

Te rautaki ueā me te rautaki whakawhiwhinga o Aotearoa New Zealand freight & supply chain issues paper

### April 2022

The supply chain is facing a range of challenges from climate change, to adopting technological advances, and shifting international geopolitics to name a few. The COVID-19 pandemic made vulnerabilities in the supply chain more visible and it is unlikely the system will revert to how it was before the current disruption.

## Preparing our freight and supply chain system for the future

we will need to take a strategic approach to prepare our supply chain for the future. Te Manatū Waka has prepared an issues paper as preliminary work on the New Zealand freight and supply chain strategy. The issues paper presents a view of the big issues facing New Zealand's freight and supply chain system over the next 30 years.

We are seeking feedback on whether the issues and opportunities identified in the issues paper are the most important ones for the strategy to address.



Public consultation on the issues paper runs from 14 April – 3 June 2022 and we encourage you to make a submission.

# Part 1.

## **Understanding New Zealand's** freight and supply chain system

Supply chains are the networks of individuals, companies, resources, infrastructure, activities, and technologies involved in supplying things from those who produce or manufacture them to those who use them. Our freight sector and its infrastructure underpin the operation of supply chains by enabling the physical movement of goods, within New Zealand and to and from overseas markets.

Within New Zealand, freight can travel by road, rail, coastal shipping, or air.

## Road, rail and coastal shipping freight volume Road Rail Coastal shipping Tonnes

- 1,000,000 - 2,000,000

- 3,000,000



National Freight Demand Study 2017/18

### How goods are moved into, out of, and around New Zealand

|                                   | Ħ                       |  | $\widetilde{}$                  | $\bigcirc$                       |
|-----------------------------------|-------------------------|--|---------------------------------|----------------------------------|
| Road<br>freight                   | Rail<br>freight         | Coastal<br>shipping                      | International shipping          | <b>Airfreigh</b><br>Airlines car |
| 93.8% of                          | 5.6% of                 | 1.6% of freight in                       | 99% of the                      | 16% of our                       |
| New Zealand                       | by rail along           | moves by coastal                         | volume is moved                 | exports an 22% of our            |
| is transported<br>by trucks along | 3,700 km<br>of railway. | shipping. There are<br>around 13 vessels | by international shipping lines | imports by value but c           |
| our 94,000 km<br>of roads.        |                         | in our coastal<br>shipping fleet.        | through our<br>15 ports.        | 1% by volu                       |
|                                   |                         |  |                                 |                                  |

### What is the role of government in the freight and supply chain system?

While the freight and supply chain system is largely operated by private entities and individuals, the government has a role to play in ensuring that the system functions well and serves the interests of New Zealand and its people. This includes:

| Supporting what<br>is needed for<br>commercial<br>activities to occur | The government sets the 'rules' of the market through reg<br>is competitive, and that businesses and consumers are a<br>understanding of how things work. The government also<br>roads, bridges, tunnels, and railway tracks. The building, r<br>to the movement of goods in freight and supply chains. T<br>New Zealand which may otherwise struggle to be comme<br>through State-owned Enterprises. |
|---|---|
| Ensuring broader  | The government works to ensure that broader public goo  |
| public good outcomes  | may not be prioritised by the commercial sector. These ir   |
| and national interests  | sustainability, health and safety of the workforce, fair and  |
| are achieved  | and opportunities, etc.   |
| Facilitating  | This provides our businesses with access to global netwo  |
| New Zealand's   | which is valuable for a small country like New Zealand. Th  |
| participation in  | international relationships and agreements to ensure goo  |
| global value chains   | and opportunities, and effective management of trade ro   |
| Facilitating  | There is a role for government to play in coordinating act  |
| collaboration   | and complex as the freight and supply chain system. This  |
| and coordination  | management and national resilience in response to majo  |
| across the sector   | pandemic, and natural disasters.  |
| Providing a system-   | Similarly, the government is in the position to take a system-  |
| wide, longer-term view  | monitor performance across the freight sector, and provide  |
|   |   |



### International connections

Internationally, 99% of New Zealand's imports and exports travel along global shipping routes to reach consumers. The remaining 1% travels via air, mostly in the belly hold of passenger airplanes. Australia/New Zealand and Oceania make up only about 4% of total global container shipping capacity. New Zealand is located far away from the main international shipping routes, and our small size and remote geographical location present a challenge in accessing reliable international transport services at competitive costs, especially when the international supply chain is experiencing disruption.

gulation, to ensure the system works well and ble to participate in the market with the same invests heavily in public infrastructure such as maintenance, and repair of these are fundamental he government provides services important to ercially viable, such as rail and postal services,

od outcomes are also achieved, which nclude outcomes such as environmental equitable distribution of economic growth

rks, markets, capital, knowledge, and technology, ne government supports this by building od connections, standards, trading conditions utes.

ion across the sector, especially one as large is also relevant in cases of emergency r catastrophic events such as the COVID-19

wide view of the freight and supply chain system, to longer-term planning and investment in the system.



Te Kāwanatanga o Aotearoa New Zealand Government

## Part 2.

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## The strategic context for change

There are major changes affecting the freight and supply chain system now and in the future.

Climate change will impact all aspects of our supply chain and will require significant changes to how freight is moved

It will affect what we produce and where, increase the risk of damage to infrastructure and supply chain disruption and increase the likelihood of global supply chain disruptions.

We have committed to ambitious goals to decarbonise our economy - this requires changing how we move goods. We also need to decarbonise how we move goods to and from overseas markets.

### We must adapt to New Zealand's growing population and increasing densification

Our population is expected to grow, especially in urban areas. Housing shortages and efforts to respond to climate change are increasing urban densification. The corresponding increase and concentration of freight volumes will put pressure on our freight and supply chain system

### Technology and digitalisation may ٢Ċ change how we move goods

Advancing technology may change how freight is moved. Increased digitalisation of trade could significantly facilitate global supply chains

### International developments will increase uncertainties faced

International trading is likely to become more uncertain as global geopolitics in the shifts and trading patterns change

Consolidation in the international shipping sector and the rise of megaships will impact our ports

# Part 3.

## Current vulnerabilities of the freight and supply chain system

We need to address the vulnerabilities and barriers the system faces including:

- just-in-time efficiency prioritised over spare capacity
- it can be hard to shift between freight options
- international shipping lines may not always prioritise NZ's freight needs
- the competition settings of New Zealand ports may not be optimal
- limited data on the freight sector is available
- accessing labour can be challenging
- long-term planning needs to be clearer

Other factors which make the system vulnerable may include:

- Some evidence shows that our freight and supply chain system could be performing better
- The pre-COVID-19 operating environment is unlikely to return, so we need to position the system for the future
- We need to ensure a sustainable labour force
- Limited access to data to understand and evaluate the system

### New Zealand export flow to the next international port



### New Zealand import flow from the last international port



# Part 4.

## Our proposal for developing a freight and supply chain strategy

Based on our conversations with stakeholders, we propose that the strategy focuses on four outcomes: Low Emissions, Resilience, Productivity and Innovation, and Equity and Safety. Below are some potential areas of focus. These are not exhaustive and only indicative at this stage. We will be engaging with iwi and stakeholders to identify priorities and options are part of the strategy development process this year.



### Our approach to progressing from issues paper to strategy

We will be taking a collaborative approach and drawing on the expertise and experience of stakeholders across the system to inform the process. We would also like to work with our Treaty partners to articulate Māori aspirations relating to the freight and supply chain system and explore how to achieve them.

### 30 years

• Set the pace of intermediate steps between now (current emissions) and 2050 (net zero emissions)

Develop a systemic approach to improve freight data access and collection, and performance evaluation

### Issues paper public consultation at a glance

Consultation ends: 3 June 2022

- Issues paper full copy: go to
- www.transport.govt.nz/supplychain.
- Online submissions: go to www.transport.govt.nz/supplychainconsultation
- For other ways to make a submission: go to www.transport.govt.nz/supplychain
- Contact the supply chain team: supply.chain@transport.govt.nz

