





Volcanic Hazards







Auckland Emergency Management Group Vision

Working together to build a resilient Auckland



Auckland goals



Reduction: Reducing risks from hazards to Auckland.



Readiness: Increasing community awareness, understanding preparedness and participation in emergency management.



Response: Enhancing Auckland's capability to manage disasters.



Recovery: Enhancing Auckland's capability to recover from disasters.

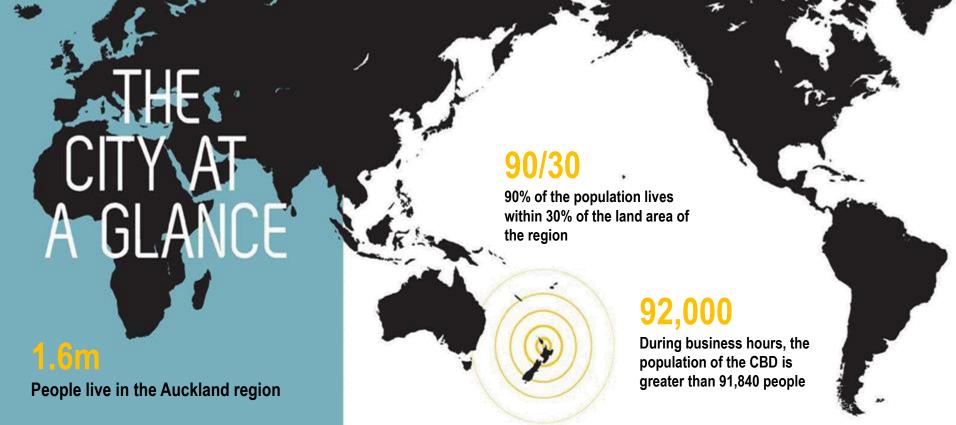


Resilience:

Auckland-specific goal







200 different ethnicities



70%

Of all international arrivals to New Zealand arrive at Auckland Airport (~70k / week)

820

New residents each week

40%

Of the population is born outside NZ, 30% outside Auckland

41%

Of all New Zealand tertiary students study in Auckland

37%

Of New Zealand's gross domestic product is from Auckland. THIS IS ABOUT \$90b

1/3

Of New Zealand's population

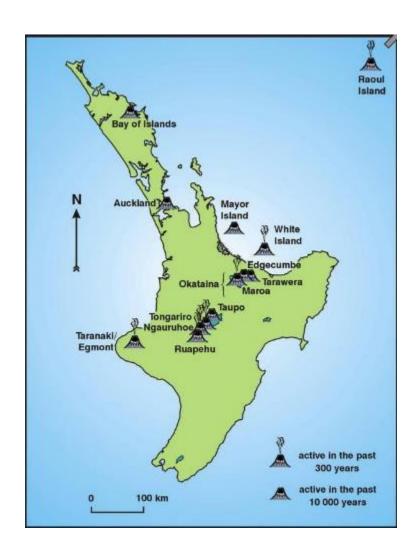
340

New houses are built each week

2.19

EM staff per 100,000 population (3.52 Canterbury, 6.72 BOP, 166.7 Chatham Is.)

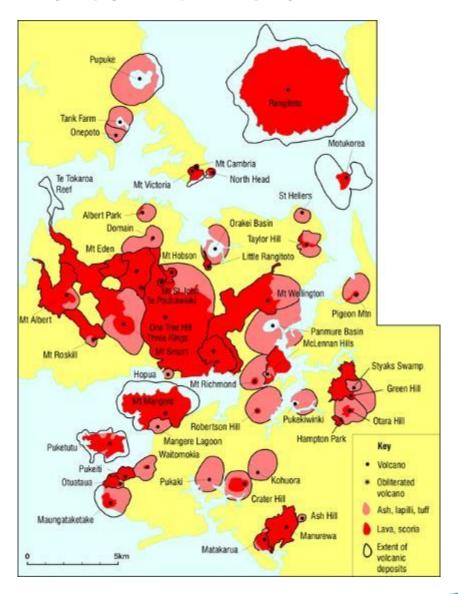
Volcanic Hazards







Auckland Volcanic Field

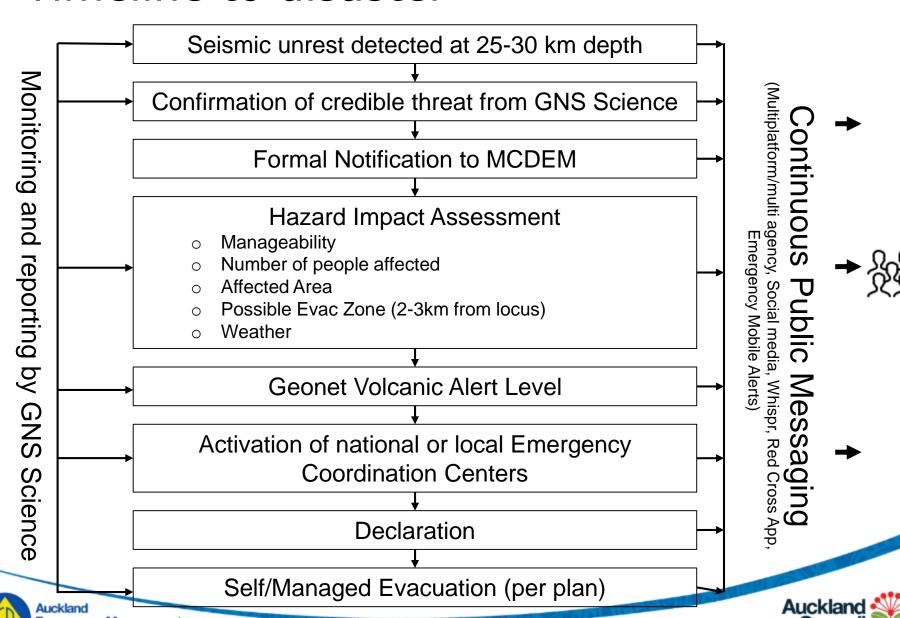






Auckland infrastructure Legend Critical utilities/assets + Airport Port Fire Service **™** Police Ambulance S Bank Food supply Hospital Major Lifelines Motorway Water Pipe Transpower Lines Liquid Fuels Pipeline Marsden to Win

Timeline to disaster



At all stages of EM we collaborate with our partners and stakeholders.





Te Puni Kōkiri

REALISING MÄORI POTENTIAL





















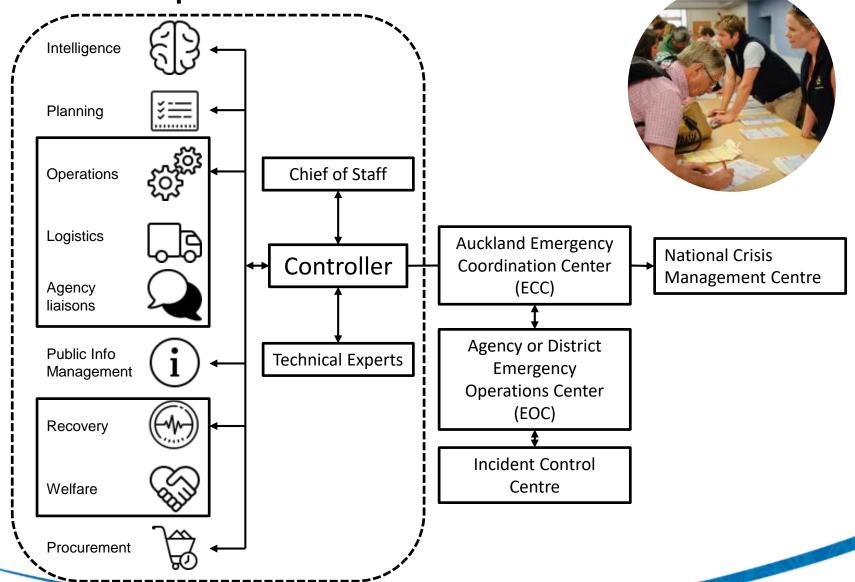








Our Response Framework







World-class and purpose-built facilities



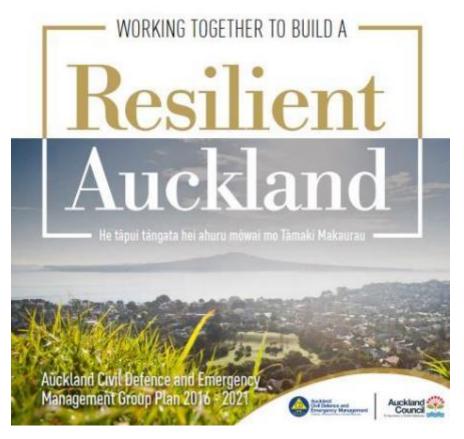








Business as Usual: Plans



Identify, strengthen, and coordinate the regions resources and capabilities

- Statutory obligation
- Draws on other documents including:
 - Transforming our world: the 2030 agenda for sustainable development (United Nations)
 - Sendai Framework for Disaster Risk Reduction
 - The Auckland and (Unitary) Plan
 - Legislation
- Identifies priority hazards
- Outlines CDEM relationships
- Provides framework for actions to deliver on our goals





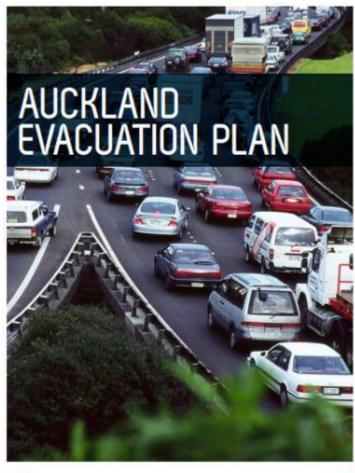














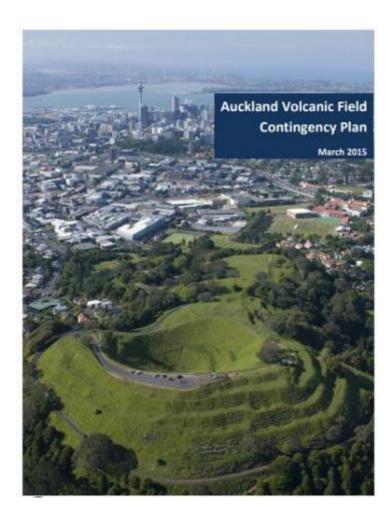


Decision -> Warning -> Evacuation -> Shelter -> Return

- Principles and processes for coordinated evacuation planning
- All hazards all scales approach
- Roles and responsibilities of different agencies
 - Auckland Emergency Management,
 NZ Police, FENZ, St Johns, MoH, etc.
- Complete response guidance:
 - Transport and Traffic Management (including cordon access management)
 - Logistics
 - Public Information Management
 - Field Team Management







Identify, strengthen, and coordinate the region's resources and capabilities

- Currently in redevelopment
- Operational document, focusing on first 72 hours volcanic eruptions
 - Base surge
 - Volcano formation
 - Air-fall tephra
 - Lava

- Gas
- Ballistics
- Shockwaves
- Earthquakes
- Lightning
- Tsunami
- Effects on the built, economic and social environments
- Monitoring, risk assessment, response activities

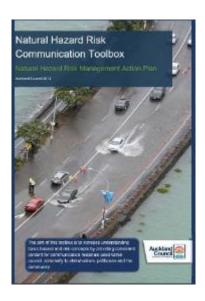
Movement away from contingency planning towards impact-based planning

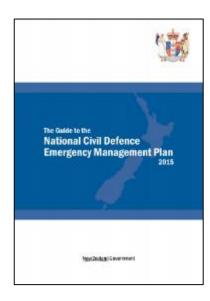


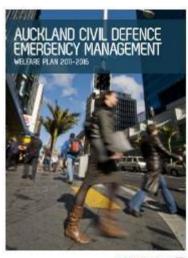


Other plans:

- National Civil Defence and Emergency Management Plan
- Natural Hazards Risk Management Action Plan
- Auckland Region Fuel Contingency Plan
- Auckland Civil Defence and Emergency Management Welfare Plan
- And others...













Exercise Ruaumoko

- Largest national Civil Defence exercise: simulate response to volcanic eruption in Auckland
- Full activation of emergency coordination and operations centers, including National Crisis Management Center
- Over 1000 participants from over 100 different agencies and organizations
- From "detection" of deep earthquakes -> public response -> event







Innovative Auckland

Effective response is not the only way we can build capacity and resilience in Auckland.

- Modified volunteers and controllers courses
- City-wide MOU with over 10,000 Air B&B hosts
- New website and Hazards view portal
- Recovery Walkthrough:
 - Innovative tool engage key partners and stakeholders in pre-event recovery planning
- Natural Hazards Research Fund
- Risk Communications Toolbox
- Orewa Tsunami walk (4000+ participants)













Resilient Auckland

A community that fields empowered, prepared, connected, and organised

Work with communities to:

- Foster relationships with key community leaders and influencers
- Build and maintain strong partnerships
- Empower community-led local action
- Use and strengthen social networks and assets
- Identify vulnerable groups
- Build organisational resilience with BCPs













Prepared Auckland

Auckland's Preparedness

(Based on the most recent survey of 400 Aucklanders, run every quarter)



- 85% have a good understanding of the types of disasters that could occur in Auckland, and the chances of them occurring.
- 86% of Aucklanders know what actions to take if a disaster struck there area.
- 61% have the necessary emergency items needed to survive a disaster, such as tinned food, toilet paper, torch, spare batteries etc.

"Tra il dire e il fare c'è di mezzo il mare"





Safe Auckland, together

















