

Australia's Coastal Highway 3D Survey



StreetMapper has completed a survey along the North West Coastal Highway in Western Australia. Travelling at normal traffic speeds, the StreetMapper system captured survey-grade data achieving millimetre-accurate measurements of the road surface and roadside features. StreetMapper mobile surveys replace the need for surveyors using tripod mounted lasers along the highway making it a much faster and safer process, as well as reducing disruption for other road users.

Commissioned by the Main Roads Western Australia (MRWA), the government agency responsible for highways and main roads in the area, the laser scan survey was requested by consulting surveyors Hille Thompson & Delfos. The survey route included a section of the main highway, which forms

part of the coastal link between Perth and Port Hedland, through the metropolitan area of Geraldton and included offsets from the highway along intersecting roads.

Operated by Iain Bramwell from 3D Laser Mapping Australia, the StreetMapper system completed the 8.5km survey of the main highway plus intersecting roads in a matter of hours, without any real disruption to other road users and during normal working hours. The verified and rectified point cloud (the millions of individual measurements collected by laser scanners) was then processed by Hille Thompson & Delfos to produce string data in conformance with MRWA's requirements.