

# Sydney's housing markets during the Global Financial Crisis: how was globalisation mediated?

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**Abstract:** In the five years since the GFC began, Australia has experienced very different housing market impacts than most other Anglo economies. Housing prices did not crash, and homeowners remain relatively stable. Nevertheless, there were significant consequences. The effects of temporary stimulus measures, of changing patterns (and regulation) of foreign investment, and changes in the availability of credit, have different implications for the affordability of homeownership and rental, and have affected different types of owners and renters in distinctive ways. The spatial outcomes of these changes are particularly interesting, and help explain some of the development barriers that Sydney has faced over the period. The paper defines different segments of Sydney's housing markets, and investigates how home prices and rents varied across those markets. The conclusion reflects on the housing market outcomes of Sydney's changing global integration.

## Introduction

Sydney's global position is determined not only by its effective lifestyle marketing strategies (Acuto 2012) or its role as a Pacific-Rim centre of financial and producer services (Taylor 2010; Searle and De Valence 2005), but also by its complex stratified property markets. Investment capital and labour flows are mediated by the particular opportunities and barriers encountered in specific local housing markets. The city's attractiveness as a destination for both international investors and for an internationalised workforce was enhanced by its relative stability over the financial crisis of 2008-2010. In the six years since the collapse of Lehman Brothers triggered a near-disaster for the finance sectors and housing markets of many economies, Australia experienced little more than a short-lived flattening of home prices. While the mining boom and China's rapid growth over this period were significant insulators for Australia, even in those states where growth was sluggish (such as NSW), neither employment nor housing prices reacted as many feared (Yates and Berry 2011; Murphy 2011). In Sydney overall, real home prices increased steadily after a mild downturn between late 2008 and 2009 (partly in response to stimulus measures including lower interest rates), while rents increased substantially. Sydney represents an interesting case study of how the effects of the GFC were mediated by the nature of its integration into a particular segment of the global economy, and by the way that these economic links transformed the city's socio-economic geography.

The sharpening divisions between those benefitting from growing concentrations of housing wealth, and those marginalised from that wealth, have been a key theme in both global (inter-city and -national) and local (intra-city) redistributions of advantage (Forrest 2008). How those divisions have driven the further socio-spatial restructuring of particular cities is an interesting empirical question that may help tease out the contingent and often singular urban economic consequences of globalisation (Bryan et al 2005). How did the nature of Sydney's integration into a global economy mediate the sorts of housing market outcomes it experienced over the GFC? How did these effects play out in different housing markets across the metropolitan area? Given Sydney's increasing socio-spatial segmentation, driven in part by its evolving role as a global city on the Pacific Rim, the spatial outcomes of increases in prices and rents have important distributional consequences. Clearly they affected existing home owners differently from prospective buyers, and from renters. In this paper, I argue that they also have different consequences for mobile affluent global workers compared to others.

This paper investigates the spatial outcomes of housing market trends associated with the period before, during, and after the GFC (2006 to 2012) across the Sydney metropolitan area. The paper begins by reviewing recent research on Sydney's evolving global role and the role of housing markets in globalisation. The following section reviews methodological issues related to the analysis of housing sub-markets, and presents the methodological framework for the empirical analysis. In Section 4 I develop a spatial model of housing markets, based on a cluster analysis of demographic and economic characteristics drawn from the 2011 Census of Population and Housing, at the

postcode level. The cluster analysis is intended to approximate the geography of global integration across the metro area. Next, trends in real prices and rents are examined across these housing market types. The conclusion reflects on what the spatial analysis suggests about how Sydney's changing global role mediated the housing market impacts felt by different types of households.

## **Sydney's global rise**

Sydney's consistent top-ten ranking in international liveability indices (heavily dominated by the priorities of transnational corporate workers), and its recent elevation to "alpha +" status in producer-services based rankings of world cities (Taylor 2010) offer convincing evidence of the success of an entrepreneurial state strategy framed around entertainment, events and "lifestyle branding" (Acuto 2012) rather than traditional corporate incentives (which the state has limited ability to deliver). Migration has been an important growth engine, but it has been bifurcated: high-skilled transnational workers recruited to the financial and professional services sectors, and younger migrant skilled workers recruited through a points-based system of preferences for specific occupations (for instance, nurses, or construction managers) (Forrest, Poulsen and Johnston 2003; Hawthorne 2005).

Sydney also represents an attractive and rapidly appreciating property market, with Asian-based investors funding new luxury high density developments capitalising on the waterfront and CBD fringe amenity, which offer effective risk diversification for investors based in more volatile Chinese, South-East Asian and Middle Eastern property markets (Colliers International 2012; Schlesinger 2012). But the increasing disconnect between earnings and housing prices has resulted in a median income to price ratio of 1:9.2, third in the Anglo world only to Vancouver and Hong Kong (and well above New York's ratio of 1:6.2, or London's 1:6.7) (Demographia 2012).

Many writers have pointed to the sharpening social stratification associated with Sydney's global ascendancy (Raskall 2002; Baum 2008). Reflecting on the 1990s era record economic growth, Raskall finds a widening gap between absolute incomes and income growth for suburbs in the lowest and highest deciles, and points to a reconfiguration of the spatial distribution of income across the metropolitan area. He argues these findings demonstrate the concentration of the benefits of globalisation in Sydney in contrast to its hinterland, and also the dramatic (and retrogressive) redistribution of those benefits among the city's residents (Raskall 2002, 298).

Baum too finds convincing evidence that Sydney "is a tale of two cities, that starts in the deprived Western suburbs and ends on the storied north shore" (Baum 2008, 16). His analysis of a wide range of indicators finds substantial numbers of Sydney's suburbs in both the most- and the least-disadvantaged categories. Dodson and Sipes (2008) similarly identified Sydney's western suburbs as some of the most vulnerable to the combined (globally generated) pressures of rising fuel prices and increasing mortgage interest rates.

The narratives of worsening housing affordability and increasing social inequality are part of the standard litany of "the negative consequences of globalization" (Sassen 2001; Lo and Marcotullio 2000). Perhaps a more interesting question is how and why these negative and positive outcomes are distributed, and whether this is always the same across cities. Bryan et al (2005) argue for more "grounded understandings of what drives contemporary accumulation and distribution processes..." (Bryan et al 2005, 1) that will address questions such as "who and where are the territorial winners and losers" (Bryan et al 2005, 8).

The role of property investment and financial flows in distributing benefits and imposing costs more broadly also needs to be understood in terms of the consequences these flows have for actual places and the people who rent, borrow, and own within those places (Smith 2002; Leyshon 1996; Boyer 2000). Ray Forrest argued (presciently) that "housing systems are now more intimately embedded in a global economy and in an institutional structure in which global institutions exert greater influence (Forrest 2008, 168). Pointing to the increasing concentration of housing assets in "pockets of hyperappreciation" (Forrest 2008, 175), he traces the consequences of easier international flows (of some people, and of finance) in creating "a cumulative and interconnected set of advantages for those with the necessary employment and social credentials to be residents of those privileged enclaves" (Forrest 2008, 173). How have those forces played out in Sydney specifically, and where are those "privileged enclaves" (if they exist)? How did different housing markets – the advantaged and the marginalised – experience the most recent GFC? I address these questions through a

multivariate analysis of housing sub-markets. The following section provides the context for the methodological approach used in this paper.

### **Understanding housing sub-markets**

Housing is a unique type of “commodity” because it is a bundle of goods rather than an individual good (Galster 1996). Because it is multifaceted, simple indicators such as price are too limited a basis for identifying the sub-markets within which prospective buyers or renters search. Housing choice is likely to be determined by a much wider range of considerations: access to schools, jobs, transport modes, and particular combinations of amenity. In turn, housing sub-markets may be seen as a crucial mediator of social and economic opportunity. The concept of housing submarkets ties together a variety of elements related to the dynamics of supply and demand.

There are a diversity of approaches to defining housing submarkets. One of the key differences is between definitions that focus on the characteristics of individual dwellings, and those that focus on location (Galster 1996). Grigsby (1963) argued that markets are defined by “close substitutability” of dwellings, which segments markets into groups of housing units of similar quality, within which consumers will purchase similar levels of utility. Housing submarkets represent a set of economic relationships within a social space defined by non-economic attributes such as racial segregation, information flows, crime rates, and school quality (Kain and Quigley 1975; Burrows and Gane 2006; Bates 2006). Thus, housing markets (like labour markets) have become increasingly fragmented and mosaic-like as cities have expanded, global migration flows have become more complex, and socio-economic inequalities have intensified (Poulsen, Johnston and Forrest 2002).

One approach to defining submarkets uses an hedonic method, modeling the attributes of individual dwellings to identify those that consumers would see as substitutes (in other words, homes of similar quality) (Galster 1996; Bourassa Hoesli and Peng 2003). Most of those analyses, however, have concluded that location plays a major defining role. A second approach has been to rely on identifying functional regions, based on migration-sheds, home-work linkages, or real estate agent interviews about information flows (Brown and Hincks 2008). A third approach focuses on statistical techniques to identify commonalities among small spatial units (such as postcodes or collection districts), usually through some combination of factor analysis and cluster analysis (Goetzman, Spiegel and Wachter 1998; Burrows and Gane 2006; Bates 2006). This method is closely related to the construction of indices to model socio/spatial structures (such as indices of dissimilarity, residential concentration, and similar) (Poulsen Johnston and Forrest 2002). An advantage of this last approach is the relative ease of access to data for small spatial units, compared to the volume of detailed information needed for individual units in hedonic analyses. If we accept that broader social and economic conditions are important attributes of “location,” and may serve as a suitable proxy for physical amenities, this approach has some merit.

### ***A methodology for local housing market analysis***

Cluster analysis is a useful tool for identifying similarities among cases on multiple dimensions. Essentially, the clustering process is iterative, comparing cases on several dimensions simultaneously and using hierarchical algorithms to form clusters made up of cases that are closer (more similar) to one another than they are to cases in other clusters (Aldenderfer and Blashfield 1984). The cluster centroid is defined by the mean value of all cases in the cluster on each dimension. Each case is identified by both its cluster membership and its distance from the cluster centroid (Aldenderfer and Blashfield 1984). Clusters can be validated or tested in several ways. Using cluster membership to test for relationships with variables that were not used in the analysis is a useful way to evaluate the outcomes, because it shows whether the clusters are meaningful.

But what variables should be used to analyse multivariate similarities and differences? Given our focus here is on how Sydney’s global rise has been reflected in housing market outcomes, a few indicators are clearly relevant. Median household incomes capture the relative economic benefits households enjoy. The proportion of people migrating from overseas over the previous five years, and the proportion who were foreign born, capture Sydney’s role as a labour market magnet. Changes in the proportion of people employed in the finance and producer services sectors, the sectors most closely associated with Sydney’s global Pacific Rim role, capture the domestic employment outcomes of globalisation. Other variables merit inclusion because they reflect demographic differences that distinguish housing markets. Median age of household head,

proportion of renters and owners, and household structure, all capture important elements of the demographics driving housing market preferences. The data were obtained from the 2011 ABS Census of Population and housing database. The analysis is done at the postcode level because that is the most detailed spatial scale at which median rent and housing price data are reported (see discussion below). While postcodes do not provide as much spatial specificity as mesh blocks would, converting postcode-based price and rent data to finer spatial scales would introduce substantial inaccuracies.

One of the main challenges is dealing with the statistical problems raised by the relationships among variables. We might expect, for instance, that median age would be correlated with household income, as would proportion of people employed in financial and producer services. Principle Components analysis offers us a way to avoid this problem, by transforming a set of correlated “real” variables (income, age of household head) into a statistically independent set of “artificial” variables, or factors. While principle components analysis is merely a statistical technique that does not necessarily identify meaningful factors, and thus should not be used as the sole method of investigating how multiple attributes are distributed across cases, it does work effectively as a method of limiting correlation amongst the variables used to cluster cases (Afifi, Clark and May 2004). The principle components shown below are meaningful, with higher loadings (in this case we used a component score of at least 0.5, positive or negative, as the basis for interpreting which variables loaded highest on which factor) on variables that we might expect would be associated, but they avoid the correlation problems that would distort the cluster results by overemphasizing (by double counting) some attributes (Afifi, Clark, and May 2004). Factors are also useful because they summarise a larger number of variables into a more concise form. The principle components calculated as the basis for this analysis (with an eigenvalue over 1) are shown in Table 1.

**Table 1: Principle Components extracted**

Variable	Component		
	1	2	3
percent renters	.532	-.802	-.001
median age	-.096	.586	-.602
median monthly mortgage	.710	.544	.143
median weekly rent	.786	.390	.199
median weekly household income	.642	.664	.186
percent born in Australia	-.408	.646	-.453
percent persons at same address in 2006	-.774	.513	.110
percent persons moved from overseas since 2006	.752	-.541	.225
percent couples with children	-.389	.497	.700
percent single parent with children	-.721	-.489	-.040
percent couples with no children	.734	-.202	-.619
percent single person households	-.504	-.570	.121
percent employed in finance and producer services industries	.924	.143	.060
Eigenvalues	5.475	3.722	1.618
percent of variance explained (cumulative)	42.113	28.631 (70.745)	12.445 (83.189)

Source: Calculated from 2011 ABS Census of Population and Housing data by the author

In this case, thirteen “real” variables have been transformed into three factors. Together, the three factors explain 83% of variation in the cases analysed. The average variable values associated with each factor are summarized in standardized scores (shown in Table 1), which we can use to understand the combination of characteristics each factor “stands for.” Thus, the first factor shown in Table 1 is associated with places with high housing costs and incomes, and higher proportions of renters and overseas migrants. This factor also loads strongly on proportion of residents working in the financial and producer services sectors. The second factor is associated with places with older household heads and higher proportions of owners, with higher incomes and more people born in Australia. The third factor is associated with younger household heads and more families with children. The point of this step in the analysis is to create a small set of uncorrelated but meaningful indicators we can use as the basis for our cluster analysis.

### Defining clusters of housing sub-markets

The next step in the analysis is to test out alternative methods of clustering cases, to get a sense of which solution would be most useful. K-means clustering has several advantages when dealing with a large number of cases, but it is important to test several alternative numbers of groups. Too few or too many groups can result in clusters that are too large and undifferentiated or too small and unique. The analyses were tested with from two to seven clusters, and the degree of association with key variables (both those used to construct the factors and those excluded) was examined to determine the usefulness of each solution. In each case, iterations were continued until clusters converged. The same analysis was run on a randomly selected sub-set of cases (postcodes) to determine whether the results were affected by the postcodes included. The final solution chosen identified five clusters, ranging in size from 21 to 81 postcodes. Table 2 summarises the association between cluster membership and scores on the underlying variables summarised in the factors that were used to cluster the cases.

**Table 2: Housing sub-market clusters**

Variable	Cluster					Mean
	1	2	3	4	5	
percent renters	23.90%	53.30%	20.19%	22.35%	34.73%	29.70%
percent home owners	73.43%	44.81%	77.60%	76.02%	63.45%	68.34%
median weekly household income	\$1,102.71	\$1,889.73	\$1,548.87	\$2,164.18	\$1,268.44	\$1,597.00
median weekly rent	\$270.00	\$478.77	\$352.26	\$490.60	\$329.79	\$383.81
median monthly mortgage	\$1,865.81	\$2,692.80	\$2,339.94	\$2,820.22	\$2,078.80	\$2,363.60
median age	42.95	34.67	39.03	38.07	34.44	37.13
percent born in Australia	78.23	51.31	73.14	64.76	50.87	61.84
percent at same address in 2006	57.91	35.61	63.69	57.90	57.43	56.50
percent moved from overseas since 2006	1.72	15.98	2.86	6.81	8.59	7.08
percent employed in finance / producer services	13.57	38.17	18.04	30.30	18.89	23.07
percent families with children	26.82	22.04	32.26	36.84	32.71	31.73
percent single parents	9.40	4.63	6.25	4.72	8.30	6.65
percent couples with no children	41.32	55.63	34.40	33.16	29.77	35.76

percent single person households	8.20	6.57	7.53	6.38	9.73	7.93
N	21	30	62	55	81	249

Source: Calculated from 2011 ABS Census of Population and Housing data by the author

Cluster 1 might be labelled “lower income older owners.” Postcodes in this cluster were associated with higher proportions of home owners, few international migrants, and high proportions of people born in Australia. Cluster residents had low incomes and low housing costs, and more of them were couples with no children or single parents with children compared to the average. Low proportions were employed in the finance and producer services industries.

Postcodes in Cluster 2 had high proportions of residents working in finance or producer services industries, lower than average proportions of residents born in Australia, and more than twice the average proportion of overseas migrants. Residents of this cluster were younger and more likely to be renters, but they also had higher than average incomes and housing costs. This cluster might be labelled “affluent young and global.”

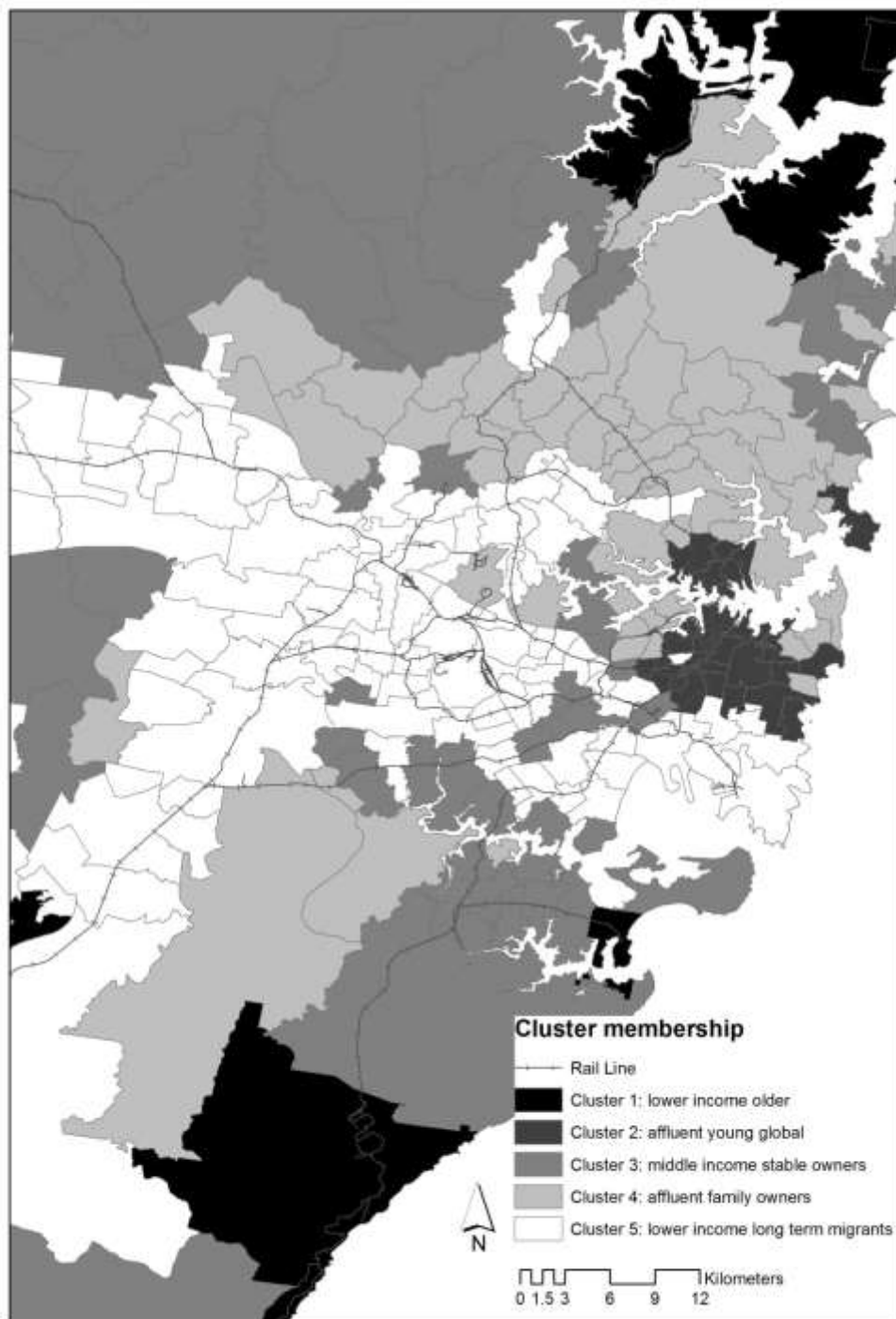
Cluster 3 was made up of postcodes associated with average housing costs and incomes, higher proportions of owners with family structures typical of the metro area, higher proportions of residents born in Australia and few overseas migrants. Lower than average proportions of residents worked in finance and producer services industries. This cluster might be labelled “middle income stable Australian home owners.”

Like Cluster 2, residents of Cluster 4 were more likely to be employed in finance and producer services, and to have high incomes and housing costs. However they were less likely to be foreign born, and more likely to be home owner families with children. This cluster could be described as “affluent family owners.”

Finally, residents of Cluster 5 were more likely to have been born outside of Australia, but lower proportions had moved from overseas in the past five years compared to Cluster 2. Residents had lower incomes and housing costs, were slightly younger than average and slightly more likely to be renters. Lower than average proportions were employed in finance and producer services. These postcodes might be described as “lower income long term migrants.”

Figure 1 shows the distribution of these clusters across the metropolitan area. Cluster 1 is distributed around the fringe of the greater metropolitan area, while Cluster 2 is concentrated around the CBD and the eastern suburbs. The band of Cluster 5 postcodes follows the western and southern rail lines quite closely. There is less widespread rail access through the middle income stable owner cluster.

**Figure 1: Housing sub-markets in the Sydney metropolitan area**



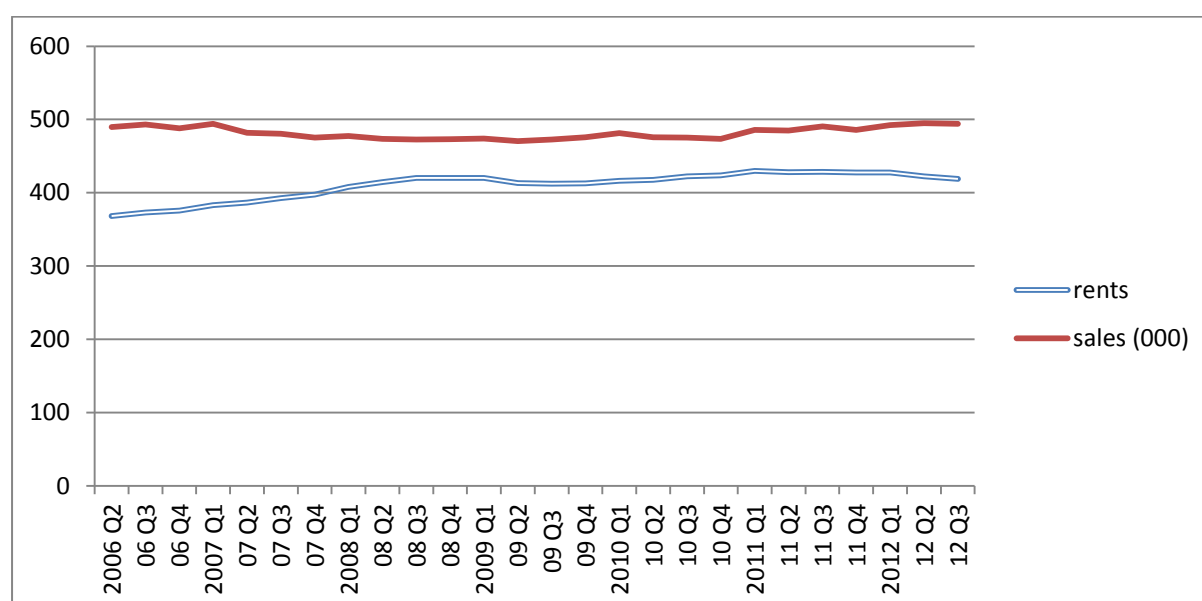
Source: Calculated from 2011 ABS Census of Population and Housing data by the author

The following section explains how housing prices and rents were analysed.

## Trends in housing prices and rents

Data on median house prices and median weekly rents were obtained from the was obtained from the Rent Reports and Sales Reports released quarterly by NSW Housing, which are based on data gathered by NSW Lands and Property Management Authority (LPMA) from property title records and Rental Bond Lodgement forms filed with the Office of Fair Trading (NSW Housing 2013). Median prices have some limitations; they do not differentiate changes in prices resulting from changing composition in the housing stock. However, they offer a straightforward way of capturing trends in the cost of both owner- and renter-occupied housing. Prices were standardised using the ABS Existing House Price index (March 2013 = 100), and the housing component of the CPI was used to standardise rents. The prices and rents shown in Figure 2 are thus expressed in real terms. The time series also smoothed curves by averaging each quarter based on the quarters immediately before and after. Figure 2 shows smoothed trends in real home prices (\$000) and weekly rents over our study period, 2006 to 2012.

**Figure 2: Trends in real rents and sales prices, 2006-2012**



Source: Calculated by the author from data obtained from NSW Housing Rent and Sales Reports, 2006-2012

Home prices demonstrate a different trajectory over this period than rents. Prices dipped with the onset of the GFC in the third quarter of 2008, but soon recovered and by the end of the period were once again at 2006 levels in real terms, reflecting the effects of stimulus measures and interest rate cuts introduced in the wake of the GFC. Lagging home ownership was reflected in increasing competition for rental housing, which increased steadily in real terms over the period.

How did these trends play out over the metropolitan area, and were they associated with the clusters of housing sub-markets identified above? To answer this question, we used a one-way Analysis of Variance to investigate whether price and rent trends differed significantly across the five clusters outlined in the previous section. Table 3 summarises the results of these analyses.



**Table 3: Trends in rents and sales by cluster, 2006-2012**

	percent change in rents	percent change in sales prices
1	8.290	-11.783
2	10.716	7.262
3	11.959	0.704
4	12.032	-1.558
5	15.134	4.469
Total	12.761	1.642
F (sig)	2.665 (.034)	11.928 (.000)

Source: Calculated by the author from data obtained from NSW Housing Rent and Sales Reports, 2006-2012

The “lower income older owners” cluster experienced the most substantial decline in housing prices, and the lowest overall increase in rents. Residents of these postcodes saw real erosion in housing wealth over this period, but lower than average rent increases meant housing costs remained affordable. The other cluster with real home price declines were “affluent family owners,” although these effects were far less sharp than Cluster 1. In contrast, rents rose in these postcodes at a faster than average rate. These postcodes experienced both decreasing rental affordability and lower housing wealth accumulation. Cluster 3, “middle income stable home owners,” experienced very similar trends, with real home price rises close to zero, and similar increases in rents.

The two clusters representing Sydney’s bifurcated global enclaves experienced quite different trends. The affluent mobile residents of Cluster 2 saw below average rent increases over the period, but the highest rate of home price appreciation. These postcodes benefitted from housing cost trends over the study period, with improving rental affordability but also improving housing wealth. Cluster 5 also saw increases in real home prices, which would benefit existing owners, but this was combined with the steepest increases in rents. As households in these postcodes tended to have higher than average proportions of renters, a substantial proportion of residents would have experienced deteriorating housing affordability.

## Discussion

The geography of Sydney’s integration into the global economy reveals the differentiated nature of that integration. Most interesting for our purposes here are the quite sharp lines of differentiation between global and local enclaves, and within the two types of globally integrated localities. The mobile and affluent finance and producer services sector employees concentrated within easy reach of Sydney’s Global Arc saw significant improvements in their housing circumstances through the turmoil of the GFC. Housing asset wealth likely became further concentrated for homeowners in these locations, while housing affordability appeared to improve for mobile renters. These are most likely to be the renters with the greatest range of choice, given their relatively higher incomes.

While housing asset wealth also improved (but less sharply) for lower income longer term migrants in the transit-accessible neighbourhoods to the City’s west and south, housing affordability became more problematic for the substantial proportions of households who rent rather than own. Others have found that Australia’s immigrants take approximately twenty years to make up the home ownership gap with native-born Australians (Chua and Miller 2005). For the global labour force outside of the finance and producer services sectors, that gap is likely to have widened, with high rents slowing the accumulation of the down payment needed to progress to home ownership, and housing prices in those locations increasing faster than average.

These results may also point to a significant role that migration may play in bolstering house prices. In locations with fewer international residents and less overseas migration, house prices declined or at best remained stagnant in real terms. The metropolitan fringe locations of older lower income

households saw substantial and significant erosion in value. Values stagnated in the lower north shore locations of affluent owner occupiers, despite the fact that these households too were more likely to be employed in the finance and producer services industries. Similar trends were found in the middle income owner occupied suburbs further from the centre. In contrast however, both of these owner-dominated clusters saw quite sharp increases in rents. Access to these stable family neighbourhoods became more difficult for moderate to lower income renters.

## **Conclusions**

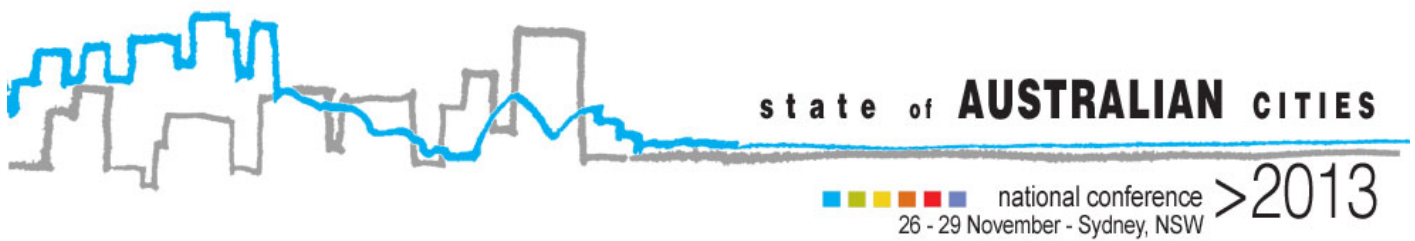
Housing price appreciation plays a substantial role in both attracting international investment, and in rewarding the mobile professional employees of Sydney's finance and producer services industries. The concentration of the upswing in metropolitan housing prices (combined with moderate rent increases) in the enclaves dominated by an affluent globalised workforce demonstrates how Sydney's global integration has aided the housing-based wealth of this cohort. In contrast, the moderate increases in value in the metropolitan sub-markets that house longer term lower income migrants is over shadowed by the substantial increases in rents in these locations, benefiting property investors to a greater degree than owners. Sydney's metropolitan fringe, however, is distinguished by the increasing marginalisation of older, lower income owners from the benefits of metropolitan housing gains. Few of the benefits of asset growth accrued to the city's traditional housing elites, or to the middle income suburban home owners less tied to the global employment sectors of the centre.

The political ramifications of this restructuring are intriguing. Opposition to growth has been concentrated in many of the North Shore and Eastern suburbs locations which have seen historic patterns of housing wealth accumulation reversed, in favour of once undesirable inner city locations such as Pyrmont, Alexandria, and Paddington. Further research is needed on the contribution of housing stock changes, and in particular the effects of metropolitan densification strategies, to this redistribution of housing asset wealth. The results also raise interesting questions about the social transformations underway in the enclaves of globalised affluence; many of the locations where home price appreciation has been sharpest are locations with historic concentrations of social housing. How will these new patterns of property-based wealth affect the city's socio-economic fabric?

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# SOAC Conference Proceedings and Powerpoint Presentations

## Editors Foreword

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## Editors' Foreword

Ten years since the original State of Australian Cities (SOAC) conference, SOAC 2013 was the largest conference to date, with over 180 papers published as part of these proceedings. All papers presented at the SOAC 2013 and subsequently published as part of the proceedings have been subject to a double blind refereeing process. All papers have been reviewed by at least two referees. In particular, the review process assessed each paper in terms of its policy relevance and the contribution to the conceptual or empirical understanding of Australian cities. The review process ensured the highest academic standards. The Editors wish to thank referees and contributors for their efforts in responding to tight publication timelines. The breadth and quality of papers included as part of these proceedings is testament to the strength of Australian urban studies.

Kristian Ruming, Bill Randolph and Nicole Gurran

Sydney

19 December 2013

## Economy

[Sufficiency of Employment Self-Sufficiency Targets in Reducing the Need to Travel – Presentation](#)

*Sharon Biermann and Kirsten Martinus*

[Growth of the Creative Economy in Small Regional Cities: A case study of Bendigo - \*Presentation\*](#)

*Andrew Bishop and Sun Sheng Han*

[Selling Newcastle to the World, or to Newcastle? A case study of the official and unofficial rebranding of Newcastle, NSW](#)

*Laura Crommelin*

[The Role for the UPE Project in Australia](#)

*Kathryn Davidson*

[Canberra 2013 Planning and Urban Development Challenges at the Centenary of the National Capital](#)

*Karl Fischer and James Weirick*

[Airports as Development Generators: A reconnaissance of employment trends in the Sydney airport region 1996–2011 – \*Presentation\*](#)

*Robert Freestone and Andrew Tice*

[A City that Makes Things: Reconstituting manufacturing](#)

*Chris Gibson and Andrew Warren*

[The Devil is in the Detail: What's behind manufacturing growth and decline in Melbourne, 2001–2011 – \*Presentation\*](#)

*Anthony Kent and Kathleen Hurley*

[Sydney's Housing Markets During the GFC: How was globalisation mediated? – \*Presentation\*](#)

*Heather MacDonald*

[What Impact does Workplace Accessibility Have on Housing Prices? Sydney 2006 – 2011 – \*Presentation\*](#)

*Heather MacDonald, Alan Peters, Natalya de Pooter, and Ji Yuan Yu*

[Property Tax Reform A contribution to housing affordability and challenges for government in Australia](#)

*Vince Mangioni*

[Accelerating Regional City Growth in Victoria: Evidence and policy approaches – \*Presentation\*](#)

*Chris McDonald, Shishir Saxena and Vinnie Maharaj*

[Intra-metropolitan Housing Supply Elasticity in Australia: A spatial analysis of Adelaide – \*Presentation\*](#)

*Ralph B. McLaughlin, Anthony Sorensen and Sonya Glavac*

[Road Costs Associated with Differing Forms of Urban Development](#)

*Martin Nichols*

[Adjustment to Retrenchment – A case of challenging the global economy in the suburbs? – \*Presentation\*](#)

*Johannes Pieters*

**The Urban Boundary: An economic activity perspective of South-East Queensland – *Presentation****Lavinia Poruschi***Why has Melbourne Closed the Gap on Sydney Since 2000?***Glen Searle and Kevin O'Connor***Waves of Suburban Economic Development: Outer Western Sydney's next ride – *Presentation****Samantha Sharpe and Dustin Moore***Corporate Clustering in Australian Cities: An analysis of the geographic distribution of ASX-listed headquarters***Thomas Sigler***Master Planned Estates, Living Experience, and the Experience Economy – *Presentation****Paul Smith***An Open-Source Tool for Identifying Industrial Clusters in a Data-Poor Environment***Sophie Sturup, Jennifer Day and Yiqun Chen***Tipped Off: Residential amenity and the changing distribution of household waste disposal in Melbourne - *Presentation****Elizabeth Taylor***Liveable Housing Design: Who will take responsibility? – *Presentation****Margaret Ward, Jill Franz and Barbara Adkins***An Analysis of Commuting Patterns in Sydney, 2006–2011, Using Spatial Interaction Models***Martin Watts***Social****A tale of two cities – patterns of population growth and change in Sydney and Melbourne – *Presentation****Simone Alexander***A Good Place to Raise a Family? Comparing parents', service providers, and media perspectives of the inner and outer suburban areas of Melbourne – *Presentation****Fiona Andrews, Sarah Barter-Godfrey, Stephanie Rich, Ruth Klein & Julia Shelley***Acknowledging the Health Effects of Poor Quality Housing: Australia's hidden fraction***Emma Baker, Laurence Lester, Andrew Beer, Kate Mason and Rebecca Bentley***How Common – Sex, malls, and urban parks**

*Spike Boydell*

[“We are a Family – It makes sense to live together”: Multigenerational households in Sydney and Brisbane – Presentation](#)

*Hazel Easthope, Edgar Liu, Ian Burnley & Bruce Judd*

[If I Come Back in a Few Years and Nothing has Changed, I'll be MAD!: Lessons in co-planning with children from the CATCH/iMATCH Citizen Kid's Planning Group – Presentation](#)

*Andrea Cook, Carolyn Whitzman and Paul Tranter*

[Can I Touch This?](#)

*Melissa David and Mellini Sloan*

[How and Why does Community Opposition to Affordable Housing Development Escalate? “Unsupported development” in Parramatta, NSW](#)

*Gethin Davison , Crystal Legacy, Edgar Liu, Ryan van den Nouwelant and Awais Piracha*

[Measuring Social Interaction and Community Cohesion in a High Density Urban Renewal Area: The case of Green Square – Presentation](#)

*Hazel Easthope and Nicole McNamara*

[The Role of Fun in City Centre Revitalisation Projects: Children and fountains](#)

*Claire Freeman*

[The Loss of Low Cost Coastal Holiday Accommodation – Causes, cases and consequences - Presentation](#)

*Helen Gilbert*

[Promoting Positive Aging: University campuses as a model – Presentation](#)

*Tracie Harvison*

[Measuring the Changing Face of Global Sydney – Presentation](#)

*Richard Hu*

[Digital Suburbs? Some policy implications of greater domestic connectivity](#)

*Louise Johnson*

[Understanding Downsizing in Later Life and its Implications for Housing and Urban Policy – Presentation](#)

*Bruce Judd, Edgar Liu, Hazel Easthope and Catherine Bridge*

[The Wander Years: Estate renewal, temporary relocation and place\(lessness\) in Bonnyrigg, NSW – Presentation](#)

*Edgar Liu*

[Darwin After Dark: Illuminating suburban atmospheres](#)



*Michele Lobo*

[Integrated Planning for Healthy Communities: Does Victorian state legislation promote it?](#)

*Melanie Lowe, Carolyn Whitzman and Billie Giles-Corti*

[Getting to Yes: Overcoming barriers to affordable family friendly housing in inner Melbourne – Presentation](#)

*Martel, A., Whitzman, C., Fincher, R., Lawther, P., Woodcock, I. and Tucker, D*

[Ethical & Political Consumption and Opportunities for Change in Australian Shopping Centre Design](#)

*Kirsty Mate*

[Vertical Mixed Use Communities: A compact city model?](#)

*Idelina Mateo-Babiano and Sébastien Darchen*

[Pedagogy of Oppressed Community Engagement: Socially inclusive visioning of sustainable urban regeneration – Presentation](#)

*Helen Meikle and David Jones*

[Planning for Organized Sport in the Fringe Suburbs of Australian Cities: A case study of Perth – Presentation](#)

*Garry Middle, Marian Tye, Diane Costello, Dave Hedgcock and Isaac Middle*

[The Yard goes on Forever: Community initiatives in maintaining and revitalizing local open space](#)

*David Nichols and Robert Freestone*

[New Housing Development at Hobsonville: Promoting and buying into a “natural” community – Presentation](#)

*Simon Opit and Robin Kearns*

[Developing a Typology of Socio-spatial Disadvantage in Australia – Presentation](#)

*Hal Pawson and Shanaka Herath*

[Negotiating the Complexities of Redevelopment Through the Everyday Experiences of Residents: The incremental renewal of Bonnyrigg, Sydney – Presentation](#)

*Simon Pinnegar*

[Sustainable Housing in Aged Care Facilities – Presentation](#)

*Kate Ringvall and Julie Brunner*

[Perceptions of Place – Evaluating experiential qualities of streetscapes](#)

*John Rollo and Suzanne Barker*

[Predictors of Overall Living Satisfaction in Medium Density Housing: Results from a household survey – Presentation](#)

*Jeeva Sajan*

### Feeding the City – Food production on the fringe and within the urban area

*Ian Sinclair*

### Can the Universal Concept of Community Policing be Applied in Different Jurisdictions?’ A cross comparative analysis of policing in Sydney, Bosnia and New York

*Kenan Smajovic and Awais Piracha*

### Planning and Building Healthy Communities - *Presentation*

*Susan Thompson, Emily Mitchell and Belinda Crawford*

### Who Lives in Retirement Villages; Are they wealthy enclaves, ghettos or connected communities?

*Lois Towart*

### The Food Security of the Australian Capital Region

*Rachael Wakefield-Rann and Robert Dybal*

### Rethinking Accessibility in Planning of Urban Open Space. Using an Integrative Theoretical Framework

*Dong Wang, Iderlina Mateo-Babiano and Gregory Brown*

### Can Outer Suburbs Become 20 Minute Cities? – *Presentation*

*Carolyn Whitzman, Danita Tucker, Andrew Bishop, Andreanne Doyon, Cait Jones, Tamara Lowen and Elissa McMillan*

### Housing Affordability for Key Workers Employed in the City of Melbourne

*Gareth Williams and Bethanie Finney*

### Producing Multicultural Belonging: The possibilities and discontents of local public spaces in suburban Sydney

*Rebecca Williamson*

### Children’s Accounts of Confronting City Street Life: Can the inner city be truly child-friendly?

*Karen Witten, Robin Kearns and Penelope Carroll*

### The role of streets within placemaking in cross-cultural contexts: case studies from Adelaide and Georgetown, Malaysia

*Alpana Sivam and Sadasivam Karuppannan*

### Renewing Tonsley, Regenerating Adelaide – The making of Australia’s most competitive city

*Megan Antcliff and Ingo Kumic*

## Environmental

### Creating a Liveable City – The role of ecosystem services – *Presentation*

*Phillip James Birtles, Jenna Hore, Michael Dean, Rebecca Hamilton, John Dahlenburg, Jo Ann Moore and Michele Bailey*

[Rooted: Planning and food security in Australian cities – Presentation](#)

*Paul Burton*

[Sustainability Through Community: Social capital in the inner urban eco-community – Presentation](#)

*Liam Cooper*

[Media Representations of Nature in the City](#)

*Kathryn Eyles*

[Climate change vulnerability and adaptation: voices from the community services sector in Victoria – Presentation](#)

*Hartmut Fünfgeld, Alianne Rance, Philip Wallis, Sophie Millin, Karyn Bosomworth and Kate Lonsdale*

[Six Million in Melbourne or a Network of Sustainable Midi-Cities? – A thought experiment](#)

*R.J. Fuller and L. Trygg*

[Green Resources in an Urbanising Sea Change Landscape – Presentation](#)

*Renee Fulton*

[Comparing Food Efficient Design and Planning of Built Environments in Sydney and Miami – Presentation](#)

*Sumita Ghosh*

[Development and Trial of an Automated, Open Source Walkability Tool Through AURIN's Open Source Portal – Presentation](#)

*Billie Giles-Corti, Gus Macaulay, Nick Middleton, Bryan Boruff, Carolyn Whitzman, Fiona Bull, Iain Butterworth, Hannah Badland, Suzanne Mavoa, Rebecca Roberts and Hayley Christian*

[A New Way of Living with Nature? Zones of friction and traction in Nangari Vineyard Estate, South West Sydney](#)

*Charles Gillon*

[Comparing Local Government Adaptation Responses to Climate Change in Australia and Sweden – Presentation](#)

*Leigh Glover and Mikael Granberg*

[Slip Sliding Away: Auckland's response to the political erosion of climate change mitigation initiatives](#)

*Julia Harker, Patricia Austin, Megan Howell, Stephen-Knight Lenihan and Prue Taylor*

[The Wicked Muse: Partnering creative practice, local communities and sustainability – Presentation](#)

*Viveka Hocking*

[The Paradox of Paradise: Declining government responses to the increasing risks of climate change for the Gold Coast – Presentation](#)

*Michael Howes and Aysin Dedekorkut-Howes*

[Beyond Birdies – Enhancing biodiversity on urban golf courses – Presentation](#)

*Brent Jacobs, Louise Boronyak, Nicholas Mikhailovich, Jeanie Muspratt*

[The Power to Save: An equity analysis of the Victorian Energy Saver Incentive in Melbourne – Presentation](#)

*Victoria Johnson and Damian Sullivan*

[Decision Making in the Face of the Rising Tide – Presentation](#)

*Kellett J, Balston J, Li S, Wells G and Western M*

[Finding Appropriate Participation in Urban Planning for Reduction of Disaster Risks](#)

*Maria Kornakova and Alan March*

[Mapping CO2 Emission from Commuting in Regional Australia](#)

*Simone Leao and Alan March*

[‘Towards a Resilient Sydney’ – Climate change adaptation planning for Sydney – Presentation](#)

*Christopher Lee, Norma Shankie-Williams and David Mitchell*

[Urban Structure and Evacuation Times in a City Fringe Bushfire: Modelling three scenarios in Bendigo, Victoria](#)

*Jorge Leon and Alan March*

[Towards a Greater Understanding of Healthy Food Accessibility in Melbourne: Part II](#)

*Margalit Levin and Yiqun Chen*

[Urban Planning for Disaster Risk Reduction: Establishing second wave criteria](#)

*Alan March and Jorge Leon*

[Doing Adaptation Differently? Does Neoliberalism Influence adaptation planning in Queensland – Presentation](#)

*Lachlan McClure and Douglas Baker*

[A Tale of Two Cities: Sydney and Melbourne’s growth strategies and the flawed city-centric approach](#)

*Paul McFarland*

[Sustainability, Vulnerability, Resilience and Change: The efficacy of comparative urban metrics for city development in Australia – Presentation](#)

*Phil McManus*

[Low Carbon Urban Transitions: A Melbourne case study – Presentation](#)

*Susie Moloney and Ralph Horne*

[The Importance of House Size in the Pursuit of Low Carbon Housing – Presentation](#)

*Trivess Moore, Stephen Clune and John Morrissey*

[Industry Constructions of Waste in Building Life-Cycles: Zero waste and beyond? – Presentation](#)

*Jasmine Palmer, Lou Wilson, Stephen Pullen, Keri Chiveralls, Jian Zou and George Zillante*

[Uniting Urban Agriculture and Stormwater Management: The example of the 'vegetable raingarden'](#)

*Paul Richards*

[You Can Kiss my Yasi – Recovering in time compression](#)

*Serrao-Neumann, S., Crick, F. and Low Choy, D*

[Changing Water Values in Urban Waterway Naturalisation: Findings from a Sydney case study – Presentation](#)

*Jacqueline Soars and Fiona Miller*

[Integrated ETWW Demand Forecasting and Scenario Planning for Precincts \(ETWW: energy, transport, waste and water\) – Presentation](#)

*Michael Taylor*

[A Review of International Low Carbon Precincts to Identify Pathways for Mainstreaming Sustainable Urbanism in Australia](#)

*Thomson G, Matan A and Newman P*

[Ecosystem Guidelines for the Conservation of Aquatic Ecosystems of the Georges River Catchment: A method applicable to the Sydney Basin – Presentation](#)

*Carl Tippler, Ian. Wright, Peter Davies and Alison Hanlon*

[Visions and Pathways for Low-to Zero Carbon Urban Living – Australia 2050](#)

*Paul Twomey and Chris Ryan*

[Low Carbon Residential Refurbishments in Australia: Progress and prospects – Presentation](#)

*Nicola Willand and Ralph Horne*

[Carbon Mitigation Actions by Peri-urban and Regional Cities in Queensland – Presentation](#)

*Heather Zeppel*

[Assessing Household Energy Consumption in Adelaide and Melbourne](#)

*Sadasivam Karuppannan and Sun Sheng Han*

## Structure

[Urban Form and Design Outcomes of Heritage Planning Policies in Inner Melbourne – Presentation](#)

*Robyn Clinch*

[City Without a Plan: How the Gold Coast was shaped](#)

*Aysin Dedekorkut-Howes*

### Re-assembling the Car-dependent City: Transit – oriented intensification in Melbourne

*Kim Dovey, Ian Woodcock, Shane Murray and Lee-Ann Khor*

### Activity Corridor Intensification in Perth and the role of Design Based Research

*Anthony Duckworth-Smith*

### Working with Housing Variance to Model Urban Growth Futures within Inner Metropolitan Melbourne – *Presentation*

*Yolanda Esteban and John Rollo*

### GDP and City Population in the Development Performance of City Structures – *Presentation*

*Michelle Leong Glastris*

### Shaping Modern Cities: Structural continuity and change in Carlton, Melbourne 1870-1970 – *Presentation*

*Lucy Groenhardt, Gavin Wood and Joe Hurley*

### Don't be so Dense: Measuring urban structure and form – *Presentation*

*Michael Grosvenor*

### Future Intensive: Obstacles and opportunities to achieving compact urban form in Auckland

*Errol Haarhoff, Lee Beattie, Jenny Dixon, Ann Dupuis, Penny Lysnar and Laurence Murphy*

### Connecting Transit with Urban Development to Achieve 21st Century Goals for Perth

*Cole Hendrigan*

### From Disparate Association to Planning Doxa

*Jean Hillier*

### The sustainable design of Water's Edge Public Spaces in the Asia Pacific region: smaller scale Australian examples and case studies in Sydney, Hong Kong and Singapore

*Mabel John, Steffen Lehmann and Alpana Sivam*

### Reinventing Jillong: Current regeneration initiatives challenging the identity and place of Geelong – *Presentation*

*David Jones and Helen Meikle*

### Planning Community Infrastructure in a Fast Changing Urban Environment: Measuring the social outcomes

*Kate Kerkin*

### New Urban Territories: Spatial assemblies for the 20-minute city

*Lee-Anne Khor, Shane Murray, Kim Dovey, Ian Woodcock, Rutger Pasman*

### Nothing Gained by Only Counting Dwellings per Hectare: A hundred years of confusing urban densities

*Elek Pafka*

### [Infill Design Opportunities](#)

*Lee-Anne Khor, Byron Meyer, Nigel Bertram, Shane Murray and Diego Ramirez-Lovering*

### [From Hope to Productivity: The funding crisis in the NSW heritage sector – Presentation](#)

*Paul Rappoport and Robert Freestone*

### [Street Network Analysis for Understanding Typology in Cities: Case study on Sydney CBD and suburbs](#)

*Somwrita Sarkar*

### [Teleworking and Spatial Trends in Australian Cities: A critical review of current literature – Presentation](#)

*Abbas Shieh and Glen Searle*

### [Modelling as Alchemy? Reflections from a PSS developer on the politics of land use models – Presentation](#)

*Regan Solomon*

### [Public Use Zone: A new paradigm for suburban rail station design for Australian cities](#)

*Simon Wollan and Ian Woodcock*

### [Coding for Corridors: Prospects for tram corridor intensification in Melbourne](#)

*Ian Woodcock, Kim Dovey, Lucinda Pike, Elek Pafka, Shane Murray, Lee-Anne Khor, Rutger Pasman and Tom Morgan*

## **Governance**

### [‘We Don’t Have Access to That’: Social mix and the right to the city – Presentation](#)

*Kathy Arthurson, Iris Levin and Anna Ziersch*

### [Housing Affordability in Auckland: Looking behind the rhetoric – Presentation](#)

*Patricia Austin*

### [Advancing Community Engagement Practice for Strategic Urban Planning: Learning from allied and remote disciplines – Presentation](#)

*Suzanne Barker*

### [Arbitrating Relatively Good Design: The aesthetic governance of Australia’s cities](#)

*Chris Beer*

### [Embedding Urban Growth Modelling in Planning Practice – Presentation](#)

*Andre Brits*

### [Melbourne’s North and West Metropolitan Regional Management Forum: Building community capacity through the Regional Health and Wellbeing Implementation Strategy - Presentation](#)

*Iain Butterworth*

[Examining Three Planning Pathways in the Mediation of Resident Opposition to Compact City – Presentation](#)

*Nicole Cook, Joe Hurley and Elizabeth Taylor*

[The Ethical Dilemmas of Local Government Planners in Western Australia.](#)

*Tim Perkins and Julie Crews*

[The Dynamic of Climate Change Policy in a Multi-level Governance Environment.](#)

*Anne Dansey*

[Streamlining the Planning Process and Supporting Local Identity and Character – Can the two exist? – Presentation](#)

*Peter Davies and Neil Selmon*

[Federal Policy for Australia's Cities: The 2011 National Urban Policy in historical and comparative perspective](#)

*Jago Dodson*

[System and Strategy: Recent trends in governance and planning systems in Australia – Presentation](#)

*Michael Buxton, Lucy Groenhardt*

[Certainty and Outcomes: Some local planning illusions – Presentation](#)

*David Fingland*

[Governance of Public Land Acquisition for Regional Open Space in Perth and Sydney](#)

*Neil Foley, Peter Williams*

[Finding Solutions to the Commonwealth's Regulation Gap](#)

*Laura Goh*

[Simpler, Faster, Cheaper? Australia's urban aspirations and the planning reform agendas – Presentation](#)

*Robin Goodman, Paul Maginn, Nicole Gurran and Kristian Ruming*

[Climate Justice in the Australian City](#)

*Jean Hillier, Diana MacCallum, Wendy Steele, Donna Houston and Jason Byrne*

[Governance in Local Government University Partnerships: Smart, local and connected? – Presentation](#)

*Richard Howitt*

[Spinning the Wheel: Examining decision making process and outcomes in development assessment](#)

*Brendan McRae and Joe Hurley*

[I Think Planning is About Chipping Away at Stuff: The voices and activities of public service planners working in Melbourne – Presentation](#)



*John Jackson*

## Understanding the Role and Expectations of Local Government Planners in the Contemporary Political Environment: A South Australian perspective

*Anna Leditschke, Rowena Butland and Matthew W. Rofe*

## Democratic Infrastructure? Delivering affordable housing under Australia's social housing initiative – *Presentation*

*Crystal Legacy, Gethin Davison, Edgar Liu, Ryan van den Nouwelant, Awais Piracha*

## Developing Effective Urban Open Space Policies Using Excludability, Rivalry and Devolved Governance

*Andrew MacKenzie, Leonie J. Pearson and Craig J Pearson*

## Governing Carbon in the Australian City: Local government responses – *Presentation*

*Pauline McGuirk, Robyn Dowling and Harriet Bulkeley*

## Cornerstone or Rhinestone: The fate of strategic planning in the post-political age

*David Mitchell*

## Community Relations and Community Governance around Condominium Living: Towards a collaborative approach to condominium law reform and urban vitality

*Clare Mouat, Rebecca Leshinsky*

## Governance Performance in Multi-Scalar Large Institutional Networks: Evaluating transport institutions in Australia's metropolises

*Michael Neuman, Nicholas Low, Carey Curtis, Michael Taylor, Glen Searle*

## Empowering the Professional Judgement of Planners: A study of Australian discretion in international comparison

*Marsita Omar and Alan March*

## Comparative Policy Analysis in Australian Water and Electricity Demand Management – *Presentation*

*Walter Reinhardt*

## Higher Density Development in Sydney: Public perception and policy awareness – *Presentation*

*Kristian Ruming*

## The Influence of Neoliberalism in the Context of Population Decline: An analysis of planning strategies in Broken Hill, NSW

*Laura Schatz*

## Public Housing Estate Redevelopments in Australian Inner Cities and the Meanings of Social Mix

*Kate Shaw*

## Contested Decision Making in Commemorative Planning and Regulation

*Quentin Stevens, Karen Franck and SueAnne Ware*

[Plan Melbourne: A Critique and a Review of Its Implications for Housing](#)

*Richard Tomlinson*

[Web Based Communication and Online Social Networking in the NSW Planning System 2 – Presentation](#)

*Wayne Williamson*

## Movement

[Towards the Socioeconomic Patterns of the National Broadband Network Rollout in Australia](#)

*Tooran Alizadeh*

[The Role of Adelaide's Transit Oriented Developments Towards Creating a Low Carbon Transit Future City](#)

*Andrew Allan*

[Access, Health and Independence: Walkability and children's quality of life – Presentation](#)

*Courtney Babb and Carey Curtis*

[Are Master-planned New Urbanist Suburbs a 'Solution' for Sustainable Travel to Schools? Comparing children's travel in select Australian primary schools](#)

*Matthew Burke, Carey Curtis, Carolyn Whitzman, Paul Tranter, Christine Armit and Mitch Duncan*

[Lifting the Barriers: Planning for increased mobility and accessibility through the Adelaide CBD – Presentation](#)

*Rowena Butland and Madeleine Rains*

[The Challenges of Planning for Autonomous Mobility in Australia](#)

*Robyn Dowling and Jennifer Kent*

[Transitions to Independent Mobility Among Children and Young People – Presentation](#)

*Anne Hurni*

[Journey to Work Patterns in Regional Victoria - Presentation](#)

*Erwin Lagura and Christina Inbakaran*

[Private Car Use as Resistance to Alternative Transport: Automobility's interminable appeal – Presentation](#)

*Jennifer Kent*

[Using Multi-modal Travel and Cost Analysis to Re-evaluate Transport Disadvantage for the Brisbane Metropolitan Area](#)

*Tiebei Li, Jago Dodson, Neil Sipe*

[Active Transport – Comparative analysis Melbourne - \*Presentation\*](#)

*David Mckenzie and Christina Inbakaran*

[Understanding Australian Parents' Attitudes About their Children's Travel Behaviour: Results from the CATCH and iMATCH projects](#)

*Farinaz Moghtaderi, Matthew Burke, Paul Tranter and Christine Armit*

[Critical Infrastructure in Australia](#)

*Jaime Olvera-Garcia, Wendy Steele, Emma Browne and Anne-Sophie Iotti*

[City Cycling at the Crossroads Can Australia learn from Northern Europe? – \*Presentation\*](#)

*Warwick Pattinson and Carolyn Whitzman*

[Smarter Ways to Change: Learning from innovative practice in road space reallocation – \*Presentation\*](#)

*Helen Rowe*

[Improving Accessibility in Growing Australian Cities – \*Presentation\*](#)

*Jan Scheurer, Kristien Bell*

[The Impact of Shopping Centre Attributes on the Destination Preferences of Trip Makers in Brisbane](#)

*Maryam Shobeirinejad, Tim Veitech, Neil Sipe and Matthew Burke*

[Beyond Economicism: Challenging the concept of the Australian global city](#)

*Wendy Steele and Michele Acuto*

[Children's Cycling for Transport in Selected Australian Urban Environments: Model shares and determinations of significance](#)

*Kala Wati, Matthew Burke, Neil Sipe and Jago Dodson*

[Effects of Raising Fuel Price on Reduction of Household Transport GHG Emissions: A case study of Sydney](#)

*Junjian Zhao, Alan Peters and Peter Rickwood*

