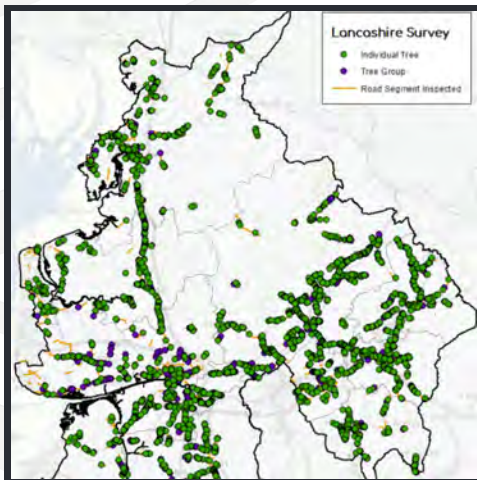
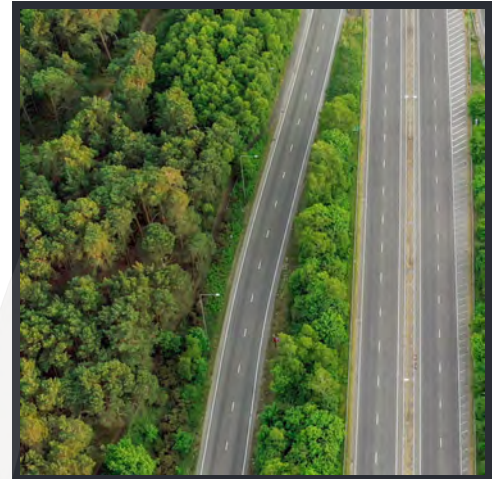


## TREE SURVEY DATA TO MITIGATE RISK

### THE PROBLEM

Central Bedfordshire Council needed to understand the level of risk in relation to trees close to Council-owned properties- schools, hospitals, and housing etc. They did not have a definitive inventory of tree stocks in these areas, and it would be too expensive for the Council to conduct a full location and condition survey. CBC asked KaarbonTech to find an innovative way that would help them prioritise their survey programme.



### THE APPROACH

Our expert data analysts used two free LiDAR (Light Detection and Ranging) datasets to identify the number of trees, their heights, and canopy coverage within proximity of the Councils' properties. After identifying and eliminating any irrelevant manmade objects from the data, we converted this into individual polygons for each tree so we could calculate an accurate height measurement. Having produced this tree canopy data set, we then worked with CBC to weight the size, heights, and target areas (should the tree fall) and added the dataset to their existing Tree SMART system.

### THE RESULT

Using Tree SMART with the additional tree canopy layer added, we created an accurate, prioritised survey programme. CBC were able to focus resources and save time and money with this risk-based approach to condition surveys.

