

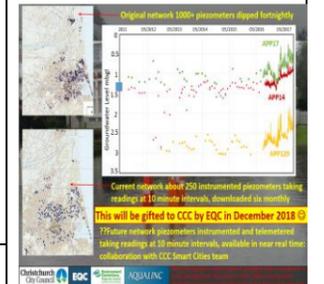
**PRIORITY ACTIONS FROM THE STRATEGIC PRIORITY ACTION PLAN**

The action plan leverages off the Sendai Framework for Disaster Risk Reduction, using its four priorities to group actions. While the Sendai Framework focusses on disaster risks, our strategic priority encompasses work on shocks and stresses as well. The Sendai Framework emphasises work to:

- Understand disaster risk
- Strengthen disaster risk governance to manage disaster risk
- Invest in disaster risk reduction for resilience
- Enhance disaster preparedness for effective response and to “build back better” in recovery, rehabilitation and reconstruction

**KEY ACHIEVEMENTS TO DATE**

- ✓ **Canterbury Lifelines – Regional vulnerability assessment.** A first draft assessment has been developed by the Lifelines team (external team including Council staff)
- ✓ Staff are contributing to regional cooperation through the **Regional Risk Reduction Group**, with a current focus on ensuring the relevance, usability and use of research work
- ✓ Collaborative work involving **CDEM**, the **Land Drainage Recovery Programme (LDRP)** and planning staff will lead to the re- release of **500-year tsunami reports** which include sea-level rise scenarios (these reports will be presented to the ITE Committee in June)
- ✓ Staff worked with the Lloyds Register Foundation and Cambridge University to enable one of a series of three international **resilience round table** events in Christchurch in February 2019, focussing on internationally-relevant learnings from the 2010/2011 Earthquake recovery.
- ✓ Staff are also working with Risk Modelling Solutions, a UK-based company, to develop **loss modelling** for vertical infrastructure including the Waste Water Treatment Plant



**ANY DECISIONS, OPPORTUNITIES OR RISKS TO FLAG**

**DECISION:** The climate change strategy will include a specific climate change adaptation goal which will require approval

**OPPORTUNITY:** As part of the broader resilience and climate change focus, there is an opportunity to effectively embed resilience thinking and climate change adaptation into the 2021-2031 long term plan, focused initially on asset management

Taking responsibility for the ECC shallow groundwater monitoring network will enable CCC to understand groundwater and how it changes with season, rainfall and tides. It will inform civil defence response and planning maintenance of roads and in-ground assets.

**RISK: Living with Water programme:** Regenerate Christchurch has an operational pause on the Southshore and South New Brighton Regeneration Strategy to review the project, which will result in delays in achieving adaptive planning actions in 2018/19 and 19/20.

**KEY MILESTONES IN 2019**

- **Enhancing disaster preparedness:** IT staff working on spatial systems are collaborating with CDEM staff to develop geographic information system (GIS) tools to support emergency response in damage assessment, road closure & cordon management and welfare & needs assessment (due for completion in May).
- Work is continuing with ECan on new multi-scenario **tsunami modelling**, to inform new evacuation zones
- Taking responsibility for the EQC **shallow groundwater** monitoring network in collaboration with ECan.
- Land Drainage Recovery Programme – initiating stage 3 of the **Multi Hazard study** with hydraulic modelling of the impacts of climate change and other hazards on flood risk.
- **Lifelines** – the National Lifelines forum will be held in Christchurch in October, and the next part of the Canterbury lifelines vulnerability work is in the initiation phase
- **Climate change adaptation** – a first pass risk assessment will be delivered to help inform the development of an adaptation plan for the Christchurch district
- The Resilient Greater Christchurch programme for 2019 includes a focus on **embedding resilience in the LTP**, with work already underway in asset management. This includes development of training materials and tools to provide support to cross council teams.



**THE 2 KEY INDICATORS WE ARE TRACKING** [ccc.govt.nz/the-council/how-the-council-works/20182028-vision/strategic-priorities/natural-hazard-risks/](http://ccc.govt.nz/the-council/how-the-council-works/20182028-vision/strategic-priorities/natural-hazard-risks/)

**Risk assessment of Council infrastructure**

Approximately \$1.25 billion of infrastructure vulnerable to 1.5m sea-level rise in Canterbury

Source: *Vulnerable: The quantum of local government infrastructure exposed to sea level rise*, LGNZ, Jan 2019

**Residents’ level of preparedness for emergencies:**

87% of Christchurch residents have enough food for 3 days; 74% have secured heavy household items that could fall, and 70% have 3 days of water at home in case of an emergency. Just over half of all residents have an up-to-date emergency plan

Source: Environment Canterbury, Civil Defence Survey 2004-09; CCC, General Service Satisfaction Survey 2018