

Architecture
Interior Design
Landscape Architecture
Planning
Urban Design

Australia
China
Hong Kong
Singapore
United Kingdom
United States of America

WOULD I WANT TO WORK THERE?

Stitching a successful health precinct together

European Healthcare
Design Conference
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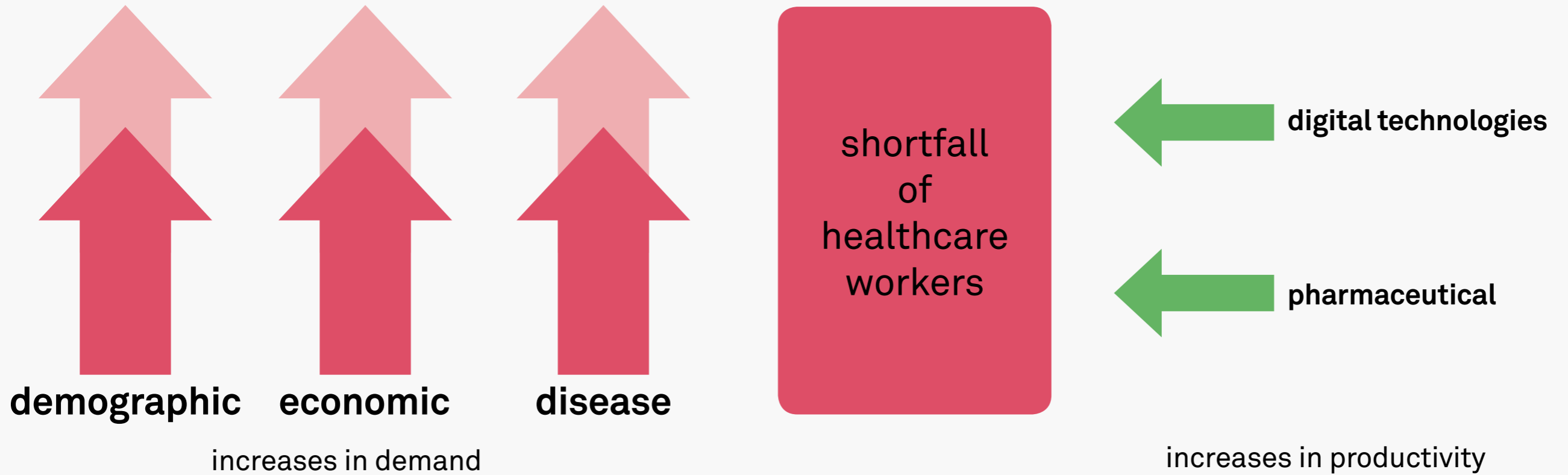
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Fiona Stanley Hospital, Perth.
Photography by Peter Bennetts

Talk structure

- 1 the health industry**
- 2 knowledge clusters - quality of place**
- 3 2 x case studies**
- 4 the challenge**
- 5 practical suggestions**
- 6 references**

1.0 The health industry



hospital staff account for 70% of hospital costs

in the EU, more doctors and nurses move to another country for work than any other regulated profession

the top destination countries for EU doctors and nurses: Australia, UK, USA, Germany, Canada

1.1 Global environment

Economic drivers:

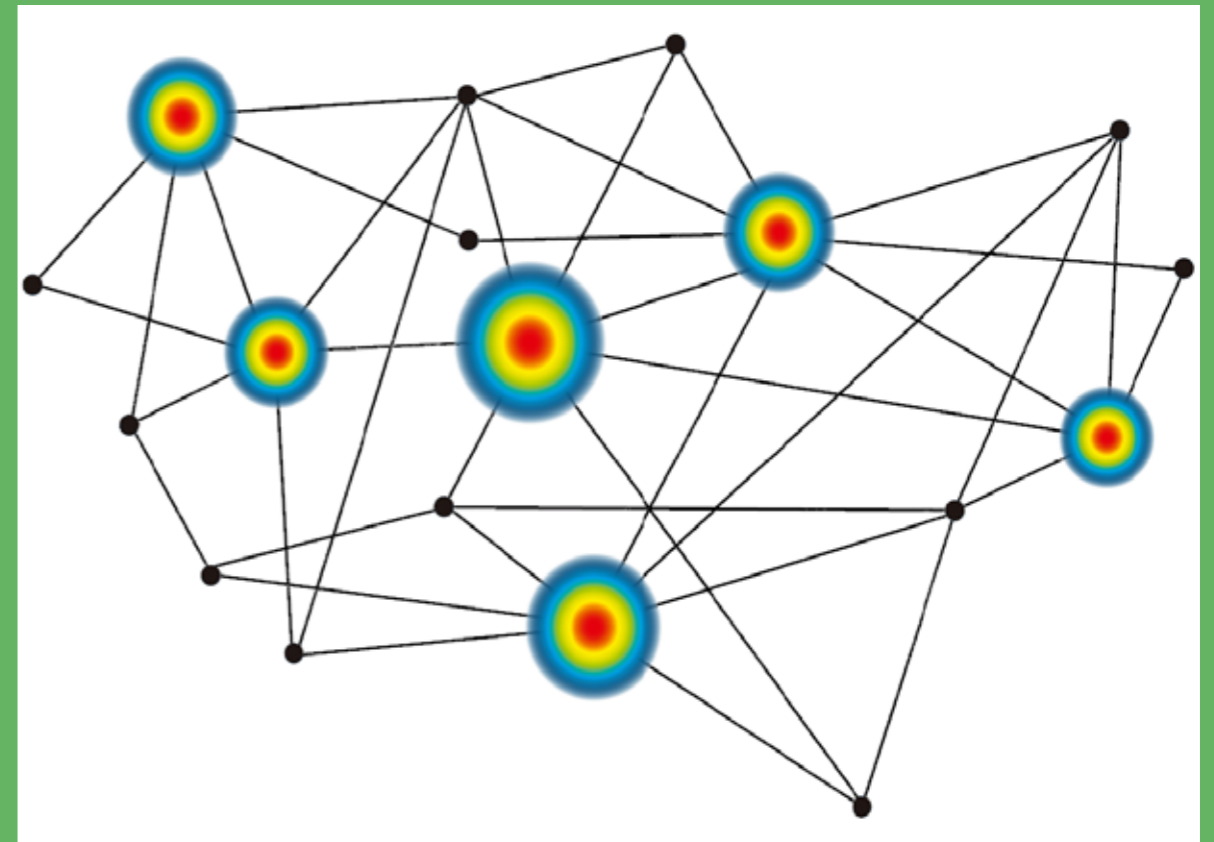
_knowledge economy - hospitals are a key component



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Physical drivers:

_polycentric cities - based on employment hubs eg hospitals



1.2 Competition for key health talent

- professional and career development
- team culture
- care quality and diversity
- terms and remuneration
- built environment
- lifestyle



will i go to

london toronto or glasgow?



will i go to

boston melbourne or new york?



will i go to

oslo singapore or manchester?

1.3 Evolution of hospital design

focus:



driver:

building
doctor-centred



campus
patient-centred



precinct
people-centred

approach:

pathological/
disease based

evidence
based design

engagement and
collaboration

2.0 Health Precincts and Knowledge Clusters

- _hospitals are major landowners and placemakers - shaping our urban environment
- _hospitals are a key employment hub
- _hospitals + universities - strong anchors for knowledge clusters, driving research and new products and services



Victorian Comprehensive Cancer Centre, Melbourne.
Photography by Peter Bennetts.

2.1 Knowledge Clusters - critical features

Brookings Institution outlines 5 critical features

- 1 Critical mass
- 2 Innovation capacity
- 3 Diversity and inclusion
- 4 Quality of place**
- 5 Leadership



Loop bench by Outsider



Royal Park Nature Playground



Town Hall Square, Solingen, Germany.
Photography by atelier2.

2.2 Quality of place goals

- 1 precinct connectivity
 - _walkability
 - _high speed fibre

- 2 proximity and mixing
 - _variety of building uses
 - _ground floor activation
 - _neighbourhood amenities
 - _public spaces
 - _population density to create a 'buzz'
 - _shops, cafes, bars, restaurants nearby
 - _co-working and small business spaces nearby

- 3 public realm
 - _diverse
 - _accessible
 - _community engagement

2.3 Quality of place barriers

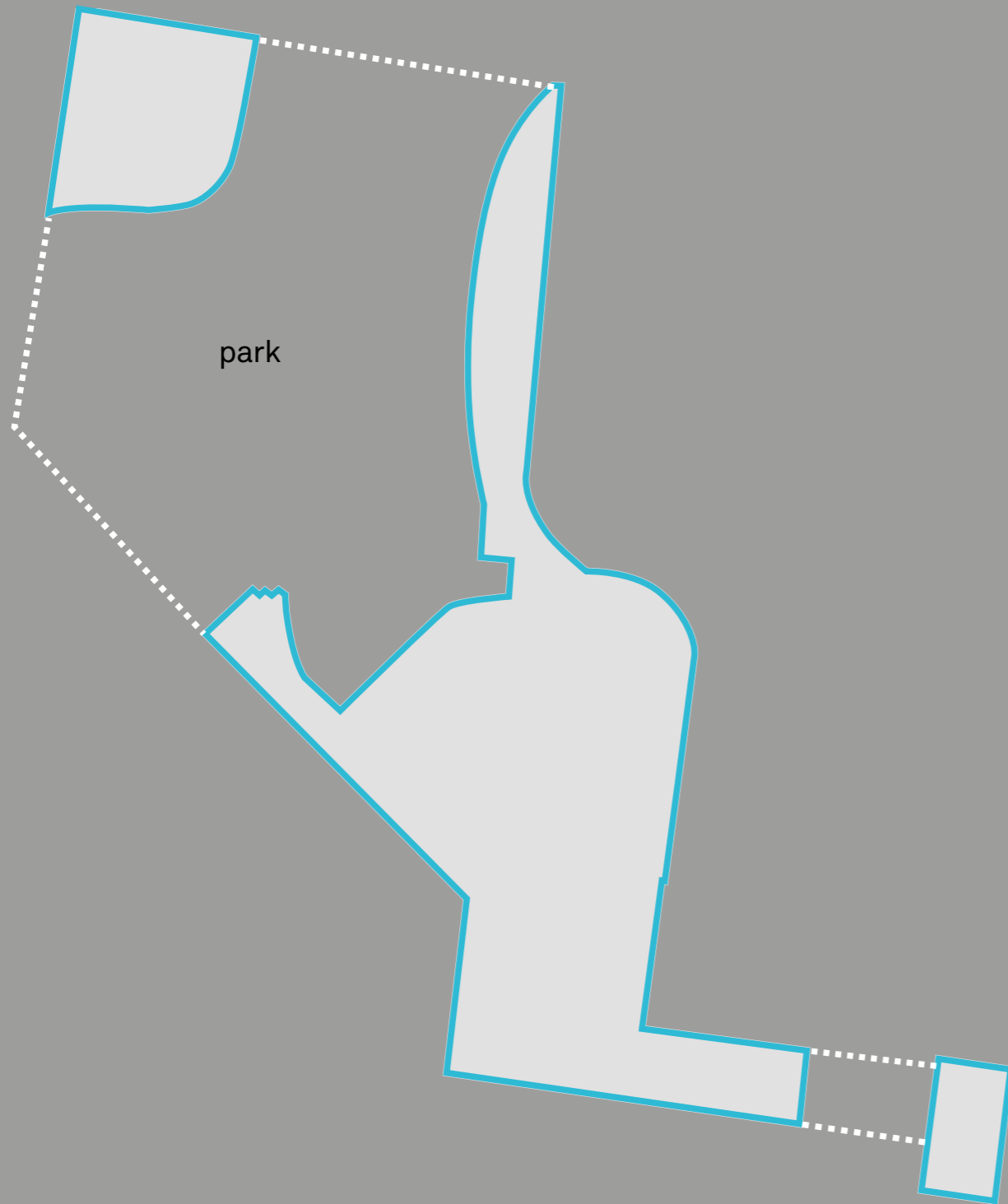
4 impediments to overcome

- _land zoning driving unwanted outcomes
- _existing buildings and roads that inhibit connectivity
- _land use or ownership that is counter to the precinct objectives

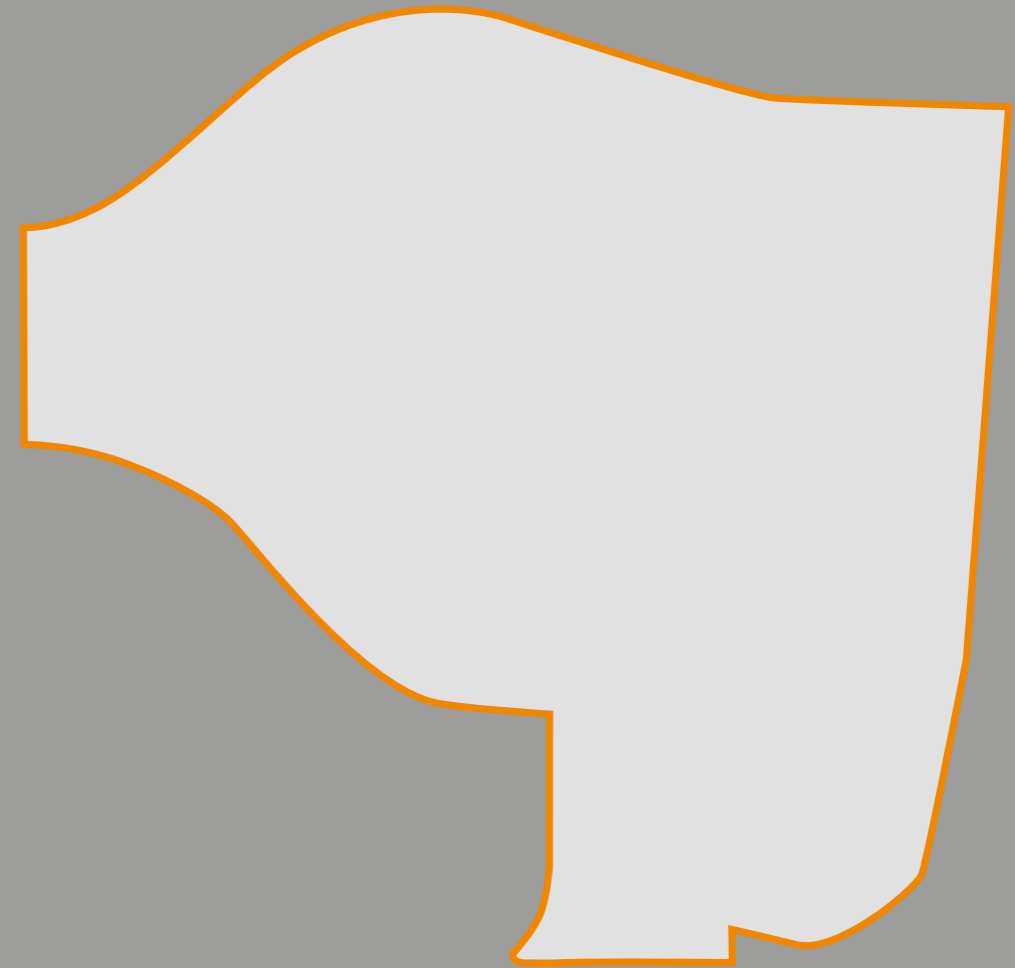
3.0 Two case studies



3.1 Scale comparison of precinct footprints



Parkville Precinct



Murdoch Precinct

3.2 Parkville Precinct - CBD proximity mature



royal melbourne hospital



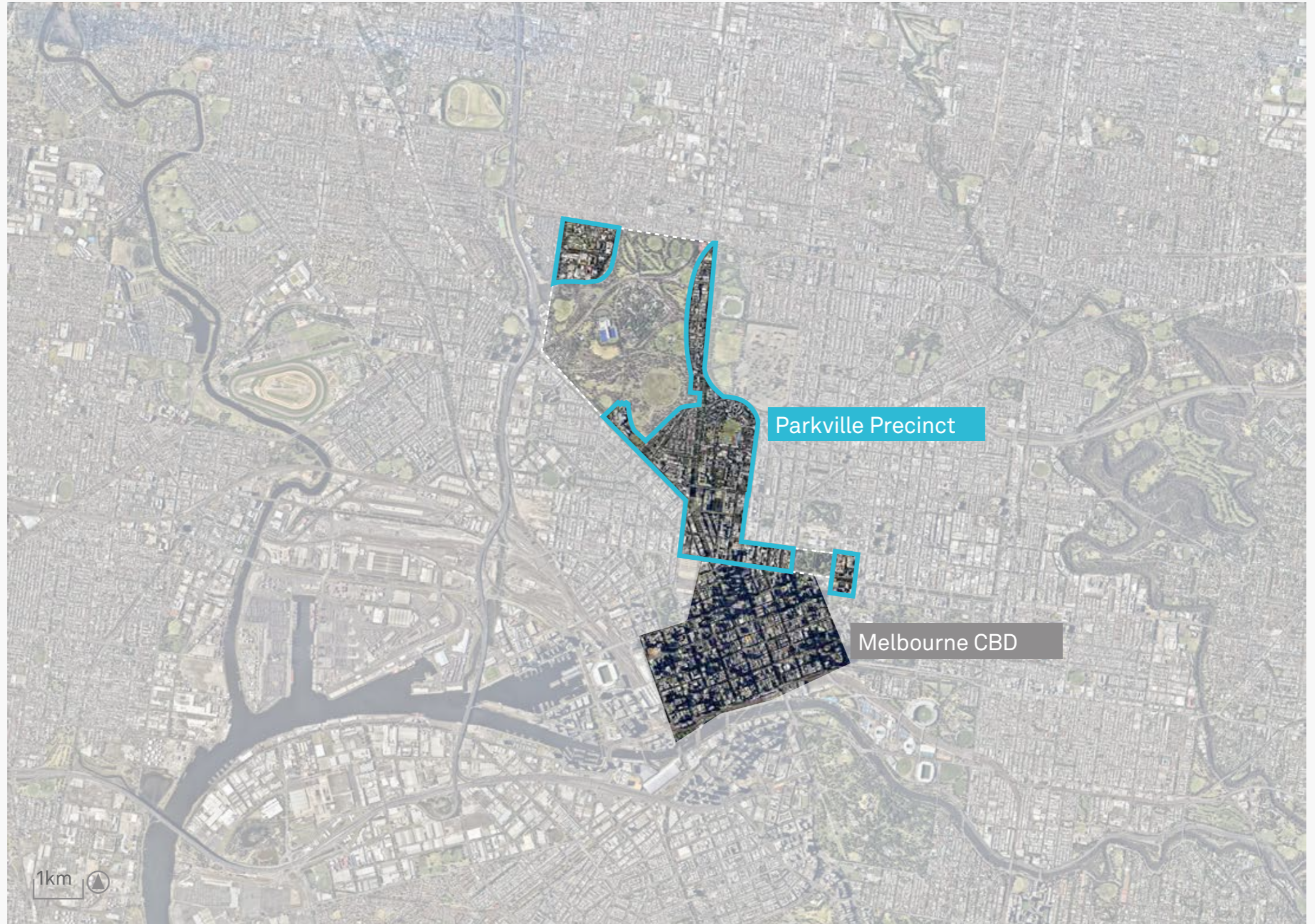
royal womens hospital



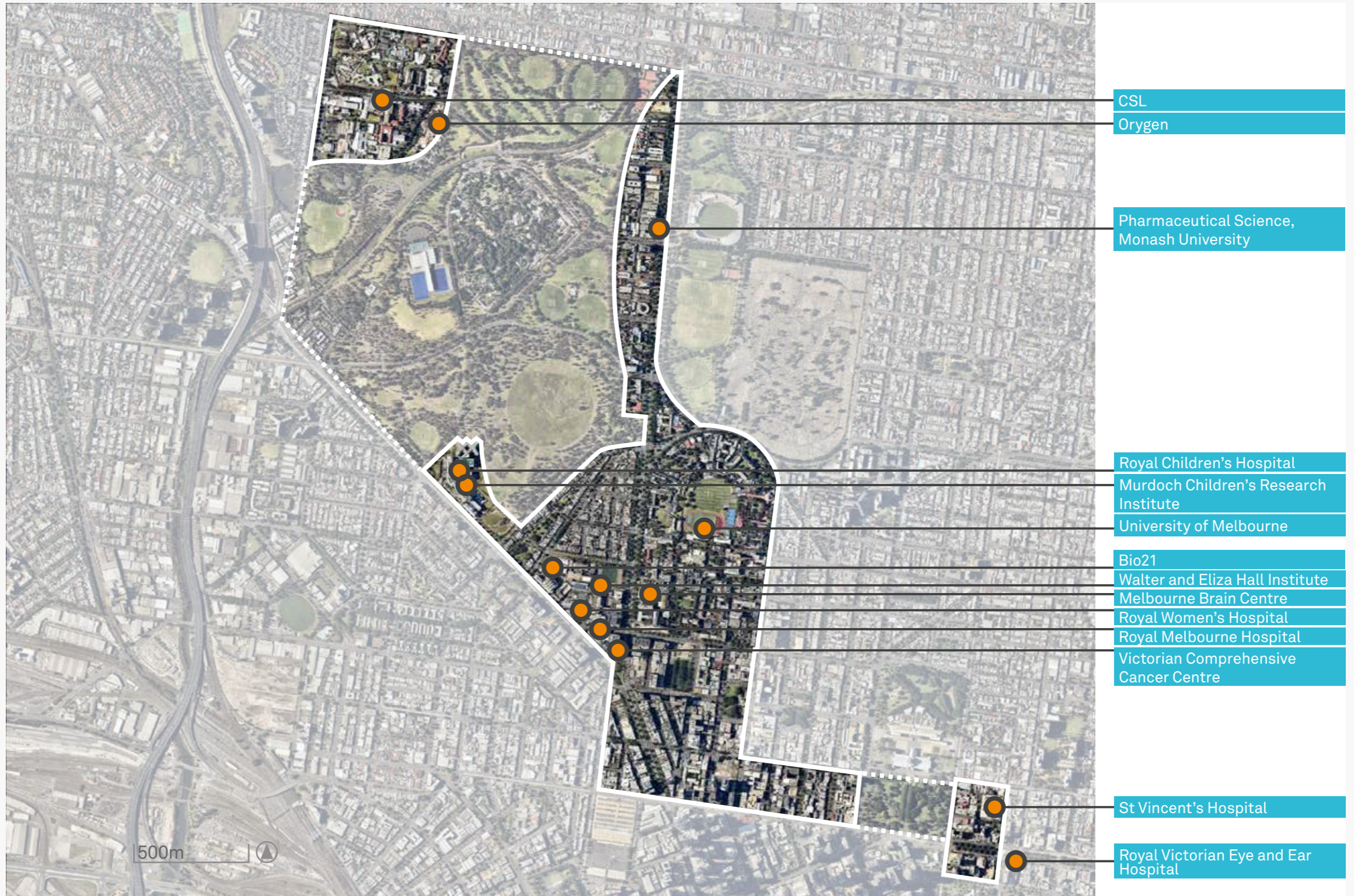
victorian comprehensive cancer centre



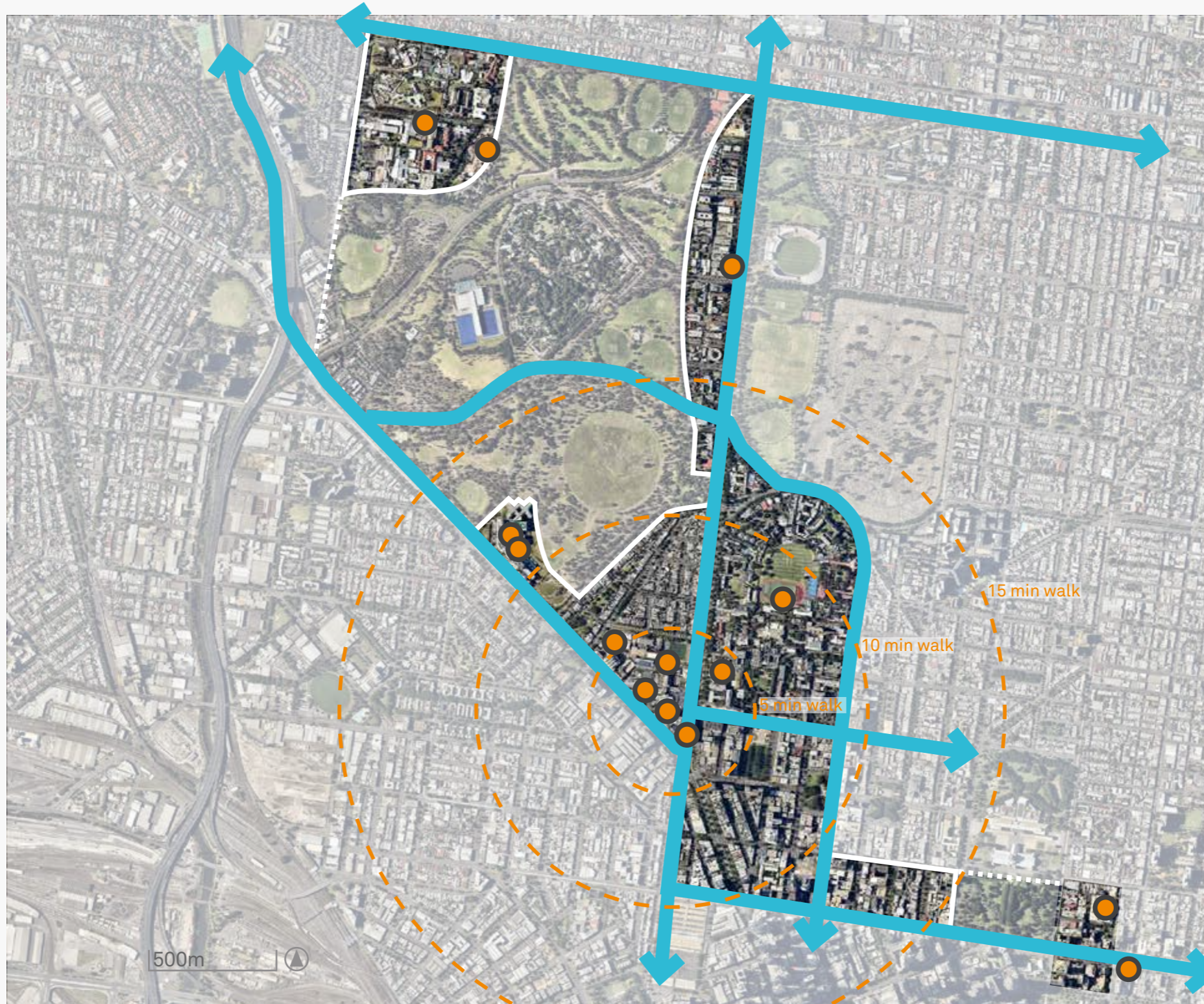
royal childrens hospital



3.3 Parkville Precinct - partners mature



3.4 Parkville Precinct - access mature



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3.5 Murdoch Precinct - CBD proximity new



fiona stanley hospital



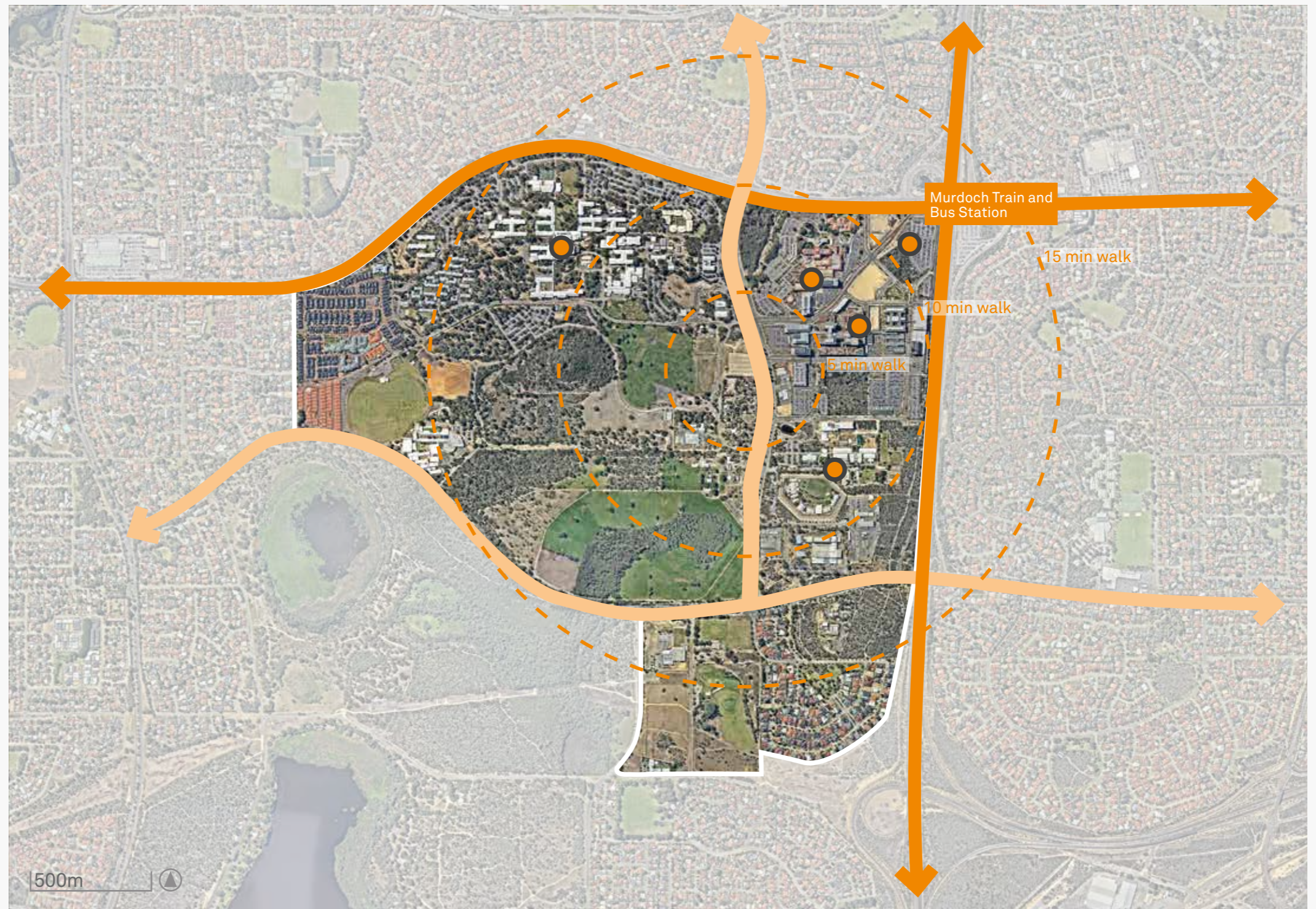
st john of god hospital



3.6 Murdoch Precinct - partners new



3.7 Murdoch Precinct - access new



3.8 Quality of place

a mature precinct of long established world-renowned healthcare and biomedical institutions in a thriving inner city suburb

Parkville Precinct:

mature

royal melbourne hospital_

royal womens hospital_

victorian comprehensive cancer centre_

royal childrens hospital_

transport_

tram, bus, train underway

housing_

insufficient variety within 5km, new housing in regenerated area in adjacent precinct underway

open space_

large inner city parklands adjacent

connections_

strong precinct relationships with university and research institutes

retail_

CBD and high street shopping within 2km of the precinct centre

density_

dense precinct centre with 3 outer clusters separated by parks

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public realm_

european landscaped boulevard and park

a newly built peri-urban precinct of healthcare and university buildings surrounded by low rise dwellings and bushland

Murdoch Precinct:

new

_fiona stanley hospital

_st john of god hospital

_transport

train, bus

_housing

insufficient variety within 5km, new housing in regenerated peripheral areas underway

_open space

university fields and surrounding bushland

_connections

strong connection to precinct university

_retail

2 shopping centres within 3km of the centre new development planned

_density

consolidated precinct surrounded by housing

_public realm

extensive and varied native landscape

4.0 The challenge

_attracting and retaining talent in a globally competitive environment

_creating an environment for staff to be the best they possibly can

_treating your healthcare facility as a significant contributor to the urban fabric of your precinct



Royal Childrens Hospital, Parkville.
Photography by John Gollings.

5.0 Practical suggestions

Collateral

Melbourne Biomedical (Parkville) Precinct is Australia's, and one of the world's, leading biomedical centres. The precinct delivers outstanding healthcare, education and world-class research. It is home to some of the biggest global names in the biomedical sector.

Melbourne Biomedical (Parkville) Precinct's cutting edge research and discoveries have resulted in major advances in patient care, disease treatment breakthroughs and development of devices, technologies and medicines that have saved and improved lives in Victoria, Australia and around the world.

- MBP Strategic Plan 2018



Capital

BUSINESS CASE

BRIEF



5.1 Impact on design approach



disciplines:

- _urban design
- _architecture
- _landscape design
- _interior design
- _retail
- _wayfinding
- _transport
- _experience and activation



funding:

- _capital
- _operational
- _local government
- _state government
- _federal government
- _road network
- _public transport
- _neighbours
- _philanthropy



governance:

- _ownership
- _approvals
- _legislation
- _risk
- _maintenance

5.2 Attraction and retention influences



work:

- _mixing with other talent
- _end of trip facilities
- _a vibrant neighbourhood
- _well-connected to public transport
- _a healthy workplace
- _variety of retail and food offerings
- _access to nature nearby
- _opportunity for training
- _strong brand
- _strong leadership



live:

- _housing diversity
- _retail
- _schools
- _childcare



play:

- _art galleries
- _sport fields
- _nature - parks, beach, forest
- _transport
- _cinemas
- _theatres
- _airport
- _markets
- _events
- _ski fields
- _heritage
- _bike paths
- _festivals

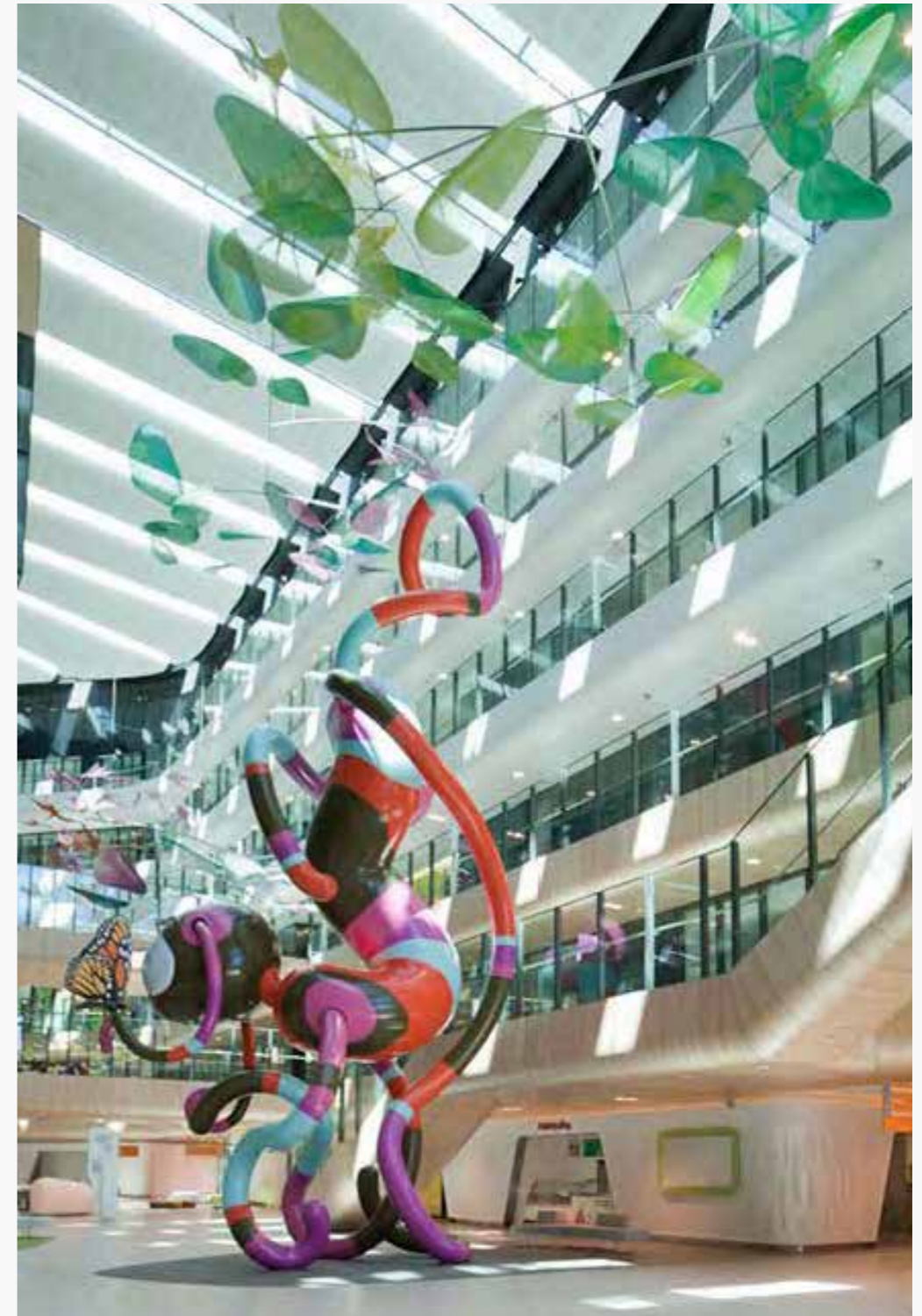
5.3 Quality of place as a differentiator

- _engage early and wider to co-ordinate shared amenity
- _engage a more diverse range of design consultants
- _give greater consideration to the spaces at the edges of and between buildings
- _activate the ground floor
- _foster human-centred design

... to create the environment that will attract and retain exceptional healthcare talent

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Royal Childrens Hospital, Parkville.
Photography by Shannon McGrath.



6.0 References and further reading

- _Brookings Institution, Washington, USA
- _HASSELL: Knowledge and Strategy Research Papers
- _Property Council of Australia_The Business of Cities, Australia
- _Victorian State Government, Australia
- _West Australian State Government, Australia
- _Design Council, UK
- _Deloitte Centre for Health Solutions
- _New London Architecture, UK
- _Grattan Institute, Australia

thank you

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