2. Verifying the Suitability of MMS for Finished Shape Management of Earthworks - Potential Adoption for i-Construction (ICT Earthworks) -

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Ground-based laser scanning (Terrestrial Laser Scanning [TLS]) and aerial photogrammetry performed by Unmanned Aerial Vehicles (UAVs) are commonly used to perform ground surveys and finished form measurements to generate three-dimensional data for the MLIT's "i-Construction earthworks initiative :ICT earthworks". At the same time, based on the "Mobile Mapping System standard of the Work Regulations", mobile mapping systems (MMS) have been used in the public surveys being performed to draft large-scale topographic maps for road management.

We conducted the MMS survey to confirm its positional accuracy, coverage, and impact on vegetation. It was verified that MMS can be used for management of finished forms as a part of the i-Construction initiative.

Key words: i-Construction, TLS, UAV, MMS