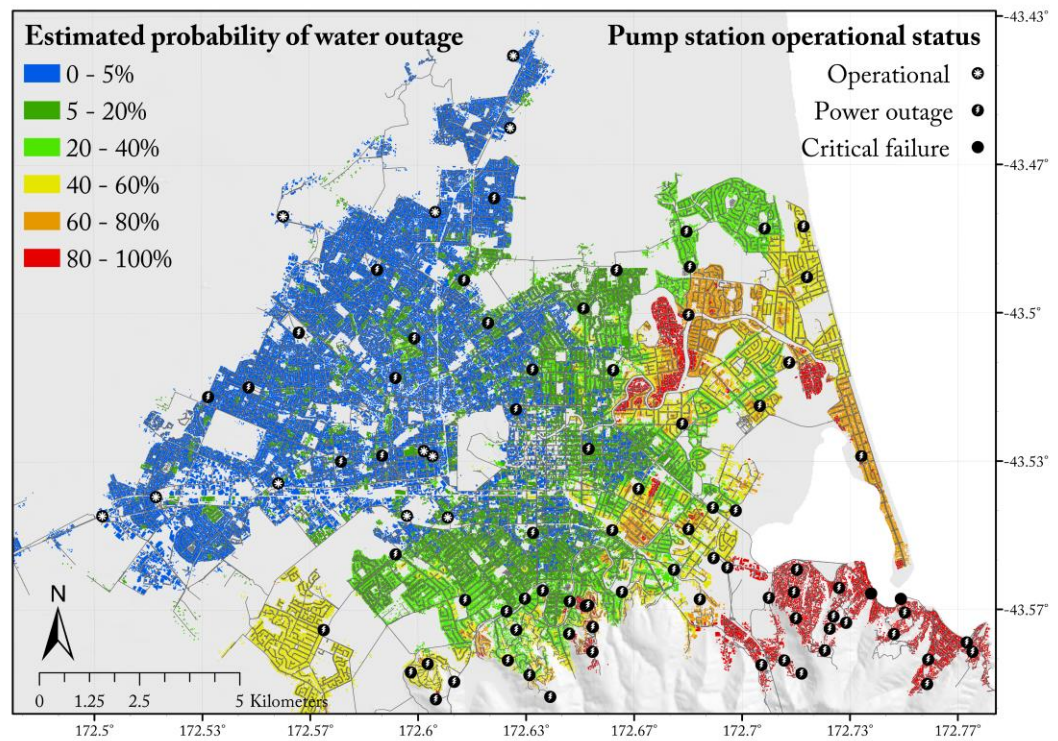
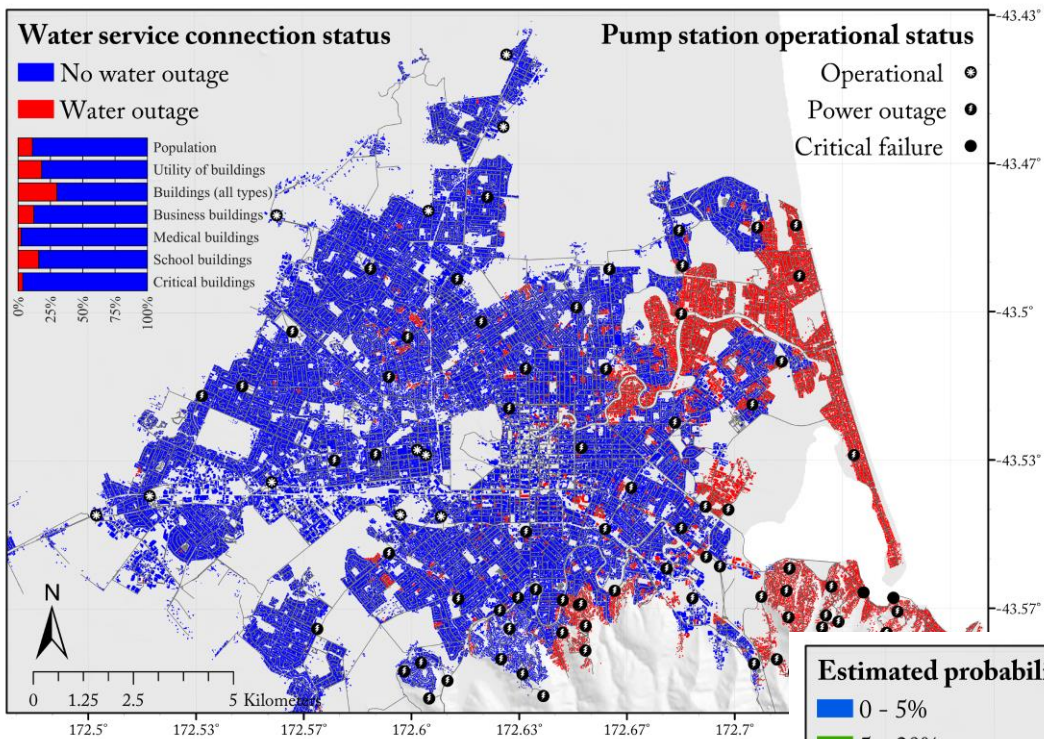


# 3 Waters

- Potable water (with CCC)
  - Development of seismic fragility models from Canterbury earthquake sequence dataset **Complete**
  - Development of system recovery tool for Christchurch network **Complete**
- Wastewater (with CCC)
  - Dataset collation from Canterbury earthquake sequence and fragility model development **Early 2019**
- Stormwater Resilience (with AC) **Complete**
  - Technical resilience framework for pipe networks
  - Resilience indicators for network structure **Complete**



# Flood + Flood Defence

- Flood Defence (River Managers and Tasman DC)
  - NZ Inventory of Stopbanks (NZIS) v1 **Complete**
  - NZIS Geotechnical data and incident database **End 2019**
  - Influence of undocumented stopbanks on flood routing and catchment performance **Early 2019**
  - Stopbank failure mode modelling **2020**
- Infrastructure flood vulnerability models **1<sup>st</sup> stage COMPLETE**

