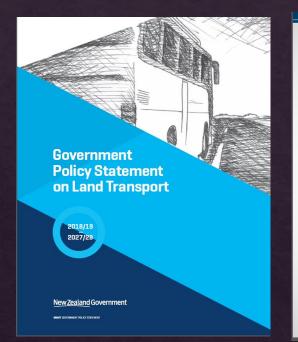
Investing for Sustainable Transport







smarter**travel >>>** A Sustainable

Transport Future

A New Transport Policy for Ireland 2009-2020

Nadine Dodge

NZCSC seminar 15 June 2017





Acknowledgements

- Grant form MBIE (International Relationship fund)
 A
- From budget NZ-European Union 'FRIENZ ' n-European research collaboration
- ♦ Grant leader A/Prof Ralph Chapman, VUW

Outline

Emission reduction goals for transport
Emission trends
Economic evaluation frameworks
Investment trends
Active transport
Summary

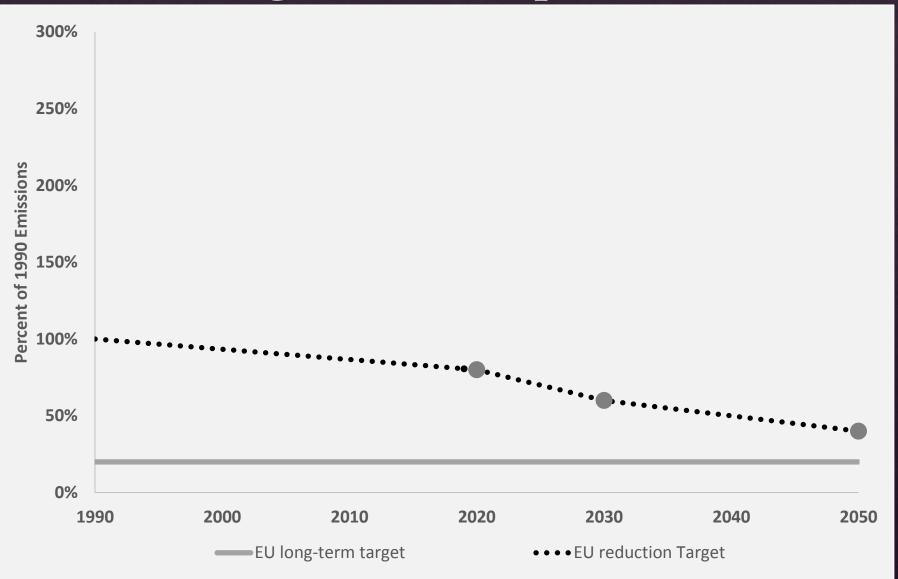
Central government & emission reductions from transport

Set goals and strategic direction

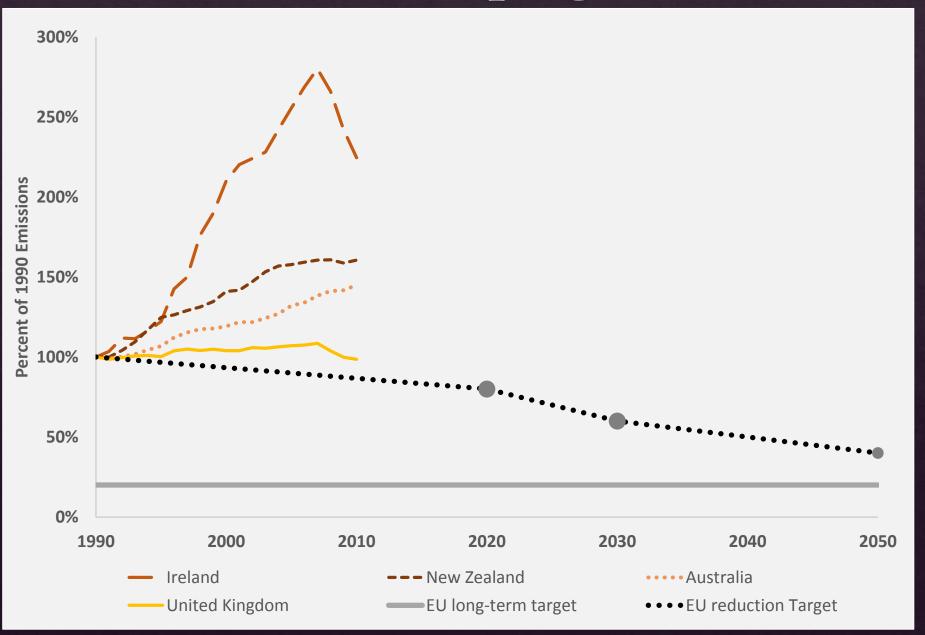
 Increasing emphasis on side effects and cobenefits of particular transport modes

♦ Investor – to varying degrees

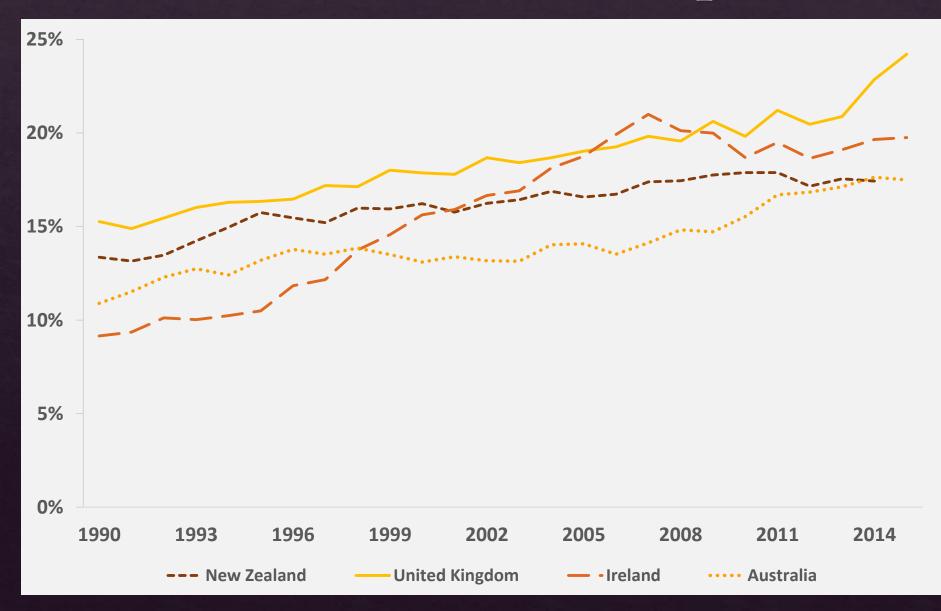
EU reduction goals for transport sector



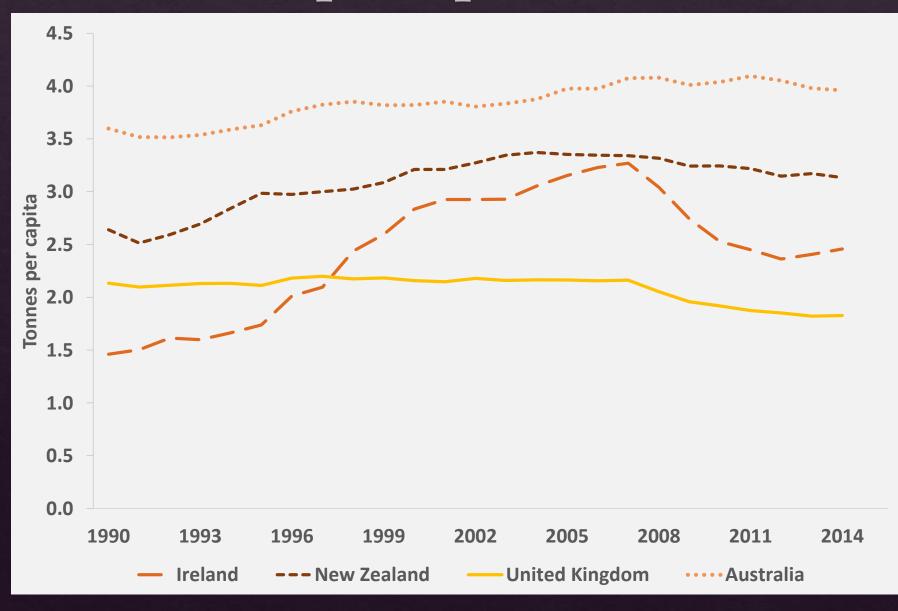
Emission reduction progress



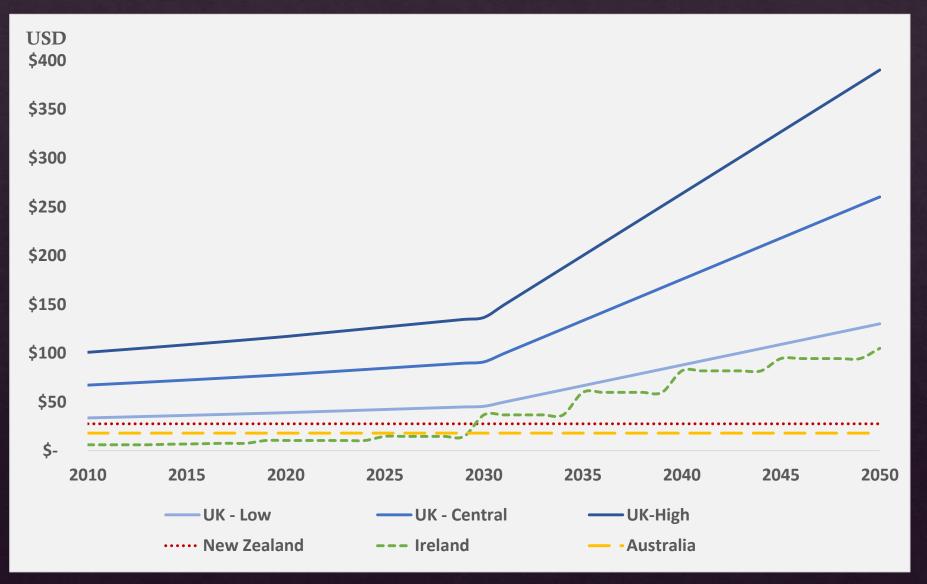
% of emissions from transport



Emissions per capita



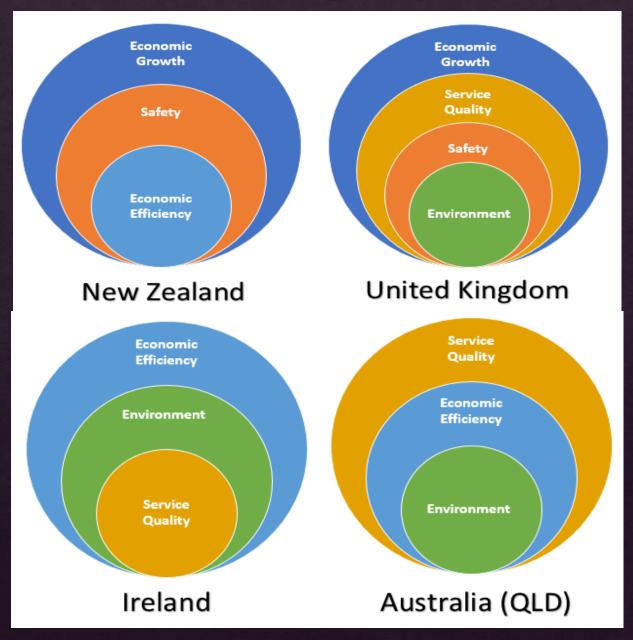
Carbon prices used in transport appraisal



Cycling benefit values

Country	Mortality Reduction	Morbidity Reduction	Health Care Cost Saving	Absenteeism Benefit
New Zealand	\$1.30 per km	n/a	n/a	n/a
Australia (QLD)	n/a	n/a	n/a	n/a
Ireland	Reduce by 22%	n/a	n/a	Reduce by 6%
UK (England)	Reduce by 22%	n/a	n/a	Reduce by 6%

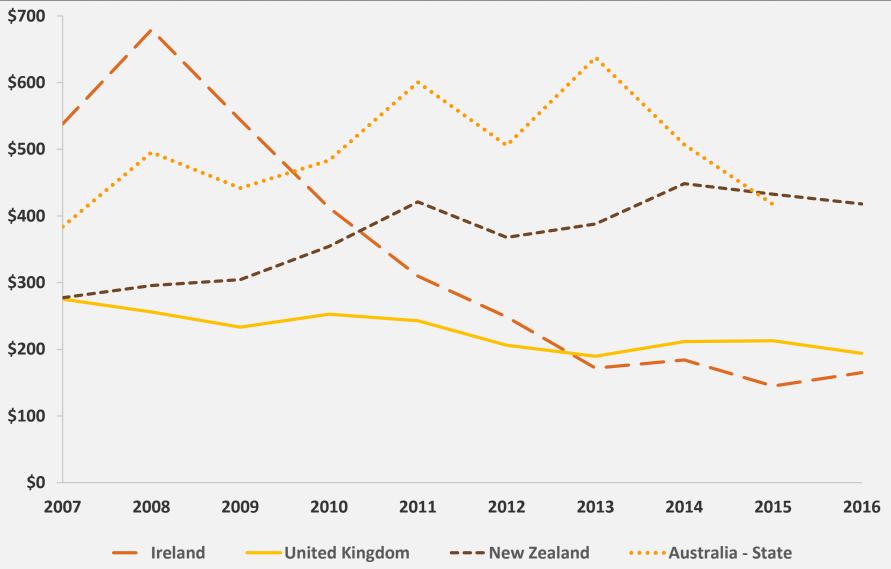
Primary transport objectives



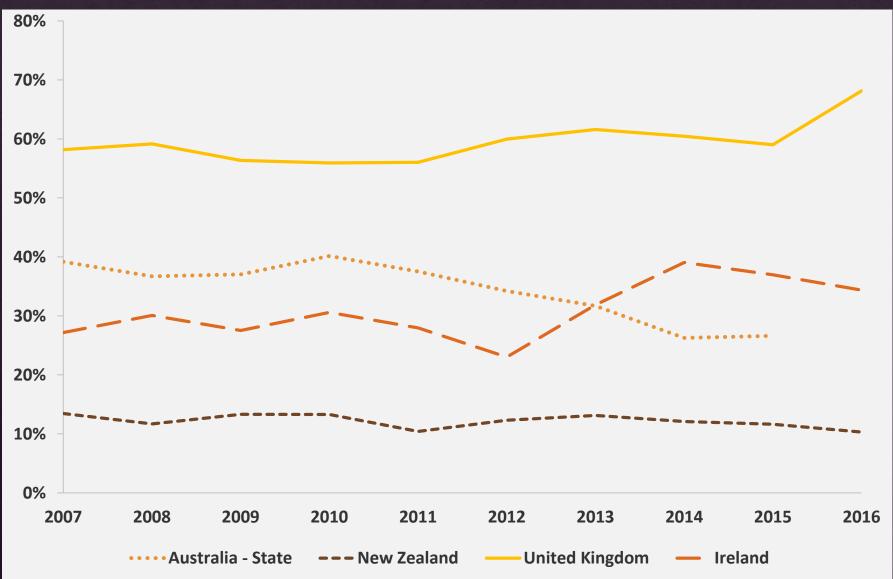
Transport objectives - roads

New Zealand	 Direct funding towards priority initiatives, particularly the Roads of National Significance.
United Kingdom	
Ireland	 Car commuting to reduce from 65% to 45% by 2020. Total kilometres travelled by car not to increase
	significantly.
Australia (QLD)	 Meet 'towards zero deaths on Queensland's Roads' targets.
	 Develop inland freight corridor and move freight from road to rail.

National capital spending on road transport (USD per capita)



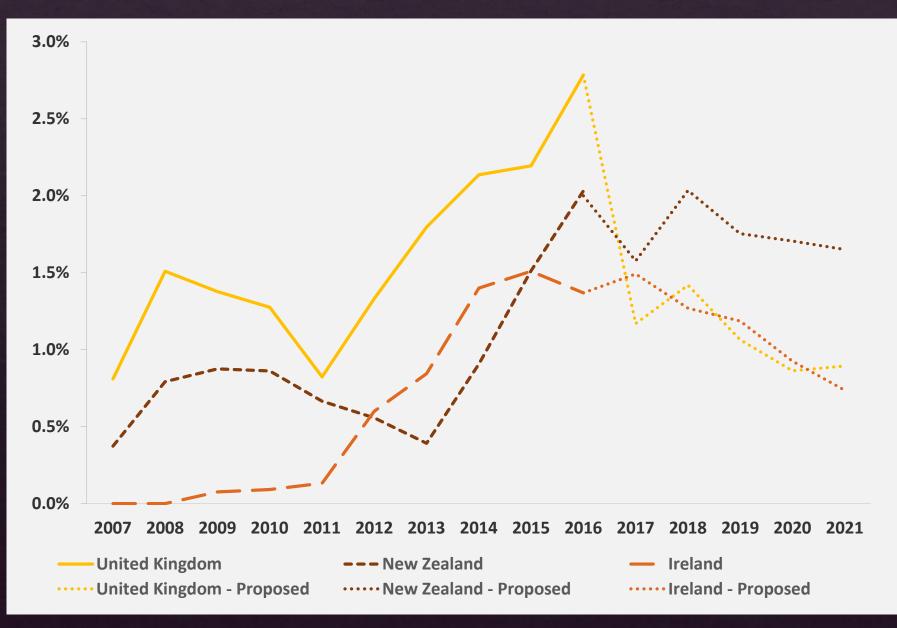
% of capital expenditure on sustainable modes



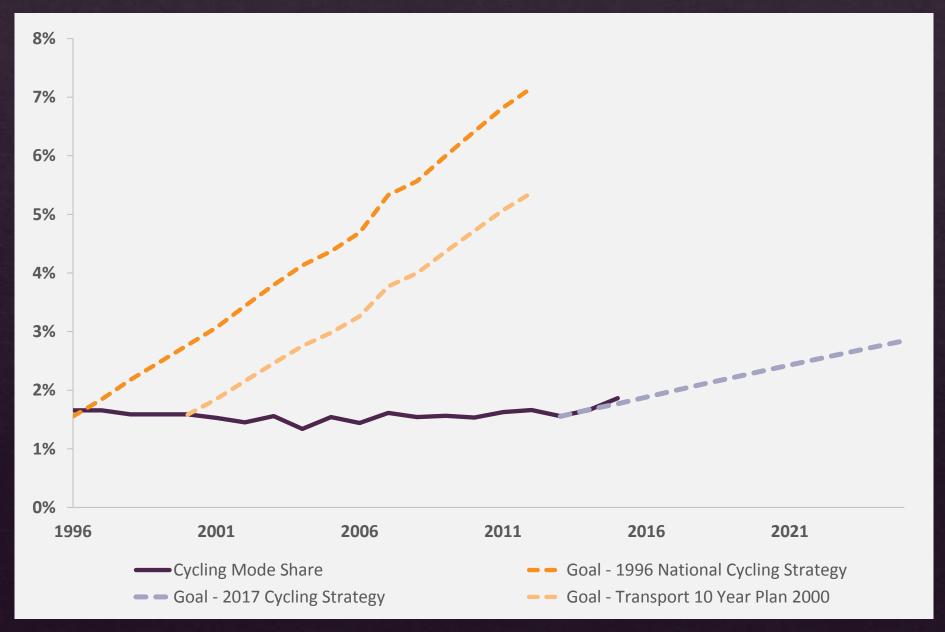
Transport objectives - Active

New Zealand	 Increased safe cycling through improvement of cycle networks.
	 Double the number of journeys made by bicycle by 2025.
United Kingdom	 Reduce rate of cyclists killed or seriously injured
	 Reverse the decline in walking per person
Ireland	 Cycling commuting to more than quadruple. Cycling to increase from 2% to 10% of all trips by 2020.
Australia (QLD)	 Cycling's share of commute trips doubles by 2021 and triples by 2031. Improve the accessibility of active transport.

Active transport - % of spending



UK – cycling mode share & goals



Transport objectives – PT

New Zealand	 Increased provision of public transport to increase productivity, if justified by demand.
United Kingdom	 Improve access to public transport. Improve journeys so that they are simpler, faster, cheaper, and more reliable.
Ireland	 Public transport commuters to increase by 230,000 by 2020.
Australia (QLD)	 Improve the accessibility of public transport.
	 Improve access to real-time transport information.

Summary

- Transport emissions are a significant challenge for developing countries
- Transport objectives vary widely
- In case study countries, AT investment has increased but remains relatively low
- ♦ NZ is an outlier high roading investment
- WK offers useful case study for transition towards sustainable modes
 - ♦ Goals can be difficult to achieve

Thanks. Questions?