

P2.17 | QA4MOBILE

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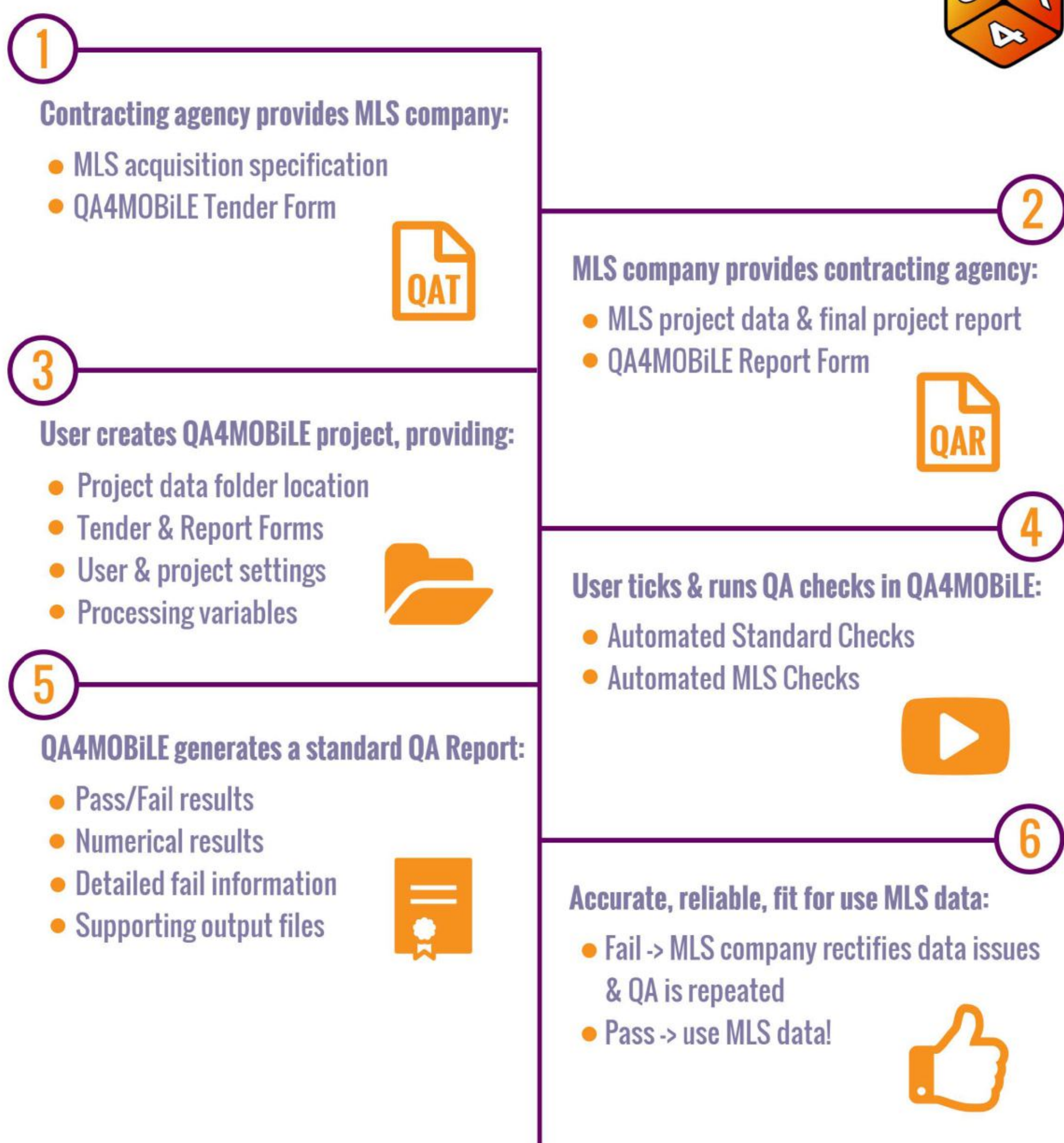
Project Participants ThinkSpatial
Transport and Main Roads (TMR), QLD

Objective Development of quality assurance (QA) software to QA the main components of mobile laser scanning (MLS) data acquisitions, based on the TMR acquisition specifications

Outcomes QA4MOBILE will deliver:

- An online Form Editor for Tender and Report Form creation, summarising the acquisition specifications and final project report respectively
- Desktop MLS QA software that accepts the Forms as input and runs a set of automated checks
- Potentially a point cloud viewer for visual checks
- A standard online QA Report component providing the results of the QA
- Supporting documentation for the tools and techniques developed

ACQUIRING ACCURATE MLS DATA WITH QA4MOBILE



Innovation

A new software product QA4MOBILE with online and desktop components, leveraging the CRCSI QA4LiDAR software along with the large library of feature extraction methods for MLS developed as part of CRCSI project 2.01

Standard Checks

- ✓ Delivery completeness and spatial file corruption
- ✓ File naming and attribution
- ✓ Form comparison
- ✓ Classification statistics
- ✓ Accuracy of control network

MLS Checks

- ✓ Relative alignment
- ✓ Survey control alignment
- ✓ Calibrated image alignment
- ✓ Random noise
- ✓ Point density
- ✓ Run coverage
- ✓ GFM validation
- ✓ Metadata
- ✓ Visual review platform network

Transformation

Drastic reduction of both the manual and computational time required for MLS QA + Increased rigor and completeness of QA checks leading to improved quality and reliability of MLS data acquired in Australia

Point cloud images captured with Geoverse from TMR's 2014 Over size over mass (OSOM) MLS project:

