



# Engaging internationally



## Why?

- ▶ Learning from international experience
- ▶ Access to international research community and experts
- ▶ Pooling research efforts into areas of common interest
- ▶ Raising New Zealand transport research profile

## Who?

- ▶ International Transport Forum (ITF/JTRC/OECD)
- ▶ Austroads research programme (with and through the NZ Transport Agency)
- ▶ ANZSOG
- ▶ IRTAD

# International Transport Forum, OECD



The transport policy related work of the ITF is through three channels:

- ▶ Annual Summit
- ▶ Research Centre
- ▶ Corporate Partnership Board

*A unique platform for a global conversation on strategies for transport in the 21st century*



**Ministerial Session**  
*Ministers of Transport from 54 member countries*



**Opening Plenary Session**  
*Transport for a Changing World, Summit 2014*

# 2015 Summit: Transport, Trade and Tourism



- ▶ At the 2014 Summit in May, New Zealand assumed the role of President of the Forum
- ▶ New Zealand needs to meet a range of responsibilities at the 2015 Summit
- ▶ Two Ministry of Transport staff members seconded to assist with the development of the 2015 Summit programme.
- ▶ One Ministry of Transport staff member seconded to assist with the Joint Transport Research Centre (JTRC) research programme.

# ITF/JTRC research programme (1)

## Roundtable projects (8 per year)

### Format

- ▶ External expert reports plus a synthesis report by JTRC/ITF

### Examples

- ▶ Ex-post assessment of transport investment and policy interventions (Sept 2014)
- ▶ Renegotiation of PPPS for transport infrastructure (Oct 2014)
- ▶ Measuring Railway Efficiency (Nov 2014)
- ▶ Road safety policy (Dec 2014)

# ITF/JTRC research programme (2)

## Working group projects (4 per year)

### Format

- ▶ Working group report by country internal experts

### Examples

- ▶ Infrastructure adaptation to climate change and severe weather
- ▶ Incorporating climate effects in transport appraisal
- ▶ Liberalisation of Air Transport
- ▶ Effectiveness and Implementation of the Safe System Approach to Road Safety
- ▶ Public Transport Planning, Coordination and Funding

# ITF/JTRC research programme (3)

## Short-cycle projects

### Format

- ▶ Country specific policy analysis funded by country that initiated the project

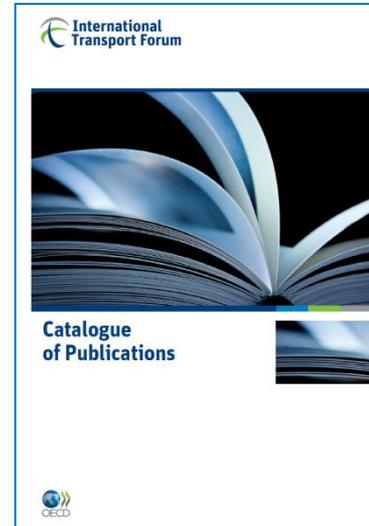
### Examples

- ▶ France's Appraising transformation projects (Grand Paris Express)
- ▶ Korea's Airport demand forecasting
- ▶ Mexico's Air service agreements and antitrust immunity
- ▶ Finland's Provision of public transport services in areas of low density demand
- ▶ Sweden's Intelligent access to infrastructure for heavy trucks

# Incorporating climate effects in transport appraisals

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QUOTE OR CITE THE  
CONTENT OF THIS  
PRESENTATION.

International Transport Forum,  
OECD research report  
(Forthcoming, early 2015)



# Three inter-related research questions

- ▶ How to determine the value of carbon emissions?
- ▶ How to account for long-term uncertain climate effects in transport appraisal?
- ▶ How can discount rate account for risk and uncertainty?

# Key take away messages



- ▶ Uncertainty is different from risk – risk can be characterised by an objective probability distribution but it is not possible to do so for uncertainty
- ▶ Risk, uncertainty and discount rate all affect carbon value
- ▶ Some climate effects are subject to high level of uncertainty
- ▶ There are techniques to deal with risk (e.g. risk-adjusted discount rate and sensitivity analysis)
- ▶ There is currently no robust method to treat uncertainty – but models are being developed in this area
- ▶ In the interim, decision-makers should be provided with a separate uncertainty analysis to explain the effects of uncertainty on costs and benefits of interventions