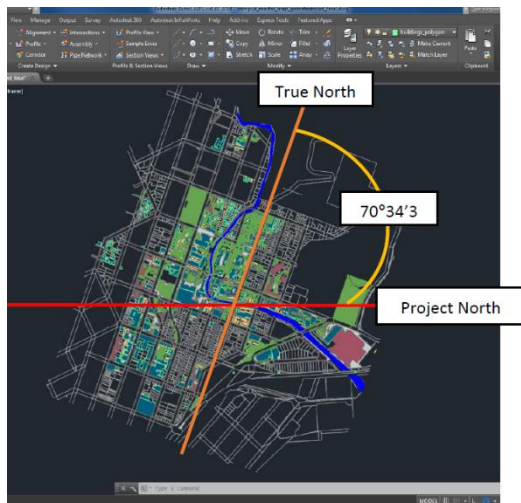


University of Otago campus mapping: Where we've been, where we are and where we are headed

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Abstract:

The University of Otago has recognized the need for a new and improved campus mapping system to be the centre of an interactive campus showcasing its history and culture through various media. Such a system will support university operations and guide students and visitors around the campus by integrating outdoor and (eventually) indoor wayfinding. Building this system requires accurate (positioned and updated) and complete spatial information for all assets across the five university campuses. The School of Surveying and the university's IT and Property Services divisions are collaborating to establish a workflow that transforms existing asset information into a spatial format that can be digested downstream by various applications and services in need of accurate and complete spatial information. This transformation workflow is not a simple exercise in georeferencing. Instead, it requires establishing a system that can handle the diversity of geometry and attribute inconsistencies in existing building models while also catering for future modifications and additions to university assets. This presentation will explore what brought the university to this point in its campus mapping needs, what the data transformation workflow entails (after much trial and error) and where the campus mapping efforts are headed next. It also offers some key learning opportunities for researchers and practitioners who may be interested in transforming large databases of architectural information into a spatial database for mapping and modern asset management.