2013 National Lifelines Forum

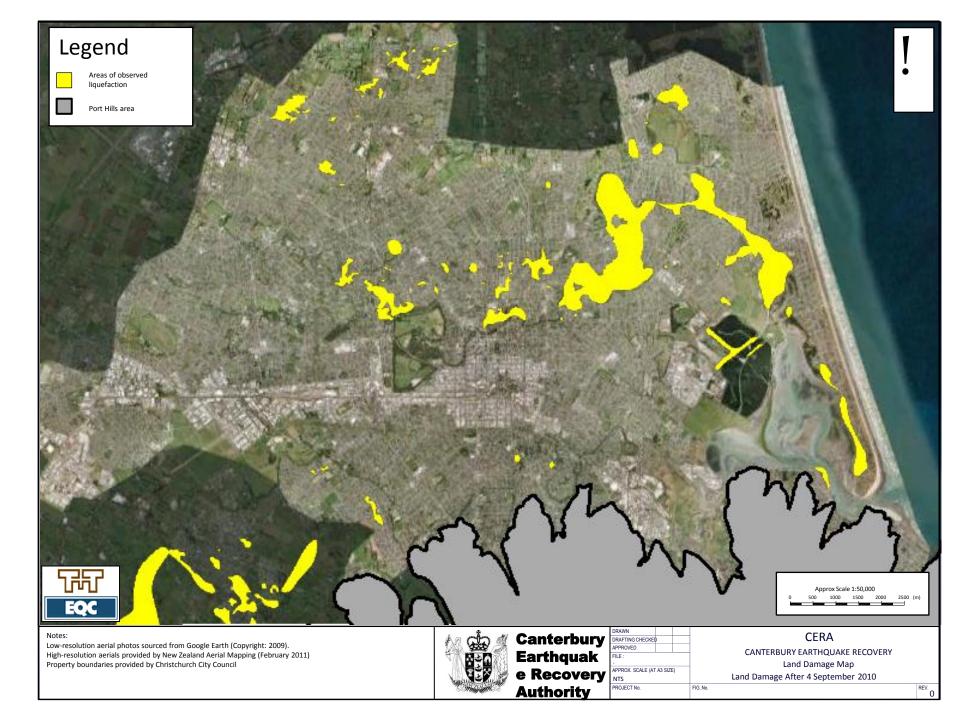
SCIRT *'Update on* Christchurch Horizontal Infrastructure Rebuild'

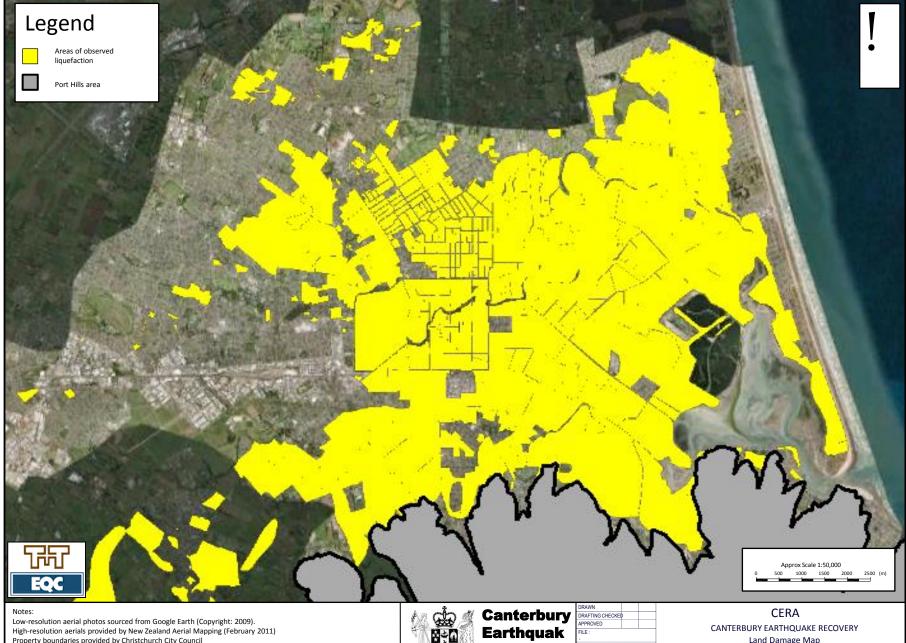
6 November 2013



New Zealand Government







Low-resolution aerial photos sourced from Google Earth (Copyright: 2009). High-resolution aerials provided by New Zealand Aerial Mapping (February 2011) Property boundaries provided by Christchurch City Council



FILE : e Recovery APPROX. SCALE (AT A3 SIZE) NTS PROJECT No. **Authority**

FIG. No.

CANTERBURY EARTHQUAKE RECOVERY Land Damage Map Aggregated Land Damage After 22 February 2011

REV.

CHALLENGES – Getting Started

- Huge scale biggest in NZ history
- Damage and scope unknown
- Urgent establishment
- Fast ramp up of throughput
- Delivering Value











AGREEMENT – Client Objectives

12 Subjects – 40+ Clauses

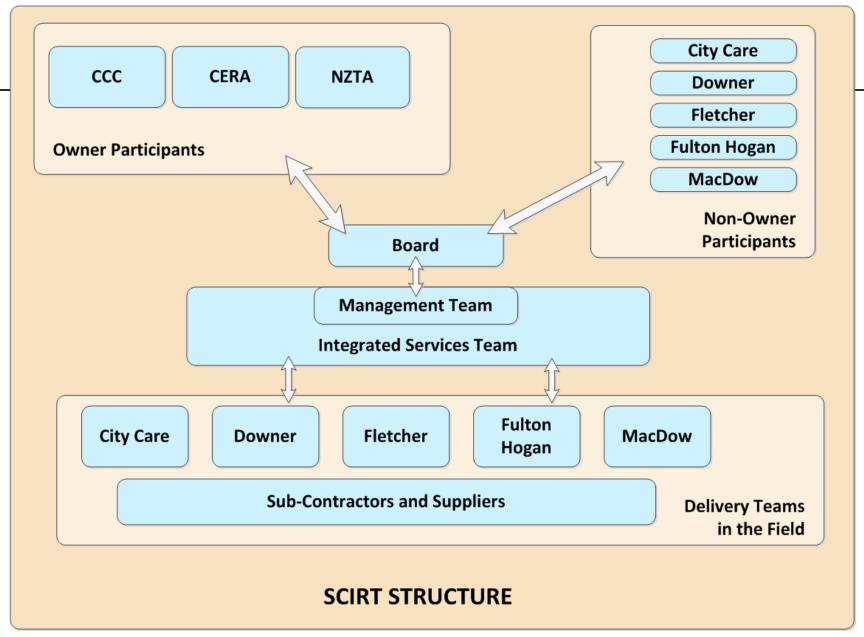
- Lift industry Safety and Performance
- Demonstrate Value
- Community Engagement
- Asset Condition Aspects
- Market Stability



















- Relationship contract
- Mix of public and private organisations
- Programme of projects
- Performance incentivised
- Competitive delivery
- Collaborative environment









WHAT WE'RE HERE FOR :

Creating resilient infrastructure that gives people security and confidence in the future of Christchurch



New Zealand Government



CHALLENGES – Team Building

- Differing Backgrounds
- Differing Experience
- Physical Environment
- Earthquake & Rebuild Environment
- Performance Pressure











Programme of Projects

Asset Project Project Concept Detailed Cost Estimation Constn Handover

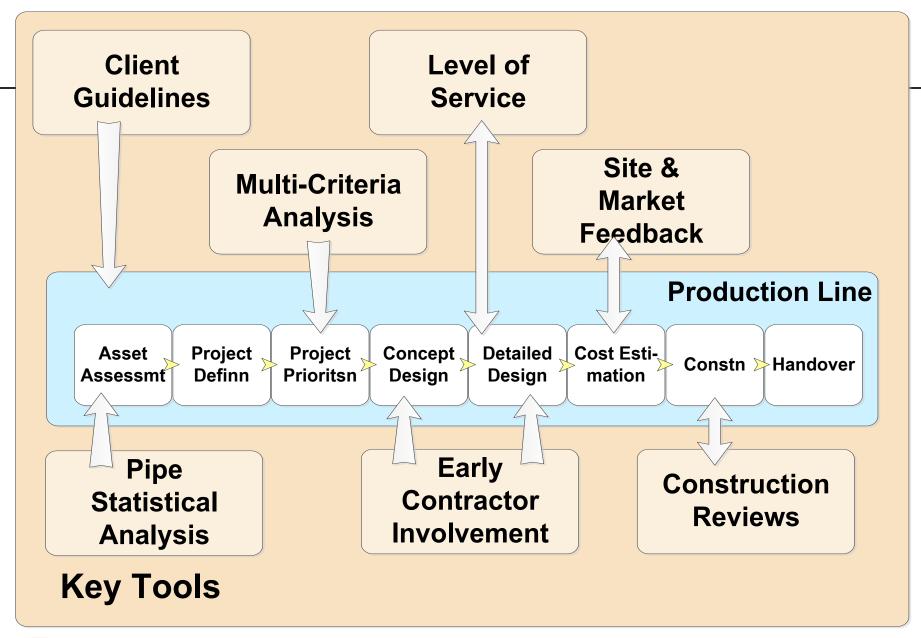












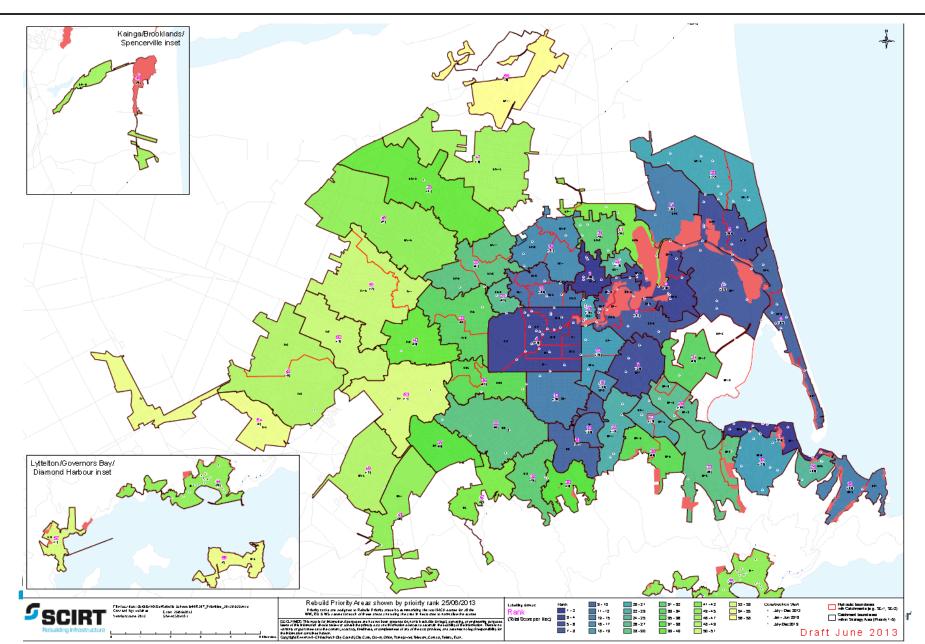




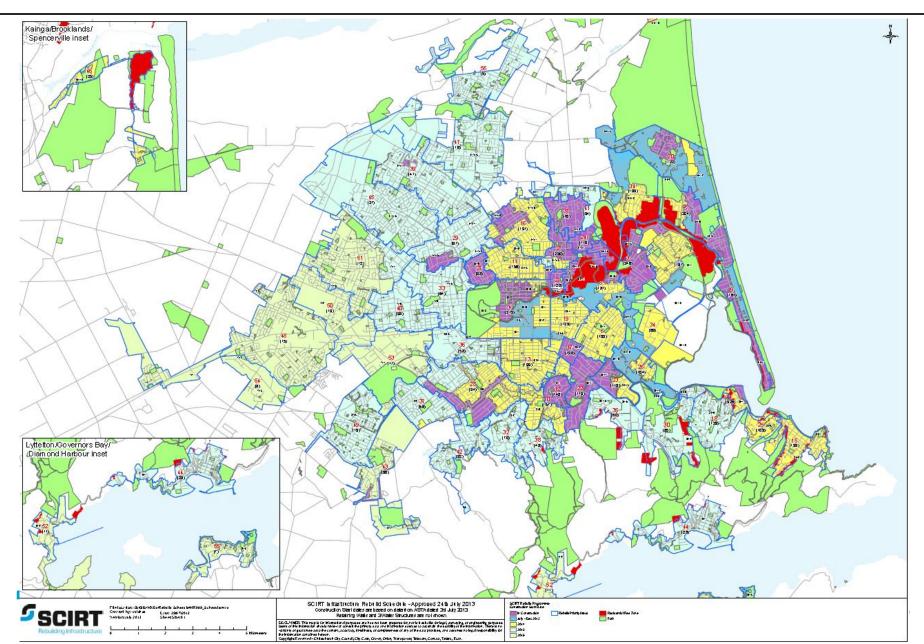




Prioritisation Map



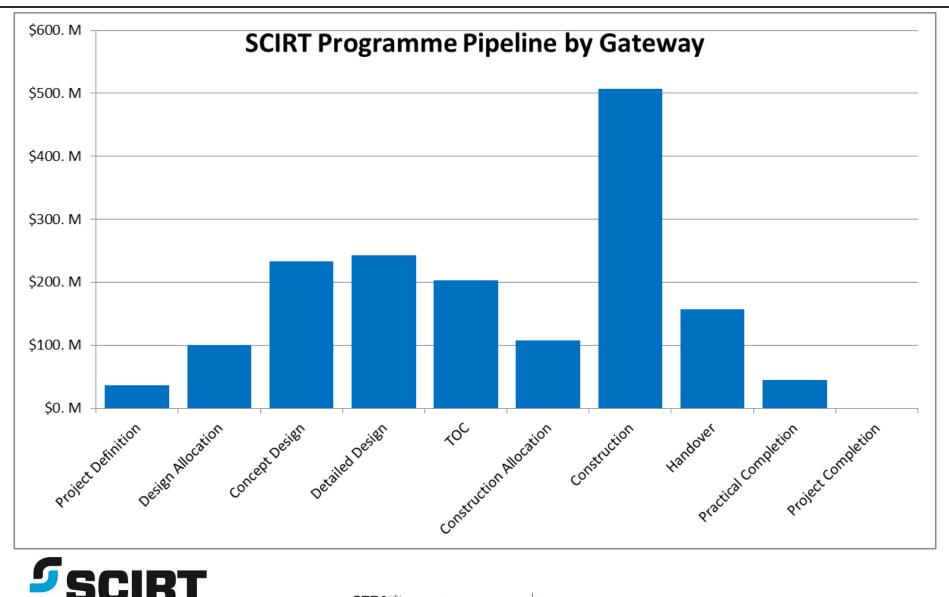
Schedule Map



Programme Snapshot

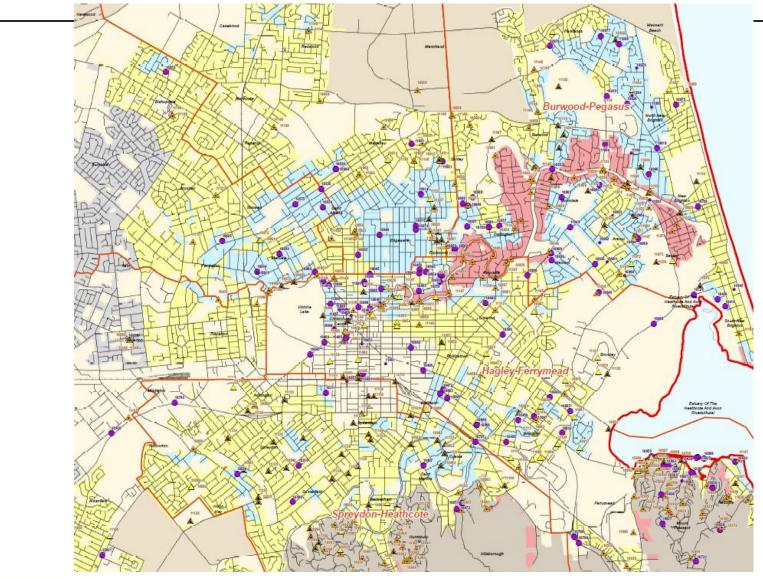
Christchurch City Council

Rebuilding Infrastructure





Current Sites





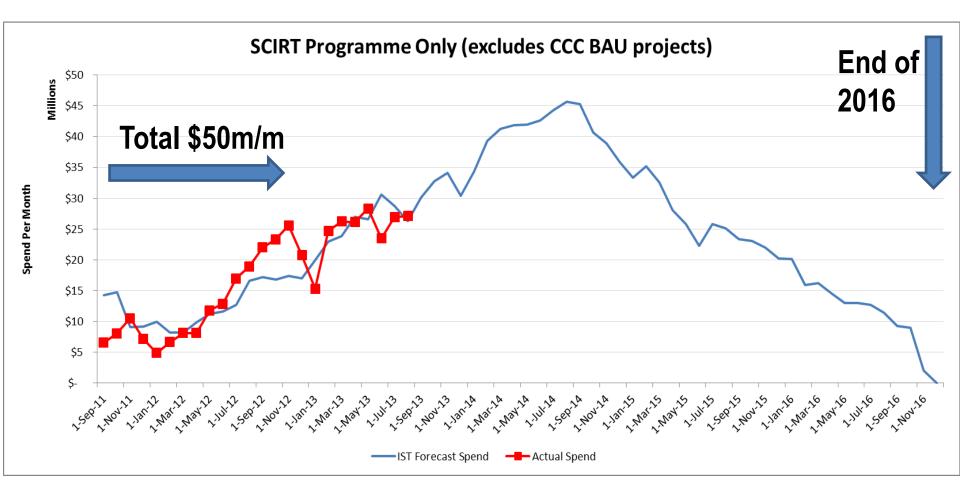








Programme Construction Spend







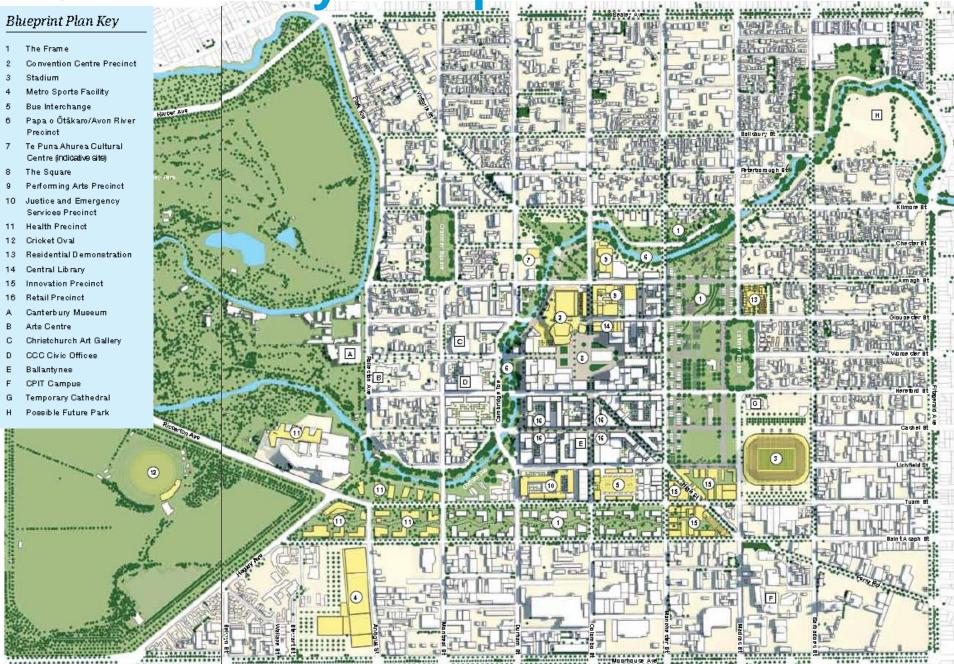




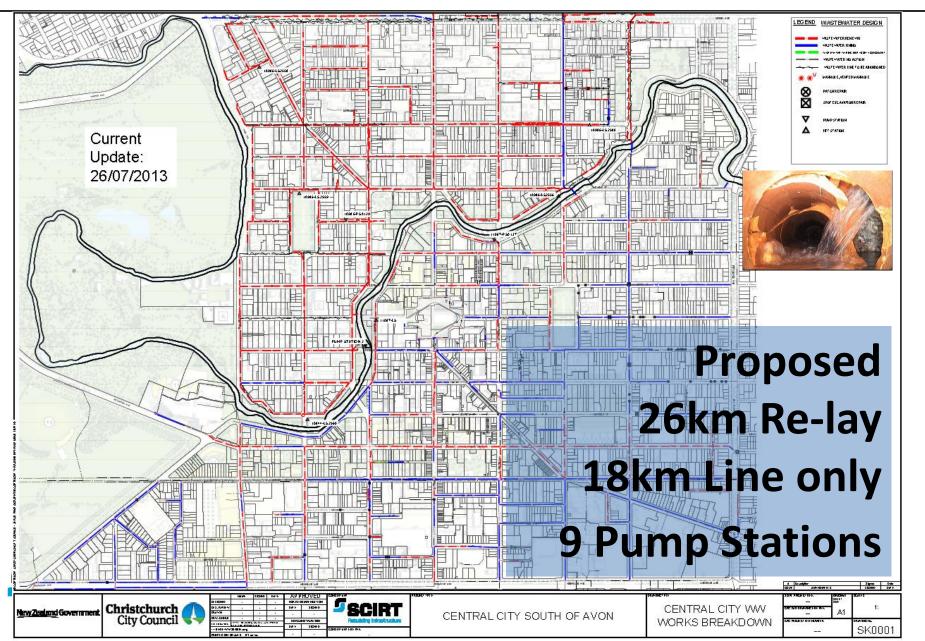




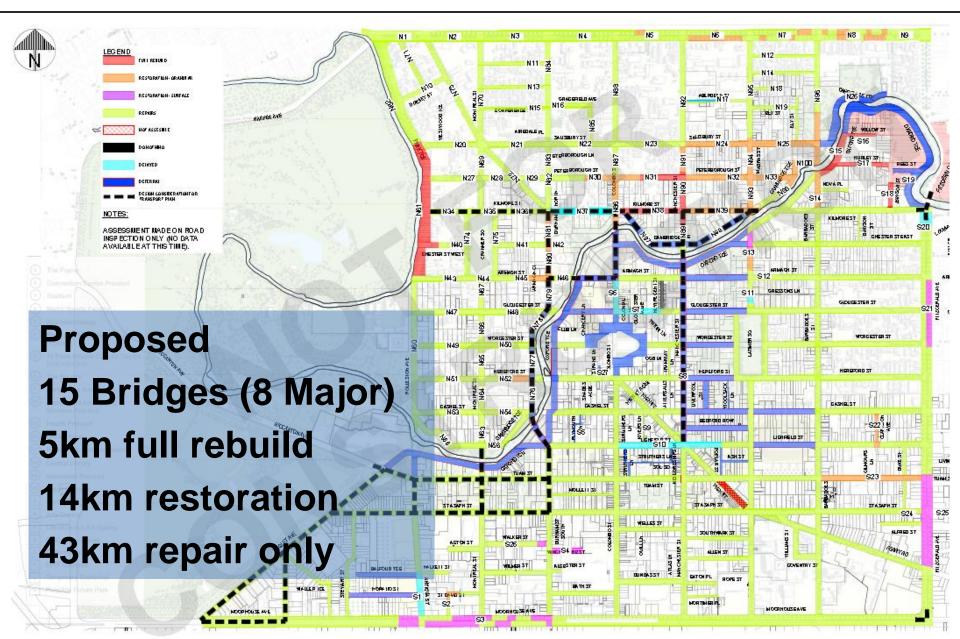
Central City Blueprint



Central City – Proposals (WW)



Roading Proposals



CHALLENGES – When Under Way

- Separate Clients
- Unusual Relationships
- Production Line
- Design Teams
- Delivery Teams
- Information Flow









CHALLENGES – Getting Better

- High volume delivery
- Traffic management
- Community engagement
- Continuous improvement
- Delivering value
- Recognition Brunel Medal
 Champion Canterbury











Challenges Ahead

- Achieving the Target Estimate
- Demonstrating value
- Focus on 'critical resources'
- Containing escalation
- Maintaining operational networks
- Integration with other rebuild programmes









Transpose Elsewhere?

- Relationship Contract
- Commercial Model
- Procedures and Systems
- Team Building
- Learning Legacy

Definitely Transpose-able









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Update on Christchurch Horizontal Infrastructure Rebuild'

Any Questions?



New Zealand Government

