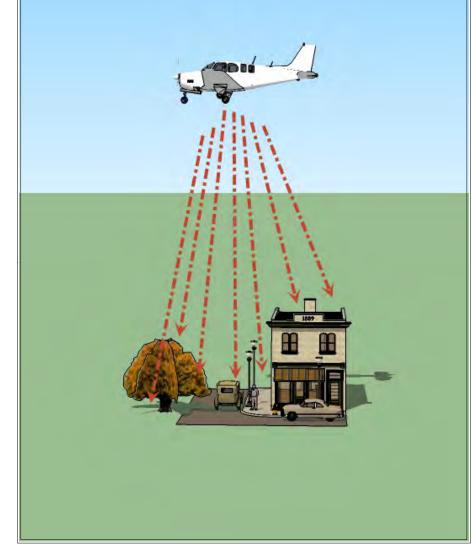


Data Collection Methods



Uses and Analysis

Forestry Management and Planning LiDAR is unique in its ability to measure the vertical

structure of forest canopies, as well as mapping the ground beneath the forest. LiDAR is able to predict, amongst other things, canopy fuel capacity for use in fire behaviour models.

Biology and conservation

LIDAR has also found many applications in forestry. Canopy heights, biomass measurements, and leaf area can all be studied using airborne LIDAR systems. LIDAR allows research scientists to not only measure the height of previously unmapped trees but to determine the biodiversity of the forest. This technology will be useful in directing future efforts to preserve and protect ancient trees.

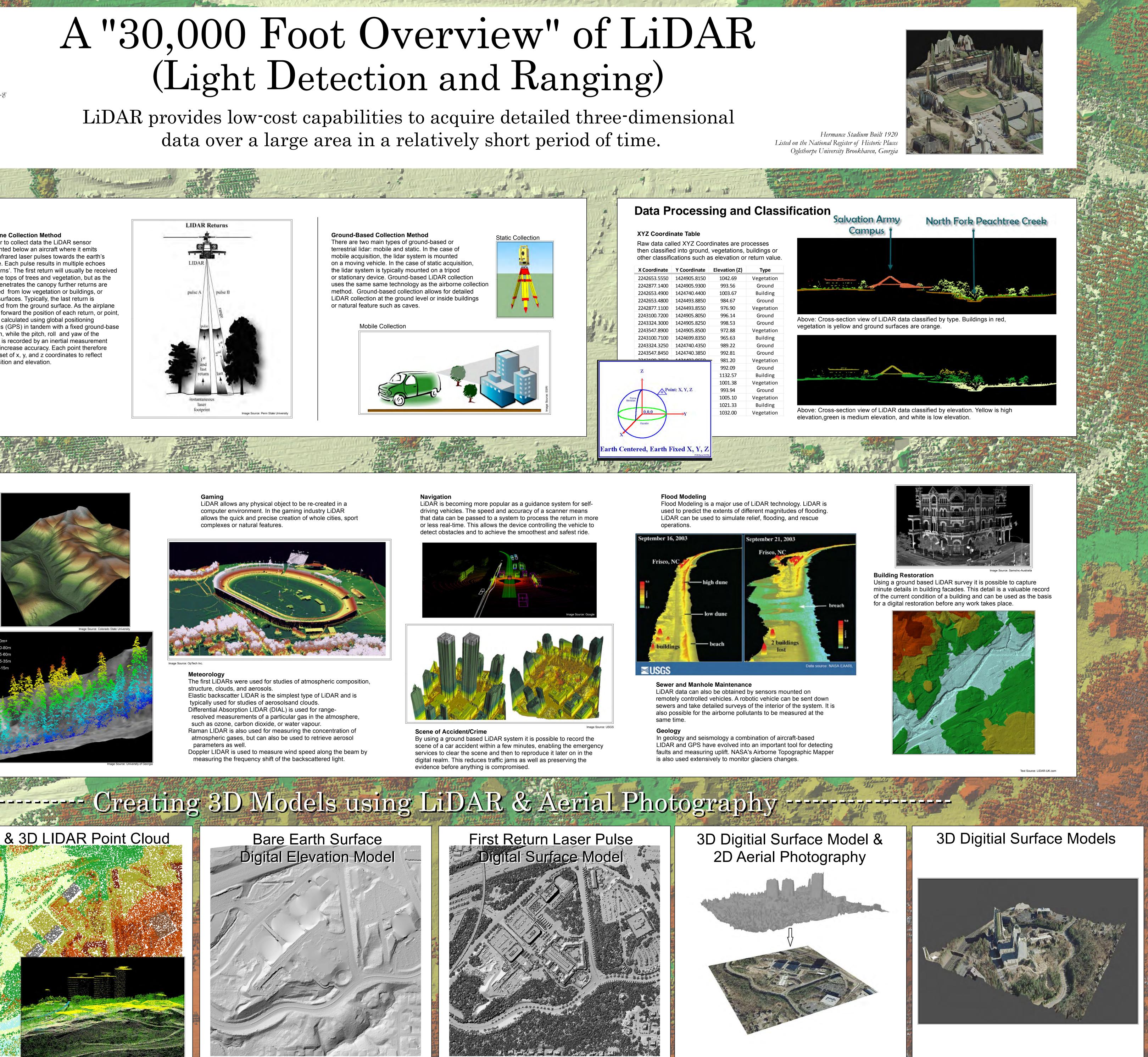
Mapping and Cartography

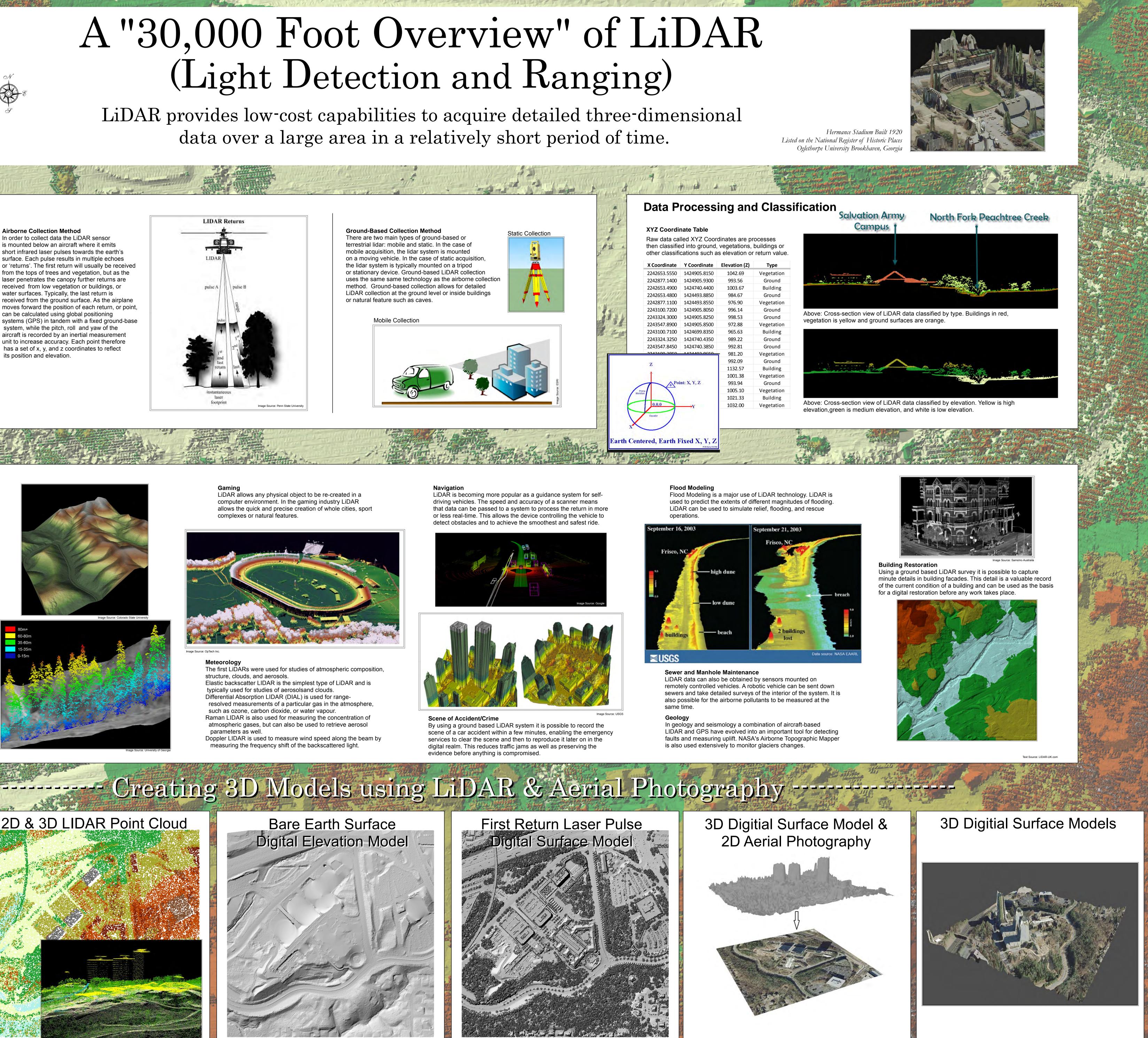
LiDAR can assist in road, building and vegetation mapping. The 3D aspect of LiDAR makes it especially suitable for mapping terrain models, including complex mountain topography.

Cellular Network Planning

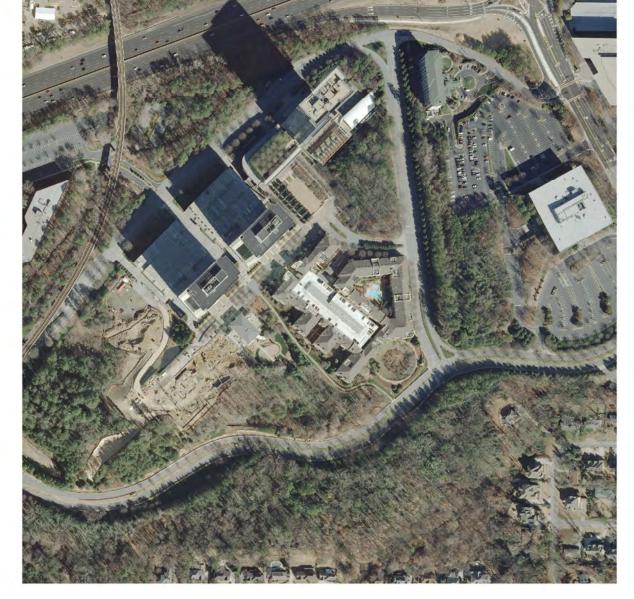
LiDAR provides detailed information that can be incorporated into statistical or GIS software and used to provide accurate analysis for determining line of sight and view shed for proposed cellular antenna.

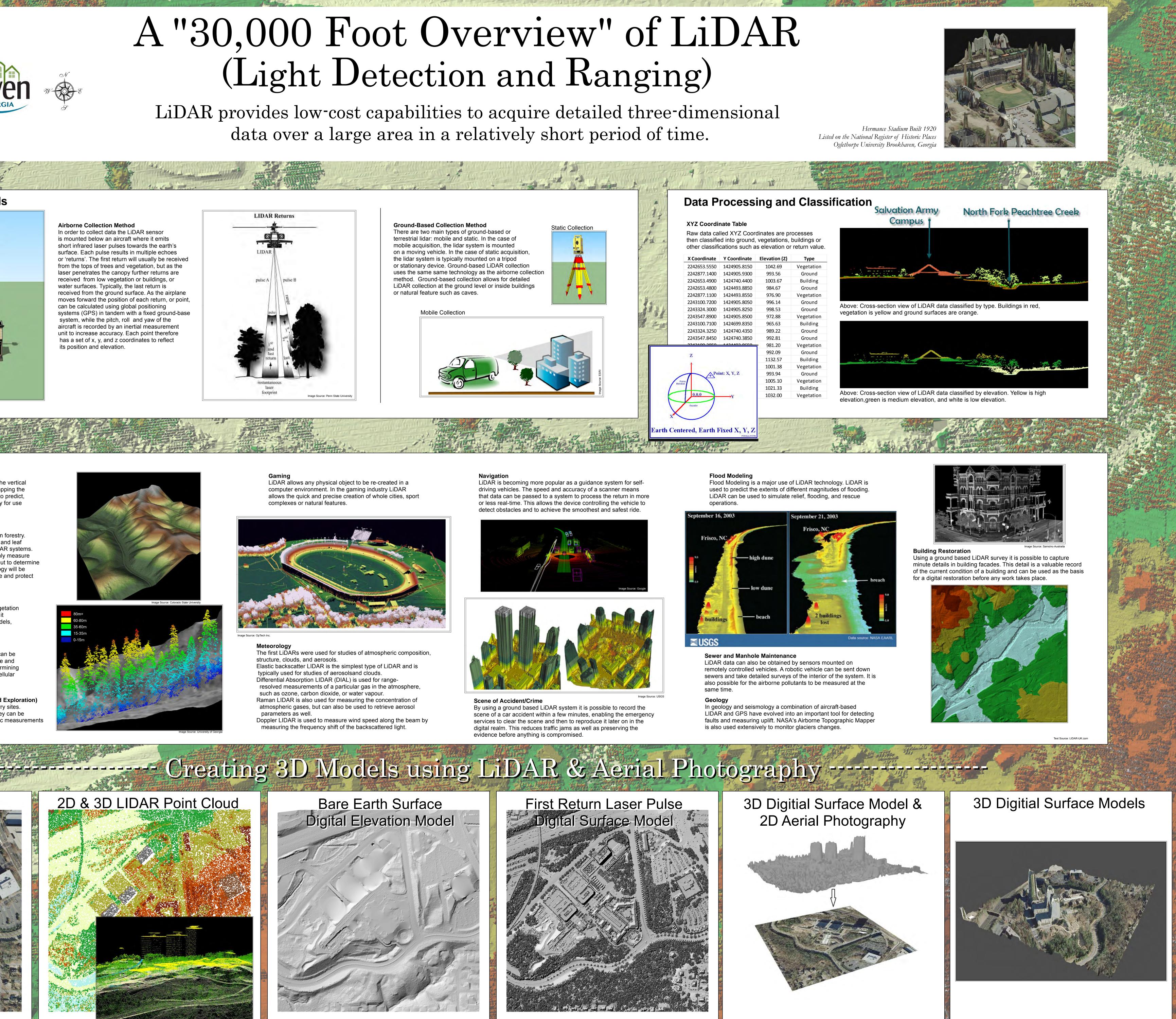
Quarries and Minerals (Volumetrics and Exploration) LiDAR can also be useful for existing quarry sites. Its high accuracy means that a quick survey can be undertaken that will give precise volumetric measurements within a few centimeters.





Aerial Photography





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