CAENZ

NEW ZEALAND CENTRE FOR ADVANCED ENGINEERING

- Charitable Trust – 1987
- Independent, multi-disciplinary, non-partisan, collaboration, integration, dissemination
- Economic, social & environmental benefit
- Nexus between research, academia & industry
- Powerful networks
- Lifelines project

CHCH Quake Recovery Agency

- CAENZ, NZCID & RICS
- Advocated an independent reconstruction authority
- Evidence based/experience of others
- Learnings from Sept quake
- Scale
- Strong powers & leadership

Major Disasters

- Local challenges, National significance
- Best outcomes when planning for response precedes the event
- Best policy responses written with the benefit of hindsight
- Best outcomes require excellent collaboration & engagement
- Biggest built IF challenges mostly not technically complex. Organisational, logistical & the people parts

Private Sector

Local Government

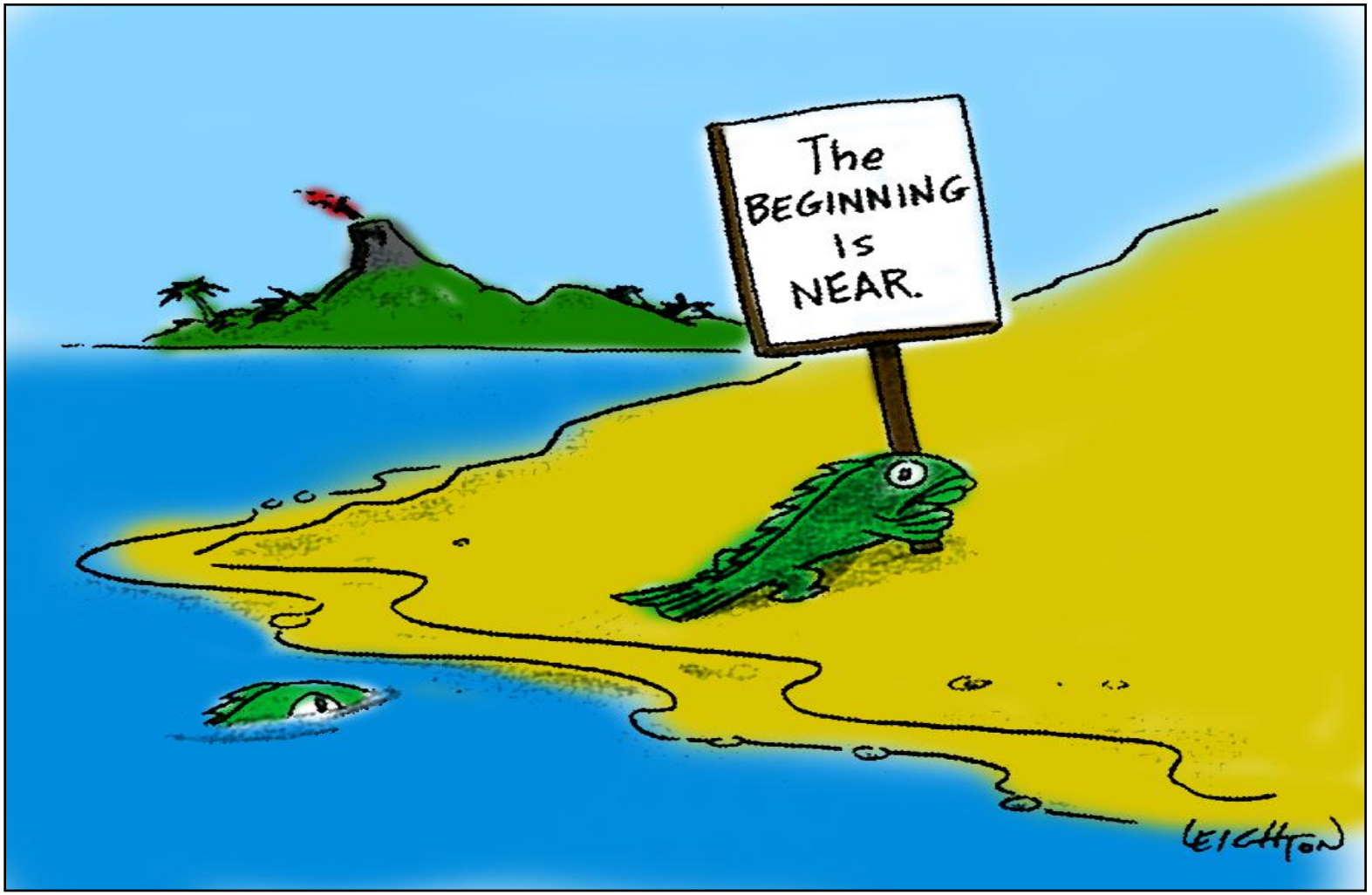
Central Government

Response → Repair → Recovery

Need for Action

Need for Planning

Recovery



Surprised by Liquefaction?

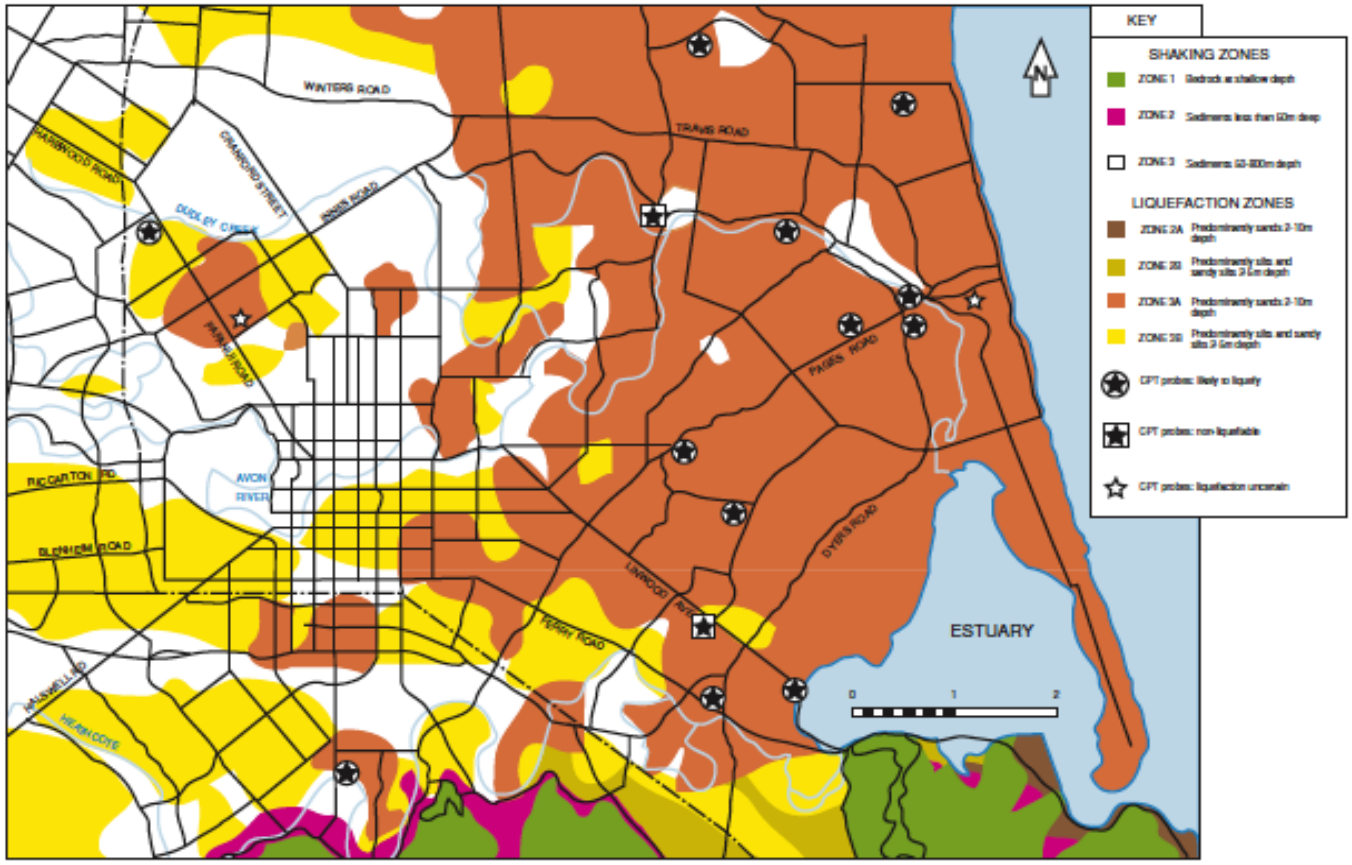


Figure 3.13: Plan of Christchurch, showing the 16 key sites studied for liquefaction potential, as part of the Engineering Lifelines Project. Note that 12 of the 16 sites might liquefy under the scenario earthquake

Productivity Matters

- Boom bust risks
- Long term planning
- Linking of governance, consenting & funding
- Certainty → confidence →risk premium →investment
- The people factor - soft vs technical skills

Recovery Authority

- Leadership as well as management skills
- Highly collaborative – Central Govt, Local Govt, Private Sector and Communities
- Visionary – it has to be better
- Innovation
- Alignment of incentives to perform

Thank you