# **'Places for people** - City and library'

Prof Rob Adams AM Director City Design and Projects





# Cities of Hope

The great global migration from rural areas to megacities is reaching a peak. But forget the doomsayers – these sprawling urban landscapes will be humanity's salvation, argues *Doug Saunders* 

HONGQING IS A DENSE AND SMOKY INLAND CITY, the heavy-industry, high-rise home to more than 30 million people. It is to China what Chicago was to 20th-century America, or Manchester to 19th-century England, and it's growing at an extraordinary rate. Every day a tide of 1500 new arrivals washes in to Chongqing. Every day an extra 140,000 sqm of floor space is constructed for new residents. It's a vast megalopolis, a megacity of the sort that will soon take over the world.

I met Mr and Mrs Zhang on the day they first arrived in Chongqing from their rural village. It had taken them almost to years to raise enough money to move, and required outrageous sacrifice: a brutal savings regime and years living in a fetid slum far away from their children, whom they saw only once a year. On the week I visited them in the sweltering heat of the Sichuan summer, they had pooled together their accumulated cash from years of sweated labour in motorcycleparts factories, and had paid the full purchase price of 150,000 yuan (\$24,000) for a clean and elegant three-bedroom apartment, turning them, legally, into city-dwellers. In the next few months they will bring their parents over from the village, shutting the farm down and ending their family's millennia-long connection to the fields. The driving force behind their exodus, Mrs Zhang, is a sparkplug of a woman with tired eyes but a pitbull's tenacity, who long ago resolved to save her family from peasant farming at any cost.

The Zhangs are the archetypal people of the 21st century, and we ignore their story at our peril. For the defining force of this century, almost certainly more significant than war, recession and perhaps even climate change, will be the huge and final shift of human populations from rural areas to





#### Glasgow

#### DECENTRALISATION TO CONCENTRATION





#### FROM BLIND SPOT TO CITY OF CULTURE

Dublin



#### QUALITY PUBLIC INFRASTRUCTURE

Bordeaux



PEOPLE, PLACES AND TRANSPORTATION

Bogota



#### SHIPYARDS TO SUSTAINABILITY

Malmo Bo01











EFFECTIVE city planning bas been almost unknown in Melbourne for at least 30 or

For the ordinary Melburnian 40 years. that means our city has been progressively destroyed. It no yonger contains the attraction and

cherns it once had, To the city retailer -- ever

ready to adapt to new decom-stances - if means expensive expansion into the suburbs to chase the customera who no

logger while the city. truth-- well, quarter-truth -- of a "Paris and" to Collins Street, and the reality of just another little Chicago. And that could be unfair, because Chicago is a rela-

sively attractive city. Property developers and investors, who are mainly the large insurance groups and banks, have samply fulfitted their obligations to their shareholders to make big-

ger and better profits. As a result, the city has reaped more rates, which increase at a similar ratio to the sine of each new building.

So our planning body, Melbourne City Council, is also a beneficiary of its laisers-faire approach to new development. to new devent. Strategy

An empty, useless city centre

#### ARCHITECTURE Norman Day

city, empty and uneless except during office hours.

Our plannets lack the courage to bring the city back to life.

Last week American architect Jaquelin Robertson spoke about his experiences as day planner for New York City.

His problems were like ours, only magnified by the size of that biggenst apple, but there the comparison ends. His departantually instigated creative

part of a pottern that should story. Mr. Robertson spoke of honuses for incorporating shopping, blocks, theatres and spariment housing into new, office, develop-

New projects, he said, are enments: meated into the city fabric through an insistance on connecting tunnels, shopping piezes and under-street arcades to link buildings, streets and metro stations. There are planning bonuses in New York to encourage retention

of historical buildings. New buildings include mixed functions of arcades, sheps, cineman, effices and top-floor epartments, all in the city centre. New York has had success with

the creation of mails and redirec-tion of traffic. Compare that with the dismal bitumen in Bourke

Melbourne's heritage of north-Street. south lanes and arcades - for example, the Block and the new City Square areade - should set the pattern of future develop-

Our planners should be rement affirming the notion of Melbourne as an arcaded city instead of allowing architects to allocate useless, wind-swept forecourts "for the public use"

Having almost succeeded in eastrating the Strategy Plan, we alsould not pin too many hopes

on the existing system. The lesson from New York

#### The Age c. 1980



### VISION

### '24 hour City that looked and felt like Melbourne'

**1985 Strategy Plan** 

# **Repurposing our Cities**

Density
Mixed use
High quality public realm
Local Character
Connectivity

6 Public participation7 Integrated Action8 Adaptability

Economic vitality, social cohesion and Sustainability.

Bib. Value of Urban Design – Ministry for the Environment New Zealand

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Source: City of Melbourne, Census of Land Use and Employment. Note: Dwelling dots show the density of dwellings in CLUE Blocks, which roughly equates to CBD blocks.



which mushly accusing to CBO blocks



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### PLACES FOR PEOPLE Melbourne

199

The Crb. of Melbourne in Subsemilar faith Jan Gehl

City of Melbourne in collaboration with GEHL ARCHITECTS/ Urban Quality Consultants Copenhagen

FOR



#### SITES REDEVELOPED SINCE 1985 URBAN FORM







#### Legend

- C Essential\_Retail\_Goods
- Caserdial\_Retail\_Services

Essential Land Uses

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- Casential Medical
- Essential, Health, and, Filmese
- Casevilal, Education
- Essential\_Community
- Essential, A.C., Cutture, Religion

20054194





### Replace with new image


#### **A CITY OF CHOICES**

No. Food / Beverage Establishments Central City, Docklands and Southbank 1982-2012



#### **A CITY OF CHOICES**

#### No. Retail Establishments

Central City, Docklands and Southbank 1982-2012



1,906	1,566	1,691	2,423
1982	1992	2002	2012

- § 3311 per cent increase in apartments between 1982 and 2002;
- 830 per cent more residents 1992-2002;
- § 71 percent more public space on streets and in squares between 1994 and 2004;
- § 62 per cent more students in the CDB 1993-2004;
- § 275 per cent more cafes and restaurants 1993-2004;
- § pedestrian traffic has nearly doubled In the Bourke Street Mall between 1993 and 2004 from 43,000 people per day to 81,000;



- the Bourke Street Mall (81,000 daily) and Swanston St (60,500 daily) now both carry more pedestrians than London's Regent Street (55,000 daily); and
- night time pedestrian traffic has increased 98 per cent between 1993 and 2004 reflecting the growth of bars and café's and a safer, more welcoming environment.



## Our revived urban heart has new beat

#### By ROYCE MELLAR INT MARTIN BOULTON

MELIOUNNE'S heart is resided. and pumping, with new figures painting a picture of a city nameting had as a respectat. shopping and social meets.

Twenty years after planners warned that the CBD was in seminal define, Melbourne City Council's latest land-cost and Gooppage ormen shows that new spartments, shops, buts and jobs are underpressing a meanwater.

The centus, compiled every two years, thadas the use of land. and buildings arrow the Melbourse manufully and CRD The 2004 centrus, standed today, reports that there are 12,000 apartments in the CHD, up hom just 375 in 1982.

The OSD installes the Hoddie golf plus for area north to Victoria Parale and south to the

the QV, hense GPO and Mel-Vern förer. It does not include bourne Cremal autorelegeneren. Docklands or Southburk but the arment shows the tetal There are more stared city. construction boom is mire of a sateboys than over before, but reproduction, neuroing the full-time and made semplements

city's shapping flacespace to in declining, Increasingly city Me-1990s gradu. weiters an break and par-Numble is the shift in the time, cantal or contracting. type of small activity, depart-After the economic sharp of ment stores are houry space the right in mid-1990s, the city theimany's closure had a higis proving, Total city fluorepare impart - as an postal services has expanded by about 70 per and banks. But has and puts, coint in the 20 years to 2004. cales and measurems are Lord Mayor John So-wel-**Burishing Supermadets** comed the findings and said be pierry store, more facilities was expectably pleased by Dp. and specialized head shops are urs showing that more than also in the increase. anto jobs had been added since Other vacancies have river.

the last creates in 2002. since 2012 Silowing a facey of "Mebourne has been under instatential remitraction but going a phonomenal champe. are a long way door of the We may not even notice it have ministed days of the early 'Mb. all the time, but people who And the city's hombilies whit as replacily them comment have todared, with key sites in mand a fir development including the former Southern and the changes," to seal Cost and Quest Values Intel profit restant with

Hospital sites now spoken line. Long-time CED watther NEL McHarg, chairman of Colliers International Vicentei, said the CHO rejurnmation was also in. part to its increasing popularity as a mindential destination. "The city has a marketing

plan, a vision and a dynamic city council. It's a more interor," for said. it the excitement. Dark Attact's father opened the lob Wandoune fabric vises at the

> changed sizes." for said basiness in saw painter than 25 to 30 years ago and depends on long-time we silat containers. "This just of the city has more restaurants and cales than small shops toos," he said.

RESIDENTIAL CEO APARTNERIS 375

rating city that it was 15 years ago and its excitated in front of that that everysize is twent up

top end of Braghe Street more than 10 years ago. Little has



UDI Isan Ada/udio Angele Catery Rept antest Activity Sect Activity Sect

#### The Age Newspaper 16 June, 2005





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public melbourne
urban design strategy
public melbourne
urban design strategy
public melbourne

public melbourne the design and management of a city's public realm

urban design strategy
public melbourne
urban design strategy
public melbourne



#### investing in public spaces

waterways built form street patterns public transport parks

clear structure distinct character accessibility good fit with people's intentions sustainability

continuity and change variety versus consistency animation senses equity





Bluestone and asphalt are traditional materials in central. Melbourne. As well as historic precedent, bluestone and asphalt harmonice with each other to provide a neutral background consistent with the formality of the Chy's street. Bluestone is extremely durable and gives excellent grip. Asphalt will remain as the most common footpath surface but will gradually be replaced with sawn bluestone slobs similar to

those used outside the Town Hall and in the City Square. Although paying the footpaths in bluestone has a high initial cost the Council considers it is a worthwhile long-term investment.

Use this Note in conjunction with the Bluestone Paving Units Specification (see page 4 of this Technical Note).









### variety versus consistency

















## street trees since 1993









2005







pre 1992

Dotti

#### senses













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#### good fit with people's intentions









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19th century subdivision










#### PEDESTRIAN LINKS + LOCAL PLACES

Total Lanes, Arcades and Alleys **434** 

Average per Block

Total Through-block Links

Total with a Cluster of Street Art 17







iving Arts

#### LANEWAY COMMISSIONS 06



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total no. of pedestrians per day – middle of swanston street

~Recording sites at Swanston St North & South, recorded significantly higher activity in 2007, compared with 2006 (14 per cent and 83 percent respectively)



















Growth in no. of cyclists commuting to work in municipality has increased.

In 2015 bicycles now represent close to 16% of total vehicles on roads, footpaths and parks, in the central city up from 1% in 2002 and 4% in 2006.

#### ELBOURNE (

CITY LIBRARY

DOCKLANDS

SOUTHBAN

CARLTON

**LIBRARY NETWORK** 

MELBOURNE

EAST

# NORTH MELBOURNE

#### NORTH MELBOURNE

kuluk kudba dhikad

intender still interac

Accession in the West

alline libra

2

27.

V/ANV

### **CITY LIBRARY**

ALC: NO.



# FIRE HOSE REEL **CITY LIBRARY**

# EAST MELBOURNE



#### East Melbourne Library Ground source heating and cooling pump schematics

Summer Cooling Mode Temperature greater than 26° C







#### CARLTON

# CARLTON

0






# LIBRARY AT THE DOCK

THE DOCK





# LIBRARY AT THE DOCK

官

1890

Community Infrastructure Implementation Framework

Updated May 2011



W.DOCKLANDS.COM

### DOCKLANDS

CONMUNITY AND PLACE PLAN JULY 2012

## DOCKLANDS DEVELOPER PRECINCTS





#### Second Floor



### First Floor

CREATE.







## **SECTION**

## LIBRARY at THE DOCK

Australia's First Six Star Green Star Public Building In Australia's Most Sustainable Precinct

### **Key Features**

- CLT structure 30% lighter than traditional steel/concrete frame
- Optimised passive ventilation via low level air vents and thermal chimney (atrium over main stair)
- 85 kW photovoltaic array (supplies 30% of the buildings operational power)
- 6 star green star base build **and** fit-out
- Low VOC and formaldehyde free materials
- External cladding/decking sourced from redundant wharf structures
- Water harvesting via 55,000 litre underground tank for toilet flushing
- Hydronic in slab heating to ground floor (rooftop gas fired boiler)
- VRV fan coils to first and second levels
- Sets a new benchmark in public library design





# LIBRARY at THE DOCK

## CLT Cross Laminated Timber

- CLT Structure (core, floor and roof slabs)
- Substructure existing wharf deck
- Recycled timber façade (rainscreen)
- 3,700 m<sup>2</sup> CLT
- 2,200 lineal metres of glulam columns and beams
- Thousands of screws, nails and bolts
- Highly mechanised production process
- Simplicity basic assembly concepts



- Carbon neutral structural option 1m<sup>3</sup> of timber stores 0.25lt of carbon x 90% LESS
- Generates zero waste
  - Reduced fresh water consumption
- Reduces deliveries to site (90% less)

#### SAFE

- Better work environment with less dust, less vibration noise and obstructions
- Fewer operatives on site and for a reduced period of time.



## LIBRARY at THE DOCK

Design Process and Technical Detailing It's a Different Design/Construction Process

- All design completed up front
- 3D modelling in AutoCad/Revit
- Data File to factory manufacturing process
- Installation sequencing, Crane calculations all modelled prior to construction
- Flat-Pak material delivery (21 shipping containers)

### Benefits

- Proven Speed approx. 30% saving in construction program (structure erected in 60 days by 6 carpenters)
- Waste minimised, reduces on-site decision making and errors
- Clean and Safe (utilises power drills predominantly)
- Robust, High Quality Result
- Potential to be cost competitive
- Contractors love it, no lost time to injuries over 12 month construction period,

















# **IBRARY AT THE DOCK**













# LIBRARY AT THE DOCK

23




















# INNOVATION DISTRICT: PUBLIC REALM PROJECTS

### PROJECTS UNDERWAY

- UNVERSITY SQUARE Mastar plan implementation - major renewal intera: Design Development
- PELHAM STREET LINK STAGE 1 Improved padestrian connection and apportanty for WSUO / nature link between Cambon Sparse. Wegation link apply to Lincole thermester task. Mase: Devolutionart
- (T) LINCOLN SOURRE
  - Concept plan to identity short and long term open space opportunities. Phase Community Engegrament
- CARLTON CONNECT COMPANY TROSADOL IND
  - Partnership project with UpH
  - OVH REDEVELORMENT Matter plan implementation - major namewall Temporary Activation on Elizabeth Street Phase: Design Development

#### **OPPORTUNITIES**

 $(\mathbf{S})$ 

## CARDIGAN STREET

- <sup>2</sup> Commit tree planting under way. Future opportunity to imprive bicycle 8 pedestrian connection. Phase: Concept
- Dependently for small orban space that also
- diverts and trusts stormulate Phase Concept
- BHET FORECOURT / LRBAN SQUARE Opportunity for privately owned public spece within 1945 campus, aligning with Cardigan Di improvements Derhenste proper with CPET



#### Some invocation opportunities in public realm projects

- Easy access to sooful technology and information
- Spaces and facilities that are conducive to using your own technology (Chargeable surfaces etc)
- Smart control Lights, impation, facilities that can be remotary monitored and controlled
- Smart Monitoring Spaces that fail us temperature, water flow, air / water quality / wind speed and frequency and time of use.
- Learning from what we do Smart wrisions next to standard versions iso we can monitor the difference.
- Open source / usable data and reporting
- Apps / proximity based access to static site information such as history, fubure projects, available facilities atc.
- Smart use or maximizer i solar glass in trave and bus shefters etc.



PHOTOGRAPHER : JOHN GOLLINGS