



Australian Government

Department of Infrastructure, Transport,
Regional Development and Local Government
Bureau of Infrastructure, Transport and Regional Economics

BITRE Colloquium 2009
*Infrastructure for the
nation's future*
18-19 June

Improving public transport in Australia's cities: Infrastructure issues and options

Session 7: Introduction

Long-term Trends in Urban Transport
David Cosgrove

Urban Public Transport (UPT):

- Past trends...
- Possible futures?



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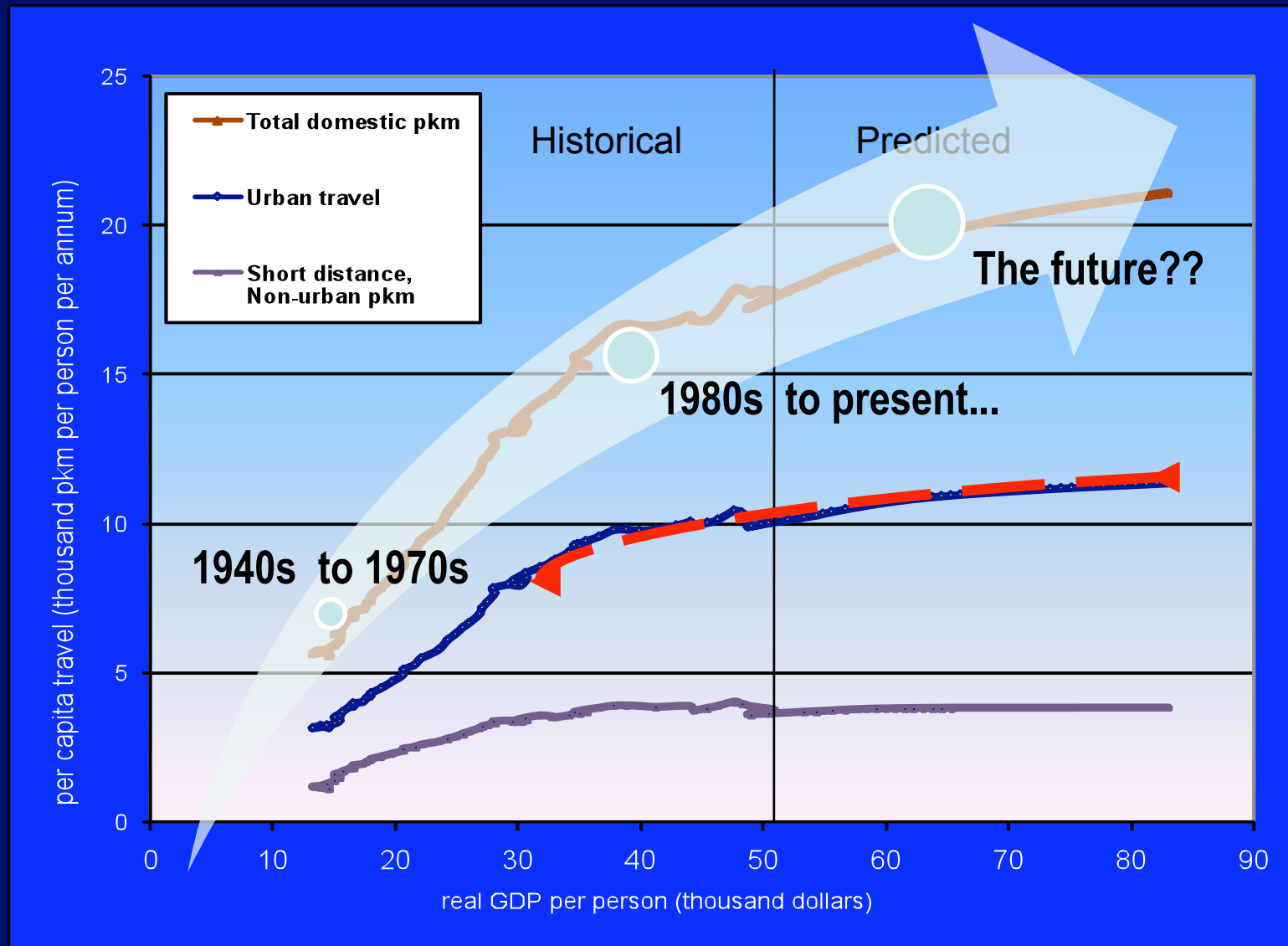
Bureau of Infrastructure, Transport and Regional Economics

Shaping urban transport activity trends:

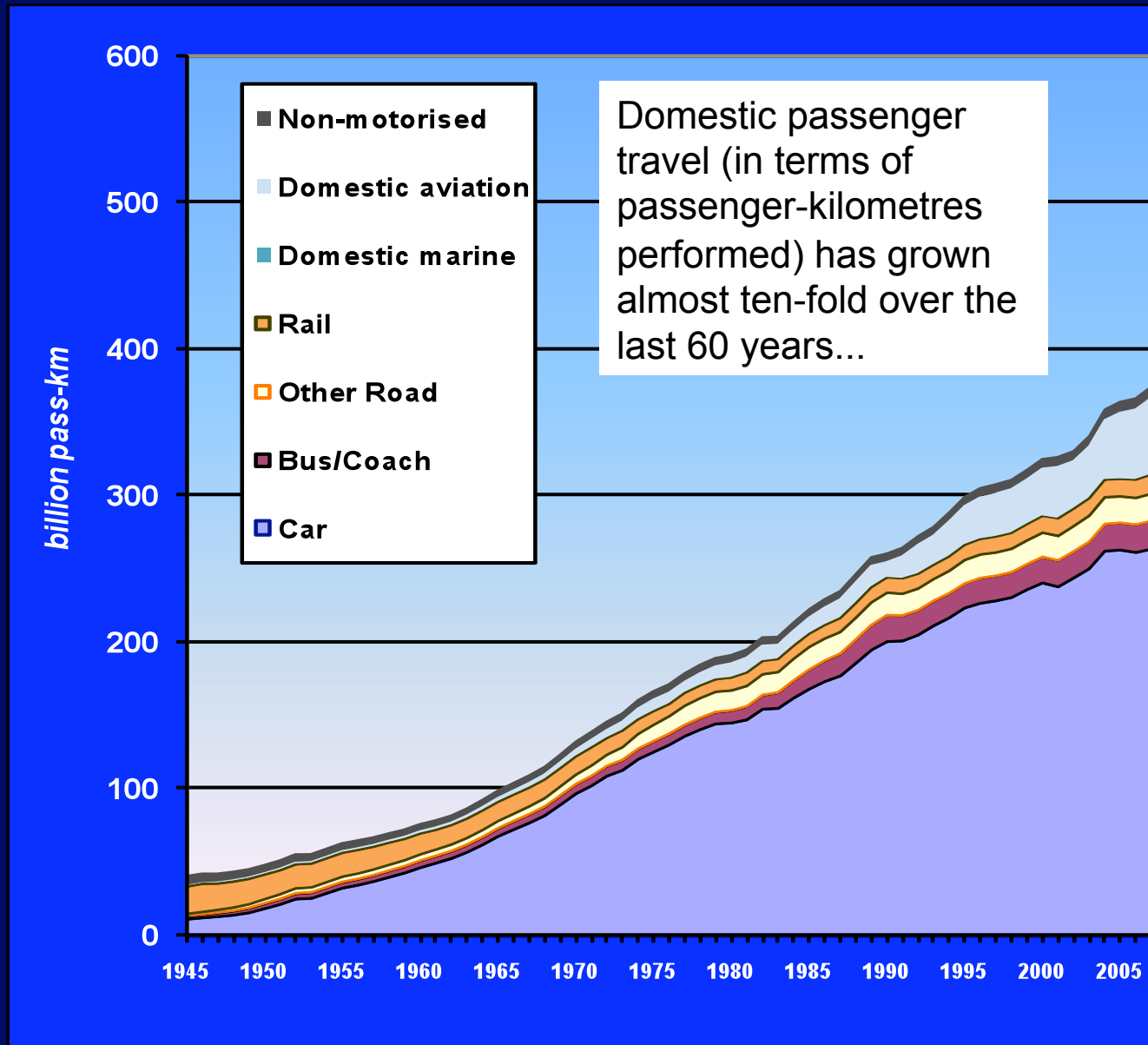
- Population, demographics and land-use
- Income levels and travel affordability
- Costs - fuel prices, UPT fares, vehicle prices...
- Comfort, reliability, traffic congestion levels...
- The infrastructure and technologies available



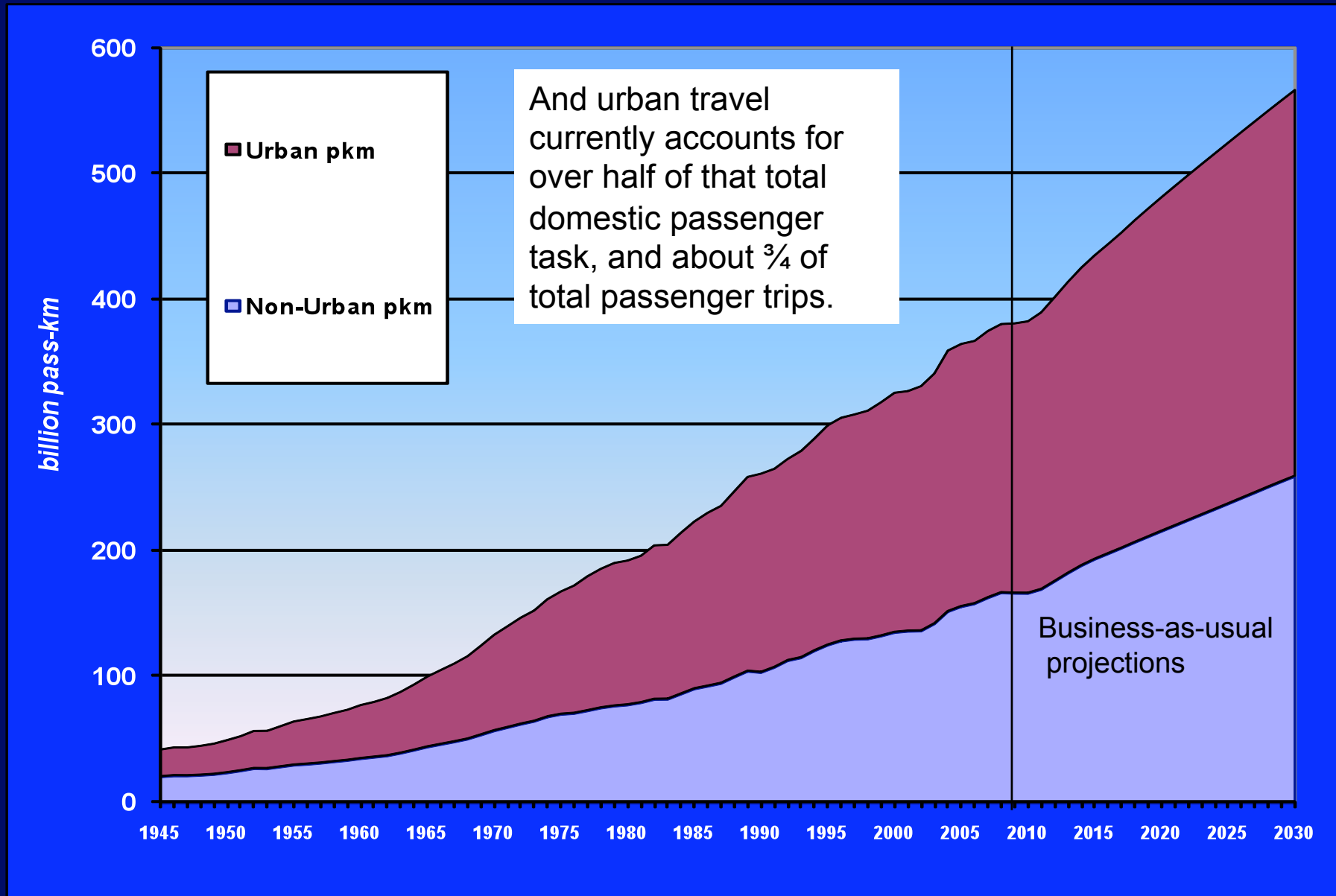
Saturating Relationships for Per Capita Travel, Relative to Per Capita Income



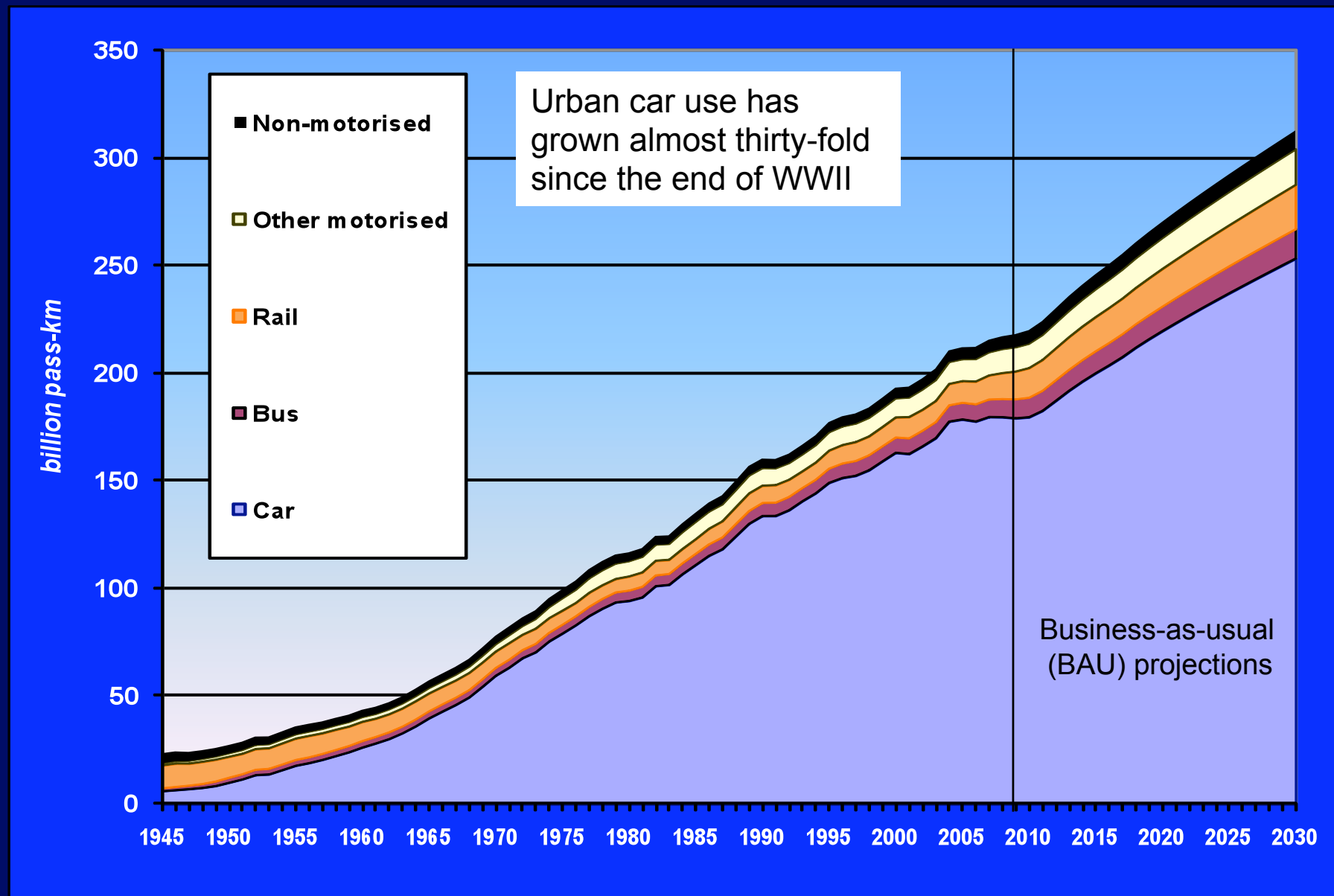
Total Australian Passenger Task, 1940s on...



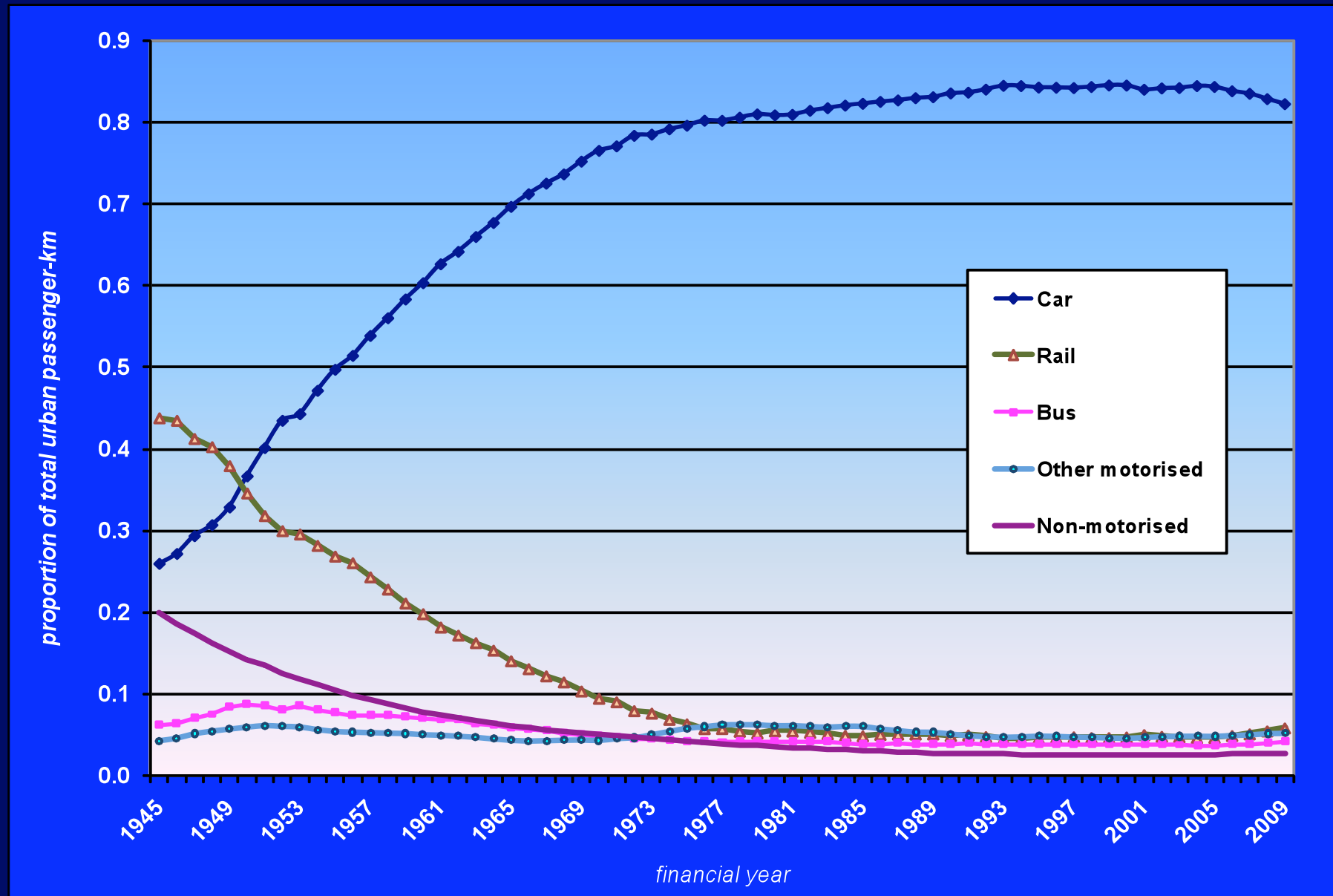
Total Australian Passenger Task, 1940s on...



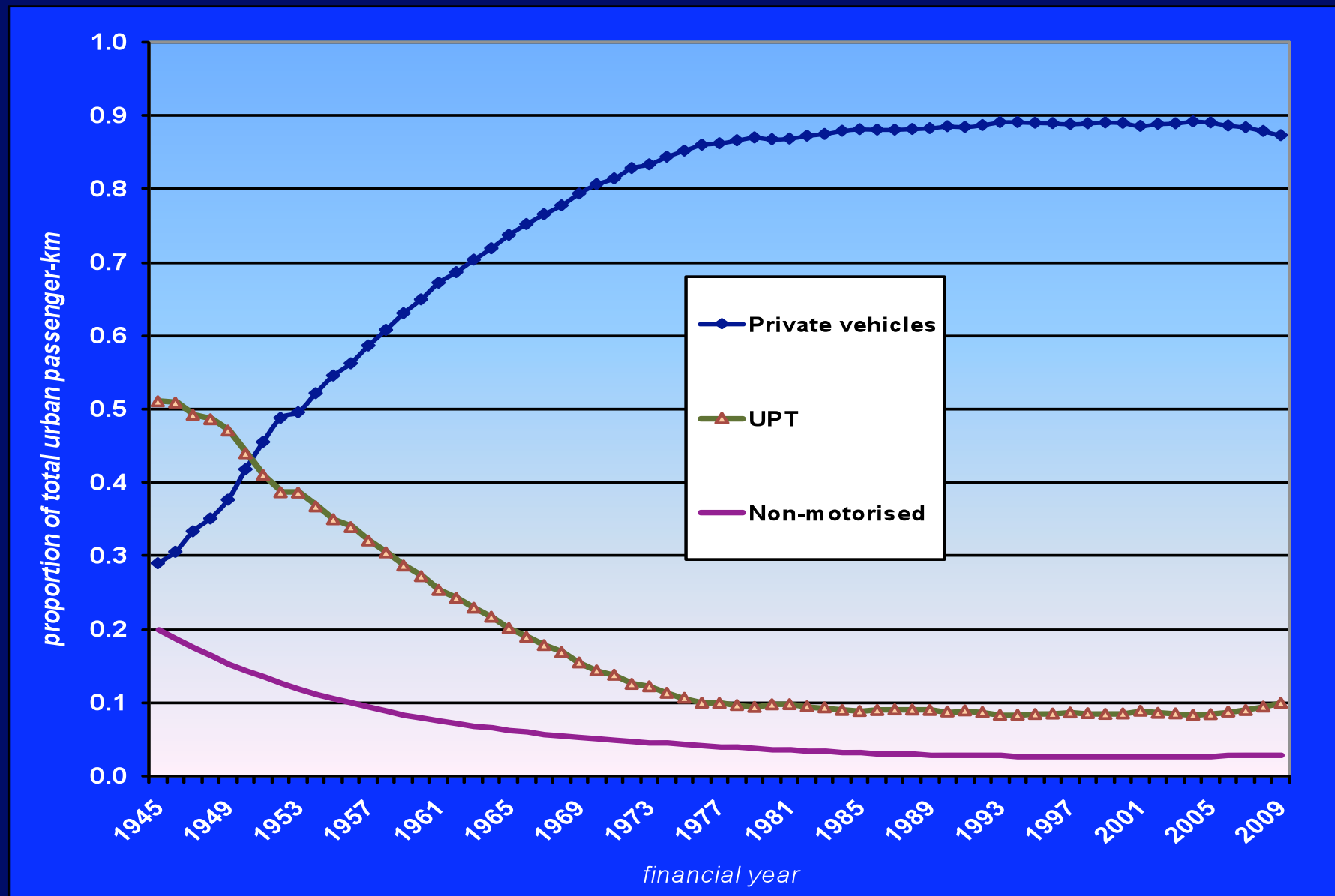
Looking at the trends in Urban Transport in more detail:



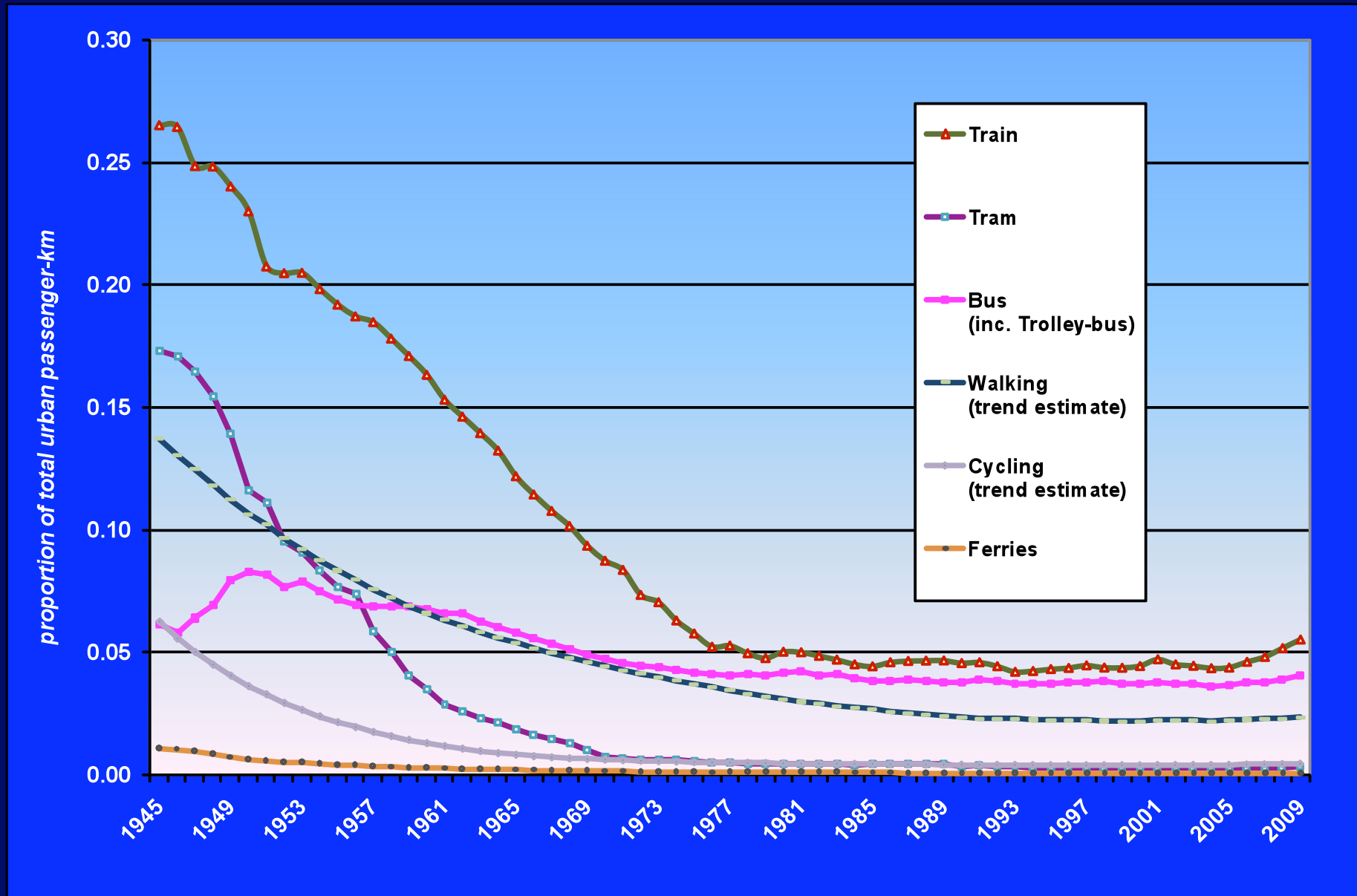
Modal split of urban transport task



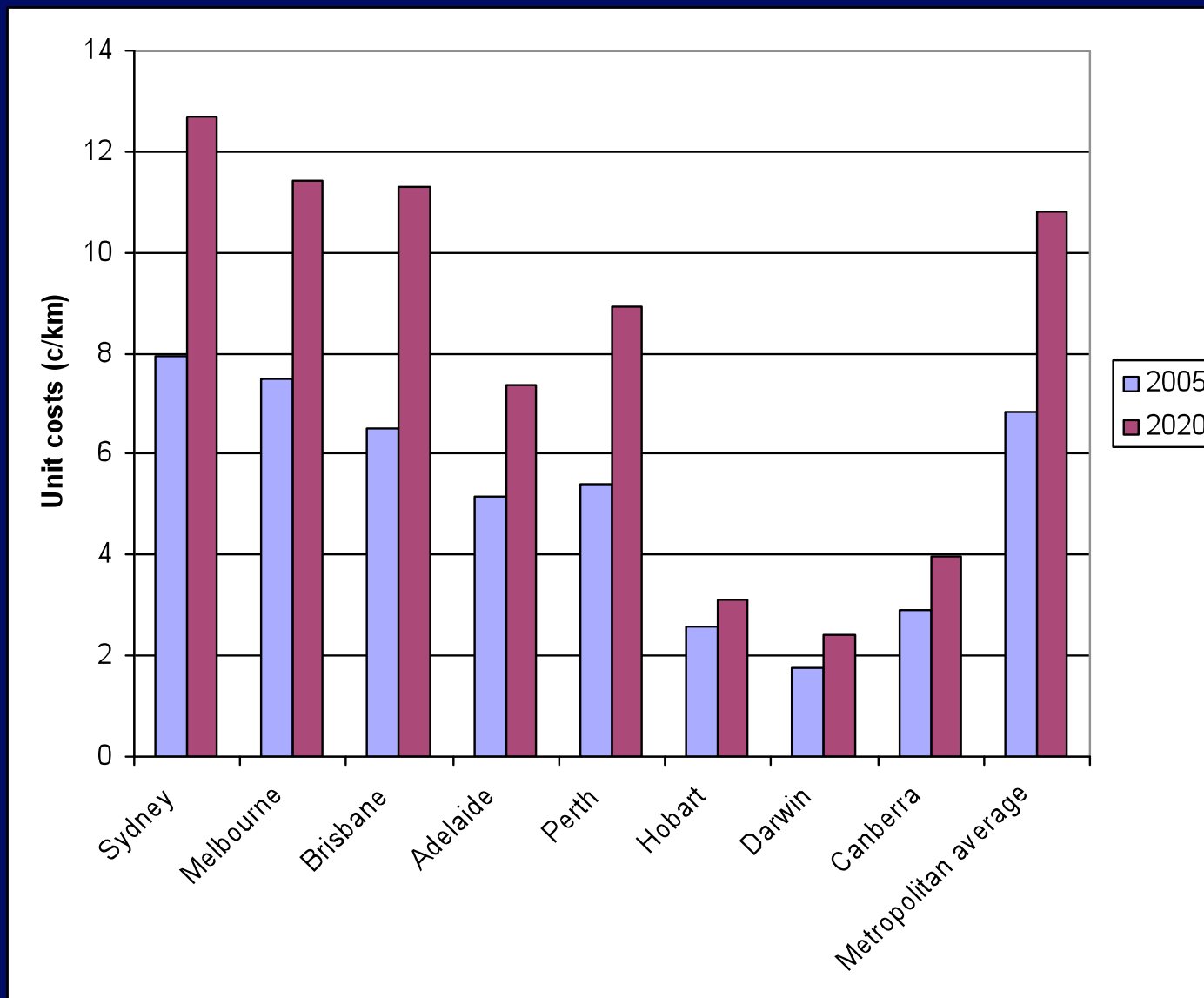
Modal share for aggregate UPT



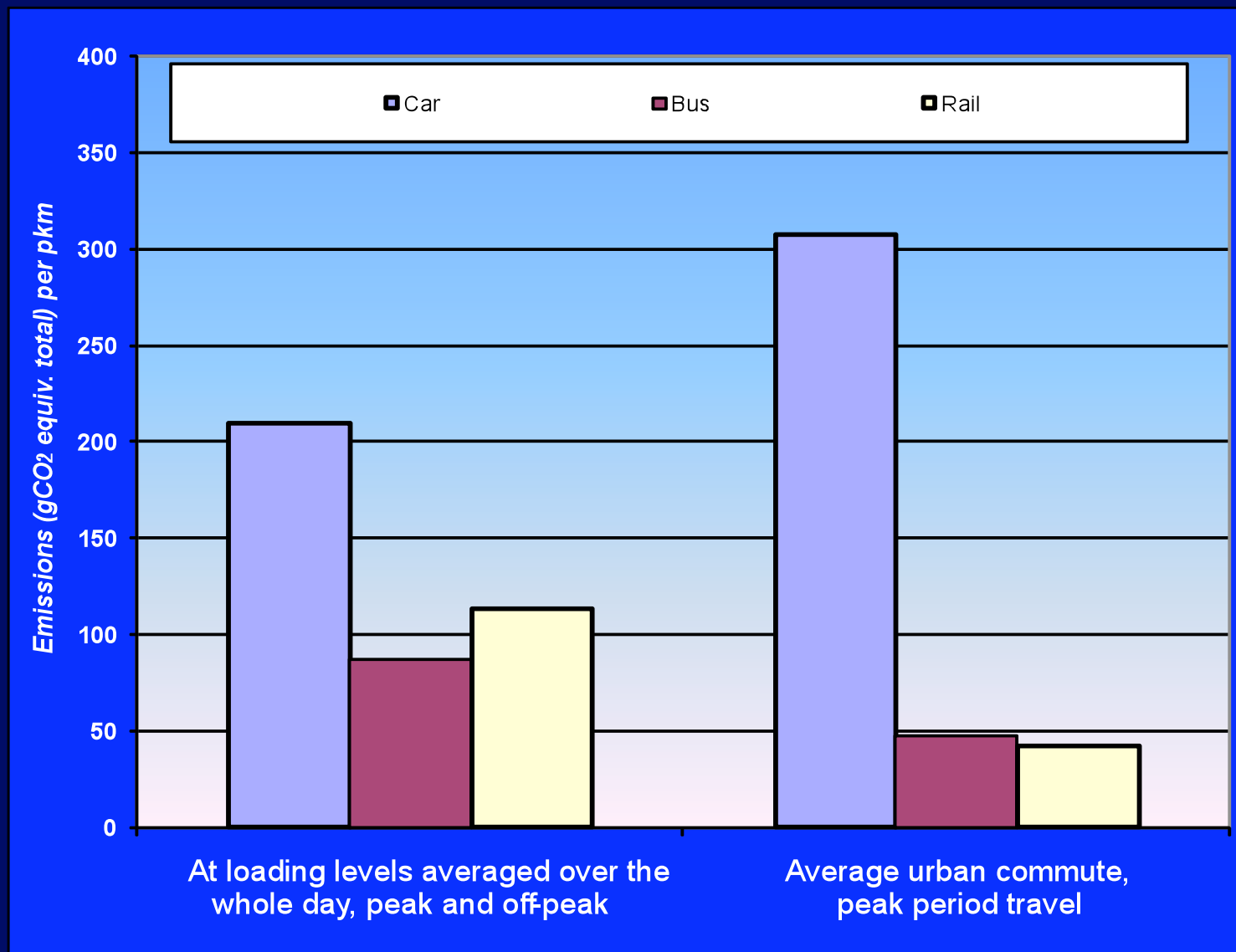
Historical detail in *non-car* modal share trends:



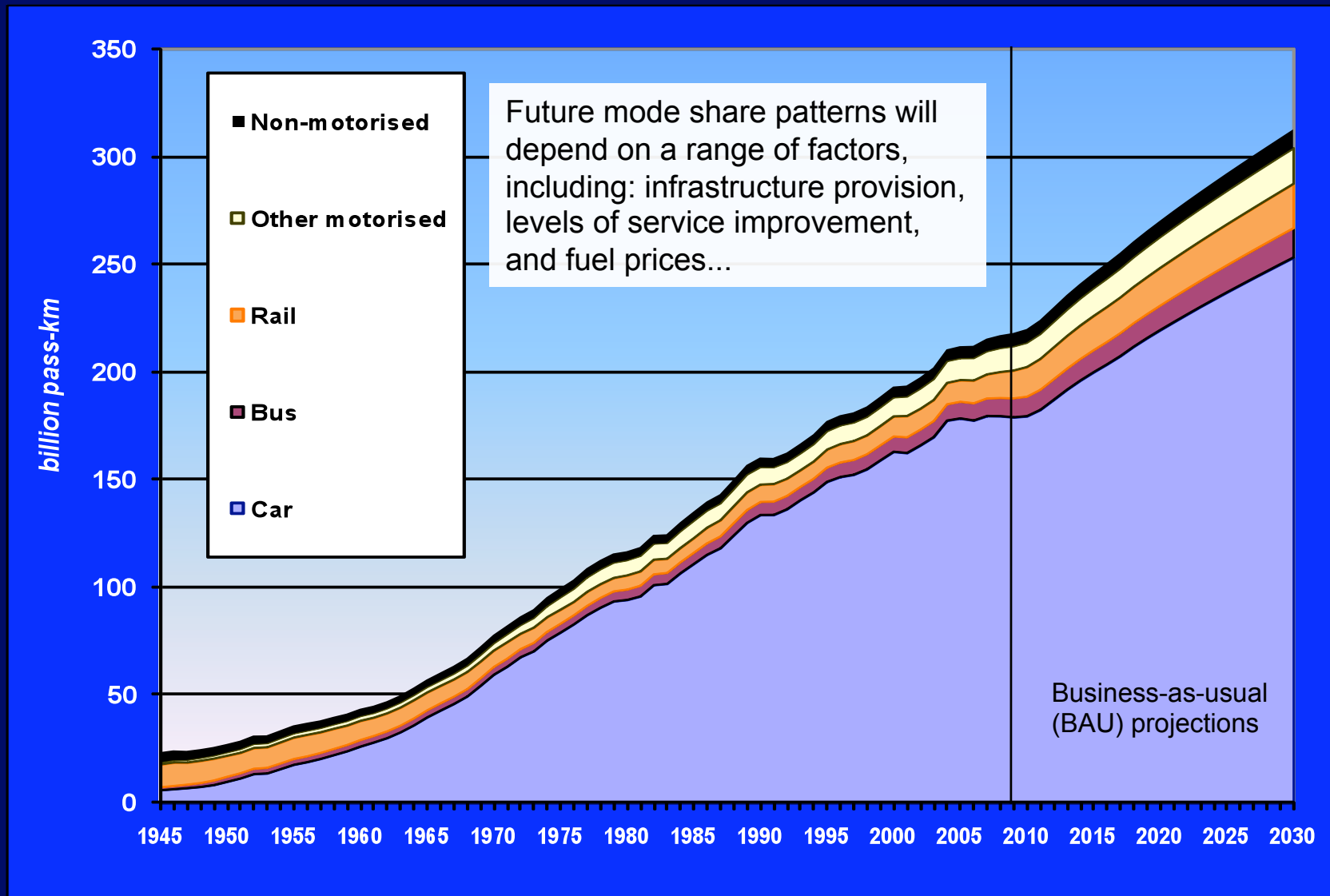
Congestion could worsen over the medium-term...



Current average fleet emission intensities



How large a role will UPT be able to play in helping to manage future increases in demand?



References and further reading from BITRE:

- ❖ BITRE (2009), Information Sheet 31, *Urban Passenger Transport: How people move about in Australian cities*
- ❖ BITRE (2008), *Modelling the Road Transport Sector*
<http://www.btre.gov.au/info.aspx?ResourceId=681&NodeId=111>
- ❖ BTRE (2007), Working Paper 71, *Estimating urban traffic and congestion cost trends for Australian cities*
- ❖ Cosgrove, D.C. & Gargett, D. (2007), *Long-Term Trends in Modal Share for Urban Passenger Travel*, Conference proceedings of Thredbo10: The 10th International Conference on Competition and Ownership in Land Passenger Transport, August 2007





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