# **HEALTH AND SAFETY CHALLENGES IN THE CHRISTCHURCH INFRASTRUCTURE REBUILD**

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Safety, Quality & Environment Manager **SCIRT** 







- What is SCIRT?
- Setting the vision
- Setting the environment
- Health and Safety at Work Act
- Some of the challenges



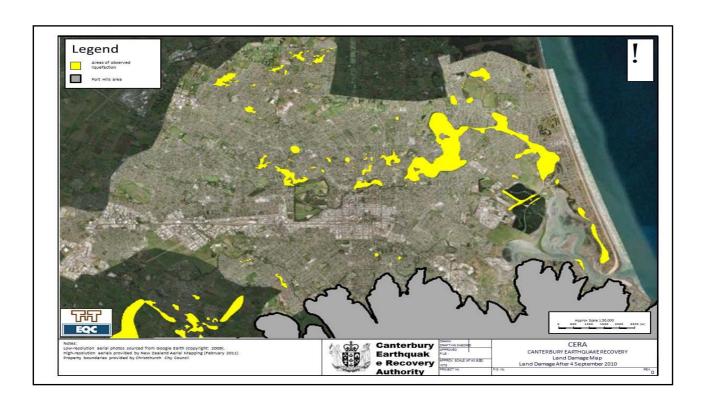




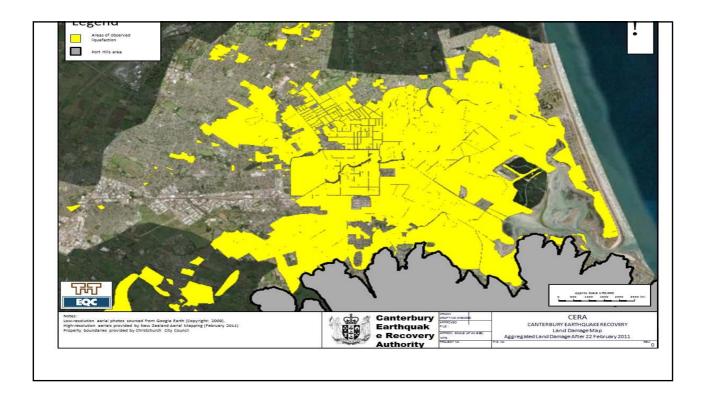












### The what ....

- Rebuilding the city's earthquake damaged roads, retaining walls, bridges, fresh water, wastewater and stormwater networks.
- Return of Whole of Network to pre September 2010 condition in terms of:
  - Level of Service
  - Remaining Asset Life
  - O & M Cost



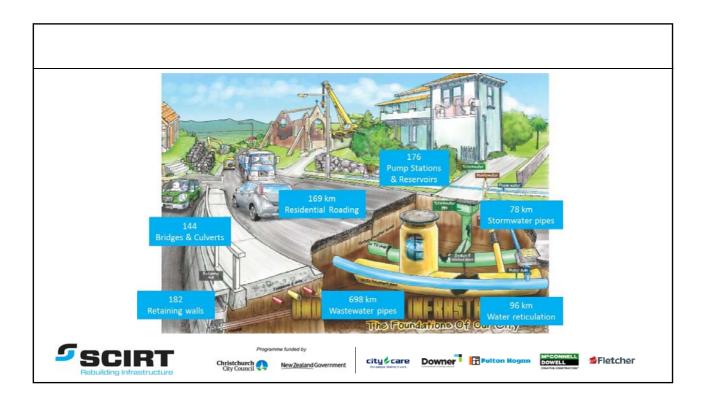












# Initial challenges

- Scale of rebuild programme \$2b over 5 years
- High levels of risk and uncertainty
- Urgency
- Resource requirements
- Community needs
- Government / Local Govt / Industry collaboration





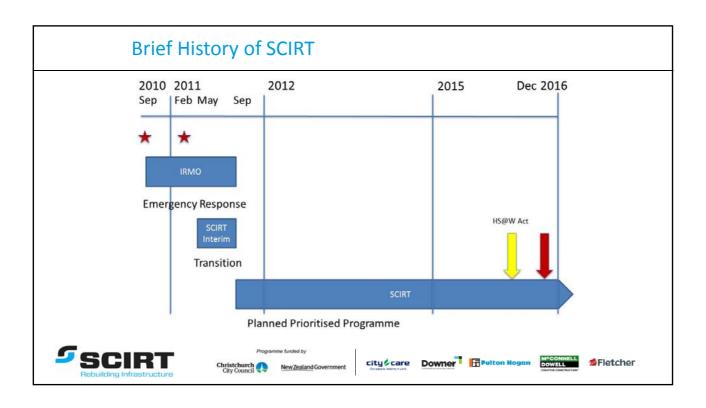














# Why SCIRT exists

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















## A shared vision

Everyone home without harm every day

Raise the bar for safety best practice in the industry nationally



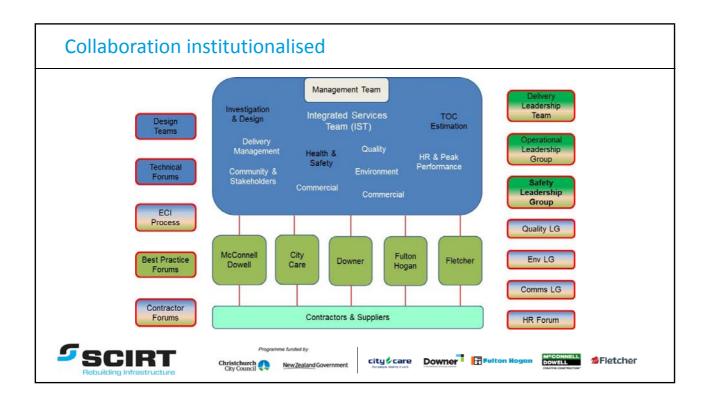


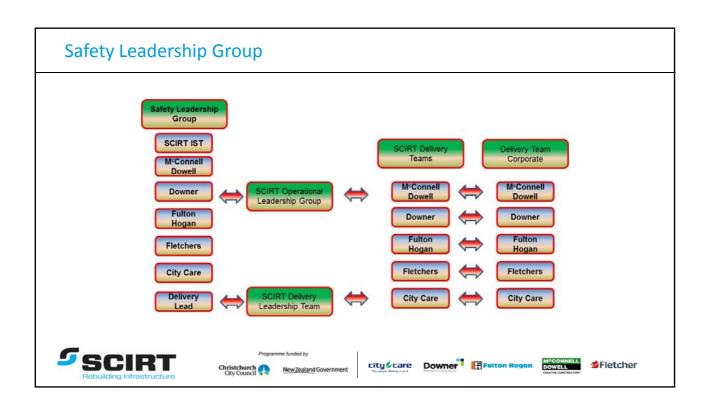












## Setting the environment

From the outset...

- Organisational culture
- Set high standards and stick to them
- Develop people upskill
- Recognise and reward















# HS Leadership 101

#### Zero Harm starts at the top.

#### Leaders must create the environment

- be visibly aligned
- clearly and consistently communicate
- lead by example
- empower and encourage people
- coach and mentor frontline leaders
- facilitate and support safety best practice
- drive continuous improvement
- recognise and reward















# Standardise Requirements and Processes

- Health & Safety Policy
- Health and Safety Management Plan
- Minimum Standards (... PPE, D & A, Services)
- Standard SCIRT and Delivery Team inductions
- Standard Reporting Requirements







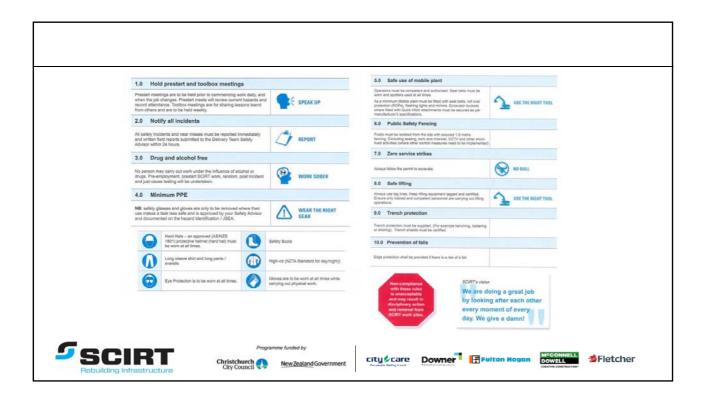












### **Critical Risks**

- Traffic and public interface
- Services
- Trenches & excavations
- Confined spaces
- Mobile plant & people interface
- Working at height
- Lifting operations
- Powered plant and tools















# **CHALLENGES – Team Building**

- Differing Backgrounds
- Differing Experience
- Differing processes and procedures
- Physical Environment
- Performance Pressure















# **Develop People**

SCIRT Training Centre programmes include:

- · Site safe training
- Frontline Leadership Training
- Spotter Training
- Lifting & Slinging
- Reading plans & locating services
- Concrete Saw
- **Spill Kits**
- Mobile Plant Awareness









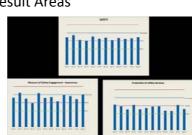






### Measure and Incentivise Performance

- KPIs are lead indicators
  - Services missed
  - Quality of safety audits
- Safety is one of 5 non-cost Key Result Areas
- Safety Awards and recognition
- Initiatives shared

















### Health and Safety at Work Act

- In IST people are seconded from Delivery Teams not an 'employer'
- In construction employee relationship is with Delivery Teams
- SCIRT has a Board
- Has SCIRT specific requirements it places on all Delivery Teams
- Has governance / assurance process
- A PCBU with Officers
- SCIRT was initially set up with this responsibility in mind













## Health and Safety at Work Act

#### With the Act the SCIRT Board:

- Reviewed
  - SCIRT HS Management system elements are evidenced
  - HS risk register to operational level
- Board site visits with structured feedback to Delivery Teams

#### **SCIRT Staff**

- Heightened awareness particularly wrt
  - personal accountability & responsibility
  - upstream and overlapping duties















### **Lessons Learned**

- Don't rely on systems and processes alone ... the human factor
- Communication is not as easy as it sounds
- Consistency is key to credibility
- Consider safety at all stages
- Frontline leaders and role models are key













## The Challenges

• Early days – urgency













city ¢ care Downer Fulton Hogan Dowell









# The Challenges

- Early days urgency
- Setting new standards
- Delivery Team own HS systems and standards















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- Delivery Team corporate HS systems and standa
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- Sub / contractors working to different standards elsewhere















### The Challenges

- Early days urgency
- Setting new standards
- Delivery Team corporate HS systems and standards
- Consistency
- Working in the midst of a living city
- Sub / contractors working to different standards elsewhere
- May not get it right first time















