



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





Process



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
- encourage greater involvement of the **private sector** (eg lifeline utilities) in resilience planning

Key infrastructure actions



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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:
 - promote resilience leadership across public and private sectors
 - get businesses better connected to lifeline utilities so they understand major event vulnerability



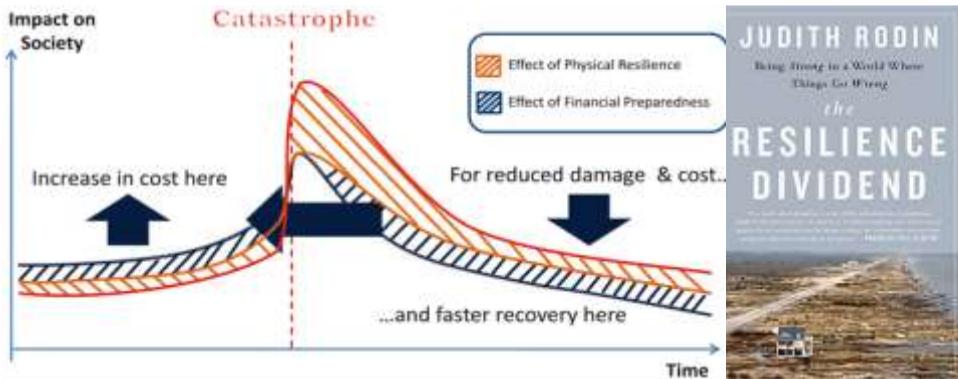
Look at ways to get the private sector to invest in resilient infrastructure

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

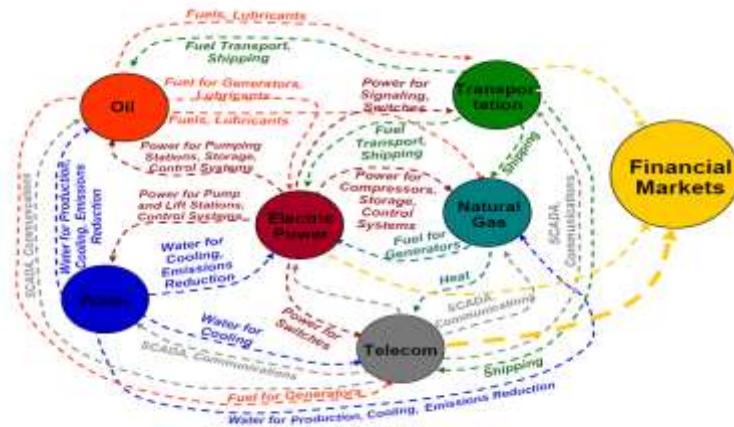




Quantify the benefits of resilience to justify resilience investment



Better understand interdependencies between infrastructure systems



O'Rourke from Peerenboom, Fisher, and Whitfield, 2001

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



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





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

