

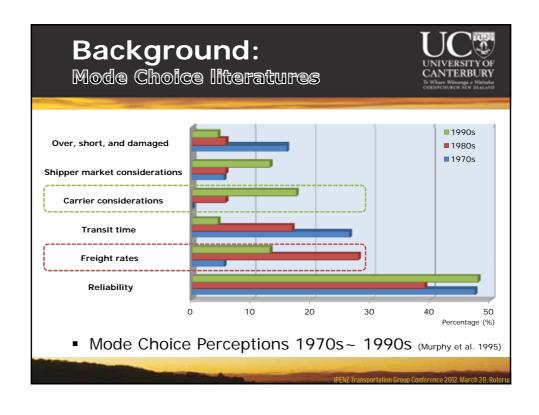
NZ Freight patterns



- Changes in the <u>shape of products</u> being transported and <u>logistics patterns</u> of firm
- 67% of NZ manufactures outsourced logistics services*
 - The <u>common outsourced</u> services: Outbound transportation(79%), Warehousing(53%), and Shipment consolidation(48%)

Sources: *Zhang (2009)

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Background: NZ Studies



- Freight Mode Choice Studies in NZ
 - the National Freight Demand Study (NFDS: Richard Paling Consulting, 2008)
 - Coastal Shipping and Modal Freight Choice (Rockpoint, 2009)
 - the Gisborne to Napier Coastal Shipping Study (Warwick Walbran Consulting, 2010)

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Study Questions



- What is the use of road transport fleet and the nature of the relationships with carriers?
- What service attributes do shippers use to select transport mode(s) and which attributes are most and least important?
- What are the shipper's perceptions of rail and sea shipping?
- What are the differences in the total logistics cost between business types?

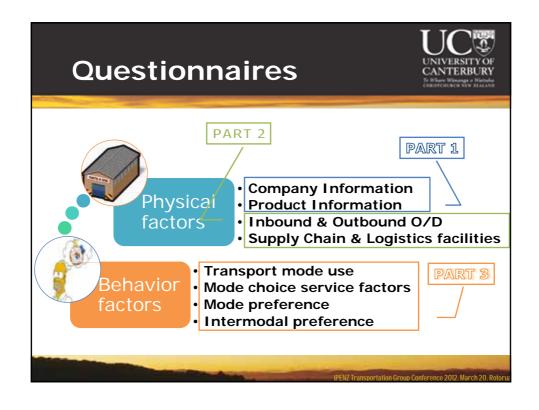
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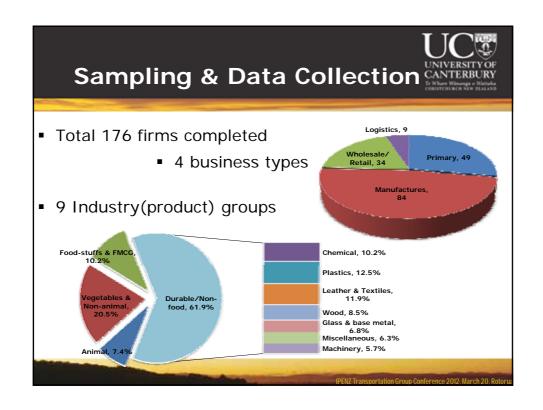
Research Method

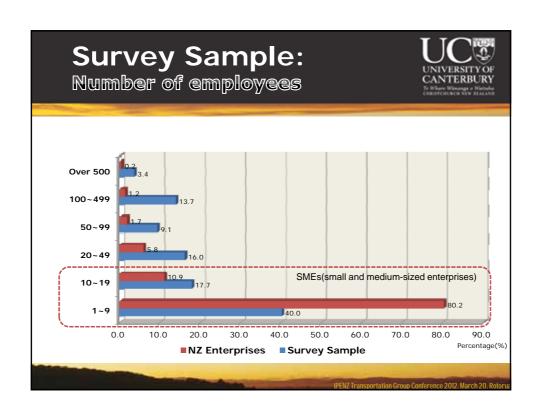


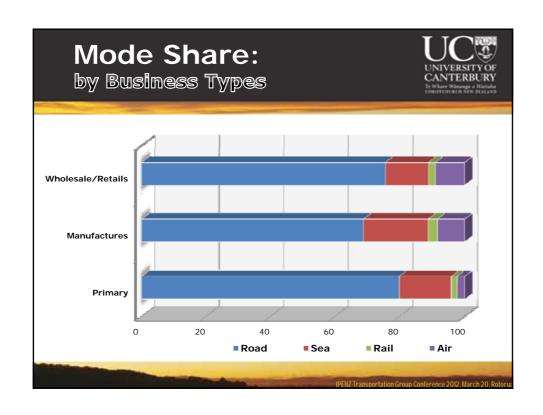
- RP(Revealed Preference) Survey
- Web-based questionnaires
- Survey sample sources: New Zealand Stock Exchange (NZX), Industry association/ groups, and councils
- Invitation sent to 1900 NZ based companies from June ~ September 2011

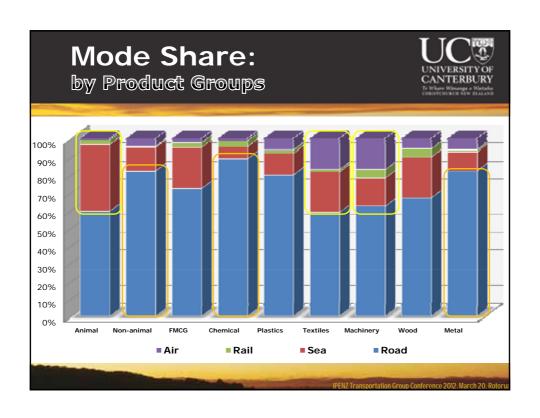
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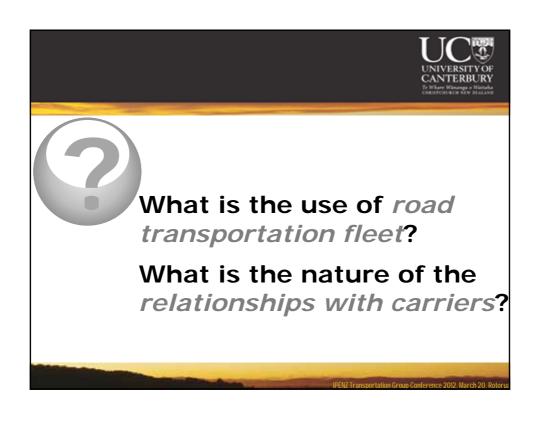


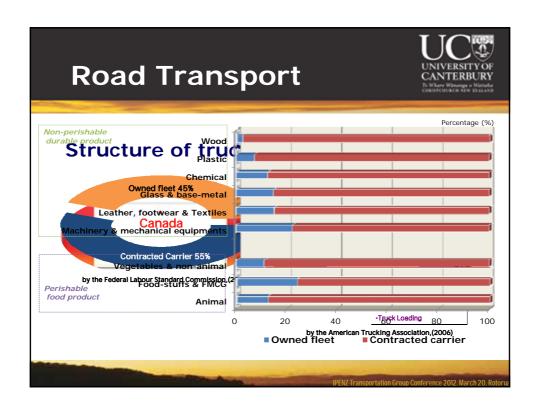




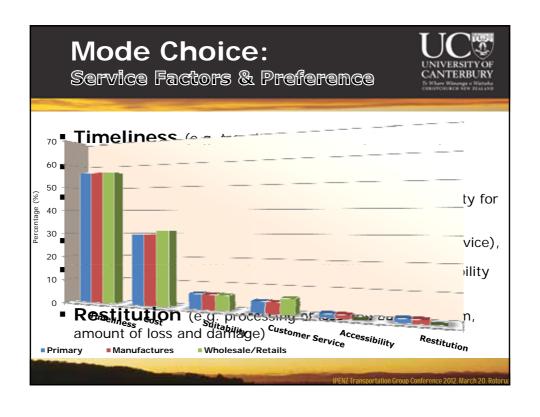




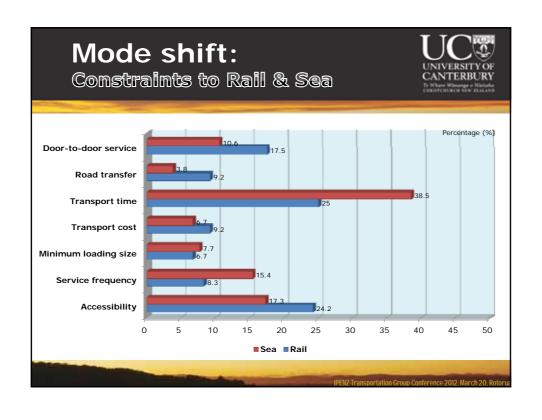


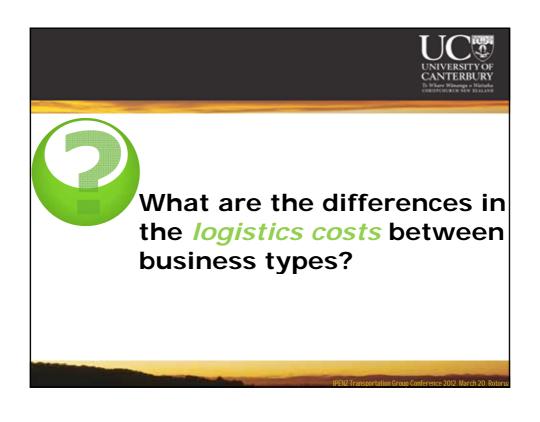


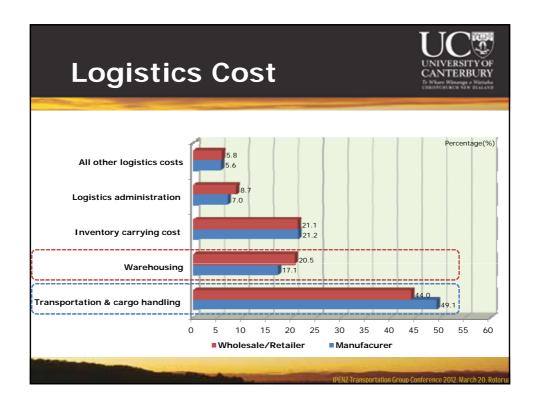












Conclusions



- NZ shippers strongly prefer road transport
- NZ shippers rely heavily on contracted carriers
- There is increased emphasis on timeliness and cost as mode choice factors
- NZ shippers have negative perceptions about transporting goods by both rail and sea in terms of poor accessibility and transport time.
- Wholesalers/retailers spent more on warehousing costs, while manufacturers spent more on transportation costs.

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