

# Where's the Good Oil?

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# The Good News

- Preaching to the Converted
- Everyone Supports Us
  - Users
  - Future Users
  - Never will users

# The Not So Good News – Energy Supply

- Peak Oil
  - When supply peaks and declines
  - When?
  - 20 years?
  - Next year?
  - Already?
  - Outcome is certain

# The Big Picture – Energy Demand

<b>Population Growth</b>	<b>2007</b>	<b>2030</b>
<b>World</b>	6.5 Billion	10 Billion
<b>China</b>	1.2 Billion	1.271B ? (@ 0.25%pa)
<b>India</b>	1.0 Billion	1.122 B (@ 0.5%pa)
<b>Australia</b>	23.3 Million	Small potatoes

# The Big Picture – Energy Demand

- World population 2030
  - 10 Billion
  - Comparatively few in the world have cars
  - India has a new car for \$2,000
  - Implications ?
  - and why shouldn't everyone consume like us?

# The Big Picture – Energy Pricing

- Supply declining
- Demand increasing (dramatically)
- Result
  - Oil now over \$103 US / barrel
  - Now \$1.45/Ltr
  - \$5.00/Ltr?
  - \$10.00/Ltr?

# The Big Picture – Energy Impacts

- Global Warming & Garnaut Report

Growth in carbon dioxide (CO<sub>2</sub>) emissions from fossil fuel burning and industrial processes has lifted markedly in the early twenty first century. These emissions grew at only 1.1 per cent a year on average from 1990 to 1999. They increased at 3.1 per cent per year from 2000 to 2006.

# Overwhelming n'est pas?

- 30% less Greenhouse / person km than cars
- Train infrastructure cheaper than roads
  - 6 lane rd tunnel = \$200 M / km = 13 k people/hr
  - 2 track tunnel = \$350 M / km = 40 k people/hr
- Train trips cheaper than car travel
  - Train = \$0.35 / person / km
  - Car = \$0.60 / person / km (excl parking)

# What To Do?

- Get people out of cars
- Train patronage up by 35% since 2001 (overcrowding now a problem)
- Meeting Our Transport Challenges (\$10.5 B)
- New Rolling stock ordered
- Timetables amended = more services
- Free travel before 7.00 am Trial

# Making Melbourne Sustainable

- Director of Public Transport a Referral Authority
  - Avoid constrictions & increase speeds
    - One more signal = death of 1000 cuts
    - Road widths for buses
  - Connectivity – walking & cycling
  - Car parking supply “the right” amount
  - Increase densities – take the lead

# What It Means For You

- Help us help you
- Let's talk about what we both need
- You plan to accommodate us
- Make your development PT “friendly”
- Shouldn't a referral authority support you?