



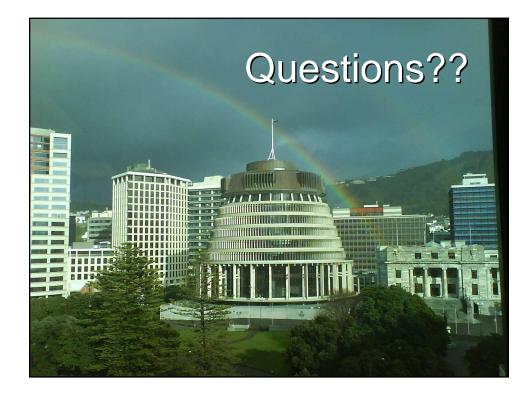
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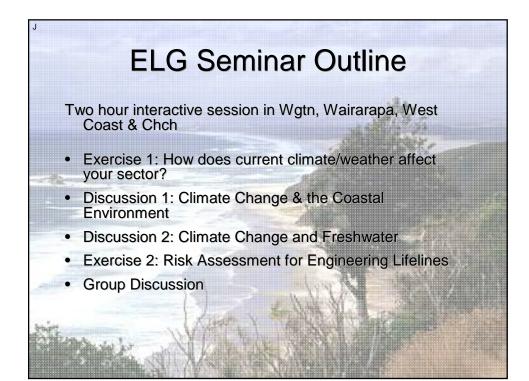
What work already exists?

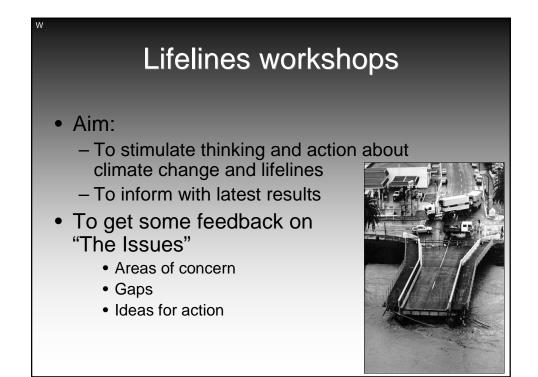
- Guidance brochures
- Quality Planning Guidance Note
- Technical reports
- Workshops
- Engagement with stakeholders
- Govt CC work programmes

www.mfe.govt.nz/issues/climate/resources/adaptation/index.html









v Credit	to Terry∣	Boyle of Ti		atrix 1	ginal Clima	te Change	e Matrix!		
		Climate Variables							
Lifelines S	Lifelines Sector		Wind	Storm Surge + waves	Erosion + Slipping	Rainfall Intensity	Floods		
	Road								
Transport	Rail								
Transport	Aviation								
	Marine								
	Gas								
Power	Fuel								
	Electricity								
Telecoms	Phone								
Telecoms	Radio								
	Urban								
Civil	Storm water								
CIVII	Sewage								
	Water Supply								

Matrix 2 – with climate change										
			Climate Variable and Change Indicators							
		Sea Level Rise	Wind	Storm Surge + Waves	Erosion + Slipping	Rainfall Intensity	Floods			
Lifelines Sector		↑ 0.19 - 0.58m by 2100	60% ↑ westerly component	↑storm surge ↑waves ↑coastal erosion	↑ potential Linked to rainfall intensity	8-24% ↑ intensity 40% ↑ annual event 1-4x ↑ heavy events	↑ frequenc ↑ flood peak ↑ max. discharge			
Transport	Road									
	Rail									
	Aviation									
	Marine									
	Gas									
Power	Fuel									
	Electricity									
Telecoms	Phone									
Telecoms	Radio									
Civil	Urban									
	Storm water									
	Sewage									
	Water Supply									

