The New Zealand Transport Research Strategy 2016-2020

The Transport Research Strategy:
- ensures investment in the right research.
- framework for fostering a better research environment.
- clear guidance on the direction for transport research

The Research Strategy includes four critical and inter-related enablers:
- Triple-4 Framework for knowledge development and prioritisation
- Facilitating collaboration
- Ensuring visibility
- Accessing visibility in the right capability

The Transport Research Strategy has been developed alongside the Transport Domain Plan. Strategy and Domain Plan are complementary documents. Together, they provide the strategic direction we need to fill key data, information and knowledge gaps.
The Transport Domain Plan (the Domain Plan) ensures that the transport sector has the right data and information. Ultimately, it will help maximise the value of data by enabling greater data sharing and integration.

To do so, the Domain Plan

• outlines the main statistical and information priorities for the transport sector, and provides guidance on how to address them
• provides a tool for targeting research and investment across the transport sector, and creates a common approach for how sector agencies prioritise transport data and research

The key elements of the Domain Plan include:

• Identifying eleven topics of data, statistical and research interest
• Enduring questions that need to be answered in relation to each topic
• Defining and framing the problems to be resolved in relation to each topic and enduring question
• Identifying the responses and likely actions required; and
The Triple-4 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 helps New Zealand thrive
Transport Knowledge Hub

• The Transport Knowledge Hub strives to encourage collaboration and raise awareness of related work and future opportunities or needs.
Transport Knowledge Hub - Environment

The Transport and Environment Knowledge Hub is a community of researchers that provides a forum for information sharing and collaboration on transport and environment related research and data analysis.

Objectives

- To act as a channel to help implement the Transport Research Strategy and the Transport Domain Plan.
- To raise awareness of relevant search, data analysis techniques and data availability across the transport sector - including international research and connections.
- To identify information/research gaps.
- To ensure research is relevant and to facilitate the take-up of research for policy development.
- To identify opportunities for collaboration amongst members.
- To reduce duplication and provide the opportunity to learn from, and build on others' work.
- To drive quality by providing a forum for peer review and critique.
Emissions Group

The Emissions Group is a specialist forum that is part of the Transport and Environment Knowledge Hub.

The Group has a technical focus and brings together researchers interested in transport emissions (harmful air pollutants and greenhouse gases) to enable information sharing and collaboration in areas of mutual interest.

We run and support a range of seminars as well as other discussion sessions with the aim of sharing knowledge and experience to help drive the quality of research and data analysis relating to transport emissions.

Activities

• Seminars on current and planned research and data analysis relating to transport and the environment.

• Regular updates on relevant research and events.

• Support the annual Transport Knowledge conference.

Membership

• The hub is open to anyone interested in sharing environment-related data, information and research.

• To join, please email KnowledgeHub@transport.govt.nz
About us

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Objectives

- To act as a channel to help implement the Transport Sector Research Strategy and the Transport Domain Plan
- To raise awareness of relevant research, data analysis techniques and data availability across the transport sector – including international research and connections
- To identify information/research gaps
- To ensure research is relevant and to facilitate the take-up of research for policy development.
- To identify opportunities for collaboration amongst members
- To reduce duplication and provide the opportunity to learn from, and build on others’ work
- To drive quality by providing a forum for peer review and critique

Membership

The Emissions Group of the Transport and Environment Knowledge Hub is open to researchers from both the public and private sectors. To join, please email KnowledgeHub@transport.govt.nz

Activities

- Seminars on current and planned research and data analysis relating to transport safety
- Regular updates on relevant research and events, via email and the Knowledge Hub web site
- Support the annual Transport Knowledge Hub conference
- Organise the annual Transport Emissions workshop with the Clean Air Society of Australia and NZ – Transport Special Interest Group

Working committee

Rob Hannaby – NZ Transport Agency
Greg Haldane – NZ Transport Agency
Iain McGlinchy – Ministry of Transport
Sudha Rao – Ministry of Transport
Travis Ancelet – Ministry for Environment
Jackie Le Roux – Ministry for Environment
Ian Baggott – Energy Efficiency and Conservation Authority
Liz Haisted – Auckland Transport
Carl Chenery – Auckland Transport
Lauren Simpson – Auckland Council
Shanju Xie – Auckland Council
Guy Coulson - NIWA
Ian Longley - NIWA
Elizabeth Somervell – NIWA
Jeff Bluett – CASANZ Transport SIG (Golders)
Gerda Kuschel – Emission Impossible
Jayne Metcalfe – Emission Impossible
Transport and Environment Knowledge Hub – Emissions Group

The Transport and Environment Knowledge Hub has come into being as a result of the Transport Domain Plan\(^1\) and Research Strategy\(^2\). The Emissions Group of the Hub provides a forum for sharing and collaboration of research and data analysis on transport emissions (harmful and greenhouse gases).


**Transport Emissions Monitoring and Research Workshop:**

**Wednesday 26 July - 9:30 to 12:30 (registration 9 AM)**

The Emissions Group of the Transport and Environment Knowledge Hub, together with the Clean Air Society of Australia and New Zealand (CASANZ) Transport Special Interest Group\(^3\) invite you to the Transport Emissions Monitoring and Research Workshop to be held on Wednesday 26 July – 9:30 to 12:30.

Workshop Objectives

The key objectives of the workshop are to take stock of New Zealand’s transport emission:

1) **Databases:**
   - Identify nationally significant databases (e.g. VEPM, RSD, TRAMS, Road dust)
   - What is the data showing?
   - What are the policy implications?
   - Plan for the stewardship of the existing databases.
   - Identify any gaps in New Zealand’s monitoring programmes and plan to fill.

2) **Research priorities:**
   - What are the research gaps?
   - What are the research priorities?
Workshop Agenda

1. Registration 9:00 to 9:30.

2. Introduction to the Transport Domain Plan and Transport Research Strategy (10 minutes)

3. Aims and objectives of the workshop (10 mins)

4. Database stocktake (1 hour 15 mins)
   - Brief overview presented on each database being reviewed.
     - What is the data showing?
     - What are the policy implications?
   - Facilitated discussion on the value and stewardship of each database
   - Identify any gaps in New Zealand’s monitoring programmes and plan to fill.

5. Research stocktake (1 hour 15 mins)
   - Workshop discussion to:
     - Identify research needs.
     - Prioritise research needs through the Transport and Environment Knowledge Hub’s Triple 4 knowledge development prioritisation framework.
   - Possibly break into groups – for facilitated discussions.

6. Workshop wrap up (10 mins)
   - Agree on key outcomes and action items.
   - Plan next steps.
Great process:
• Clear framework, inclusive and should deliver
  TSIG membership of Emissions Group
• Perfect fit
Emissions workshop yet to deliver the outcomes identifying priority
• Data bases
• Research topics
Adequately Resourced?
Environment and Emissions

- MVR and VFEM [PDF, 565 KB] - Iain McGlinchy, Ministry of Transport (July 2017)
- Databases - Aims and Objectives [PDF, 201 KB] - Jeff Bluett, Golder Associates (July 2017)
- Transport-related air quality monitoring system [PDF, 411 KB] - Camilla Needham, NZ Transport Agency (July 2017)
- Transport-Related Air emissions Inventory Stocktake (TRAINS) [PDF, 544 KB] - Surekha Sridhar and Gerda Kuschel, Emission: Impossible (July 2017)
- Research in progress (NZ) [PDF, 731 KB] - NIWA (July 2017)
- Recommendations from the On-Road vehicle emission monitoring programmes [PDF, 107 KB] - Jeff Bluett, Golder Associates (July 2017)