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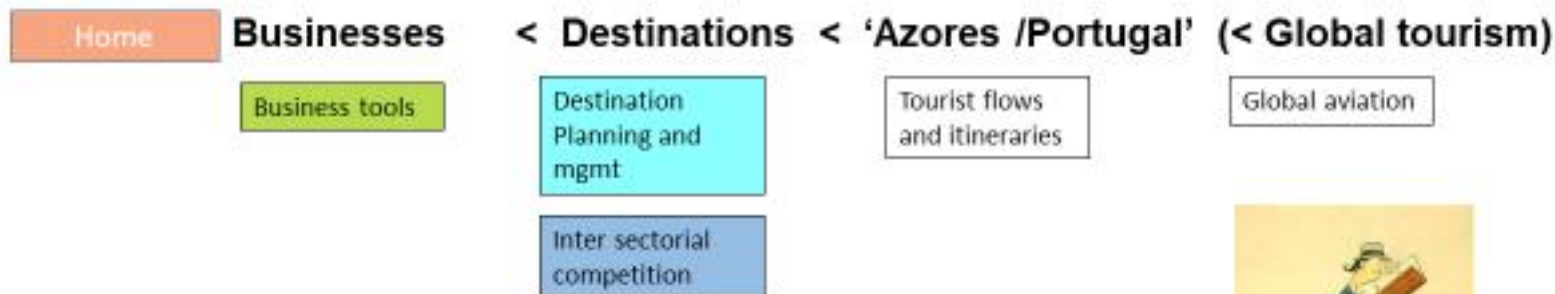
# Is the tourism sector meeting its obligations...

*A provocation ... or science check*

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New Zealand

# Where to focus



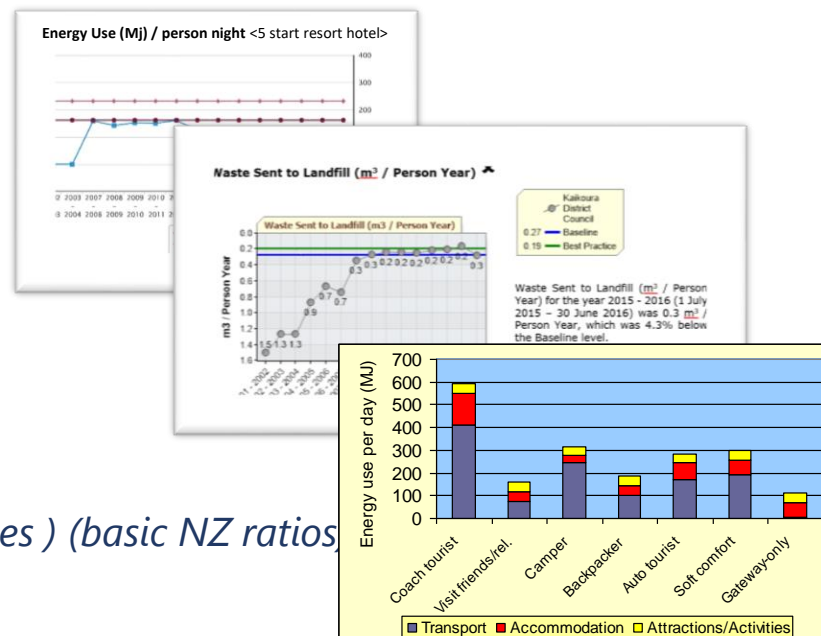


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## We know many lead indicators because of detailed measurements

- *Tourist businesses*

- *Business example (eg EC data base)*
- *Water EC white paper*
- *Destination : Kaikoura example*
- *Tourist Behaviour (Becken (Simmons) studies ) (basic NZ ratios)*



- *International travel*



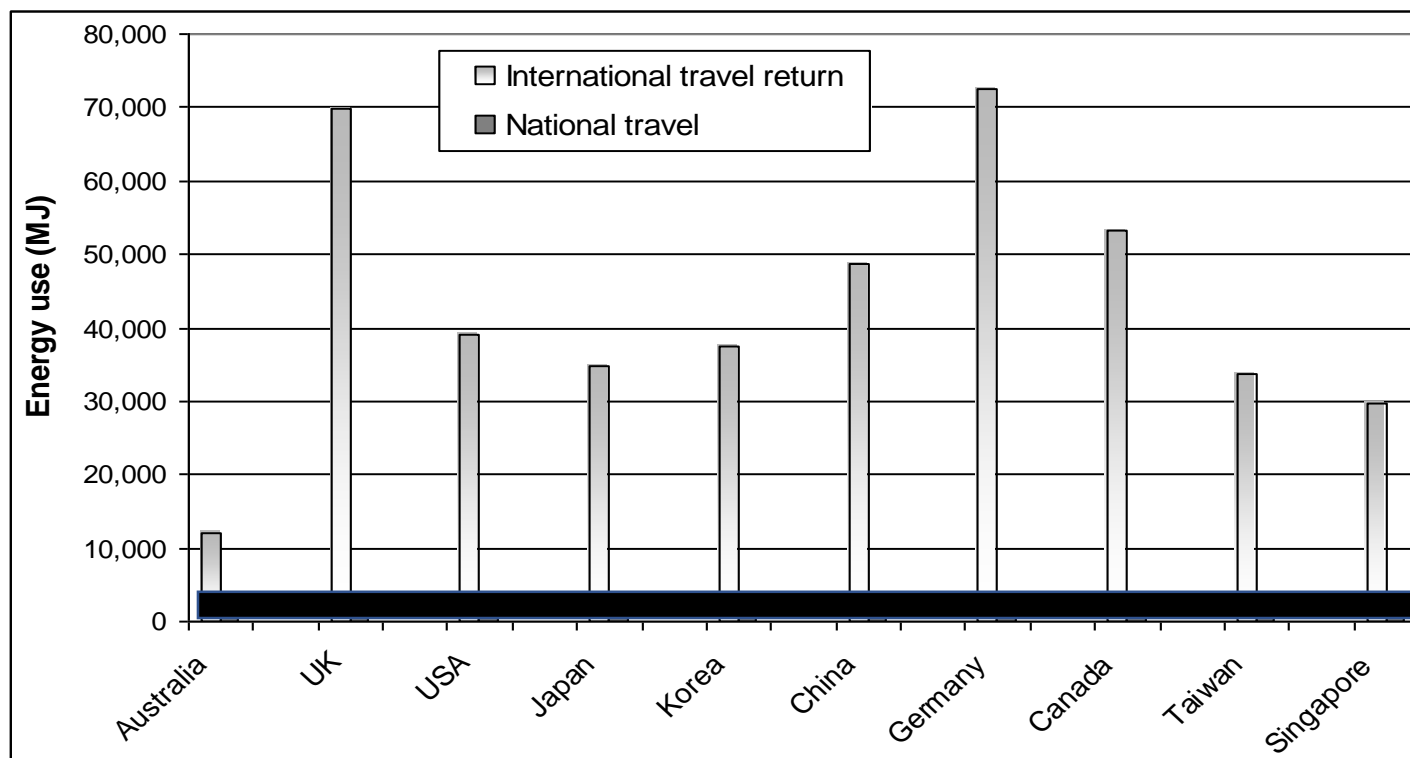
**EarthCheck**

*the planet deserves more than half measures™*

## Addiction to oil! : Energy use in travel to and within NZ

91% of the emissions from tourism in NZ arise from transport

> 70% international, 21% (69% of internal emissions) internal distribution



Becken S., (2008) Developing indicators for managing tourism in the face of peak oil, *Tourism Management* 29, 4, 695 -705.



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## International travel (Aviation)

Author's personal note:

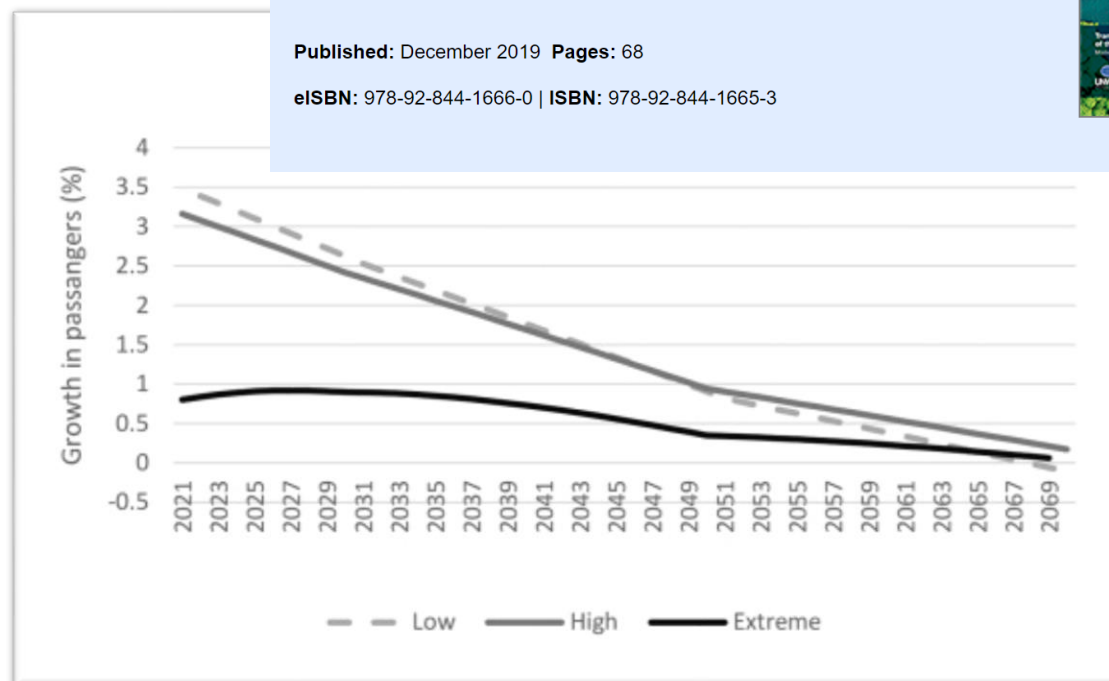
“Growth will slow down for all three scenarios

- (low mitigation, essentially no price on carbon but mounting climate impacts),
- high mitigation (increasing price on carbon and some climate damage), and
- extreme mitigation (very very high price on carbon, and relatively controlled climate impacts)... The best for the long term is actually to engage in mitigation”

### Transport-related CO<sub>2</sub> Emissions of the Tourism Sector – Modelling Results

Published: December 2019 Pages: 68

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Becken and Carmignani (2019) *Are the current expectations for growing air travel demand realistic?* Annals of Tourism Research

# Obligations — are we meeting ours?

- To sustainability
  - > best expressed in UN SDGs
  - > raise serious questions of just development and climate equity
- To a carbon constrained economy
  - > tourism “wine glass” conversations
  - > confusion about net verses gross measures
- To measure AND manage our key inputs AND outputs
  - > energy, water, waste, chemicals (legal and social)
  - > Where are our global tourism scientists!

# In sum : Tourism is NOT doing its bit

- Conversations and science are isolated from other productive sectors and the SDGs
  - NZ tourism more emissions intensive than agriculture  
(GHC(mt) / \$mn Value Add)
- Greater than its proportional share of G GDP
  - (5% emissions, 3.9% G GDP)
- Tourist behaviour is turning against us – individuals (rather than governments) are seeking out their own solutions

The situation is urgent, we must measure to manage, AND engage with the new environmental paradigm