

# Too Detail to Survey – UAV, Photogrammetry and Remote Sensing for Construction Projects

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## SUMMARY

Traditionally as-built drawing of building project would be mainly referred to the design drawing. General practice would agree that “As-built” is as same as “Design” if within a tolerated difference. Truly as-built might be impossible by traditional surveying technology. Somewhere would set this tolerance as 3% and is payable by relevant party.

By the endeavor of remote sensing technology (including hardware as UAV and laser scanning, software of photogrammetry, etc.), truly as-built would become true. These remote sensing technologies overcome limitation of terrestrial surveying approach, and have high cost effectiveness.

The technology could be used for the whole construction cycle: from site inspection at tender stage, progress tracking at construction stage, to as-built record at completion stage. Usage for other industry would also be exploring. Speaker would share his experience of how to employ such technology for different building projects.