

# Terrestrial Laser Scanning Used For Vegetation Analysis



A vegetation analysis survey using terrestrial laser scanning for Safe Trees Ltd in Jihlava, Czech Republic, has been completed. The focus of this survey was to evaluate the condition of trees using Lidar data. The collected data is used in the process of stress analysis: a requirement for determining the operational safety of trees during so-called pulling tests.

The stress analysis as accomplished by Blom Czech Republic and Control System International Ltd consists of stressing tested trees with small forces and determining the trunk deformation (interpreted as resistance to breakage and torsion) and tilt of the root plate. The end result is the most detailed evaluation of the operational safety of valuable trees available.

Blom's terrestrial laser scanning technology enables accurate and detailed data about the parameters of the crown and trunk of trees to be evaluated. The data brings a greater reliability and accuracy of the overall assessment than was previously achievable with traditional techniques.