

## Past Workshop: Large-scale structural testing

April 2021













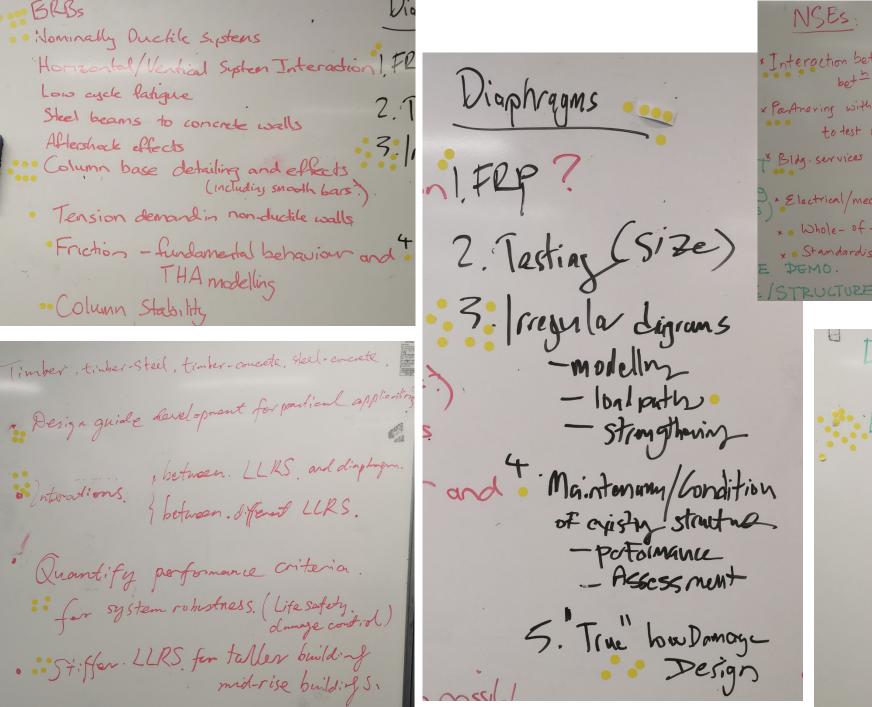




## Agenda

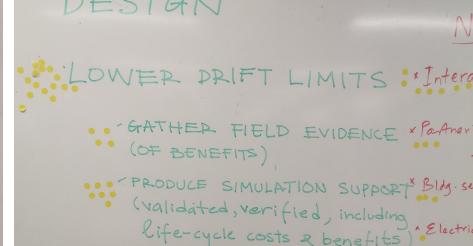


Time	Section	Presentations	Who
9.00 - 9.30	Morning tea provided on arrival		
9.30 - 9.35	Intro		Rick Henry
9.35 – 10.15	Past tests and experiences	ILEE concrete building test	Rick Henry
		ILEE Robust building test	Greg MacRae
		Swinburne MAST wall tests &	Lucas Hogan
		Japan collaborative tests	
		NCREE torsional building test	Ken Elwood
10.20 – 10.35	Future research and practice needs	Concrete buildings	Santiago Pujol
		Steel buildings	Charles Clifton
		Timber buildings	Minghao Li
10.35 – 10.50		Practice #1	Stu Oliver
		Masonry buildings	Jason Ingham
		NSE	Rajesh Dhakal
10.50 – 11.05		Practice #2	Jama Borzouie
		Simulation & model validation	Reagan
			Chandramohan
		Practice #3	Stephen Hogg
11.10 – 11.40	Discussion	Breakout into small groups (<10) to	
		discuss and develop ideas further.	
11.40 – 12.00		Reporting back from groups.	
12.00	Next steps		



Interaction bet components 1. Centre of Stiffness, bet - components & structure x Partnering with suppliers/designers 2. OK in low hazard Zones to test new products/solutions Bldg. services penetration through
fire rated walls Electrical/mechanical equipment operability after EQ. \* . Whole- of - building performance x . Standardising testing of NSEs (adopting Overseas Standard where fearily) (STRUCTURE \* Acoustics/Smokes/themal/air-water tightness DESIGN

5 Small Town NZ



(validated, verified, including lectrical life-cycle costs & benefits) Electrical library

PRESENT CASE TO ENGNZ \* Whol

IF NEEDED RUN LARGE -SCALE DEMO TESTS FOCUSIN ON NSE/STRUC

## Workshop April 2021



- Key topics from workshop on large-scale testing needs
  - 1. Buckling restrained braces (BRB)
  - 2. Column base detailing and effects
  - 3. Interactions between different LLRS + LLRS-floors
  - 4. Diaphragms
  - 5. Irregular diaphragms
  - 6. Interaction between different NSE and NSE and structure
  - 7. Lower drift limits
  - 8. Develop/validate models
- Some topics covered by DT2 projects some gaps remain