

# Philip D. Adams

## Curriculum Vitae

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### **Personal**

Date of birth: 8 September 1958.

Nationality: Australian.

Married: Yes.

### **Summary**

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Philip is Professor at the Centre of Policy Studies (CoPS), Victoria University, Melbourne. Prior to his current position, Philip was Director and Professor at CoPS, Monash University (2004-2013). He is also past Australian coordinator for the Economic Outlook taskforce of the Pacific Economic Co-operation group. Prior to 2004, he held positions as Senior Research Fellow and then Director of Consulting at CoPS, having previously worked at the Bureau of Agricultural Economics and at the Institute of Applied Economic and Social Research (now the Melbourne Institute).

Philip was elected a Fellow of the Academy of the Social Sciences in Australia in 2016. In that year he was also awarded the GTAP Research Fellow distinction for the term of 2016 to 2019. He holds a Masters Degree and a Ph.D., both in economics, from the University of Melbourne.

Philip's main area of expertise is the application of large multi-sectoral and multi-regional economic models for policy analysis and forecasting. Since completing his Ph.D., he has been involved in the implementation of several large models of the Australian economy: a short-run macro model; the Australia-wide MONASH model; and the MMRF dynamic model of Australia's eight states and Territories. Philip has also been active in developing models for overseas organisations, including central government organisations in Saudi Arabia, Oman, Jordan, Uganda, South Africa, Taiwan, Denmark, and Thailand. He has also run a number of training courses in the use of single- and multi-country CGE models. The multi-country training was undertaken using the GTAP model, built and maintained at the Global Trade and Protection (GTAP) project at Purdue University.

Philip has around 60 refereed publications covering topics such as: the prospects for industries, states and regions; the economic effects of import tariffs; the contribution of international tourism; the benefits and costs of major export projects; and the impacts of greenhouse-response policies for Australian regions. His articles have been published in a wide range of journals, including: the Journal of Policy Modelling, the International Journal of Forecasting, the Pacific Economic Review, the World Economy, Applied Economics, Economic Letters, Economic Studies Quarterly, the Asia-Pacific Economic Review and the Economic Record. With Brian Parmenter he is the co-author of a chapter on Environmental modelling in the *Handbook on CGE modelling* (published in 2013 by Elsevier B.V).

Philip's primary responsibility at CoPS is contract research. His research clearly engages with important "real world" issues, and demonstrates impact through relevance and excellence.

Indicators of the impactfulness of Philips' research are the number of organisations that provide repeat funding and the considerable income that his research projects bring to the University. Between 2006 and the middle of 2014 that income amounted to \$695,000 on average per annum.

Over this period his contract work has focussed on three areas.

1. *The economics of climate change, climate change adaptation and climate change mitigation.* Clients include: the Garnaut Climate Change Review, the Federal Treasury, the state treasuries of VIC, NSW, QLD and WA, the Commonwealth Scientific and Industrial Research Organisation (CSIRO), the DCCEE, Climate Works, Climate Institute and the WWF. His technical advice for the Federal Treasury led to the adoption of the MMRF system as Treasury's principal tool for analysis greenhouse mitigation policies from 2006 through to the present day. His October-2007 report for the Climate Institute on the economic implications of forcing large cuts in greenhouse emissions in Australia was reported widely in the Australian Press. Philip also delivered one of the key invited lectures (November 2008) of Monash's 50th Anniversary Public Lecture Series, focussing on the insurance-aspects of an emissions trading scheme. Most recently he has worked: as technical advisor for Australia's participation in the global 2050 Deep Decarbonisation Pathways Project (DDPP), coordinated by the Sustainable Development Solutions Network (SDSN) (<http://www.climateworksaustralia.org/project/current-project/pathways-deep-decarbonisation-2050-how-australia-can-prosper-low-carbon>); for the International Policy Division of the Department of Foreign Affairs (Climate change and sustainability branch) on a fact-finding mission to India (June 2013) designed to find potential partners for a joint Australia/India study on climate change issues; and with the CSIRO on a number of projects, including the development of a large scale, detailed Integrated Assessment Model (IAM), and simulations for the *Australian National Outlook* (leading to a publication in *Nature*).
2. *Modelling emerging economies in the Middle East, Africa and Asia.* Clients include: the Ugandan Ministry of Finance through Oxford Policy Management, the Jordanian Ministry of Planning and International Cooperation through Leading Point Management, the government of Oman (through the Sultan Qaboos University), the Saudi Arabian Ministry of Commerce and Industry, the Chinese Academy of Sciences and the State Information Centre (a Chinese government *think tank* affiliated to the National Development and Reform Commission). All of these projects have involved capacity transfer of models, database and software through training courses and project documentation, and applications to key policy issues. The issues examined include: the economic, social and fiscal impacts of a large new oil discovery (Uganda); the removal of subsidies on energy and food (Jordan); the training and occupation implications of moving from an oil-focussed economy (Oman and Saudi Arabia); and the economics of climate-change action at the provincial level (China).
3. *The economic impacts of large projects in mining, manufacturing, infrastructure and defence.* Clients include: Acil Tasman (and now Acil Allens), Deloitte Economics, PwC, Ernst and Young, SGS Economic and Planning, the Australian Energy Market Operator (AEMO), Centre of International Economics (CIE), Frontier Economics, KPMG, Urbis, SKM, the airport authorities of Melbourne, Sydney and Brisbane, the Department of Materiel Organisation (DMO), BHP Billiton, Chevron, Woodside, Tennis Australia, Transurban, and the state government treasuries of Vic, NSW, QLD, WA and SA. This work typically involves extensions of Cost Benefit Analysis (CBA) to cover the wider economic implications of specific large scale projects (construction and operation). Reporting is often confidential commercial in confidence, but the work is nearly always crucial in final decision making concerning the viability of various very large projects. For example, Philip recently completed a detailed study for DMO examining the economic impacts of various options for the next generation of submarines to be purchased by the Australian government. The overall cost of the program is reported to be around \$50 billion.

### **Education and qualifications**

- 1989 Ph.D., Department of Economics, University of Melbourne.  
1986 M.Com, University of Melbourne.  
1980 B.Ec (Hons), Monash University.

## **Career to date**

2014-	Research Professor (level E) at the Centre of Policy Studies (CoPS), Victoria University.,
2004-2013	Research Professor (level E) at the Centre of Policy Studies (CoPS), Monash University.
1995-2004	Senior Research Fellow (level D, equivalent to Associate Professor) at CoPS.
1991-1994	Senior Research Fellow (level C, equivalent to Senior Lecturer) at CoPS.
1989-1990	Senior Research Fellow (level C, equivalent to Senior Lecturer) at Institute of Applied Economic and Social Research, University of Melbourne (now the Melbourne Institute).
1980-1989	Research Officer (Assistant, Senior, Principal) at the Bureau of Agricultural Economics (now the Australian Bureau of Agricultural and Resource Economics), Canberra. On assignment to the IMPACT Project from 1985 to 1989.

## **Major leadership positions**

2004-2013	Director, Centre of Policy Studies (CoPS), Monash University
2001-2004	Director, Consulting, CoPS, Monash University.
1990-2010	Pacific Economic Outlook taskforce coordinator, AUSPECC.
1989-1995	Australian editor for <i>Economic Forecasts: A World-wide Survey</i> (North Holland).

## **Membership of associations**

- Australian Economic Society.
- Australian Agricultural and Resource Economics Society.
- International Society of Forecasters.
- Regional Science Association International, Australia and New Zealand Section.

## **Research and scholarship**

- Has authored over 130 papers since 1986. About sixty have appeared as refereed publications.
- Research has been of considerable media interest, with radio interviews on: ABC Rural (1993, 1994, 1995, 1996, 2002, 2006, 2007, 2009, 2010, 2011, 2012, 2013, 2014); and ABC Melbourne, Adelaide Perth and Hobart (1994, 1995, 1996, 1998, 2002, 2008, 2010, 2012, 2011, 2012 and 2013). He appeared on the ABC's *7.30 Report* (4/6/2007). Articles referring to research and commercial work have appeared in the main Australian newspapers: the Melbourne Age, the Australian, the Sydney Morning Herald, the Australian Financial Review, the West Australian and the Adelaide Advertiser. Some very recent examples can be viewed at <http://www.copsmodels.com/carboncuts.htm> .
- Has refereed articles for a wide range of international and domestic journals, including: Energy Economics, the Energy Journal, Applied Economics, the American Journal of Agricultural Economics, the Pacific Economic Review, the Australian Journal of Agricultural and Resource Economics, Economic Record, Australian Economic Papers, the Australian Economic Review, and the Review of Marketing and Agricultural Economics.
- Has supervised more than ten Ph.D. candidates, all of whom have successfully completed their studies. These include:
  - Samuel Otim (joint with Brian Parmenter) (Ph.D., thesis, 1999, awarded) *Inventories and Economic Fluctuations: A Computable General Equilibrium Analysis of the Australian Economy*.
  - Sharn Enzinger (Ph.D., thesis, 2001, awarded) *Impacts of Carbon abatement policies on Regional Victoria*.
  - Paresh Nayan (joint with Peter Dixon and Fashid Vasid) (Ph.D., thesis, 2003, awarded) *Tourism Impacts in Fiji*.

- *Amale Scally* (joint with the Department of Accounting and Finance) (Ph.D., thesis, 2005, awarded) *An Examination Of The Impact Of Regional Integration on FDI: The Case of AFTA*.
- *Jeremy Rothfield* (Ph.D., thesis 2008, awarded) *An Economic Analysis of Placing Electricity Cables Underground*.
- *Sothea Oum* (Ph.D., thesis 2009, awarded) *Poverty Issues in Cambodia: a CGE Analysis*.
- Has been invited to give the following outside presentations (since 1997):
  - “Economic impacts of LNG developments in QLD, presented to the Melbourne Economics Forum, 20 November 2014. <http://www.melbourneconomicforum.com.au/forums/energy-policy>
  - “How much will climate change action cost Australia”, paper presented to the Mannix College Fellows, 24 September 2014.
  - “Modelling of greenhouse gas mitigation at the region level”, paper presented to the Chinese Academy of Science, Beijing, June 2014.
  - “Effects of lifting subsidies on fuels purchased by households”, paper (co-authored by Louise Roos) presented to the Jordanian Ministry of Finance, May 2014.
  - “Greenhouse action: Coalition versus Labour” presented to the Victorian Young Economists group, Melbourne, November 2013 <http://youngeconomists.org.au/vic/> .
  - Greenhouse Insurance: How much will Clean Energy Future cost Australia”, presentation to the KEEI International Workshop on Top-down Models of Climate Change, Seoul, October 2013. [http://www.keei.re.kr/main.nsf/index\\_en.html](http://www.keei.re.kr/main.nsf/index_en.html) .
  - “Climate change modelling in Australia”, presentation to the Integrated Research and Action for Development (IRADe), New Delhi, June 2013. <http://www.irade.org/> .
  - “Design and effectiveness of Australian greenhouse policy” presentation to the NDRC-SIC Carbon Market Beijing International Workshop, January 2013. <http://www.copsmodels.com/pdf/chinacereport.pdf>
  - “Greenhouse Policies in Australia”, presentation to the UNU Wider sponsored workshop on Climate Change and Developing Countries, Helsinki, September 2012. [http://www.wider.unu.edu/events/2012-conferences/Climate-change-2012/en\\_GB/28-09-2012/](http://www.wider.unu.edu/events/2012-conferences/Climate-change-2012/en_GB/28-09-2012/)
  - “Transforming Data into Votes: Should current climate change policies in Australia sway your vote in the next election: Broad Economic Impacts”, presentation to Melbourne University sponsored workshop, Melbourne May 2012. <http://live.unimelb.edu.au/episode/transforming-data-votes>
  - “Insurance against Catastrophic climate change: How much will climate change mitigation policies cost Australia?”, presentation to an international symposium on "ETS and its impact on industry", Japanese Ministry of Environment Tokyo, March 2012. <http://www.env.go.jp/en/policy/>
  - “Economic Modelling”, presentation to the 2011 Australia 2050 workshop sponsored by CSIRO, Bowral July 2011. <http://www.science.org.au/news/media/26july11.html>
  - “Challenges for Taiwan from a Global Environmental Tax”, presentation to the Taiwan Institute of Economic Research, Taipei, June 2011. <http://english.tier.org.tw/>
  - “Effects of the CPRS” presentation to officials from the National Australia Bank, Melbourne, April 2010.
  - “Further Insights into CGE Analysis of Water and other Environmental Issues”, presentation to the Second International Symposium on Integrated Catchment Management in response to Climate Change meeting, Melbourne, September 2009.
  - “Prospect for Renewables to replace Nuclear in Electricity Generation in Taiwan”, presentation to the Taiwan Institute of Economic Research, Taipei, August 2009.
  - “CGE Analysis of Water and other Environmental Issues”, presentation to the International Symposium on Integrated Catchment Management in response to Climate Change meeting, Hanoi Vietnam, July 2009.
  - “Quantitative analysis in assessing the economy-wide effects of industry adjustment to policy reform”, paper presented to the course, Policy Reform and Structural Adjustment in Agriculture, held between 8 and 14 December 2008 and organised partly by the APEC Study Centre.
  - “Insurance against catastrophic climate change: How much will an Emissions Trading Scheme cost Australia?” for Monash's 50th Anniversary Public Lecture Series, 27 November 2008.

- “Economic impacts of Integrated Gasification Combined Cycle generation technology for the Taiwan economy”, presentation to the Taiwan Institute of Economic Research, Taipei, July 2008.
- “China and beyond – Australia’s position in rapidly growing Asia”, presentation to the Asia-Pacific Business Economics study group within the Griffith Asia Institute (GAI) at Griffith University, May 2008.
- “Briefings to various senior managers of Victorian government departments regarding possible climate change policies”, Melbourne over a number of weeks in December 2007 organised by Katrina Herman.
- “An economic perspective on climate change”, presentation to the Monash Forum on Sustainability, Caulfield, 5 October 2007.
- “Climate change – policy implications”, presentation to the Fabian Society forum on Greenhouse issues, 21 July 2007.
- “Impacts of Climate Change on the Australian Economy, with special emphasis on the tourism industry”, presentation to the Tourism CRC, Melbourne, 6 July 2007.
- “Use of Economic Modelling in policy development in Australia”, presentation to a Chinese delegation from the Development Research Centre, Melbourne, April 2007.
- “The economic impacts of an Emissions Trading Scheme for Australia”, presentations to two Melbourne Institute public forums – Melbourne (19 April 2007) and Canberra (17 April 2007).
- “Fuel cells for transport – economic modelling for Taiwan”, presentation to the Taiwan Institute of Economic Research, Taipei, January 2007.
- “The role of quantitative analysis in assessing the economy-wide effects of industry adjustment to policy reform”, paper presented to the course, Policy Reform and Structural Adjustment in Agriculture - Economic change in the Sugar Industry, held between 24 October and 3 November 2006 and organised by the APEC Study Centre.
- “The Australian economy in 2006 and 2007”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, Osaka, March 2006.
- “Linking models: Experience from the IMPACT Project and CoPS” to a workshop held at the Melbourne Institute on Monday 9 May. The workshop’s theme was “The next generation: Building a bridge between micro simulation, life-cycle, and macroeconomic models”, May 2005.
- “Energy and the macro-economy”, presentation to the Golden Key Association of students at Monash University, April 2005.
- “The Australian economy in 2005 and 2006”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, Osaka, March 2005.
- “Situation and Prospects for the Australian economy”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, Vancouver, December 2004.
- “The year ahead”, invited paper to the 2004 Australian Agri-Food Forum, Grand Hyatt, Melbourne, 29 October 2004.
- “The role of quantitative analysis in assessing the economy-wide effects of industry adjustment to policy reform”, paper presented to the APEC Study Centre’s training course, “Managing structural adjustment from trade reform”, Saville on Russell, Melbourne, 11-19 November 2004.
- “Forecasting with CGE models”, keynote presentation to the First International Macroeconomic Forecasters Conference hosted by the Thailand Office of the National Economic and Social Development Board, Bangkok, 26 August 2004.
- “Current economic conditions”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, San Francisco, December 2003.
- “Water issues and the Monash Model”, paper presented to the Urban Water Issues Conference, Melbourne, 30 October 2003.
- “Medium term prospects for Australian regions”, paper presented to the “City and the Bush Conference”, Melbourne, 1 August 2003.
- “Energy and the Australian Economy”, paper presented to the Energy Focus National Conference, Sydney, 3-4 April 2003.

- “Australia in 2003 and 2004”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, Osaka Japan, March 2003.
- “Regional Prospects and Impacts of the drought”, presented to the ABARE Outlook Conference, 4-5 March 2003.
- “Modelling developments at the Centre of Policy Studies”, presented to the Victorian Department of Primary Industries, 26 February 2003.
- “Regional prospects for Australia”, presented to the ABARE Regional Outlook Conference in Alice Springs, NT, 5 December 2002.
- “Regional implications of early-2002 Kyoto compliance”, presentation to the Australian Greenhouse Office, 10 October 2002.
- “Regional prospects for the Goldfields-Esperance region”, presented to the ABARE Regional Outlook Conference in Kalgoorlie, Western Australia, 2 October 2002.
- “Prospects for regions”, presented to the ANZRASI workshop on regional development, Hamilton Victoria, 9 August 2002.
- “Top-down and Bottom-up Modelling Perspectives: CoPS experience”, presented to the ABARE international seminar – Top-down and Bottom-up modelling perspectives, The Boat House by the Lake, Canberra, 28 May 2002.
- “Commentary”, presented at a conference organised by the CRC for sustainable tourism, Sydney, April 2002.
- “Australia in 2002 and 2003”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, Osaka Japan, March 2002.
- “GE Modelling and tourism”, presented at a conference organised by the CRC for sustainable tourism, Sydney, April 2001.
- “Australia in 2001 and 2002”, paper presented to the Forecasting Committee of the Pacific Economic Co-operation Council, Osaka Japan, March 2001.
- “Good modelling of Greenhouse Issues” presentation to a roundtable discussion of modelling greenhouse issues, hosted by Productivity Commission, Canberra, December 2000.
- “Outlook for Australian Regions”, plenary session at the 24<sup>th</sup> Australian and New Zealand meeting of the Regional Science Association International, Hobart, December 2000.
- “Prospects and policy dilemmas for the Chinese economy”, presentation to participants at the APEC 2001 program, organised by the RMIT APEC Studies Centre, March and July 2000.
- “Prospects for Australia”, paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 2000.
- “Australia in 1999 and 2000”, paper presented to the Standing Committee of the Pacific Economic Co-operation Council, Canberra, April 1999.
- “Short-term Economic Prospects for the Australian Economy”, paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1999.
- “Australia and the Asia Crisis”, paper presented to the AARES Symposium on the Australian Agricultural and Resource Economy and the Asian Crisis, Sydney, November 1998.
- “CGE Analysis of the Effects on Australia of the Asia Crisis”, paper presented at *Crisis in Asia - Impact on Australia*, organised by the Economic Modelling Bureau of Australia (EMBA), Canberra, August 1998.
- “Business Conditions in 1998-99 and Beyond: The Budget and Other Factors”, presentation to *Briefing on the 1998-99 Budget*, organised by Department of Business Administration, Monash University, Frankston, May 1998.
- “Short-term Economic Prospects for the Australian Economy”, paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1998.
- “The Effects of Economic Upheaval in Asia”, paper presented to clients of Arthur Andersen in Melbourne, February 1998.
- “APEC Trade Liberalisation and its Effects on the Chinese Economy”, paper presented to Asian Liberalisation Conference, School of Australian and International Studies, Deakin University, December 1997.

## **Teaching**

*Subjects taught:*



1991, 1992	Microeconomics for managers (MBA course), <i>taught jointly with Professors Peter Dixon and Brian Parmenter at Monash University.</i>
1992, 1993	Intermediate microeconomics (2nd year undergraduate), <i>taught jointly with Professors Dixon and Parmenter at Monash University.</i>
1994-2000	Applied general equilibrium economics (3rd year undergraduate) <i>taught jointly with Professor Dixon at Monash University.</i>
1995, 1996	Economics and commerce issue seminar (4th year honours) <i>taught jointly with Professor Parmenter at Monash University.</i>
2003	Economic modelling for agricultural analysis (Masters course, University of Pretoria).
2004	Economic modelling for agricultural analysis (Masters Course, University of Western Cape, South Africa), <i>taught jointly with Mark Horridge.</i>
2005	Economic modelling for agricultural analysis (Masters Course, University of Western Cape, South Africa), <i>taught jointly with Mark Horridge.</i>
2007	Trade modelling using CGE models (University of Pretoria, hosted by the AFRINEM (African Institute for Economic Modelling).
2010-2014	Three lectures on CGE modelling and Greenhouse Issues (Carbon Pricing Unit, AFF9012, Monash)

### **Awards and Grants**

- *Sustaining Regions Award*, presented for the paper judged to be the best contribution in 2002 to the ANZRSAL's journal *Sustaining Regions* (2002).
- Delivered one of the key invited lectures (November 2008) of Monash's 50th Anniversary Public Lecture Series, focussing on the insurance-aspects of an emissions trading scheme.
- 2009 *Australian Treasury*, appointment to the *Model Development Independent Advisory Panel*.

### **List of Publications**

#### **Articles in Refereed Journals and Books**

1. Steve Hatfield-Dodds, Heinz Schandl, Philip D. Adams, Timothy M. Baynes, Thomas S. Brinsmead, Brett Al. Bryan, Francis H. S. Chiew, Paul W. Graham, Mike Grundy, Tom Harwood, Rebecca McCallum, Rod McRae, Lisa E. McKellar, David Newth, Martin Nolan, Ian Prosser and Alex Wonhas (2015), "Australia is 'free to choose' Economic Growth and Falling Environmental Pressures", *Nature*, Vol. 527, November 2015, 49-53.
2. Steve Hatfield-Dodds, Philp Adams, Thomas Brinsmead, Brett Bryan, Fracis Chiew, John Finnigan, Paul Graham, Mike Grundy, Tom Harwood, Rebecca McCallum, Lisa McKellar, David Newth, Martin Nolan, Heinz Schandl, Alex Wonhas (2015), *Australian National outlook 2015: Economic activity, Resource Use, Environmental Performance and Living Standards, 1970-2050*, CSIRO Report, Canberra, October.
3. Fulton, EA, Finnigan, JJ, Adams P., Bradbury R., Pearman GI., Sewell R., Steffen W. and Syme GJ (2015), "Exploring Futures with Quantitative Models", Chapter 5 in *Negotiating our future: Living scenarios for Australia to 2050*, Volume 1, Australian Academy of Science. (Updated)
4. Adams P. 2015), "Economic Approaches to Modelling", Chapter 11 in *Negotiating our future: Living scenarios for Australia to 2050*, Volume 2, Australian Academy of Science. (Updated)
5. Roos, E.L., Philip D. Adams, and J.H. van Heerden (2015), "Construction a CGE database using GEMPACK for an African country", *Computational Economics*, Volume 46, Issue 4, 495-518.
6. Philip D. Adams, Brian R. Parmenter and George Verikios (2014), "An Emissions Trading Scheme for Australia: National and Regional Impacts", *Economic Record*, Vol 90, Issue 290, August 2014, pp. 316-44.

7. Philip D. Adams and Brian R. Parmenter, "Computable General Equilibrium Modelling of Environmental issues in Australia: Economic Impacts of an Emissions Trading Scheme" in P.B. Dixon and D. Jorgenson (eds) *Handbook of CGE Modelling, Vol. 1A*, 2013, Elsevier B.V.
8. Philip D. Adams, "Exploring the Future with Quantitative Models", Chapter 5 in Raupach M.R et al. (eds) *Negotiating our future: Living Scenarios for Australia to 2050*. Volume 1. Australian Academy of Science, 2012, <http://www.science.org.au/policy/australia-2050/>, pp. 152-187.
9. Philip D. Adams, "Economic Approaches to Modelling", in Raupach M.R et al. (eds) *Negotiating our future: Living Scenarios for Australia to 2050*. Volume 2. Australian Academy of Science, 2012, <http://www.science.org.au/policy/australia-2050/>, pp. 160-172.
10. YinHua Mai, Philip Adams, Peter Dixon and Jayant Menon, "The Growth locomotive of the People's Republic of China: Macro and Terms of Trade Impacts on Neighbouring Countries", *Asian Development Review*, 27 (2), 2010.
11. Reyno Seymore, Philip D. Adams, Margaret Mabugu, Jan Van Heerden and James Nelson Blignaut (2010), "The Impact of an Environmental Tax on Electricity Generation in South Africa", *Journal for Studies in Economics and Econometrics*, 34(2). pp. 1-18.
12. Yin Hua Mai and Philip Adams, "Resources Sector and Foreign Investment" Chapter 7 in Jayasuriya, S. D. MacLaren and G. Magee (eds.) *Negotiating a Preferential Trading Agreement*, Edward Elgar, Cheltenham, UK, 2009.
13. Philip Adams, "Insurance against Catastrophic Climate Change: How Much Will an Emissions Trading Scheme Cost Australia?", *The Australian Economic Review*, Vol. 40, No. 4, December 2007, pp 432-52.
14. Philip Adams, "Interpretation of Results from CGE Models such as GTAP", *Journal of Policy Modelling*, Vol. 27, December 2005, pp. 941-59.
15. Philip Adams, "Prospects for the Australian Economy and the Impact of Meeting Australia's Kyoto Commitment", *Farm Policy Journal*, Vol. 1, No. 3, November 2004, pp 26-35.
16. Philip Adams, "Medium term Prospects for the Australian Economy and the Impact of Kyoto-Compliance", *Australian Bulletin of Labour*, 30(1), March 2004, pp. 1-15.
17. Siobhan K. Dent, John P. Switala, Philip D. Adams and Mark h. O'Sullivan, "Foot-and-Mouth Disease Outbreak: Modelling Economic Implications for Queensland and Australia", *Australasian Journal of Regional Studies*, 8(3), 2002, pp. 303-26
18. Philip Adams, Mark Horridge, John Madden and Glyn Wittwer, "Drought, Regions and the Australian Economy between 2001-02 and 2004-05", *Australian Bulletin of Labour*, 28(4), December 2002, pp. 223-249.
19. Philip Adams, Peter Dixon and Maureen Rimmer, "The September 11 Shock to Tourism and the Australian Economy from 2001-02 to 2003-04", *Australian Bulletin of Labour*, 27(4), December 2001, pp. 241-257.
20. Tony Meagher and Philip Adams, "Trade Liberalisation and the Demand for Skilled Labour in Australia", *The Australian Journal of Labour Economics*, 4(4), December 2000, pp. 318-34.
21. Philip Adams, Mark Horridge and Brian Parmenter, "Forecasts for Australian Regions Using the MMRF-Green Model", *The Australasian Journal of Regional Studies*, Volume 6, Number 3, 2000, pp. 293-323.
22. Philip Adams, Peter Dixon, Daina McDonald and Maureen Rimmer, "The Exchange Rate Puzzle and Forecasts for the Australian Economy from 2000-01 to 2004-05", *Australian Bulletin of Labour*, 26(4), December 2000, pp. 174-195.
23. Philip Adams, "Dynamic-AAGE: A dynamic CGE model of the Danish Economy Developed from the AAGE and Monash Models", *Report no. 115*, Danish Institute of Agricultural and Fisheries Economics (2000), 135 pages.
24. Philip Adams, Mark Horridge, Brian R. Parmenter and Xiao-Guang Zhang, "Long-run Effects on China of APEC Trade Liberalisation", *Pacific Economic Review*, 5(1), February 2000, pp. 15-48.



25. Philip Adams and Brian Parmenter, "Forecasting the Australian Economy: the Role of the MONASH Model", chapter 5 in Peter Abelson and Roelyne Joyeux (eds), *Economic Forecasting*, Allen and Unwin, Australia, January 2000.
26. Philip Adams, Peter Dixon, Daina McDonald, G.A. Meagher and Maureen Rimmer, "Employment in Australia: Occupations, Threats and Opportunities", *Australian Bulletin of Labour*, 25(4), December 1999, pp. 283-305.
27. Philip Adams and Brian Parmenter, "General Equilibrium Models", chapter 10 in K. Corcoran, A. Allcock, T. Frost and L. Johnson (eds.), *Valuing Tourism: Methods and Techniques*, BTR Occasional Paper No. 28, March 1999.
28. Philip Adams, review of "Potential Impact of Farm Forestry Industry on the Goulburn Regional Economy" in *Agricultural and Resource Economics*, 43(1), March 1999, pp. 142-144.
29. Philip Adams, "Prospects for the Australian Economy and the Impact of the Asian Crisis" *Australian Bulletin of Labour*, 24(4), December 1998, pp. 247-278.
30. Philip Adams, "Long-run Effects of APEC Trade Liberalisation: A Computable General Equilibrium Analysis", *The World Economy*, 21(7), September 1998, pp. 931-952.
31. Philip Adams, Karen M. Huff, Robert McDougall, K.R. Pearson and Alan A. Powell, "Medium- and Long-run Consequences for Australia of an APEC Free-trade Area: CGE Analyses using the GTAP and Monash Models", *Asia-Pacific Economic Review*, 3(1), April 1997, pp. 19-42.
32. Philip Adams and Tony Meagher, "The Outlook for Employment by Occupation", *Australian Bulletin of Labour*, 23(4), December 1997, pp. 229-254.
33. Philip Adams and Peter B. Dixon, 'Generating Detailed Commodity Forecasts from a CGE Model', *International Journal of Forecasting*, 13(2), June 1997, pp. 223-236.
34. Philip Adams and Peter B. Dixon, 'Prospects for Australian Industries, States and Regions: 1993-94 to 2001-02', *Australian Bulletin of Labour*, 21(2), June 1995, pp. 87-108.
35. Philip Adams and Peter B. Dixon, '56 Separate Regions of Australia Analysed and Forecasted to 2002', *National Business Bulletin*, 5(9) (pp. 18-23) and 5(10) (pp. 25-30), 1995.
36. Philip Adams and B.R. Parmenter, 'An Applied General Equilibrium Analysis of the Economic Effects of Tourism in a Quite Small, Quite Open Economy', *Applied Economics*, Vol. 27, 1995, pp. 985-94.
37. Philip Adams and Peter B. Dixon, 'Prospects for Australian Industries, States and Regions: 1992-93 to 2001-02', pp. 7-20 in N. Burdess (ed.), *Emerging Opportunities for Regional communities: a Conference on Regional Development, Proceedings*, Centre of Regional Development, Deakin University, Warrnambool, May 1994.
38. Philip Adams, Peter B. Dixon, Daina McDonald, G.A. Meagher and Brian R. Parmenter, 'Forecasts for the Australian Economy Using the Monash Model', *International Journal of Forecasting*, Vol. 10, 1994, pp. 557-71.
39. Philip Adams, Peter B. Dixon and Daina McDonald, 'The Australian Economy in 1994-95 and 1995-96: Strong Growth or Wage Breakout?', *Australian Bulletin of Labour*, 20(4), December 1994, pp. 255-71.
40. Philip Adams, Peter B. Dixon and Daina McDonald, 'MONASH Forecasts of Output and Employment for Australian Industries: 1992-93 to 2000-01', *Australian Bulletin of Labour*, 20(2), June 1994, pp. 83-96.
41. Philip Adams and Peter B. Dixon, 'Prospects for Australian Industries and States in the 1990s', *Regional Policy and Practice*, 3(1), May 1994, pp. 8-18.
42. Philip Adams and Brian R. Parmenter, 'Microeconomic Reform and Employment in the Short Run', *Economic Record*, 70(208), March 1994, pp. 1-11.
43. Philip Adams, Peter B. Dixon and Daina McDonald, 'Prospects for the Australian Economy in 1993-94', *Australian Bulletin of Labour*, 19(2), June 1993, pp. 83-96.
44. Philip Adams, Peter B. Dixon and Brian R. Parmenter, 'Productivity Growth, International Competitiveness and Australia's Economic Prospects', *Economic Studies Quarterly*, Volume 44(1), March 1993, pp. 54-67.

45. Philip Adams and David Godden, 'The Enhanced Greenhouse Effect and Australian Agriculture', Chapter 17 in J.M Reilly and M. Anderssen (eds.), *Economic Issues in Global Climate Change: Agriculture, Forestry and Natural Resources*, 1992, Westview Press, Boulder Col.
46. Philip Adams, Peter B. Dixon and Brian R. Parmenter, 'Medium-Term Prospects for the Australian Economy: 1989-90 To 2000-01', *Australian Bulletin of Labour*, 18(4) 1992, pp. 239-66.
47. Philip Adams, Peter B. Dixon and Brian R. Parmenter, 'Prospects for the Australian Economy 1989-90 to 2001-02: ORANI-F Projections for the Ecologically Sustainable Development Working Groups', Chapter 6 in Colin P. Hargreaves (ed.), *Macroeconomic Modelling of the Long Run*, 1992, Edward Elgar, Aldershot, U.K.
48. Philip Adams and Peter B. Dixon, 'Limitations of the Budget as an Instrument of Macroeconomic Policy in 1992-93', *Australian Economic Review*, 4th quarter 1992.
49. Philip Adams, Peter B. Dixon and Daina McDonald, 'Prospects for the Australian Economy in 1992-93', *Australian Bulletin of Labour*, 18(2), 1992, pp. 75-90.
50. Philip Adams, Peter B. Dixon and Daina McDonald, 'Macroeconomic Prospects for the Australian Economy', *Australian Bulletin of Labour*, 17(2), 1991, pp. 263 to 283.
51. 'Australia', *Economic Forecasts: A Monthly World-wide Survey*, twice each year since 1989, 2 pages.
52. Philip Adams Peter B. Dixon and B.R. Parmenter, 'Sources and Effects of Productivity Growth', Economic Planning Advisory Council *Background Paper No. 8*, Australian Government Publishing Service, 1991, January.
53. Philip Adams, Peter B. Dixon and Daina McDonald, 'Macroeconomic Forecasts for the Australian Economy: 1990-91 and 1991-92', *Australian Economic Review*, 4th Quarter, 1990, pp. 5-23.
54. Philip Adams and Peter B. Dixon, 'Macroeconomic Forecasts for the Australian Economy: 1989-90 and 1990-91', *Australian Economic Review*, 1st Quarter, 1990, pp. 5-22.
55. Philip Adams, 'An Extended Linear Expenditure System with Assets', *Economic Record* (International Economics Postgraduate Research Conference Volume), 1991.
56. Philip Adams and Peter J. Higgs, 'Calibration of Computable General Equilibrium Models from Synthetic Benchmark Equilibrium Data Sets', *Economic Record*, 66 (193), 1990, pp. 110-26.
57. Philip Adams, 'The Extended Linear Expenditure System with Financial Assets', *Economic Letters*, 31, 1989, pp. 179-82.
58. Philip Adams and Peter B. Dixon, 'Forecasts for the Australian Economy in 1989/90 and 1990/91', *Australian Economic Review*, 4th Quarter, 1989, pp. 5-31.
59. Philip Adams, 'Recent Developments in the Australian Economy: An Update to 1988-89', *Australian Economic Review*, 3rd Quarter, 1989, pp. 39-44.
60. Philip Adams and B.R Parmenter, 'Economic Prospects: 1988-89 to 1994-95', *Australian Economic Review*, 3rd Quarter, 1989, pp. 5-15.
61. Philip Adams, 'Comparisons of Recent Estimates of Agricultural Supply Elasticities for the Australian Economy', *Review of Marketing and Agricultural Economics*, 56(3), 1988, pp. 326-60.
62. Philip Adams, 'Agricultural Supply Response in ORANI', *Review of Marketing and Agricultural Economics*, 51(2), 1983, pp. 213-29.
63. Philip Adams, 'Interpreting Estimates of Farm Output and Income', *Quarterly Review of the Rural Economy*, 5(2), 1983, pp. 156-9.
64. Philip Adams and P. Minnis, 'The Campbell Inquiry and the Rural Sector', *Bureau of Agricultural Economics Occasional Paper*, No. 62, 1982, 33 pages.

### **Papers in Non-refereed journals**

1. Philip Adams and Peter Dixon, "Climate Change Insurance", *Monash Business Review*, Volume 3, No. 2, July 2007, pp. 6-8.
2. Philip Adams, "Prospects for Australian Regions", *Sustaining Regions*, Volume 1, No. 2, 2002, pp. 4-16.

3. Philip Adams, "Fifty-six region survey of business prospects to the year 2010", *National Business Bulletin*: 12(9), November 2002, pp. 23-27; 12(10), December 2002, pp. 16-21.
4. Philip Adams and Peter B. Dixon, "Australian Regions and Industries Forecasted to 2005", *National Business Bulletin*: 8(7), October 1998, pp. 22-26; 8(8), November 1998, pp. 19-22; and 8(9), December 1998, pp. 18-21.

### Unpublished research papers

1. G.A. Meagher, P.D. Adams and Felicity Pang, "Climate Change Mitigation, Economic Growth and the Distribution of Income", IMPACT/CoPS Working Paper No. G-247, June 2014, 32 pages.
2. Philip Adams, Brian Parmenter and George Verikios, "An Emissions Trading Scheme for Australia: National and Regional Impacts", IMPACT/CoPS Working Paper No. G-247, September 2013, 28 pages.
3. Louise Roos, Philip Adams and Jan van Heerden, "Construction and updating of a Ugandan CGE database", Impact/CoPS Working Paper No. G-242, September 2013, 87 pages.
4. Philip Adams and Louise Roos, "Construction and updating of a Ugandan CGE database – first steps", Impact/CoPS Working Paper No. G-226, March 2012, 56 pages.
5. Philip Adams, Janine Dixon, James Giesecke and Mark Horridge, "MMRF: Monash Multi-Regional Forecasting Model: A Dynamic Multi-Regional Model of the Australian Economy", Impact/CoPS Working Paper No. G-223, December 2010, 210 pages.
6. Yinhua Mai, Philip Adams, Peter B. Dixon, "China's Growing Demand for Energy and Primary Inputs - Terms of trade Effects on Neighbouring Countries", Impact/CoPS Working Paper No. G-196, August 2009, 24 pages.
7. Yinhua Mai, Philip Adams, Mingtai Fan, Ronglin Li and Zhaoyang Zheng, "Modelling the Potential Benefits of an Australia-China Free Trade Agreement", Impact/CoPS Working Paper G-153, October 2005, 30 pages.
8. YinHau Mai and Philip Adams, "Trade Liberalisation Scenarios for Wool Under an Australia-China Free Trade Agreement", CoPS/Impact Working Paper No. G-156, October 2005, 32 pages.
9. Yinhua Mai, Philip D. Adams, Mingtai Fan, Ronglin Li and Zhanoyang Zheng, "Modelling the potential benefits of an Australia-China Free Trade Agreement", DFAT Australia-China FTA Feasibility Study technical paper, December 2004, 89 pages.
10. Philip D. Adams and J. Mark Horridge, "The Effects of a Free Trade Agreement Between the USA and the South African Customs Union (SACU)", CoPS/Impact Working Paper No. G-147, July 2004, 35 pages.
11. Philip D. Adams, "The Effects of a Free Trade Agreement Between Australia and the USA with Special Reference to the Victorian Economy: Main Report", CoPS/IMPACT Working Paper No. G-148, December 2003, 39 pages.
12. Philip D. Adams, Mark Horridge and Glyn Wittwer, "MMRF-GREEN: A Dynamic Multi-Regional Applied General Equilibrium Model of the Australian Economy, Based on the MMR and MONASH Models:" CoPS/IMPACT Working Paper No. G-140, October 2003, 127 pages.
13. Philip D. Adams, Mark Horridge, John Madden and Glyn Wittwer, "Drought, Regions and the Australian Economy between 2001-02 and 2004-05", CoPS/IMPACT Working Paper No. G-135, December 2002, 18 pages.
14. Philip Adams, Lill Andersen and Lars-Bo Jacobsen, "Does Timing and announcement matter? Restricting the production of pigs within a dynamic CGE model", SJFI *Working Paper*, No. 18/2001.
15. Philip Adams, "Economic Impacts of an Outbreak of Foot and Mouth Disease: Implications for QLD and Australia", QLD Department of Primary Industries discussion paper, June 2001, 59 pages.
16. Philip Adams, "Economic Impacts of Greenhouse Response: Implications for QLD and Australia", Australian Greenhouse Office Working Paper, June 2001, 223 pages.
17. Philip Adams, Brian Parmenter and Mark Horridge, "MMRF-GREEN: A Dynamic, Multi-Sectoral, Multi-Regional Model of Australia", IMPACT/CoPS Working paper No. OP-94, October 2000, 26 pages.

18. Philip Adams, Brian Parmenter and Mark Horridge, "Forecasts for Australian Regions using the MMRF-Green Model", paper prepared for the 24th ANZRSI Annual Conference, Hobart, December 2000, 26 pages.
19. Philip Adams, Brian Parmenter and Mark Horridge, "Analysis of Greenhouse Policy using MMRF-GREEN", paper presented at the Third Annual Conference on Global Economic Analysis, June 2000, 19 pages.
20. Tony Meagher, Philip Adams and Mark Horridge, "Applied General Equilibrium Modelling and Labour Market Forecasting", paper presented at the Third Annual Conference on Global Economic Analysis, June 2000, 21 pages.
21. Philip Adams, Johnathan Thomas, Nigel Hall and Bill Watson, "Water and the Australian Economy", a joint study project of the Australian Academy of Technological Sciences and Engineering and the Institution of Engineers Australia, April 1999, 137 pages.
22. Philip Adams and Greg Watts, "The Regional Consequences of the GST: Analysis based on the QGEM-F model, paper prepared for the second meeting of the Regional modelling Group, Adelaide, July 1999, 17 pages.
23. Philip Adams, "The Consequences for Australia of the Asian Crisis, in Proceedings of the Inaugural AARES Symposium - The Asian Crisis and Australia's Agricultural and Resource Sectors, November 1998. Available from the Australian Agricultural and Resource Economics Society.
24. Philip Adams and Brian Parmenter, 'Forecasting the Australian Economy: the Role of the MONASH Model', paper prepared for the Business Symposium on Economic forecasting, 27<sup>th</sup> Annual Conference of Economists, Sydney, October 1998, 28 pages.
25. Philip Adams, 'Glossary and Coverage of MONASH Industries and Commodities After Conversion to an ANZSIC-Based Classification', *mimeo*, June 1998, 37 pages.
26. Philip Adams, 'Short-term Economic Prospects for the Australian Economy', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1997, 15 pages
27. Philip Adams and Matthew Cole, 'Splitting Pharmaceuticals, Veterinary Products and Pesticides (Monash commodity 54/Industry 52)', paper prepared for the Industry Commission, Melbourne, January 1996, 20 pages.
28. Philip Adams and Peter B. Dixon, 'Reaching the Planners: Generating Detailed Commodity Forecasts from a Computable General Equilibrium Model', *Centre of Policy Studies and the IMPACT Project Preliminary Working Paper*, No. OP-83, 1996, iii + 27 pages.
29. Philip Adams, 'Short-term Economic Prospects for the Australian Economy', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1996, 15 pages
30. Philip Adams, 'Short-term Economic Prospects for the Australian Economy', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1995
31. Philip Adams and Peter B. Dixon, 'Reaching the Planners: Generating Detailed Commodity Forecasts from the MONASH Model of Australia, paper presented to the Fifteenth International Symposium on Forecasting, Toronto, Canada, June, 1995.
32. Philip Adams and Peter B. Dixon, 'Prospects for Australian Industries, States and Regions: 1992-93 to 2000-01', paper prepared for *Corporate Brief*, August 1994, 20 pages. Available from Syntec Economic Services, Melbourne.
33. Philip Adams and Brian R. Parmenter, 'ORANI-F and MONASH: General Equilibrium Models of the Australian Economy for Medium-Run Forecasting', Centre of Policy Studies and the Impact Project Preliminary *Working Paper*, No. OP-80, July 1994, 19 pages. Available from the Impact Project, Monash University, Clayton Vic 3168. Earlier version presented to the Conference of Economists, Perth, September 1993.
34. Philip Adams, 'Short-term Economic Prospects for the Australian Economy', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, February 1994, 10 pages.

35. Philip Adams and Peter B. Dixon, 'Prospects for Australian Industries and States: 1992-93 to 2000-01', paper prepared for *Corporate Brief*, August 1993, 19 pages. Available from Syntec Economic Services, Melbourne
36. Philip Adams, 'Short-term Economic Prospects for the Australian Economy', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1993, 10 pages.
37. Philip Adams and Brian R. Parmenter, 'An Applied General Equilibrium Analysis of the Economic Effects of Tourism in a Quite Small, Quite Open Economy', *Centre of Policy Studies Discussion Paper*, No. D158, Centre of Policy Studies, Monash University, September 1992.
38. Philip Adams, Peter B. Dixon, and Barry Jones, 'The MENSA Model: An Exposition', *Centre of Policy Studies Discussion Paper*, No. D155, Centre of Policy Studies, Monash University, July 1992.
39. Philip Adams, 'Short-term Economic Prospects for the Australian Economy', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, Osaka, Japan, March 1992, 10 pages.
40. Philip Adams and Brian R. Parmenter, 'Microeconomic Reform and Employment in the Short Run', *Centre of Policy Studies Discussion Paper*, No. D154, Centre of Policy Studies, Monash University, February 1992.
41. Philip Adams and David Parsons, 'Medium-term Outlook for World Prices of Minerals and Metals other than Oil', paper presented to Forecasters meeting of the Pacific Economic Co-operation Conference, San Francisco, United States, January 1992
42. Philip Adams, 'ABARE Commodity Projections', mimeo, prepared for the ESD Working Groups, September 1991, 34 pages.
43. Philip Adams, Peter B. Dixon and Brian R. Parmenter, 'Productivity Growth, International Competitiveness and Australia's Economic Prospects', *Centre of Policy Studies Discussion Paper*, No. D150, Centre of Policy Studies, Monash University, September 1991.
44. Philip Adams, Peter Dixon and B.R. Parmenter, "Prospects for the Australian Economy 1989-90 to 1995-96: A Base Case for the Ecologically Sustainable Development Working Groups", Ecologically Sustainable Development Working Groups Discussion Paper, May 1991, 23 pages.
45. Philip Adams and P.B Dixon, "Effects of Subsidising Investment", Australian Manufacturing Industry Council paper, June 1990, 13 pages.
46. Philip Adams, P.B. Dixon, G.A. Meagher, B.R. Parmenter and M.W. Peter, "Survey of Selected Computable General Equilibrium Models as Background for the Industry Commission's Salter Model", Industry Commission working paper, June 1990, 118 pages.
47. Philip Adams, B.R. Parmenter and M.W. Peter, 'Australia's Medium-run Economic Prospects, Including an Analysis of the Role of Immigration', Paper presented at the Economic Modelling of Australia Conference organised by the Economic Modelling Bureau of Australia, Canberra, 14 and 15 June 1990, 25 pages.
48. Philip Adams, B.R. Parmenter, G.A. Meagher, D. McDonald, 'Structural Change in the Australian Economy: Historical Simulations with ORANI-F', Paper presented to the Conference on Economic Modelling, Urbino, Italy, July 1990, 24 pages.
49. Philip Adams, P.B. Dixon, D. McDonald and M. Horridge, 'A Short-run Forecasting Model or the Australian Economy', Revised *IAESR Working Paper*, No. 6/1989, 110 pages.
50. Philip Adams, 'An Updated Calibration of NAGA, and of the Investment Theory and Foreign Debt Module of ORANI-F', *IAESR Research Paper*, No. 3/1989, June 1989, 37 pages.
51. Philip Adams, Alan Powell and Ching Fan Chung, 'Australian Estimates of Working's Model Under Additive Preferences: Revised Estimates of a Consumer Demand System for Use by CGE modellers and Other Applied Economists', *IMPACT Working Paper*, No. O-61, 1988, iii + 89 pages.
52. Philip Adams, 'Estimation of the Extended Linear Expenditure System with Assets', *IMPACT Preliminary Working Paper*, No. IP-38, 1988, iii + 77 pages.
53. Philip Adams, 'Initial Estimates of the Extended Linear Expenditure System with Assets', University of Melbourne, mimeo, 1988, iii + 78 pages.

54. Philip Adams, 'Australian Household Sector Wealth Statistics for the Estimation for the Extended Linear Expenditure System with Assets', *IMPACT Preliminary Working Paper*, No. IP-34, 1987, iv + 88 pages.
55. Philip Adams, 'Short-Run Macroeconomic Closure of ORANI: An Alternative to the IMPACT Paradigm', *IMPACT Working Paper*, No. OP-60, 1987, iii + 102 pages.
56. Philip Adams, 'From ELES to ELESa: A Linear Expenditure System with Assets', *IMPACT Preliminary Working Paper*, No. IP-28, 1986, i + 18 pages.
57. Philip Adams and Peter J. Higgs, 'Calibration of Computable General Equilibrium Models from Synthetic Benchmark Equilibrium Data Sets', *IMPACT Preliminary Working Paper*, No. OP-57, 1986, 37 pages.
58. Philip Adams, 'The Cost of Manufacturing Protection to the Rural Sector', University of Melbourne, mimeo, 1986, 16 pages.
59. Philip Adams, 'A User's Guide for Computing Detailed Short-Run Agricultural Sector Results with the Melbourne Version of ORANI 78', *IMPACT Computing Document*, No. C6-01, 1986, 37 pages.
60. Philip Adams, 'Agricultural Supply Response in ORANI', *IMPACT Working Paper*, No. O-44, 1985, 29 pages.
61. Philip Adams, 'The Typical Year Data Base for the Agricultural Sector of ORANI 78', *IMPACT Preliminary Working Paper*, No. OP-45, 1984, 113 pages.
62. Philip Adams, 'The Short-Run Behaviour of Agricultural Industries in ORANI 78 -- Methodological Overview and Analysis of Base Year Data', *IMPACT Preliminary Working Paper*, No. OP-42.



## Contract Research

### Projects since 2009 for which I have been principal investigator

Short description	Client	Project end date
Energy efficiency improvements	McLennan Magasanik Associates	30/04/2009
Expanded renewable energy target	McLennan Magasanik Associates	27/02/2009
Transurban car network in Melbourne	Ernst & Young (Melbourne)	30/12/2009
Impact of gambling	Allen Consulting Group	30/12/2009
Costs and benefits of large projects in Vic	Marsden Jacobs	30/12/2009
Vic Government Science Technology and Innovation initiative	Deloitte Touche Tohmatsu	26/06/2009
Revised modelling LNG facility at Gladstone	URS Australia Pty Ltd	28/03/2009
Economic futures of NT	Deloitte Touche Tohmatsu	31/03/2009
Climate adaptation in Vietnam	World Bank	16/07/2010
forestry industry in Tasmania	Deloitte Touche Tohmatsu	31/03/2009
Advice & tech assist mode Fed Government carbon policy	CRC for Sustainable Tourism	17/03/2009
Electricity tariffs on the NT economy	Deloitte Touche Tohmatsu	31/03/2009
Disaggregation of the agriculture sector in MMRF	DAFF, Department of Agriculture, Fisheries and Forestry (Australian Government)	29/05/2009
Extension climate change abatement	Frontier Economics	29/05/2009
Melbourne Park	Ernst & Young (Melbourne)	30/01/2009
Impacts of different rules for shielding	Climate Institute	30/11/2009
Economic contribution of Sports	Frontier Economics	08/12/2009
Better Place - Electric vehicles	Deloitte Touche Tohmatsu	18/03/2011
Pharmaceutical industry	Deloitte Touche Tohmatsu	16/12/2009
The national economic impacts from broadband	Allen Consulting Group	27/11/2009
MMRF4 with basecase and policy simulation to model the Carbon Pollution Reduction Scheme	Department of Infrastructure, Transport, Regional Development and Local Government	26/08/2009
Changes in the costs of Abatement	DIIRD, Department of Innovation, Industry and Regional Development (Victorian Government)	16/04/2010
Provision of MMRF model code and database	PricewaterhouseCoopers (Melbourne)	11/11/2009
Provision of model code and database, and for modelling advice over the course of 2010	Allen Consulting Group	19/11/2009
The impacts of Asian Soccer Cup for Australia	PricewaterhouseCoopers	11/12/2009
Comparative economic impacts of pursuing greenhouse gas reduction through domestic action	Department of Innovation, Industry and Regional Development	17/12/2010
Update of the MMRF modelling framework, 2010	Productivity Commission	28/06/2012
On-site support for the Department of Treasury and Finance	DTF, Department of Treasury and Finance (Victorian Government)	14/06/2011
National Integrated Assessment Model: proof of concept	CSIRO Energy Transformed Flagship	30/06/2011
Economic impact of aviation, land transport and energy sector scenarios	CSIRO Newcastle	20/12/2010

Short description	Client	Project end date
Impacts of Jabirum Metals Stockman project prospects for the Australian and Queensland economy	Deloitte Touche Tohmatsu QIC Limited	27/08/2010 15/06/2010
Jobs and Economy Model: Technical analysis Project	Department of Sustainability and Environment, Julian Smith	25/03/2011
Work on the economics and adaptation to climate change: macro level assessment for Vietnam	World Bank	31/03/2010
Vietnam food security	World Bank	28/07/2011
Future Scenarios for Australia	Insight Economics	22/04/2011
MMRF Baseline forecast	QIC Limited	31/03/2012
Provision of Computable General Equilibrium Modelling to the Federal Treasury	Department of the Treasury (Australian Government)	01/07/2011
Model of Uganda	Oxford Policy Management	30/06/2015
Carbon price impacts - Red meat sector	Meta Economics Consulting Group	03/10/2011
Modelling of Federal government carbon policy for QLD government	Office of Economic and Statistical Research, Queensland Treasury (Queensland Government)	14/08/2011
Modelling the economic impacts of the twenty per cent emissions reduction target by 2020	DTF, Department of Treasury and Finance (Victorian Government)	12/08/2011
The economic impacts of the Melbourne GP	Ernst & Young (Melbourne)	18/12/2011
Further CSIRO CoPS collaboration	CSIRO Energy Transformed Flagship	29/06/2012
Economic impacts of Electricity sector reform in Tasmania	Electricity Industry Expert Panel	29/02/2012
2 projects for Stephen Anthony	Stephen Anthony, Macroeconomics	13/10/2011
Skills Victoria scenarios	Allen Consulting Group	29/02/2012
Native Forest Harvest Scenarios in Tasmania	Department of Infrastructure, Energy and Resources (Tasmanian Government)	10/10/2011
Update of Victorian 20 by 20 modelling	DPC, Department of Premier and Cabinet (Victorian Government)	29/02/2012
SIC climate change project with DCCEE	DCCEE	19/12/2012
Economic effects of a new Sydney casino (confidential)	Allen Consulting Group	01/08/2012
CRC research effectiveness	Allen Consulting Group	01/11/2012
ACT greenhouse policy	Stephen Anthony, Macroeconomics	12/07/2012
Japanese emissions policy seminar	Japan Ministry of Environment	06/06/2012
Contribution of Melbourne Airport	SGS Economics and Planning Pty Ltd	30/11/2012
Economic impacts of various options for the Sydney airport	Ernst & Young	21/12/2012
Queensland multi-regional forecasting model	Office of Economic and Statistical Research, Queensland Treasury (Queensland Government)	30/06/2013
Modelling regional demands for energy	CSIRO Newcastle	10/12/2012

Short description	Client	Project end date
Economic Impacts of new convention facility in NSW	PricewaterhouseCoopers (Sydney)	29/06/2012
Contribution of Australian Open Tennis championship	Tennis Australia	28/11/2012
Modelling advice to Federal Department of Tourism	Department of Employment, Economic Development and Innovation	10/08/2012
3E CGE model for Taiwan	Taiwan Institute of Economic Research (TIER)	28/09/2012
MMRF Baseline forecast Part 2	QIC Limited	28/09/2012
Development of an Omani CGE model	Sultan Qaboos University	04/11/2014
LNG in MMRF (Part 1: requirements 1 to 3)	Department of the Treasury (Australian Government)	19/04/2013
Further modelling of international nickel trade	Frontier Economics	31/12/2013
Scoping study to India	Department of Employment, Economic Development and Innovation	28/06/2013
Modelling services for the DMO	Macroeconomics	30/06/2014
Australia-wide impacts of changes in Australia's tax system, plus additional tax work for BCA	PwC	26/07/2013
Advice and review comments on Draft treasury paper on the effects of GNI of different emission caps	Department of the Treasury (Australian Government)	22/07/2013
Modelling of the impacts of the Sydney casino	PricewaterhouseCoopers	08/08/2013
MMRF database for DOT modelling	KPMG	14/10/2013
MMRF database for SA employment impact modelling	KPMG	30/11/2013
Audit of QGEMF	Office of Economic and Statistical Research, Queensland Treasury (Queensland Government)	31/12/2013
Building modelling capacity at QIC	QIC Limited	12/12/2013
state fiscal impediments to household mobility	DTF, Department of Treasury and Finance (Victorian Government)	30/06/2017
Use of MMRF for the blue project	KPMG (Sydney)	14/02/2014
Provision of Modelling services to inform the 2050 deep decarbonisation pathway project	Monash University ClimateWorks Australia	01/12/2014
Jordan dynamic model	Leading Point Management Advisory Services	31/05/2014
Australian National Outlook scenarios	CSIRO, CMAR	01/07/2014
Practical GE modelling course	Chinese Academy of Sciences, Institute of Policy and Management	11/07/2014
MMRF Database for Bloomfield project	KPMG (Sydney)	06/06/2014

Short description	Client	Project end date
Development and application of a dynamic CGE model of the Saudi economy	Ministry of Commerce and Industry	15/04/2015
Victoria University Multi-Regional Model and database	Productivity Commission (Canberra)	19/12/2014
The use of MMRF data for Barangaroo Project	KPMG (Sydney)	17/07/2014

### Projects prior to 2009 for which I have been principal investigator

1. "State action on Climate Change for the NSW Treasury" (Frontier Economics) (October 2008 – February 2009)
2. "Potential economic impacts of a new LNG plant for QLD (URS corporation) (October 2008-January 2009)
3. "Implications of a Collapse in Investment spending" (Allen Consulting) (December 2008)
4. "NT Mining Development and its implications for the State Economies (Deloitte) (October 2008-January 2009)
5. "Reforms of urban water pricing" (Victorian Department of Infrastructure) (October 2008-December 2008)
6. "Adaptation greenhouse policies for South Africa (South African Treasury and Pretoria University) (August 2008-September 2008)
7. Costs and Benefits of various mining projects (Insight Economics) (March-July 2008)
8. Impacts of the Melbourne F1 Grand Prix on Victoria and Australia (Ernst and Young) (February, March 2008)
9. "Costs and benefits of the Transurban road system in Sydney (Ernst and Young) (January 2008 – March 2008)
10. "Development of the MMRF model for climate change policy analysis" (Federal Treasury) (November 2007 – October 2008).
11. "NETT3 – Emissions trading scheme analysis" (NETT secretariat) (August 2007 -)
12. "Garnaut Review modelling" (Garnaut Review) (October 2007 – August 2008)
13. "Efficiency improvements in the construction sector" (Allen Consulting Group) (June 2007)
14. "Efficiency improvements in the grocery retail sector" (Allen Consulting Group) (June 2007).
15. "Economic impacts of an emissions trading scheme (Climate Institute) (August 2007 to November 2007).
16. "Stationary Energy Projections, 2007" (Australian Greenhouse Office) (March 2007 to July 2007).
17. "Economic benefits and costs of renewable generation" (Renewable Generators Association through MMA) (May 2007).
18. "Effects of improved port facilities" (Allen Consulting) (May 2007 to July 2007).
19. "Roofing insulation – the economic effects" (Insight Economics) (March 2007).
20. "Modelling the impacts of autonomous energy efficiency improvements in the construction sector" (Centre of International Economics) (March 2007 to June 2007).
21. "Pricing of electricity in Tasmania" (Hydro Tasmania) (May 2007).
22. "New defence ship building program for Australia" (Insight Economics) (March 2007).
23. "Constructing parts for the JSF plane in Victoria" (Insight Economics) (March 2007).
24. "The impacts of an Australia-Chile FTA for the Australian mining industry" (Allen consulting) (January 2007 to April 2007).
25. "Increased productivity via increased R and D in the Victorian brown coal industry" (Insight economics) (February 2007).
26. "Economic impacts of the Melbourne Desalination proposal" (Department of Sustainability and Environment) (February 2007- June 2007).
27. "Increased Federal funding for new roads in Victoria (Victorian Department of Infrastructure) (February 2007 to May 2007).
28. "Impact of the QLD CIF" (Allen Consulting) (December 2006).

29. Preparation of a new version of the MMRF model (with Glyn Wittwer and Mark Horridge) (Productivity Commission) (January 2006-December 2006).
30. Economic impacts of a high gas price for WA" (Insight Economics) (November 2006).
31. "Economic Impacts of the Browse LNG Development" (Insight Economics) (September 2006 to November 2006).
32. "Impacts of the Olympic Dam Development in SA" (Insight Economics) (June 2006 to November 2006).
33. "Economic Impacts of the Pluto LNG Development in WA" (Insight Economics) (June 2006 to November 2006).
34. "Impact of a New Coal Export Terminal at Koorgang Island in NSW" (Allen Consulting Group (August 2006-September 2006).
35. "Economic Impacts of the Victorian Grand Prix in 2005" (Allen Consulting Group) (June 2006 to September 2006).
36. "Economic Impacts of Increased Agricultural and Forestry Output due to the CRC for Dryland Salinity" (University of Western Australia) (August 2006).
37. "Economic Impacts of the Easter Water Recycling Project for Victoria" (PriceWaterhouseCoopers) (March 2006 to July 2006).
38. "Economic Impacts of the Chalco Proposal for a new QLD Bauxite Mine and Alumina Refinery" (Office of the Coordinator-General, QLD) (September 2006).
39. "Economic Impacts of Greenhouse Issues for the Victorian Government" (MMA) (May to August 2006).
40. "Modelling and Review Associated with a Study on New air cargo Security Procedures (Bureau of Transport Economics) (June 2006).
41. Economic Impacts of R and D (Allen Consulting Group) (March 2006 to June 2006).
42. "Evaluation of Demand and Supply Elasticities for Various Vitamin Related Products "(Frontier Economics) (June 2006).
43. "Greenhouse Options for the Victorian Economy" (Victorian Department of Treasury and Finance and McLennan, Magasanik and Associates) (January 2006-February 2006).
44. "Changes in the Composition of Motor Vehicle Manufacturing (private sector client and the Allen Consulting Group) (December 2005-January 2006).
45. "Impact of the Victorian Racing Industry and implications of changes in government support" (IEA) (January 2006-February 2006).
46. "Greenhouse Options for the Tasmanian Economy" (Allen Consulting Group) (December 2005-January 2006)
47. "Economic Impacts of Reduced Use of Plastic Bags in Retailing" (Allen Consulting Group) (November 2005).
48. "Economic Contribution of the Victorian Spring Racing Carnival" (IEA) (December 2005-January 2006).
49. "Contribution of the Spring Racing Carnival to the Victorian Economy" (IEA) (December 2005-January 2006).
50. "Revised Estimates of the Impacts of a new pulp paper mill for Tasmania" (Tasmanian Treasury and Allen Consulting) (December 2005-January 2006).
51. "Impacts of the new Iluka Mineral Sands project in SA" (Allen Consulting Group) (November 2005).
52. "Effects of expanding Victoria's Forestry Sector" (Allen Consulting Group) (November, December 2005).
53. "Review of Economic modelling of Climate Change Policies in the UK (OXERA consulting group, London) (October 2005).
54. "Economic impacts of Proposed Spending on Victoria's Suburban Rail Network (Allen Consulting Group) (October 2005).
55. "Improved Energy and Greenhouse Gas Modelling" (MMA) (August 2005 – September 2005).
56. "Advice on Regional Modelling" (Victoria Department of Treasury) (October 2005- ).
57. "Trade Liberalisation Scenarios for wool under an Australia-China FTA" with Yin Hua Mai (ITS Global) (July 2005).
58. "Options for the Renewable Energy Strategy of Victoria" (Sustainable Energy Authority of Victoria) (September 2005).

59. "Policies to Slash Greenhouse Gas Emissions by 2050" (Australian Conservation Foundation and the Allen Consulting Group) (August 2005).
60. "Analysis of the SACU/India Free Trade Agreement" with Mark Horridge (South African Department of Agriculture) (April 2005- May 2005).
61. "Economic impacts of a large Defence Shipbuilding Project" (Acil Tasman) (January-March, 2005).
62. "Alternative allocation methods for Logs in Victoria" (PWC for VicForests) (December 2004).
63. "Economic impacts of a new pulp mill for Tasmania" (Tasmanian department of Treasury) (October 2004).
64. "Energy for minerals development in the South West Region of WA: Economic modelling of alternative scenarios" (Sleeman consulting for the WA department of Industry and Resources) (September 2004).
65. "Economic impacts of alternative development proposals for the Argyle diamond mine" (Allen consulting for the Argyle operators) (July 2004).
66. "Impacts of a new accreditation scheme for builders in Victoria" (Allen consulting) (June 2004).
67. "Modelling for Victorian Greenhouse Challenge for energy" (Victorian government taskforce on energy with Allen Consulting) (June 2004).
68. "Projections of Stationary energy use and greenhouse emissions" (AGO) (June 2004).
69. "Development options for Black Tip gas, WA" (Acil Tasman) (March 2004).
70. "Impacts of an expansion to the Alcan smelter at Gove, NT" (Acil Tasman) (March 2004).
71. "Training in the use of GTAP for global policy analysis" (funded by AusAid, training in South Africa) (March 2004).
72. "Evaluation of the proposed NEET scheme" (Allen Consulting for SEAV) (October 2003).
73. "Impacts of the proposed US/AUS free trade agreement for Australia, with special emphasis on the Victorian economy" (Department of Premier and Cabinet, Victoria) (October and November 2003).
74. "Counterfeiting and piracy: Their impacts on the Australian economy" (Allen Consulting) (October 2003).
75. "Impacts of the proposed US/AUS free trade agreement for Australia, with special emphasis on the South Australian economy" (Allen Consulting for the South Australian government) (September 2003).
76. "Potential benefits of a plan to revitalise the NSW racing industry" (Allen Consulting) (September 2003).
77. "Long-term economic futures for the Victorian economy" (Victorian Department of Treasury and Finance) (September 2003).
78. "Impacts of a new airframe production plant" (Allen consulting) (September 2003).
79. "Impacts of defence base closures" (Australian Defence Force) (September 2003).
80. "The economic contribution of Monash University" (Monash University) (August 2003).
81. "Future coal and gas scenarios for electricity generation" (MMA for the AGO) (August 2003).
82. "Impacts of an expansion to the Victorian convention centre" (PricewaterhouseCoopers) (July 2003).
83. "Impacts of a free trade agreement between the USA and SACU (South African Department of Agriculture) (May-June 2003), jointly with Mark Horridge.
84. "Policies for attaining Kyoto commitment" (AGO) (April-June 2003).
85. "Costs and benefits of changes to the MRET" (MMA for the AGO) (April 2003).
86. "AusLink – advisory work for the Bureau of Transport Economics" (BTE) (March, April 2003).
87. "Increased efficiencies in stationary energy processes" (Sustainable Energy Authority of Victoria - SEVA) (2003).
88. "Impacts of a shift to Eco-efficient sugar cane farming in Queensland" (QLD Department of Primary Industries) (2003).
89. "Impacts of the Australian Rally on the WA economy" (Allen Consulting for the WA state Treasury) (December 2002 to January 2003).
90. Training course in the use of the MMRF-Green model (WA Department of Mineral and Petroleum resources, and the Department of Treasury) (25-29 November 2002).
91. "Kyoto Compliance and its impacts on NSW" (Allen Consulting for the NSW Government's review of environmental policies) (2002).
92. "Impacts of policy options relating to emissions abatement in the stationary energy sector", (Allen Consulting for the COAG energy market review) (2002).
93. The economic benefits of capacity expansions in alumina smelting and aluminium refining (ACIL) (2002)



94. The impacts of the international vitamin cartel (Frontier Economics and Maurice, Blackburn, Cashman) (2002-)
95. Options relating to renewable electricity generation (Victorian Department of Premier and Cabinet) (2002)
96. Sustainable energy options (Sustainable Energy Development Authority – SEDA, NSW) (2002)
97. Impacts of electricity reform on the WA economy (WA Department of Treasury) (2002)
98. Improvements in Melbourne Port Efficiency (Victorian Department of Infrastructure) (2002)
99. The impacts of an increase in insurance premiums (Victorian Department of Treasury) (2002)
100. Modelling the effects of changes in the electricity industry (Productivity Commission) (2002)
101. The costs and benefits of new gas pipeline alternatives for the QLD economy (QLD Department of Treasury) (2002)
102. Prospects for Greenhouse emissions from the stationary energy sector (AGO) (2002)
103. Costs and benefits of new energy standards for housing (Allen Consulting and the Sustainable Energy Authority of Victoria) (2002)
104. The economic significance of changes in Defence infrastructure spending (ACIL consulting) (2002)
105. The economic significance of an outbreak of Foot and Mouth Disease in QLD (QLD Department of Primary Industries) (2001)
106. The effects of mine closure in the Broken Hill area (Allen Consulting) (2001)
107. The effects of a new automotive parts industry in NSW (Allen Consulting) (2001)
108. The effects of a new Nickel mine and smelter (Allen Consulting ) (2001)
109. The effects of a Space launch Centre on the Christmas Islands (Allen Consulting) (2001)
110. Impacts of a new steel and iron plant for WA (Allen Consulting) (2001)
111. Impacts for QLD of global trading in greenhouse emissions permits and other strategies for reducing emissions (Australian Greenhouse Office, QLD Department of Treasury) (2001)
112. Transport enhancements in MMRF (Bureau of Transport Economics) (2000 and 2001)
113. Impacts of carbon trading on Australia and its regions (Allen Consulting and Minerals Council of Australia) (2000)
114. Impacts of global and domestic carbon trading (Allen Consulting and the Australian Greenhouse Office) (2001)
115. Impacts of an ASEAN free trade zone on the Thailand economy (Thai government and Chulalongkorn University) (2000)
116. Implications for Australia and South Australia of a large-scale mining project (confidential) (2000)
117. The construction of a dynamic multiregional model of the Danish economy (Danish Institute of Agricultural and Fisheries Economics) (2000, 2001, 2002)
118. The contribution of exports to the regional economies (Department of Foreign Affairs and Trade) (2000)
119. Implications for Australia of a large-scale mining project in QLD (confidential) (2000)
120. Regional impacts of taxation policies assessed using a dynamic regional general equilibrium model (an ARC SPIRT project) (1999, 2000, 2001)
121. Projections of long-term energy supply and demand for the South Australian economy (Allen Consulting) (1999)
122. Construction of a dynamic model of the QLD economy and the Rest of Australia (QLD Department of Treasury) (1999)
123. The impacts of a large scale mining project on the Queensland economy (Allen Consulting) (1999)
124. Labour market projections to the year 2010 (Office of the federal leader of the Opposition) (1999)
125. Future infrastructure needs in Melbourne (Infrastructure Victoria) (1998, 1999)
126. The regional impacts of the GST (Queensland Treasury) (1998, 1999)
127. Impacts of E-Commerce (Allen consulting) (1998, 1999)
128. Productivity improvements in agriculture (Department of Natural Resources, Victoria) (1997, 1998, 1999)
129. Water and the Australian economy (Australian Academy of Technological Science) (1997, 1998)
130. The contribution of exports to the Australian economy (Department of Foreign Affairs and Trade) (1998).
131. Effects of technical change in coal production (Productivity Commission) (1997, 1998)

132. Projections of Australian greenhouse gas emissions (Department of Environment, Sport and Territories) (1997).
133. Forecasts for the WA economy (Western Power) (1996).
134. Analysis of the effects of regulatory arrangements on the QLD sugar industry (Boston Consulting Group) (1996).
135. Analysis of the long-term growth prospects of the WA economy (WA Department of Commerce and Trade) (1995).
136. Analysis of the prospects for employment by industry (Commonwealth Department of Employment, Education and Training) (1994-95).
137. Development of the semi-annual publication, *Guide to Growth*, which details the growth prospects of over 100 industries in the Australian economy (Syntec economic services) (1993).
138. Analysis of the effects of international tourism on the Australian economy (Bureau of Tourism Research) (1989-93).