**The value of CPT testing in Northland’s terrain**

Northland’s terrain is variable and complex with soft soils, strong volcanic rocks, sand and gravel deposits, karst limestone, coal measures and the chaotic Northland Allochthon units. Effective geotechnical engineering in Northland relies on a range of tools and techniques. On the more complex sites high levels of uncertainty can only be addressed by collating layers of information and having enough test locations.

This presentation presents a range of practical case studies that highlight both the value and limitations of CPT testing in a range of settings and geological units in Northland. The presentation has a particular focus on the value of CPT testing in Northland Allochthon Melange zones, where variability can be extreme with unstable slopes at 8° adjacent to stable coastal cliffs.