

## **Accreditation and ongoing validation of SCRIM+**

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Highway Condition data is increasingly used for contract monitoring, financial forecasting and in the UK as data to support civil and criminal litigation. Ensuring the data is delivered to a consistent quality is therefore increasingly important. This paper will outline the comprehensive accreditation process undertaken for NZTA in collecting High Speed condition data.

W.D.M. limited have undertaken SCRIM and High Speed data surveys for NZTA since the mid 1990's. A fundamental element of these surveys is accreditation of the survey equipment, validation before the annual survey work commences, and an ongoing process of re-validation and QA checks throughout the survey season. This provides clients confidence in the quality of data delivered.

Accreditation involves assessing the SCRIM performance against a fleet of machines and ensuring the performance lies within acceptability limits. Until 2014 this was undertaken using the Highways England testing regime undertaken by the TRL. In 2015 it was agreed to implement a 'In house' accreditation process using a range of sites that better represented NZ road conditions. This process was further developed in 2016.

On arrival in New Zealand the SCRIM+ vehicles undergo a detailed validation process where rutting/ texture/ roughness/ geometry is assessed against reference data, and SCRIM is assessed for repeatability between machines. Validation is completed through a 30km 'bias and repeatability' test. Ongoing revalidation through the survey season is assessed using a modified Austroads test on 10km sites.

All data collected is then subject to internal W.D.M. quality checks utilising video to review any potential discrepancies before delivery to clients.

These processes are designed to provide confidence in the delivered survey data, so clients can make informed decisions about priorities and investment decisions. This paper will detail the processes adopted, and outline the value in ensuring condition data is delivered using accredited survey equipment.