



# A more resilient SH1 Whangārei t **Dome Valley Strategic Transport**

Northland recovery - draft emerging programme (under de





- » Recurrent severe weather events have resulted in declining performance and closures of SH1 between Whangarei and Dome Valley as well as local road detour routes.
- » The geology of the Brynderwyn Hills makes it particularly susceptible to weather events, closures and future challenges (e.g. climate change).
- » Damage to several sections of highways has resulted in significant road closures and disruptions for customers and the wider economy. Emergency works to reopen roads are short-term only
- » Given the reliance on the state highways the levels of disruption, severance and isolation occurring are untenable for communities and industry. The region has a high Māori population, high level of socio-economic deprivation, significant tourism economy and freight activity.

## Way forward

- » Waka Kotahi, iwi, hapū and key stakeholders collaborating on the future direction of the regional transport system.
- » A step-change in resilient access, and confirmation of funding as options and interventions are further developed.
- Delivery to be staged with three phases of works:
- Short term/immediate projects include strengthening detour routes for freight, completing Whangarei to Te Hana SSBC and immediate works on Brynderwyn Hills and Dome Valley
- Medium term projects include overslips, underslips and slip management along with preventive flooding maintenance with culvert clearing and upgrades
- Long term projects include long term Whangarei to Te Hana solution (pending outcome SSBC), Ara Tūhono Warkworth to Wellsford (when DBC triggers are me
- » Straightforward and smaller scale projects start immediately using existing contracting models. The more complex projects require further investigation public consultation.

# Kev outcomes

- » More reliable and equitable access. Enable future saster response and recovery.
- » Safer and more resilient transport network providing for genter reliability of access
- very works in response to woided through proactive works. rtner with iwi and hapū to understand
- irations, and to support local usinesses and job creation during rebuild
- » Increased confidence to invest, retain and grow employment, increase tourism, and attract industry due to transport investment in region.



Northland industry contribution of \$8B GDP annually



Key sections of SH1 closed for 73 days in early 2023.



Contractor claims exceed \$10 million for Brynderwyn Hills and Dome Valley emergency response so far this year.



30% Māori population in Whangārei district and 25% in Kaipara district



Indicative programme costs to the hort and medium term interventions are \$600-800million, inclusive of property. Costs for longer term works will be confirmed through the Jusiness case development.

# State Highw

#### ārei and Dome Vallev)

Maintaining SH1, as the critical lifeline to Northland, is incredibly important given the growth nic prosperity and confidence in Northland relies on this critical connection. It also Avail access to NorthPort, higher education, health services and international airport ctions, for local people and freight operating on the "just in time" model to serve the North.

eted investment to remove current deficiencies and deliver resilient access by increasing maintenance and rebuilding infrastructure to standards that will withstand future events in the immediate to medium term

#### Recommended programme includes:

- Confirming the long-term infrastructure solution by completing the Whangarei to Te Hana SSBC with our mana whenua and Council partners in the immediate/short term
- » Undertake route protection for the long-term solution in the medium to long term
- Significant immediate/short term enhancements (drainage, slip prevention) to the Brynderwyn Hills
- Enhanced overslip, underslip and slip management across both the state highway and local road network using the design already being completed through the emergency funds
- Prioritised preventative flooding measure through culvert management and upgrades for the Brynderwyn Hills and Dome Valley
- Non infrastructure solutions like enhanced signage, variable messaging signs and sensors to monitor slips.

## Local road detour - Oakleigh Road - Paparoa Road

Targeted resilience enhancements to provide temporary HPMV access alternative to SH1 that is constructed to modern standards and will withstand future events.

Potential to expand to include one-lane bridge replacements to allow for temporary HPMV use, route improvements with localised widening, as well as underslip management to maintain availability during weather events.

## Local road detour - Cove Road - Mangawhai Road

Targeted resilience enhancements to provide temporary HPMV access alternative to SH1 that is constructed to modern standard what will withstand future events.

### SH12/14 detour and SH16/Woodcocks Road detour

Minor resilience enhancements with limited works, focusing on maintaining access through flood management, preventative maintenance, culvert investigation, slip and rockfall management.

Proposals and timeframes are subject to further refinement, options assessment, engagement, planning and property acquisition processes. \*Cost ranges are indicative only and subject to funding, further design and investigation. Excludes inflation and escalation.

