



OME BACKGROUND: Cities must be a focus of adaptive innovation Buildings and their occupants account for 23% of Australia's greenhouse gas emissions 80%+ live in cities and larger towns \$158bn spent on new construction in Australia in 2007 Market value of Australia's homes: \$2.7 trillion Market value of Australia's investment grade commercial property assets: \$360billion

875,000 employed in construction .

(Source: CIE/ASBEC, 2007; BEMP, 2008)

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С	hallenge 1: Urban retrofitting		
	Most of our built environment looking 50 years forward already exists. In large part, preparing for the future is about retrofitting (including renewing) what we already have.		
	New buildings can provide a focus for innovation, not least driven by enhanced building code requirements, expectations of clients and financiers. But they represent only a small minority of the stock at any one time.		
	Upgrading existing commercial stock will be a 'herculean' task (Davis Langdon, 2008) due to cost constraints, design, and construction industry resource limitations.		
	Market drivers (even with carbon emissions trading) are insufficient in themselves. Additional incentives, such as tax breaks and subsidies, will be needed		
	The big focus over the next 30-40 years must be maintenance and refurbishment. No regulation will create the impetus for bringing forward refurbishment, you must have fiscal incentives. (Stakeholder interview, 2008)		
	The residential sector is even more challenging, in terms of levers available to promote transition, but also issues of inclusion, affordability and heritage		
	Vulnerable and low income beyonkelds will also pood to be oppicted by		















etro Sydney and Climate Change cryFUTURES CITYFUTURES The Metro approach What's the problem? Climate impacts in Sydney by 2050: "Encouraging a compact, multi-centred city and <3 Degrees Centigrade warmer and heatwaves integrating land use with transport planning will help Greater frequency of bush fires More summer rain, more flood events, less winter rain slow emissions growth in Sydney by encouraging Sea rise <40cm smaller homes and promoting more walking, cycling and • NSW State Plan target is 60% reduction in GGEs by 2050 public transport use. This also improves health and local Who pollutes? • air quality" Industry – 31% - Residential - 25% - Commercial - 24% Through a mix of Mitigation an Adaptation strategies Transport – 20%



Sydney Metro Strategy: ackling Climate Change	CityFUTURES			
But its all rather bitty and a lot of it will involve getting others to actually do it – local councils, in fact.				
e.g.				
Objective G2 To lead the Asia–Pacific region in capital city adaptation to climate change				
\succeq G2.1 Develop a climate change adaptation strategy for Sydney in collaboration with Councils				
ightarrowG2.2 Incorporate adaptation to climate change in the program to review BASIX				
C2.3 Investigate incorporating street tree planting and other green cover opportunities into grant funding programs, particularly in Western Sydney				
G2.4 Incorporate climate change adaptation into centre renewal				
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ur da	nmary remarks – how we can best cry FUTURES	
5.	In rising to the challenge of adaptation and urban climate vulnerability, <i>integration</i> is a central theme: across a variety of spatial scales across the entire building/neighbourhood life cycle across organisational practice across all levels of governance impacting on our built environment	-
6 .	Dealing with the fragmentation of urban life and economy – of jurisdictions, ownership, interests groups, decision making	E
7.	Above all, a better understanding of what behavioural changes will be needed to deliver changes in our cities and towns to changing climatic challenges is needed:	4
	People, households, businesses, public agencies,	
	Costs, pricing, incentives, risks, affordability	
Ch	anging how we use and behave within the built environment is a central component of this challenge"	

