Challenge:

Over the past decades and centuries, people have changed the course of river paths. In UK cities in particular, we have a heavily modified water network. This was primarily due to the need in the post-war era to make the land more productive. However, it is now apparent from these historic changes, coupled with the effects of climate change, that there is a need to slow down water flow and store water in upper catchment areas.

Hard engineering is incredibly expensive and not particularly aesthetic so natural flood management solutions need to be found.

Solution:

Using Bluesky's 12.5cm aerial imagery and height data via the APGB download portal, the Mersey Forest is able to create flood management interventions that can then be introduced to land owners and community groups.

The aerial data enables clear plans to be shared with contractors and land owners for cost-effective flood management solutions that are sympathetic to the natural environment.

Results:

Using Bluesky's data has enabled time and resource efficiencies because the team are able to assess exactly what materials contractors need for natural flood management projects.

They can see where there is a need to intercept water and slow it down by knocking the peak flow off meaning there is lower water levels.

The data has resulted in the team being able to provide comprehensive end-to-end reviews from the initial appraisal through to the design and delivery on-site and future monitoring.

| | Imagery Specification | DTM Specification |
|----------------------------|-------------------------|--|
| Resolution | 12.5cm | 5m |
| Coverage | Great Britain | Great Britain |
| Accuracy XY | ± 30cm rmse | ± 1m rmse |
| Accuracy Z | - | ± 1.5m rmse |
| Formats | Include: JPG, TIFF, ECW | Include: ASCII Grid, ASCII XYZ, DXF Point, Geotiff |
| Standard Projection | British National Grid | British National Grid |
| Metadata | Gemini 2.3 | Gemini 2.3 |

Get in touch today at support@apgb.co.uk