## FIND OUT MORE ABOUT Airborne LIDAR

LiDAR (Light Detection and Ranging) is a type of laser scanning which is used to rapidly scan the terrain usually from an aircraft. It is also known as Airborne laser scanning (ALS).

## HOW DOES LIDAR WORK?



The LiDAR scanner transmits laser pulses to the ground surface, which are reflected back to the sensor, recording the time it has taken for the laser to return and the intensity of the laser upon its

## WHAT IS IT USED FOR?

LiDAR data can be used to map entire cities, enabling decision makers to accurately pinpoint structures or areas of interest in high resolution detail.



Model (DEM)



LiDAR maps can also be used to highlight changes and abnormalities such as surface degradation, slope changes and vegetation growth.

LiDAR technology can also be used in mobile mapping, real time monitoring and hydrographic surveying.

For more information visit: ncl.ac.uk/engineering/undergraduate/geospatial

