



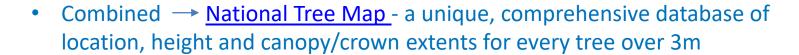
How aerial survey technology is helping to shape the future of the treescape of the UK

Bluesky's National Tree Map



Bluesky International

- The UKs leading aerial survey company
- Suppliers of aerial imagery to the APGB framework
- 4 products created from an aerial survey flight:
 - Vertical aerial photography (AP)
 - Colour infrared data (CIR)
 - Digital Surface Model (DSM)
 - Digital Terrain Model (DTM)

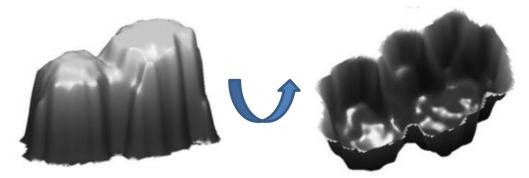






Creation of NTM

- OTS dataset first created in 2009/2010
- Use combination of AP, CIR, DTM/DSM to plot trees over 3m



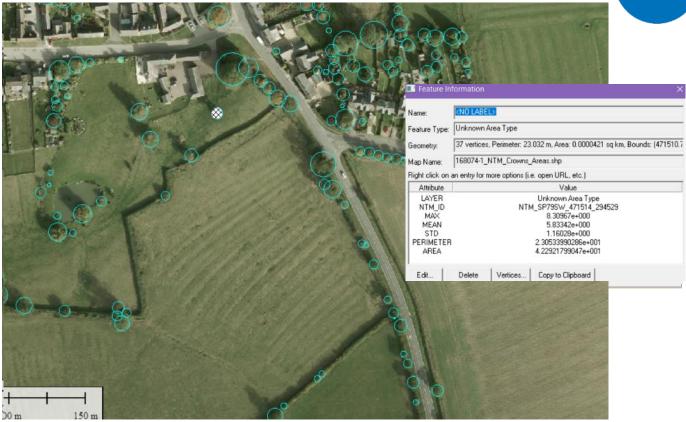
- Largely automated process before manual QC checks
- Huge increase in licensing from public sector and across other market sectors



National Tree Map (NTM)

- Dataset comprising of 3 layers all with common attributes:
 - Height point
 - Crown polygon
 - Idealised crown area
- Layers can be switched on or off depending upon end requirement
- Fully geo-rectified



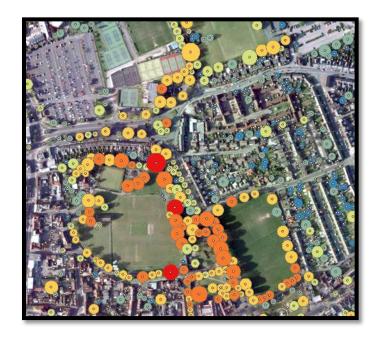




Licensing

- Licensed annually and includes updates
 - 3 year national update programme
 - Full corporate internal licence
 - Use by sub-contractors and agents

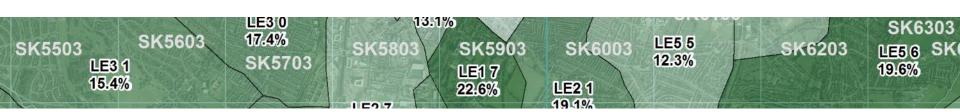
No-obligation licence







- Quick easy canopy cover calculations across any area
- Tree planting opportunity maps
- Track changes in canopy as updates to NTM are added
- Manage trees as an asset, both individually and within woodland
- Manage trees as a risk
- Aid in basic biomass calculations quantify pollution mitigation measures





NTM for meeting targets

- NTM has informed Local Council's commitment to planting more trees
- NTM has helped inform policy on where these trees should be planted
- NTM used to join up tree management information across the Council





Green light for NTM's future

- Commitment of future investment in the dataset by Board to continually update and enhance NTM
- Currently being rolled out for Scotland and Ireland
- Improved resolutions of imagery → enhancements in tree modelling
- Inclusion of oblique imagery over towns and cities will lead to even better quality NTM



