



Is Procurement a Natural hazard?

A few tips if you are in a hurry

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Lifelines 2019



Tauranga City

Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20		
Phase 3 Hazard Assessments													1179				
Liquefaction													764				
Landslip													105				
Harbour Erosion																	
Coastal erosion																65	
Inner harbour inundation																	
Coastal inundation																25	
Volcanic Ashfall									35								
Earthquake shakin											30						
Sea Level Rise												25					
Flooding									Flooding								
Groundw ater																130	



9 scenarios

SLR up to 1.6m
 Horizon to 2130
 Probabilities



East

West

Calibration

Ground investigation

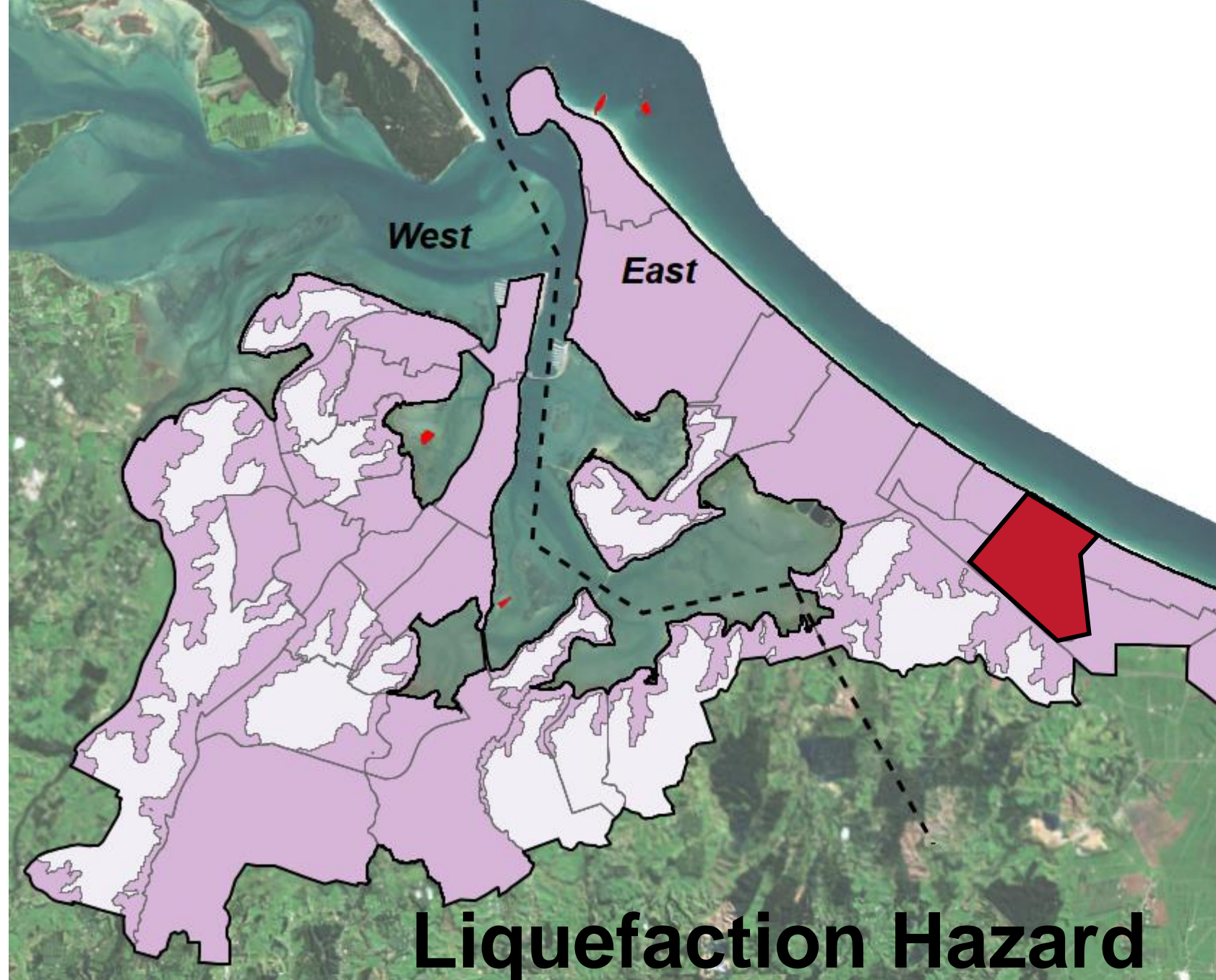
Geomorphic mapping

Scope well

Consider project structure

Widen benefit and context

Collaboration multiplies



Liquefaction Hazard

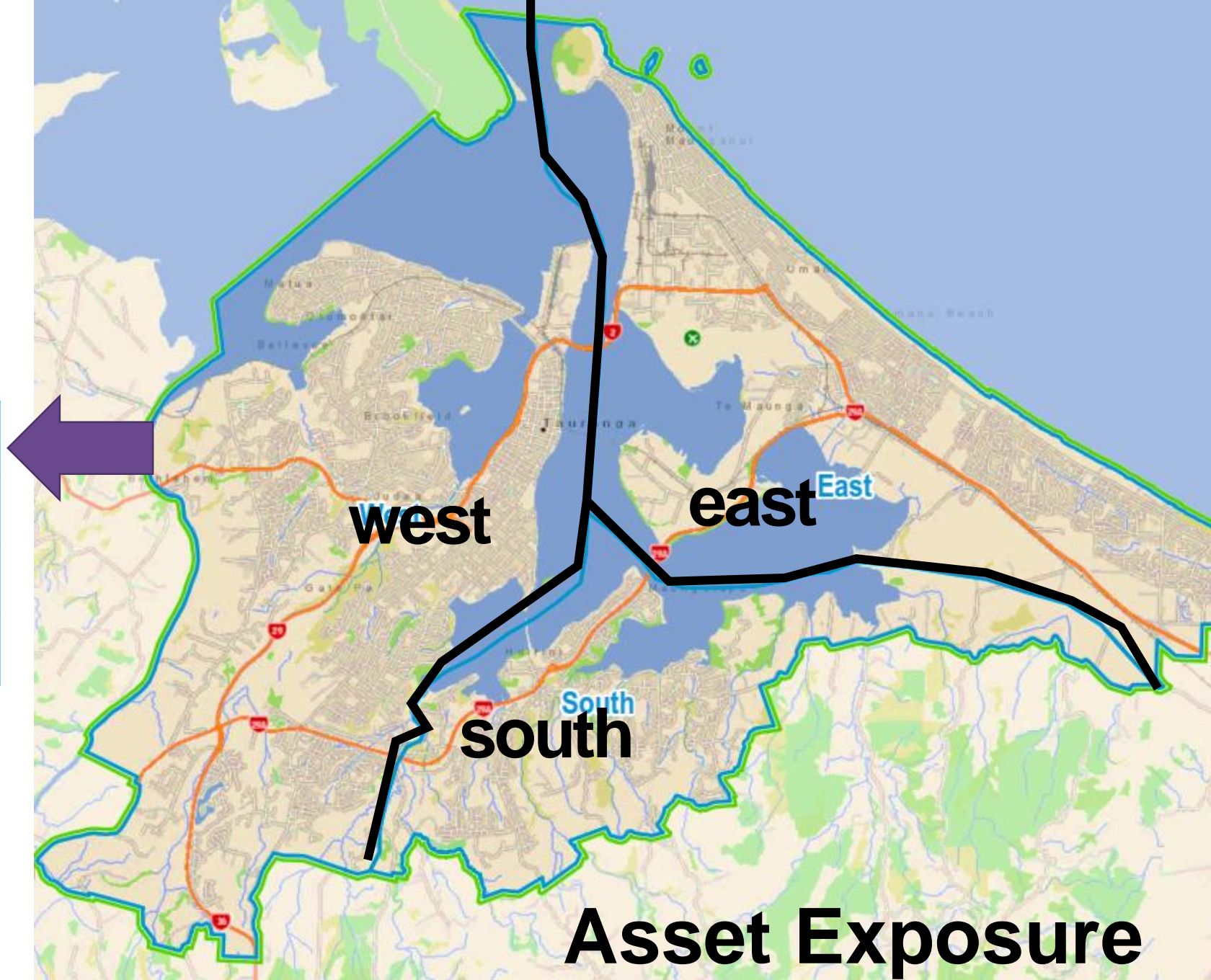
Speed Focus

GIS

Waste Water	West	South	East
Storm Water			
Supply			
Roads			



Collaboration multiplies



Thank You

Tauranga Resilience Project

