Transport Evidence Based Strategy

Improving the way we use evidence and make decisions in transport

Enabling New Zealanders to flourish
The transport system...

Is a combination of networks – we need all the parts to work AND Interacts with and supports other domains across NZ society
Transport Outcomes Framework

**Inclusive access**
Enabling all people to participate in society through access to social and economic opportunities, such as work, education, and healthcare.

**Healthy and safe people**
Protecting people from transport-related injuries and harmful pollution, and making active travel an attractive option.

**Economic prosperity**
Supporting economic activity via local, regional, and international connections, with efficient movements of people and products.

**Environmental sustainability**
Transitioning to net zero carbon emissions, and maintaining or improving biodiversity, water quality, and air quality.

**Resilience and security**
Minimising and managing the risks from natural and human-made hazards, anticipating and adapting to emerging threats, and recovering effectively from disruptive events.
The transport outcomes framework

- Being applied by all government transport sector agencies
- Guiding thinking, policies, planning, funding, research
- Intended to be **enduring** while recognising each Government will have its own priorities
Transport Evidence Base Strategy

Government’s Overall Goal

Transport Sector Outcomes

Transport Evidence Base Strategy (in draft)

Evaluation Strategy (in draft)

Information Strategy and Architecture (in draft)

Modelling Strategy (scoping)

(refresh)

(refresh)
Goal:

*Ensuring the transport sector has the right data, information, research and evaluation to deliver an evidence-based transport system that improves wellbeing and liveability.*

Objectives:

1. Ensure the right data, information, research and evaluation (‘the evidence-base’) is available for decision-making
2. We have an established culture of evidence-based policy and decision-making
Why do we need a strategy?

USE THE CRS DATABASE TO SIZE THE MARKET.

THAT DATA IS WRONG.

THEN USE THE SIBS DATABASE.

THAT DATA IS ALSO WRONG.

CAN YOU AVERAGE THEM?

SURE, I CAN MULTIPLY THEM TOO.
How the transport evidence-base contributes to decision-making

1. Define evidence requirements
2. Collate evidence
3. Undertake analysis/appraisal
4. Confirm conclusions and interpretation
5. Define and implement policy or decision
6. Monitoring and evaluation

Evaluation Strategy

Transport Evidence-Base Strategy
Strategy highlights

- It’s all in one place – one single document
- Aligned with the new Transport Outcomes Framework
- Includes:
  - Revalidation of the enduring questions
  - ‘Refreshed’ Domain Plan and Research Strategy
  - New Evaluation Strategy
  - Top 12 priority ‘evidence’ initiatives
  - New list of research priorities
  - Updated 3-Step framework (replaces the Triple-4)
  - New ‘priority assessment template’
  - Recommended set of actions
  - Introduces 5 key ‘implementation’ enablers
Five Transport Evidence Base Enablers

- **Improve access**: Data, research and evaluation findings are discoverable, accessible and reusable.
- **Improve governance**: Ensure sharing, integration, and governance of key data and information products.
- **Invest in the right activities**: We invest in the right data, research and evaluation activities and projects.
- **Facilitate collaboration**: Foster cross-agency collaboration and relationships with the wider transport sector.
- **Develop capacity and capability**: Ensure the sector has access to the right skills and knowledge.
3-Step Prioritisation Framework

Step 1: Identify knowledge gaps in achieving long-term sector outcomes

Step 2: Identify the nature of the knowledge gap

Step 3: Assess priority for closing the knowledge gap based on four key principles

Overall Benefit: Increasing our understanding of how the transport system improves wellbeing and liveability

Knowledge potential

Expected benefits from new knowledge

Probability of success
1. Define topic
   - Identify and define the purpose of the data, information, research or evaluation project

2. Identify knowledge gap:
   - the associated enduring question
   - whether it aligns with a known knowledge gap and recommended initiative
   - size of the knowledge gap (i.e. small, medium or large gap)
   - if it aligns with a high-priority initiative or research priority
   - if it is a new knowledge gap not previously identified

3. Apply the 3-step framework

4. Seek stakeholder feedback through appropriate agency and/or Topic Hub
## Priority Assessment Template

<table>
<thead>
<tr>
<th>Overview</th>
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</thead>
<tbody>
<tr>
<td><strong>Purpose</strong></td>
<td>(please complete)</td>
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<tr>
<td><strong>Research</strong></td>
<td>question</td>
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<td></td>
<td>(please complete)</td>
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<tr>
<td><strong>Problem</strong></td>
<td>definition and</td>
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<tr>
<td></td>
<td>knowledge</td>
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<tr>
<td></td>
<td>development</td>
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<td></td>
<td>opportunity</td>
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<td>(please complete)</td>
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<tr>
<td><strong>Response</strong></td>
<td>(please complete)</td>
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</tbody>
</table>

- **Related enduring question and/or recommended initiatives**
  - (please complete using Transport Domain Plan)
  - e.g., EQ2-1, EQ2-3, EQ10-2
  - R10.1 (high priority), R2.14 (high priority)

- **Estimate of effort/cost**
  - (please complete)

### Prioritisation assessment

<table>
<thead>
<tr>
<th>Strategic value</th>
<th>Impact</th>
<th>H/M/L*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Breadth of application</strong></td>
<td>(please complete)</td>
<td>H/M/L*</td>
</tr>
<tr>
<td><strong>Access to right resources</strong></td>
<td>(please complete)</td>
<td>H/M/L*</td>
</tr>
<tr>
<td><strong>Strategic value</strong></td>
<td>(please complete)</td>
<td>H/M/L*</td>
</tr>
</tbody>
</table>
Assessing success

**Enabler**
- **Objective:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Domain Plan:** Existing data and information is discoverable, accessible and reusable, and its value is maximised at agency level
- **Research Strategy:** Research inputs and results are available to the wider community
- **Evaluation Strategy:** Evaluation findings are available and presented in a digestible way

**Improve access**
- **Enabler:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Objective:** Ensure sharing, integration, and governance of key data and information products
- **Domain Plan:** Data and Information is collected, managed, and shared in a consistent manner and is able to be used
- **Research Strategy:** There is coordination and prioritisation of research activities and funding opportunities across the wider research community
- **Evaluation Strategy:** Data and information is shared between agencies to reduce project cost and improve consistency in evaluation findings

**Improve governance**
- **Enabler:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Objective:** Ensure we invest in the right activities and projects
- **Domain Plan:** We are able to close priority data and information gaps where the collection of new data or additional data is required
- **Research Strategy:** There is clear guidance on how to identify priorities for transport research to achieve transport outcomes
- **Evaluation Strategy:** We are investing in the right evaluation to deliver the greatest contribution to the transport outcomes

**Invest in the right activities**
- **Enabler:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Objective:** Foster cross-agency collaboration and relationships with the wider transport sector
- **Domain Plan:** There is an increase in the number of cross-government and public-private data-sharing partnerships
- **Research Strategy:** There is a systematic approach to building and maintaining interests in transport research across the wider research sector
- **Evaluation Strategy:** The transport evaluation community is engaged to share knowledge, discuss challenges, and identify solutions

**Facilitate Collaboration**
- **Enabler:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Objective:** Ensure that the sector has access to the right skills and knowledge
- **Domain Plan:** Sector has the necessary skills and capabilities to collect, analyse and disseminate data and information products
- **Research Strategy:** There is a thriving research community with the necessary capability and capacity to produce high-quality research
- **Evaluation Strategy:** The sector has access to the right capability to identify, specify, deliver and understand evaluation

**Develop capacity and capability**
- **Enabler:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Objective:** Ensure data, research and evaluation findings are discoverable, accessible and reusable
- **Domain Plan:** Sector has the necessary skills and capabilities to collect, analyse and disseminate data and information products
- **Research Strategy:** There is a thriving research community with the necessary capability and capacity to produce high-quality research
- **Evaluation Strategy:** The sector has access to the right capability to identify, specify, deliver and understand evaluation
Developing an evidence-based culture...
Transport Knowledge Conference
5th December 2019
Wellington

knowledgehub@transport.govt.nz
Questions for discussion

• What types of evidence are most useful to you?

• What evidence gaps need closing? What could you use more of?
  • Data
  • Skills and capability
  • Research
  • Evaluation

• How could we use evidence more effectively?