



Engineering New Zealand
Transportation Group
2018 Conference

THEN, NOW, TOMORROW
COLLABORATION, LESSONS, ACTION

ROD CAMERON

Then – a disaster - planets aligned

CABINET

MINISTER

CHIEF EXECUTIVE

CHIEF OPERATING OFFICER

SMALL CIRCLE - TRUST

SMALL TEAM - EXPERTISE

Then - Collaboration

3 'FUNDERS'

5 COMPETITORS

10 EXPERTS

1 - 25 FORMERS

50 DOERS

176 ENGINEERS

Disaster Rebuild

Clients / Funders

Governance Board

Management

Integrated services

Construction

Sub-contrs & industry

Then – Lessons

BOARD & MANAGEMENT
VISION & OBJECTIVES
IDEAS & INNOVATIONS
AWARDS
LEARNING LEGACY

Rebuild capability

Clients / Funders

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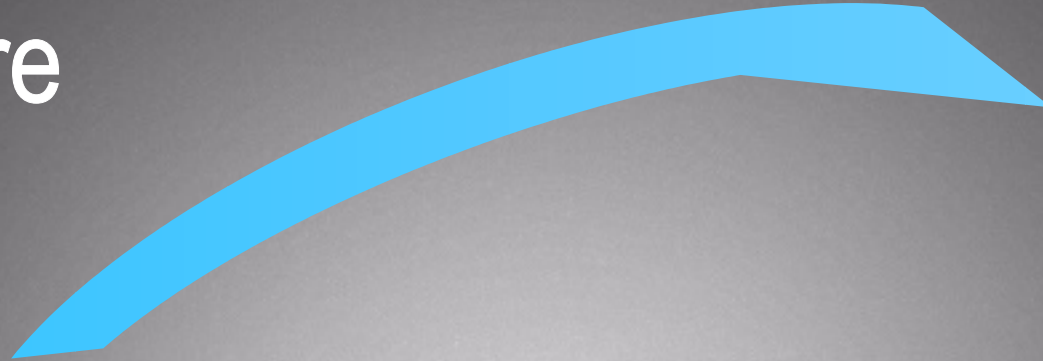
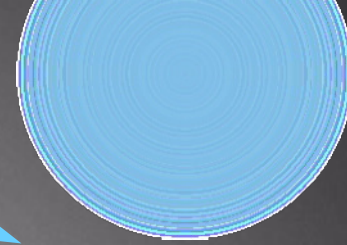
**Collectively
we are stronger**

Engineers generating collaborative solutions to strengthen community resilience post-disaster

**The Institution of Civil Engineers
10th Brunel International Lecture Series**

Presented by Duncan Gibb BEng (Civil) FICE FIPENZ
Executive General Manager, SCIRT

Brunel Lecture



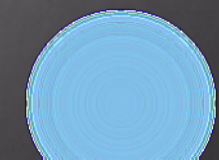
Disaster

How?



Recovery

Framework for action



Now – Framework for action

- Collaboration
 - The right people
 - Structure
 - Leadership
 - Culture
 - Commercial model
 - Processes & systems
 - Value framework
 - Communication



Now - Action

- ▶ FRAMEWORK FOR ACTION
- ▶ SYSTEM FOR ACTION
- ▶ A REBUILD CAPABILITY

Now – Framework for action + capability

Stakeholders

Taxpayers
Governments
Governors
Owners
Operators
Users
Communities

Rebuild capability

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Creative Process

Vision
Objectives
Needs
Concepts
Planning
Design
Construction
Handover
Maintenance

Now – System for action

Imagine if you could see:

- Who's who
- What's where
- What's needing done
- What sequence
- What's being done / done
- Who's paying for what, when
- Formal and informal records
- Helicopter views
- Detail

System
for
action
will
enable
this

And you were:

- Taxpayer
- Government
- Governance
- Operations
- Ownership
- Users
- Communities

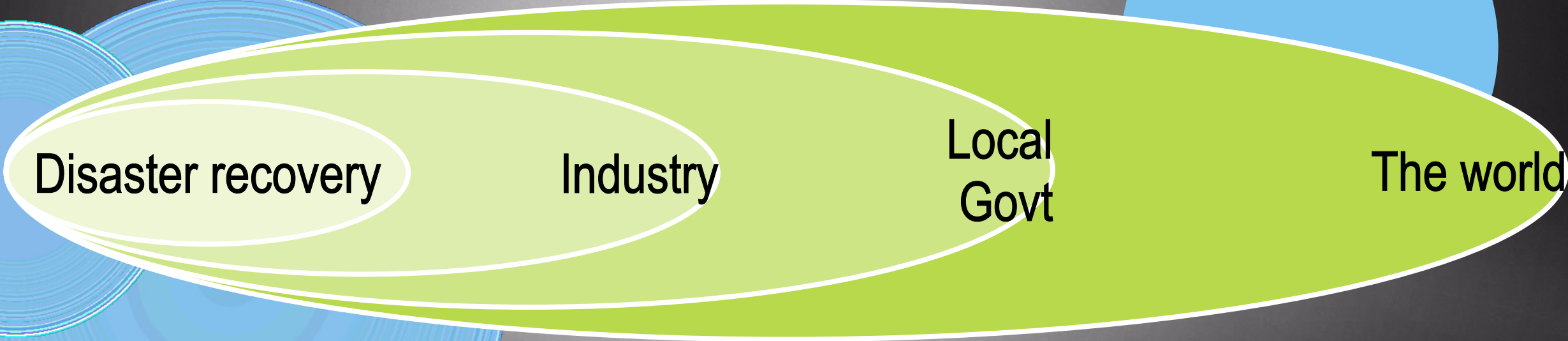
Application – scale-ability

- ▶ SCIRT
- ▶ CHRISTCHURCH
- ▶ NCTIR
- ▶ SMALL COMMUNITY
- ▶ WELLINGTON
- ▶ AF8

Now - collaboration

- ▶ TEAM BUILD
- ▶ DESCRIPTIONS + WORKING MODEL
- ▶ ENGAGE WITH INTERESTED PARTIES
- ▶ COMMUNITY OF INTEREST
- ▶ LOCAL GOVERNMENT & GOVERNMENT
- ▶ NEW ZEALAND WIDE

Tomorrow's action



time →

Who will own it?

- ▶ WE ALL WILL
- ▶ NEW ZEALAND INC



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CENTRE, WIDER TEAM, COMMUNITY OF INTEREST**





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QUESTIONS?



Information and build process

System for action

External databases

Funder,
owner,
enterprise
data

Design
Inputs

Build
Inputs

Asset opn
Inputs

Scope &
Priority

Design

Build

Operate

Outputs

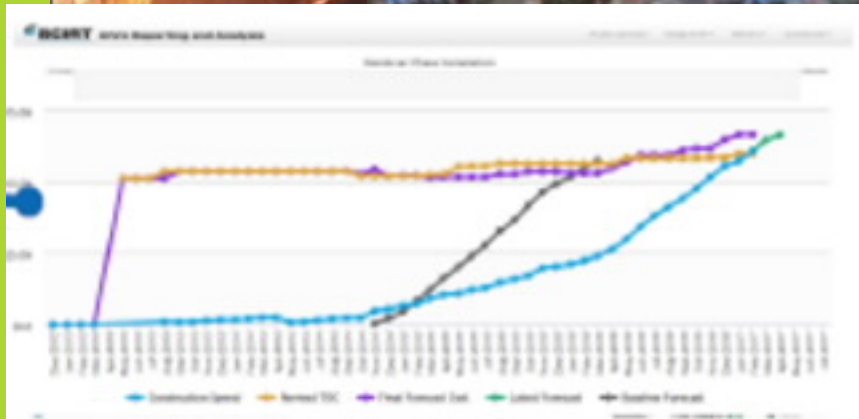
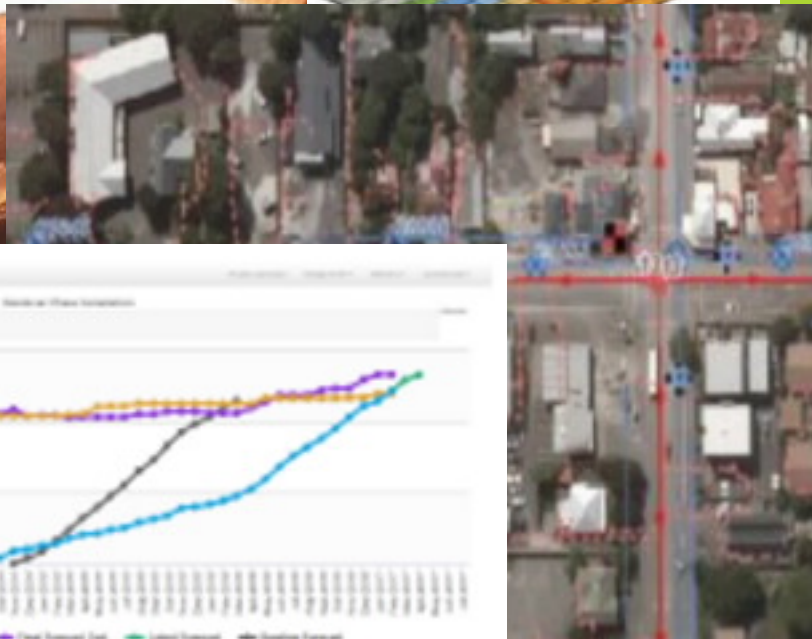
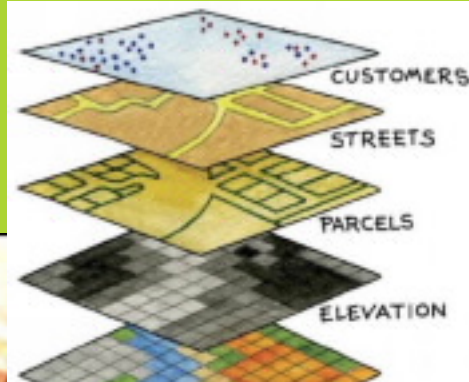
Outputs

Outputs

Shared and saved: data, reports, and stories

Information – asset, project or enterprise

Asset, design or project.



Location, throughput and status.

