



bitre RESEARCH PROGRAM

The Bureau of Infrastructure, Transport and Regional Economics provides economic research and statistical information on Australian infrastructure, transport, cities and local government and regional development, to inform both Australian Government policy development and wider community understanding. Dissemination of research results and statistical information contributes to better informed public debate on portfolio issues.

BITRE's program comprises: economic research, involving individual projects that may be of less than a year to multi-year in duration and include forecasting and modelling products; and statistical information, which is largely made available through regular, ongoing publication series and database releases.

ECONOMIC RESEARCH

Project title	Primary question
Infrastructure	
R1 Infrastructure delivery models	From Australian and international experience, how do public-private partnerships and other innovative approaches perform in delivering infrastructure and what are the success factors for each approach?
R2 Intermodal terminals: options for enhancing the role of rail	How can we improve planning of, investment in and access to terminals, in light of experience and freight industry economics?
R3 Road impacts of potential mode shift to rail freight	If significant volumes of interstate freight shifted to rail, how would this affect the infrastructure investment needs for the highways?
R4 Aircraft movements at capital city airports: long term outlook	What is the 20 year outlook in aircraft movements at major airports in light of projected growth in demand and expected changes in aircraft type?
R5 Australian sea port activity to 2029-30	What is the long term year outlook for container and bulk traffics through Australian ports?

Cities and Local Government	
R6 AusLink urban corridors: long term outlook	What is the long-term traffic growth outlook for the urban corridors of the AusLink network?
R7 Urban public transport: recent trends	Over the recent period of high fuel prices, how have urban public transport patronage and supply responded?
R8 Capital city residential and employment location trends and commuting patterns	What have been the main spatial changes in major capital city employment and residential patterns over the past decade and how has commuting behaviour responded?
R9 Challenges facing local governments	What are the challenges and demands being faced by the diversity of Australia's local councils?

Senate Standing Committee on Rural and Regional Affairs and
 Transport
Additional estimates 2008-2009
 DEPT OF INFRASTRUCTURE

Tabled document no: 3

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 BITRE

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ECONOMIC RESEARCH

Project title	Primary question
Transport	
R10 Truck productivity: trends and future scenarios	What are the factors that have caused the productivity improvement of the road freight industry and what is the future outlook?
R11 Road and rail freight: competitors or complements?	Where and how do road and rail freight compete with or complement each other?
R12 Australian ports in an international context	How do Australian ports perform against international benchmarks?
R13 Port and rail interface: regulatory and investment strategies	What are the key issues in improving the port-rail interface?
R14 Interstate freight: long term trends and projections	What are the long-term trends in interstate road, rail, sea and air freight?
R15 Evaluation of the Black Spots Program	What was the impact of the 1996-2002 Black Spots program and what are the key learnings?
R16 Cost of road crashes	How has the estimated annual cost of road crashes changed over the past decade?
R17 Freight transport workforce analysis	What are the education/training requirements, labour skills shortages and recruitment and retention issues and possible strategies for the freight transport workforce in the context of a growing freight task? (in consultation with the Department of Education, Employment and Workplace Relations)
Climate Change and Transport	
R18 Greenhouse gas abatement and transport: economic impact of emissions trading scenarios	What are the future economic and emissions impacts of emissions trading, with particular reference to the transport sector? (joint project with Treasury)
R19 How do transport fuel use and emissions respond to price changes?	How responsive are transport fuel use and emissions to price changes?
R20 Transport mode shift and greenhouse gas abatement	What are the success factors for greenhouse gas abatement from mode shift, eg from private car to public transport?
R21 Greenhouse gas emissions for Australian transport: year 2007 projections to 2020	What is the outlook for greenhouse gas emissions from the transport sector?
R22 Transport energy futures: new technologies and fuels	What are the longer term options for transport energy, given climate change and longer term oil replacement challenges?

STATISTICAL INFORMATION

Information set	Content
Infrastructure	
S1 Australian infrastructure statistics yearbook	New annual compendium expanding the Australian Transport Statistics Yearbook to include statistics on energy, water and communications infrastructure.
S2 Australian infrastructure statistics	Annual digest (booklet form) of selected infrastructure and transport statistics expanding on the previous Australian Transport Statistics booklet.
Cities and Local Government	
S3 Household wealth in Australia's cities and regions	Household wealth and its components are measured for cities and regions, using 2003-04 survey data. Also covers the relationship between wealth and income.
S4 Income support payment profile of Australia's cities and regions	Analysis of the varying income support payment profile of Australia's cities and regions and of relationships with socio-economic disadvantage and regional economic performance.
S5 Industry structure of Australia's cities and regions 2006	Changes in industry structure, measured in terms of employment, in Australia's cities and regions.
S6 Urban and regional economic performance database—annual update	The most recent available income tax data reworked to provide information on the performance of local economies.
S7 Cost of living in Australia's regions	Data on the cost of living and drivers of differences in the costs of living between metropolitan regions and the rest of Australia.
S8 On-line city and regional profiles	Profiles to enable improved access to BITRE regional data sets, developed in co-operation with the department's Local Government, Regional Development and Cities Division.
S9 About Australia's major cities, local government and regions	Annual digest (booklet form) of key statistics for Australia's cities, local government areas and regions.
Northern Australia	
S10 Northern Australia booklet	Key statistics and information relevant to economic development opportunities and patterns in northern Australia.
S11 Migration patterns in northern Australia	Data on the migration patterns into and out of northern Australia and why do they vary from patterns in southern Australia.

STATISTICAL INFORMATION

Information set	Content
Transport	
S12 General aviation survey	Annual survey of general aviation activity providing the only comprehensive data on activity in the sector.
S13 International airline activity	Monthly city pair data for all international airlines serving Australia. Data series has been maintained since 1956. Used to generate monthly and annual reports on international airline activity and as input to other analysis tasks.
S14 Domestic airline activity	Monthly city pair data for all Australian domestic airlines. Data series has been maintained since 1944. Used to generate monthly and annual reports on domestic airline activity and as input to other analysis tasks.
S15 Domestic airline on-time performance	Monthly on time performance data for the larger domestic airlines covering the top 50 domestic routes. Used to generate monthly and annual OTP reports. Established in 2003.
S16 Airport traffic statistics	Monthly and annual reports of airport traffic drawing on data held in the international and domestic activity databases.
S17 Avline	Summary of aviation statistics drawing together information from BITRE collections and external sources and providing additional data on air fares, fuel prices and airport charges. Each issue contains a feature article looking more closely at an industry sector or a current issue.
S18 Road-related expenditure and revenue	Using the most recent comprehensive available data, the publication presents the trends in road-related revenue and expenditure, as well as in road construction and maintenance prices.
S19 Road freight flows on major corridors	Annual estimates of the volume of road freight on major routes, using 'weigh-in-motion' station data to be obtained from state and territory governments.
S20 Australian rail freight performance indicators	A joint initiative with the Australasian Railway Association, this publication reports on how Australia's intercapital rail freight industry performs against 11 key indicators.
S21 Australian sea freight	Most recent coastal and international sea freight trends in Australia by port and commodity type.
S22 Waterline	Key trends in Australian container shipping, activity at the waterfront and landside of port terminal performance. Extension to bulk ports is also under investigation.
S23 Interstate freight rates	Trends in interstate freight rates for road, rail, sea and air to 2007-08.
S24 Fuel consumption trends for new Australian passenger vehicles	Trends in fuel consumption by new passenger vehicles in Australia to 2007.
S25 Australian transport statistics yearbook	Annual compendium of transport statistics and long time series trends. To be replaced in 2009 by the Australian Infrastructure Statistics Yearbook.