

I hereby give notice that an ordinary meeting of the Golden Bay Community Board will be held on:

Date: Monday 11 March 2024
Time: 1.00pm
Meeting Room: Collingwood Fire Station,
Venue: Elizabeth Street, Collingwood

Golden Bay Community Board
Hapori Whānui ō Mohua
MINUTES ATTACHMENTS

ITEM	PAGE
RGBCB24-03-4 Amanda Power - EPOD Emergency & Disaster Resilience Pods - preparedness for natural weather events and AF8	
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RGBCB24-03-6 William Wallis - Floating Launching Dock	
Attachment 1 Bill Wallis tabled documents	19





Introduction to EPOD

Emergency & Disaster PODs

- Introduction
- Why?
- Case Study
- Our Solution
- Our Wider Vision

EPOD™



Why?
We live in a high-risk environment.



We live in a high-risk environment.

- **New Zealand's Disaster Risk:**
 1. **Diverse Natural Hazards:** including droughts, earthquakes, coastal hazards, floods, severe weather events, space weather, tsunamis, volcanic activity, and wildfires.
 2. **Climate Change Impacts:** exacerbating the frequency, impact, and occurrence of natural hazards.
 3. **Severe Weather Events:** including strong winds, heavy rain, or snow causing significant damage to both built and natural environments.
- **Future Disaster Events – Research Findings**
 - **AF8:** 75% probability in the next 50 years, causing widespread damage, isolation and predicted economic losses of NZ\$50-100+ billion.
 - **Hikurangi Fault:** 25% probability in the next 50 years.
 - **Locality:** 75% of our population live within 5km of the ocean.
- **Disproportionally affected communities:** Paying special attention to our communities, groups and people disproportionately affected by disasters.
 - Geographical, social and cultural communities, groups and people.
 - Rural and isolated communities.
 - Māori and Tangata Whenua.

EPOD™

Case Study: Cyclone Gabrielle



National

Deaths: 11 NZ (plus 1 missing) **Cost:** \$14.5b for NZ
Injuries: 2000 (per ACC)

Hawke's Bay

Deaths: 8 (plus 1 missing) **Cost:** \$4.918b so far

Up to **546mm** of rain in some areas at a max intensity of 56mm/hr

400 official rescues on first day.

9000 people were accommodated/fed in official CDCs on first night - 1600 people needed ongoing emergency accommodation 2 days after the event. Many others accommodated in community led centres across the region.

30 isolated communities - 54 impacted communities in total - from Mahia to Pōrangahau

1200 dwellings significantly damaged and requiring building assessments

1600 incident management team members from across NZ deployed into HBCDEM Group Coordination Centre over 74 days activated (70 on one shift at a time). Demobilised 30 April.



25+ bridges destroyed

19 bridges severely damaged
 19 bridges moderately damaged
 100s of culverts under roads destroyed
 100s of km of roads needed urgent repairs or total rebuilds



Napier-Wairoa railway line significantly damaged

Hastings - Napier railway line - bridge at Waitangi Awatoto destroyed



Significant power outages across region

- parts of Napier City without power for over 7 days



80% cell phone coverage outage



5.6km of stop bank breaches

or overtopping - many additional km of weakened stop banks - (erosion or scouring on land side from overtopping) across region

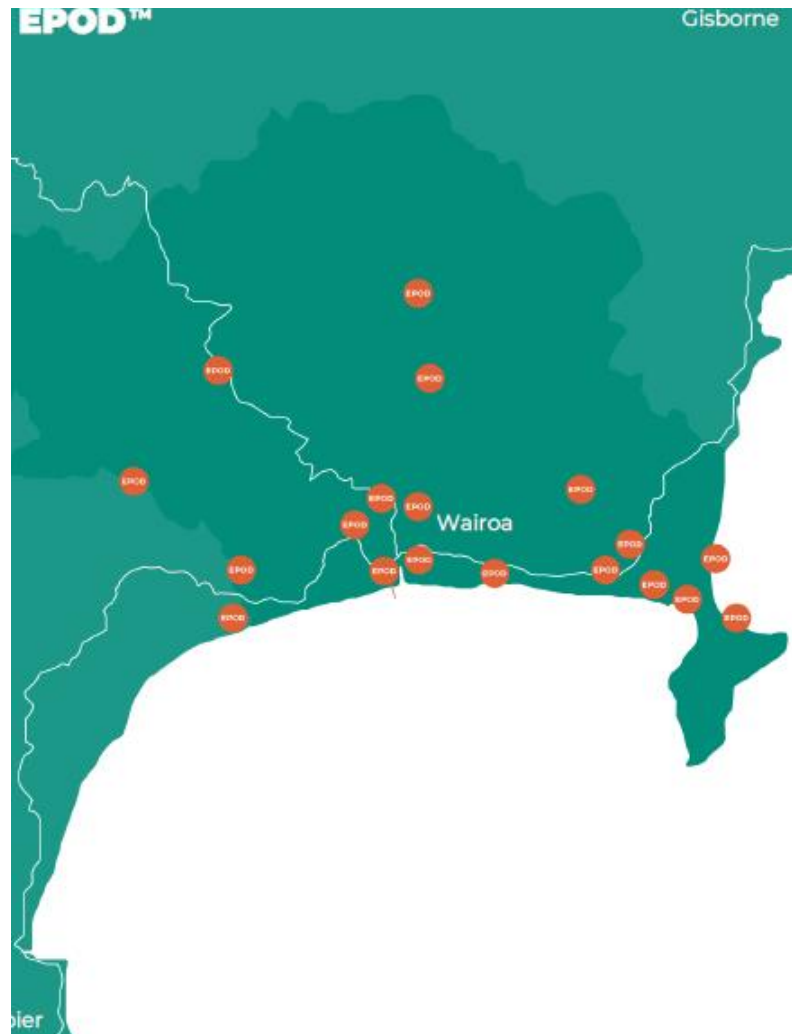


500+ helicopter flights

coordinated to deliver emergency food/water or supplies - 400 volunteers



300,000 landslides (approx) along East Coast of North Island - Esk Valley in just 12km² over 2000 landslides (University of Canterbury study)



Case Study – Cyclone Gabrielle, Wairoa – Hawkes Bay

- 25 EPODs delivered to Te Whare Maire O Tapuwae Whānau Ora prior to the arrival of Cyclone Gabrielle (Funded by the Ministry for Maori Development)
- Being one of the worst affected regions, our EPODs provided a critical lifeline to the many communities in the wider Wairoa and East Coast region.
- We had worked closely with Te Whare Maire O Tapuwae Whānau Ora to project the likely disaster effects of the region, including:
 - The vast spread and isolation of the Wairoa district including 130kms of coastline and interconnected borders between Napier (Hawkes Bay) and Gisborne (Tairāwhiti).
 - Climate change projections and extreme rainfall events, including 1-50 year and 1-100-year events (which were projected to increase).
 - Potential flooding of the Wairoa River resulting in rapid run-off and surface flooding.
 - Heavy reliance on state highways and roads for access and critical lifelines.
 - Emergency services and significant reliance on hospitals outside of the Wairoa district.
 - Closure of state highways, power outages across the district and river turbidity meaning water treatment plants couldn't product drinking water.

The EPOD logo is located in the top left corner of the slide. It consists of the letters 'EPOD' in a bold, white, sans-serif font, followed by a small green trademark symbol (TM). The background of the slide is a scenic landscape featuring rolling green hills, a winding river, and a small town nestled in a valley.

Wairoa – Client Statement

“EPOD has provided exceptional customer service from concept to on-time delivery of 20 x Resilience Emergency Pods for the Wairoa district. The communities will benefit enormously from this initiative for years to follow as our area is prone to climate change and isolation in the event of a natural disaster that unfortunately eventuated recently with Cyclone Gabrielle. I would definitely recommend their services to others because of their professionalism, attention to detail and commitment to community projects.”

- Rangi Manuel of Te Whare Maire o Tapuwae Wairo

