



Built Environment Leaders Forum 2015

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Purpose of the Forum

- reflect on the built environment lessons from Canterbury
- engage public and private sector leaders in discussions on risk reduction
- develop an Action Plan
- achieve a more resilient built environment







International speakers

- Dr Lucile Jones Science Advisor for Risk Reduction, Natural Hazards Mission, US Geological Survey, Los Angeles
- Michael Nolan AECOM Global Technical Lead Climate Adaptation, Melbourne
- Dr Laurie Johnson Laurie Johnson Consulting Principal, Risk Management, Urban Planning & Disaster Recovery, San Francisco
- Prof Tom O'Rourke Thomas R Briggs Professor of Engineering, Cornell University, Ithaca, New York











Output – key themes







Actions identified to achieve greater resilience:

- create strong national leadership with a supporting framework
- develop a national plan of action
- find new ways to balance costs of improving resilience
- integrate natural hazard risk into the RMA/Building Act
- create a community engagement programme to build understanding of risks
- develop an accessible dataset (or maps) of natural hazards
- build risk decision-making into businesses and local government
- · undertake a national assessment of critical infrastructure
- encourage community resilience small actions
- $\bullet \quad \text{encourage greater involvement of the } \textbf{private sector} \ (\text{eg lifeline utilities}) \ \text{in resilience planning}$



The Chalast Conferences







Treadestration remove





Acknowledge the key role lifelines groups play in supporting resilience efforts and provide additional resourcing

- fund lifelines groups to enhance their role as resilience facilitators
- acknowledge the role that lifelines groups play in supporting resilience efforts of lifeline utility providers









Establish strong leadership to promote and implement resilience

- · identify resilience 'champions'
- · use 'champions' to:
 - o promote resilience leadership across public and private sectors
 - o get businesses better connected to lifeline utilities so they understand major event vulnerability



The Distance Comment





Look at ways to get the private sector to invest in resilient infrastructure

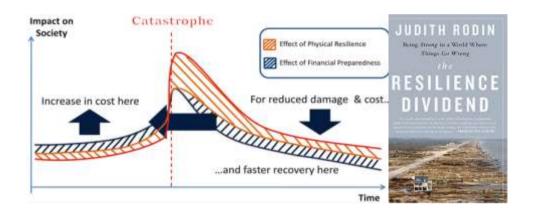
- · new funding approaches
- · collaboration between public and private sector
- · effective tools and incentives







Quantify the benefits of resilience to justify resilience investment







Better understand interdependencies between infrastructure systems



6





Prioritise resilience efforts on infrastructure components that are 'too big to fail'







Connect fire and water services to ensure
water supply for fire-fighting after
earthquakes

The Call-Chronick-Examiner
EARTHQUAKE AND FIRE:
SAN FRANCISCO IN RUINS



BUILDING PERFORMANCE



Communicate the science of natural hazard risks through scenarios and engage the community







Continue to encourage community-based resilience so there is less reliance on lifeline utility service provision

