

Innovation from Disaster

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SUMMARY

Following the major earthquakes of September 2010 (7.1M) and February, June and December 2011 (6.0M to 6.3M), we carried out hydrographic and terrestrial surveys at the local Port 'Lyttelton – Port of Christchurch' to assist Geologists and Engineers to determine displacement of structures and elevation changes to the seabed and Tide Gauges.

These surveys confirmed their modelling of seismic vulnerability. We will also show our use of a small RiB with a full RTK hydrographic system for seawall and culvert repair surveys.

The presentation will also show a multitude of surveys across rivers and streams affected by the earthquakes where bridges and submarine pipelines needed repair and reinstatement.

My presentation will also include infrastructure damage to roading, Port facilities due to earthquakes and liquefaction.