



**Conrad  
Gargett**

# **European Health Design Conference 2019**

Blurring the boundaries : Designing place-based health systems

**Health Precinct Design**

# Health Precinct Design - Three Contexts

## 1. Rural Boundaries

### Kingaroy Hospital Redevelopment, Kingaroy, Queensland

The Kingaroy Hospital sits in the traditional land boundary of the Wakka Wakka people. We acknowledge the Traditional Owners of the land on which the hospital is sited, and pay respects to their Elders, past and present.

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## 2. Suburban Boundaries

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## 3. Urban Boundaries

### Princess Alexandra Hospital, Brisbane, Queensland

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**London**  
22 hours  
17000 kms

**Melbourne**  
0 hours  
0 kms

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Kingaroy, Queensland (**rural**)

Brisbane, Queensland (**urban**)

Clayton, Victoria (**suburban**)

# Australian Healthcare Sector : A Snapshot

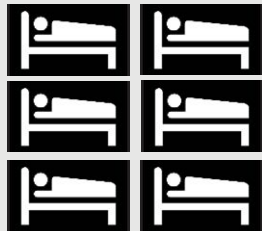


## 2015-16



**PUBLIC**

**695 hospitals**  
**61,000 beds**



**PRIVATE**

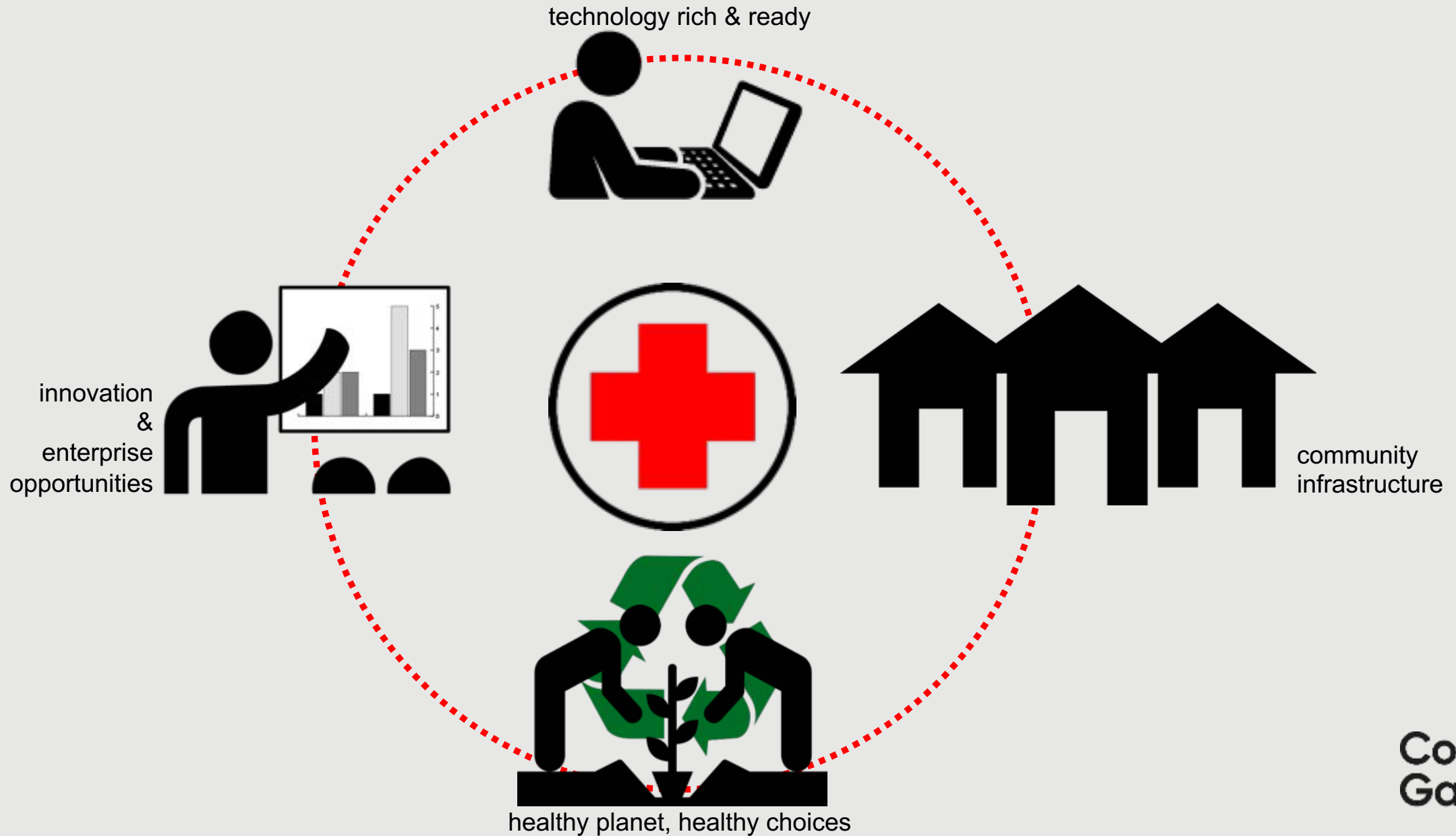
**630 hospitals**  
**33,100 beds**



**1975** Universal Healthcare - '*medicare*'

**2018** On-line Health Records - '*my health record*'

# Australian Healthcare Sector : A Snapshot



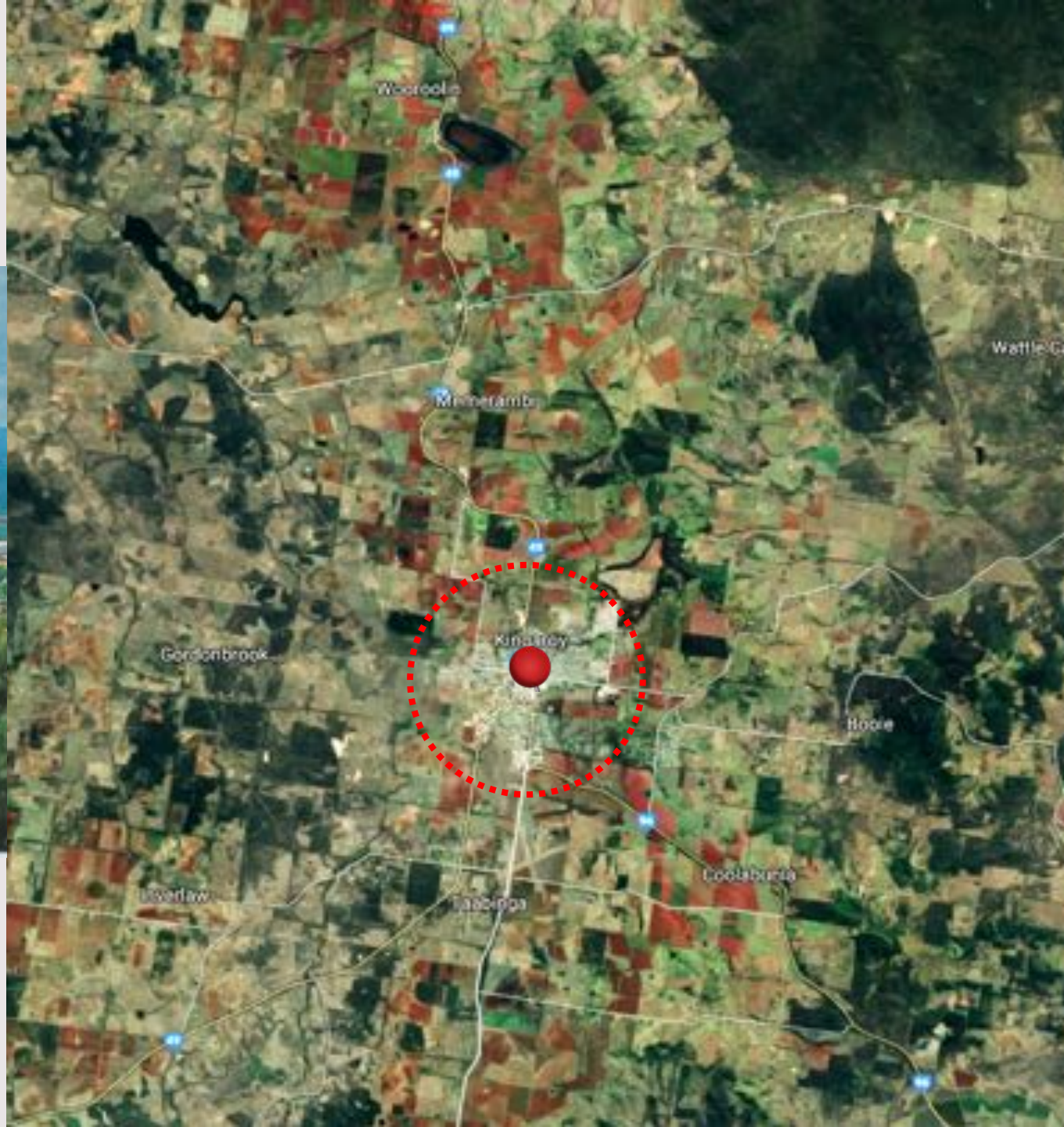
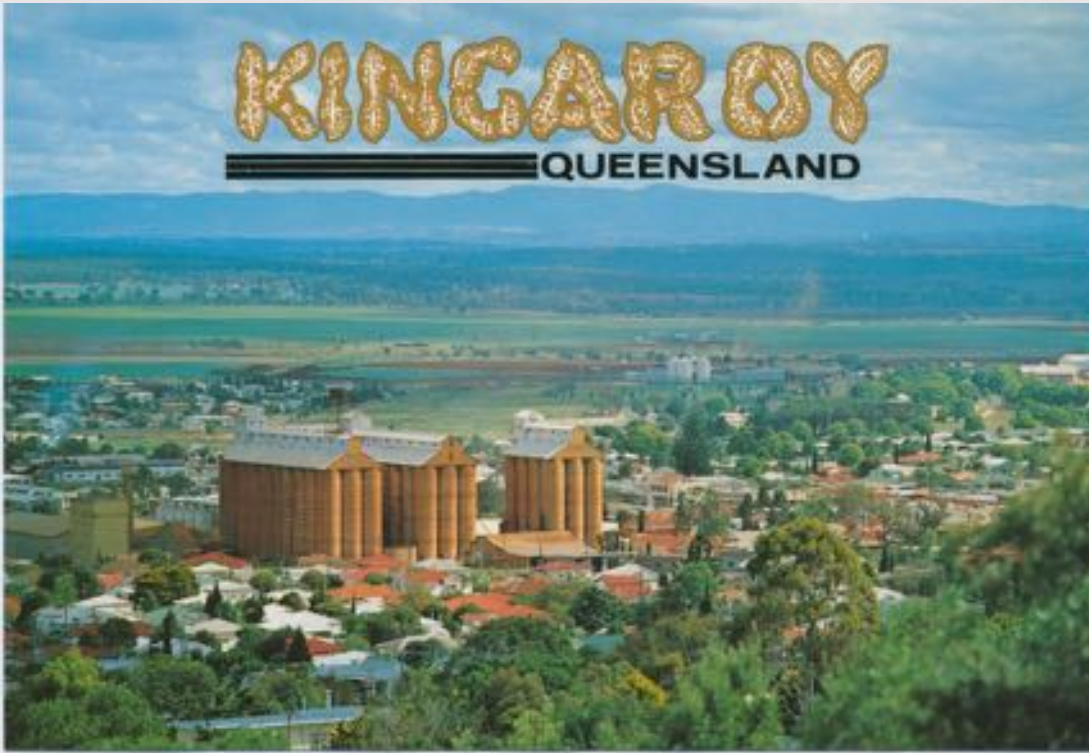


# Three Contexts : Three Precincts

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Kingaroy, Queensland



Kingaroy Hospital Site



Kingaroy Hospital

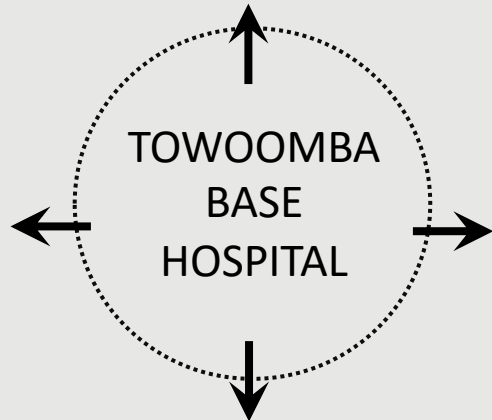
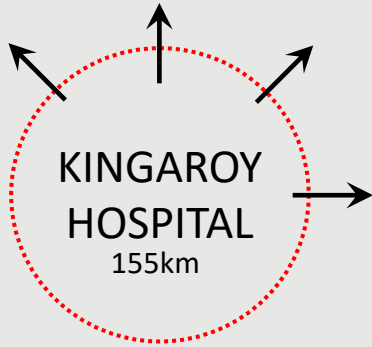


**1938**

**1984**



servicing twenty-one communities



**Darling Downs Health and Hospital Service**

HUB AND SPOKE MODEL OF SERVICE DELIVERY

## Kingaroy Hospital: a typical year



Source: Kingaroy Hospital

# Masterplan requirements

## Facility Expansion

Increase bed capacity from 49 to 66

Increase in the range of clinical services

Upgrade to a contemporary Model of Care

Upgrade to current health facility guidelines

Incorporate telehealth facility

Remove multiple points of entry

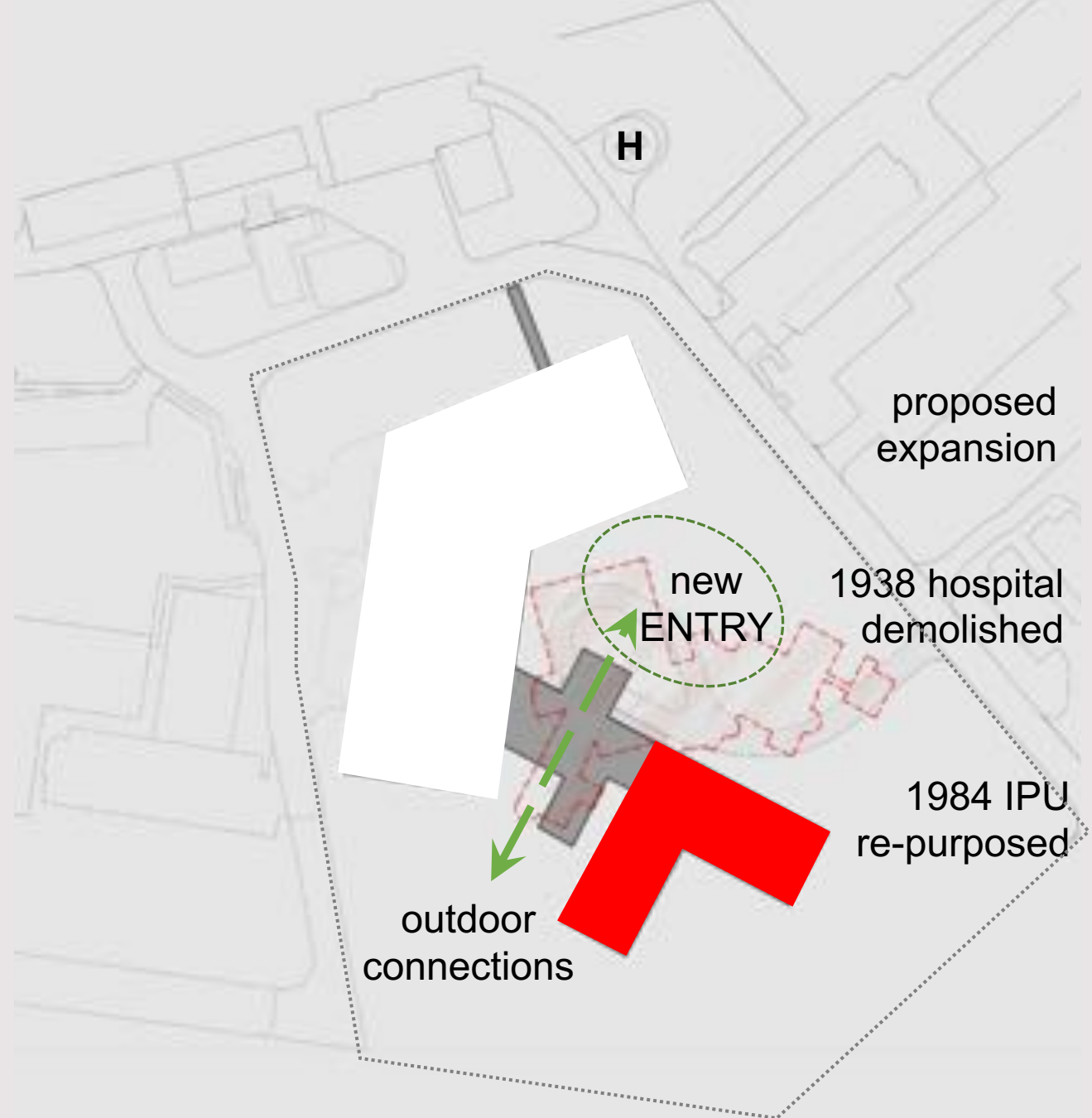
Provide clear and direct wayfinding

Heritage value of the original building

Improve the amenity of external areas

Staging and implementation

Future expansion and flexibility





# Precinct Design : Key Considerations

## PLACE

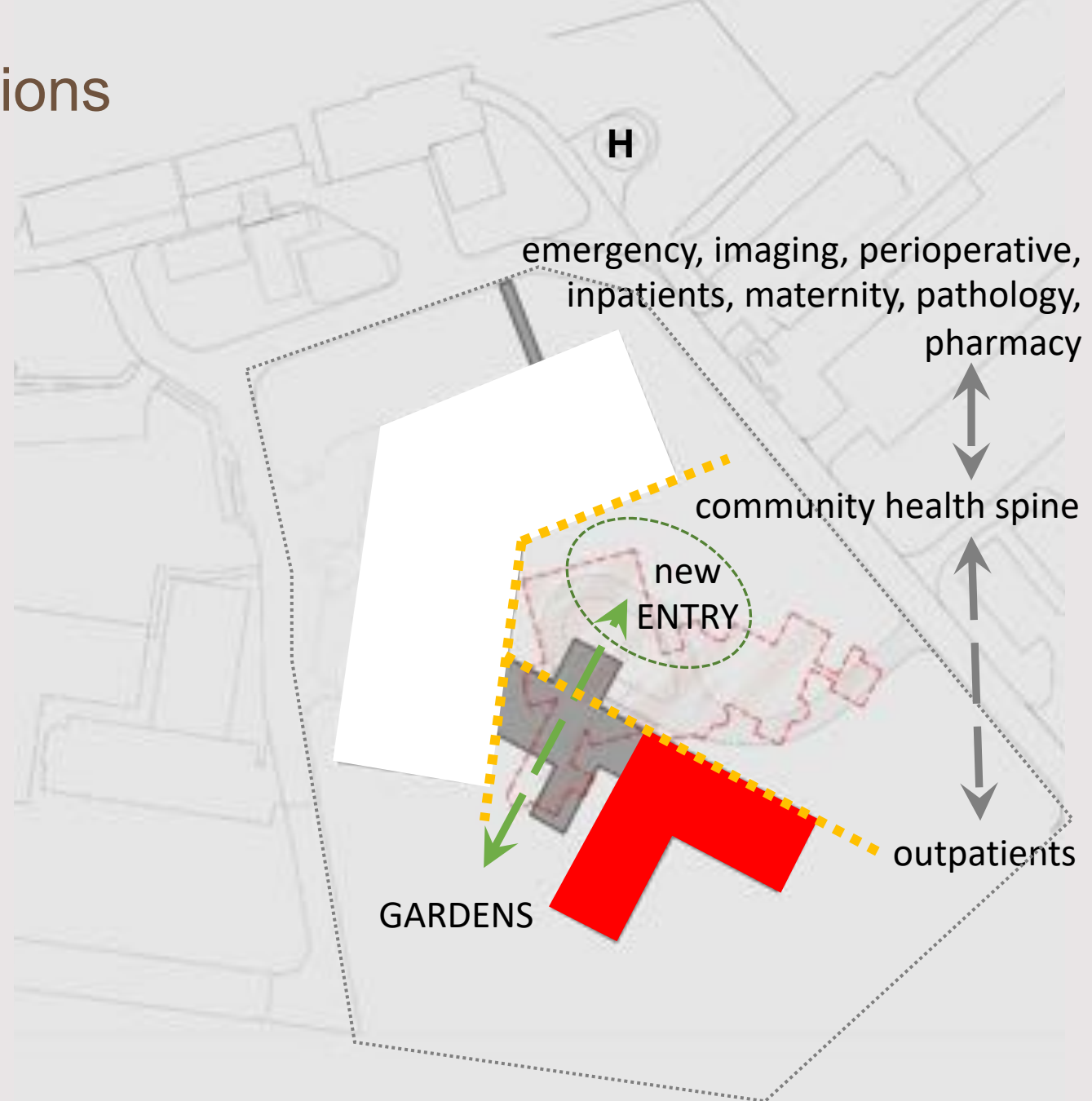
Kingaroy locality  
Regional locality  
Climatic locality

## PEOPLE

Community engagement  
Indigenous communities and patients

## WELL BEING

Indoor environmental quality  
Fresh air  
Natural light and sunshine  
Views  
Landscape integration  
Navigation and wayfinding







Kingaroy Hospital 2022



KINGAROY HOSPITAL

Kingaroy Hospital 2022

# Three Contexts : Three Precincts

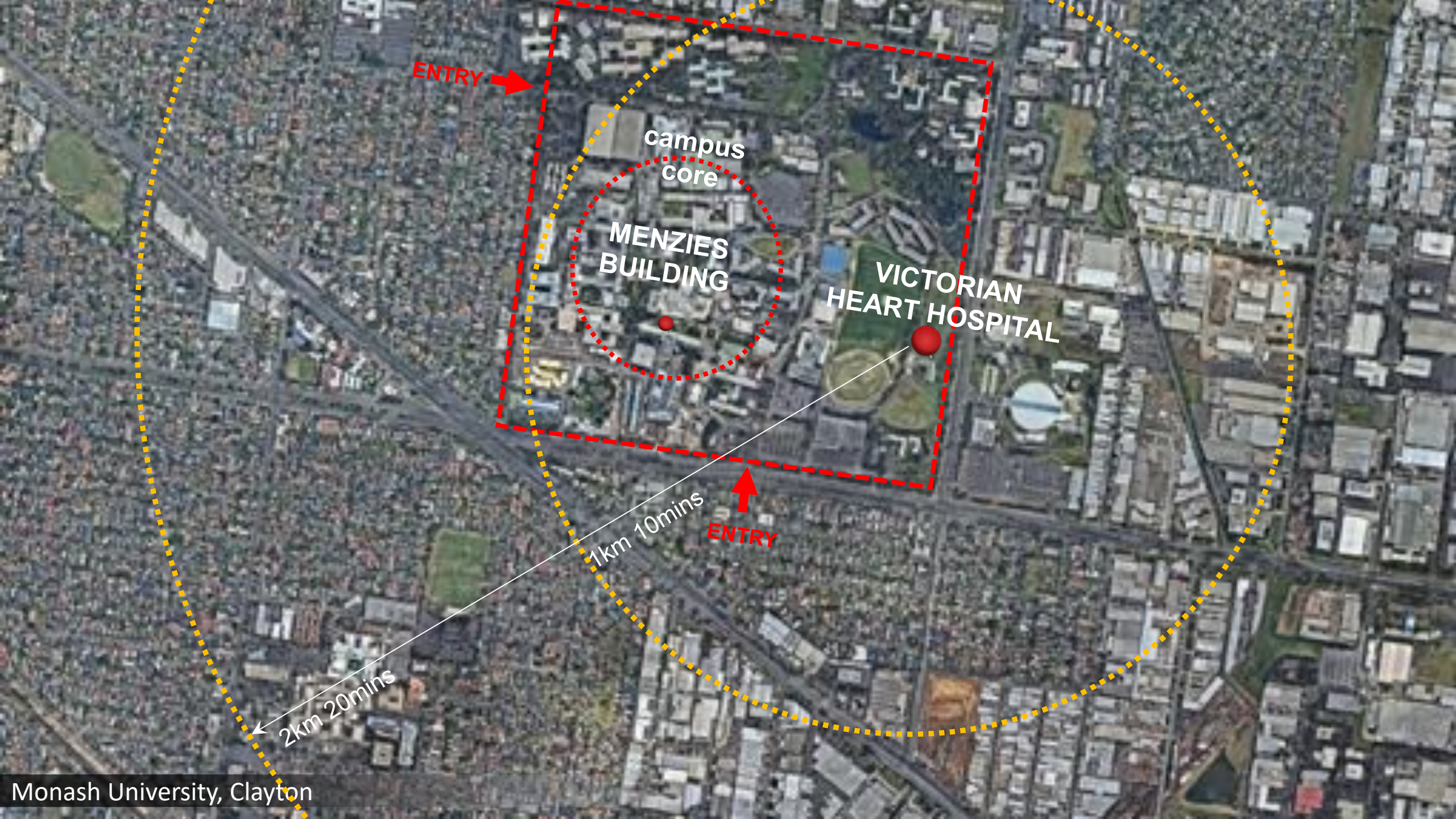
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Menzies Building, Monash University, Clayton, c1967 and 2016



ENTRY

campus core

MENZIES BUILDING

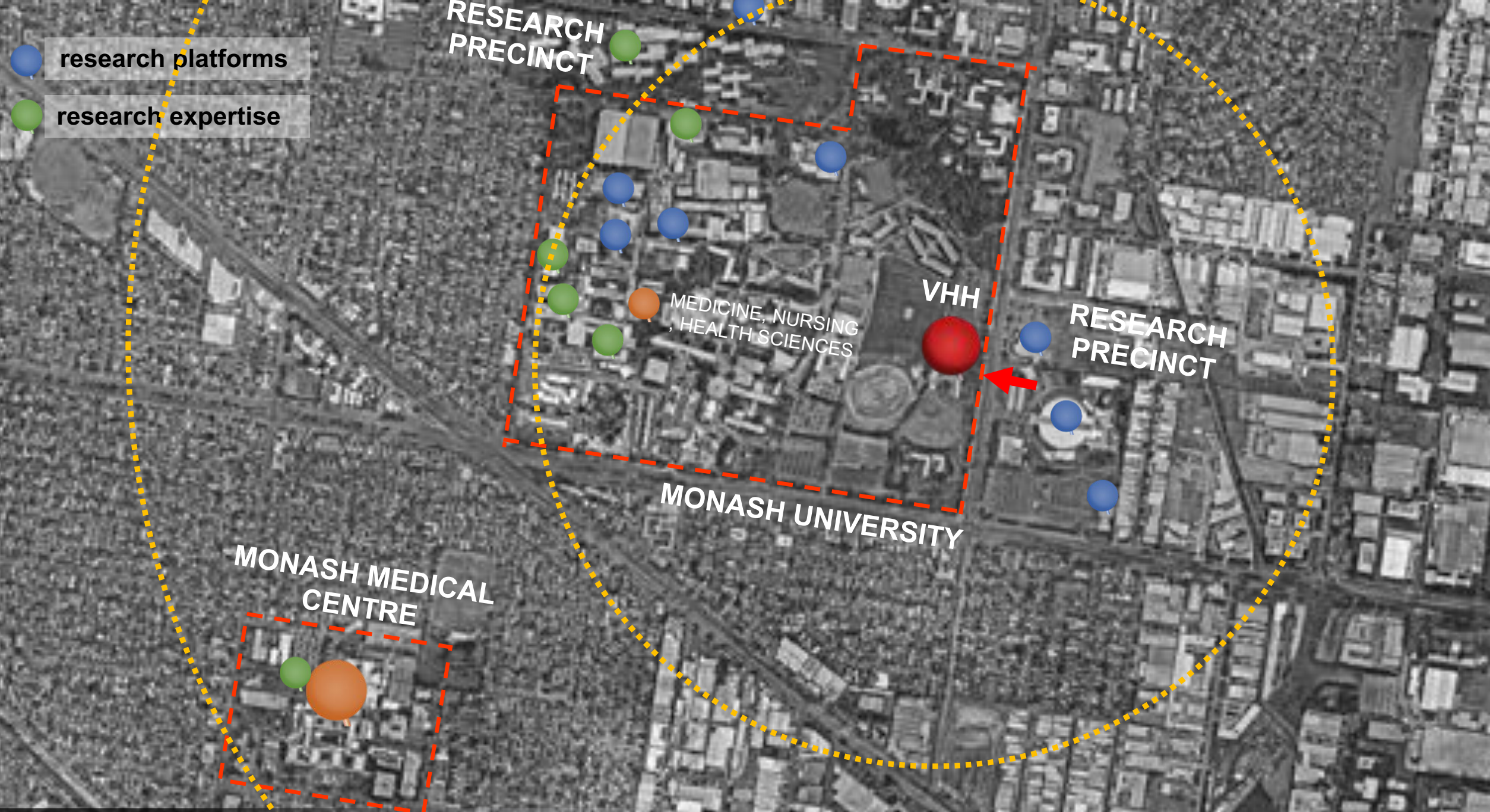
VICTORIAN HEART HOSPITAL

ENTRY

2km 20mins

1km 10mins

- research platforms
- research expertise







**195**  
bed capacity



**108,000**  
consultations and  
outpatient  
appointments per  
year



**300**  
undergraduate  
students per year



**260**  
post graduate  
students per year



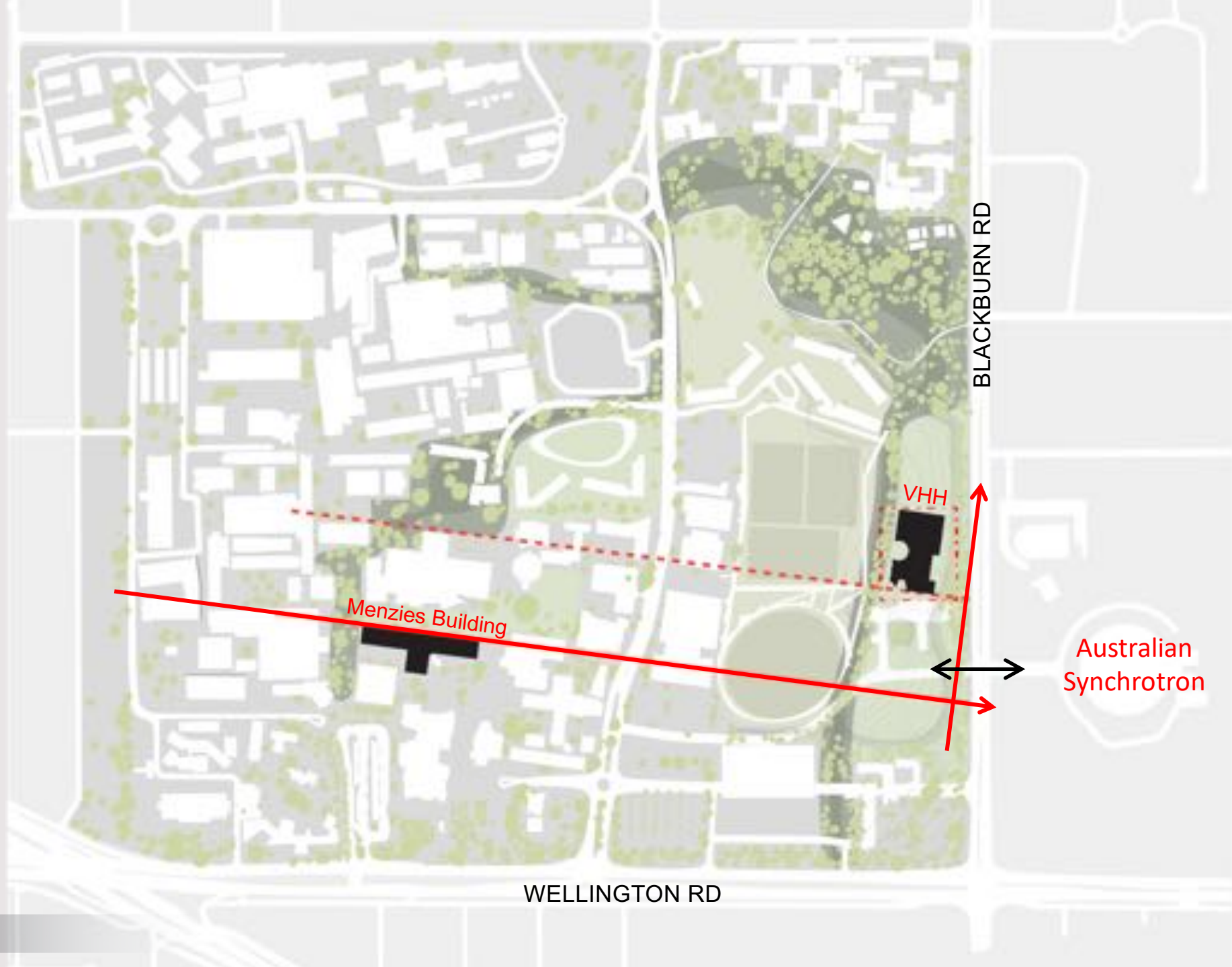
**2,000**  
cardiac surgeries  
per year



**13,500**  
cardiac  
catheterisation  
laboratory  
procedures per  
year



**20**  
PhD students per  
year



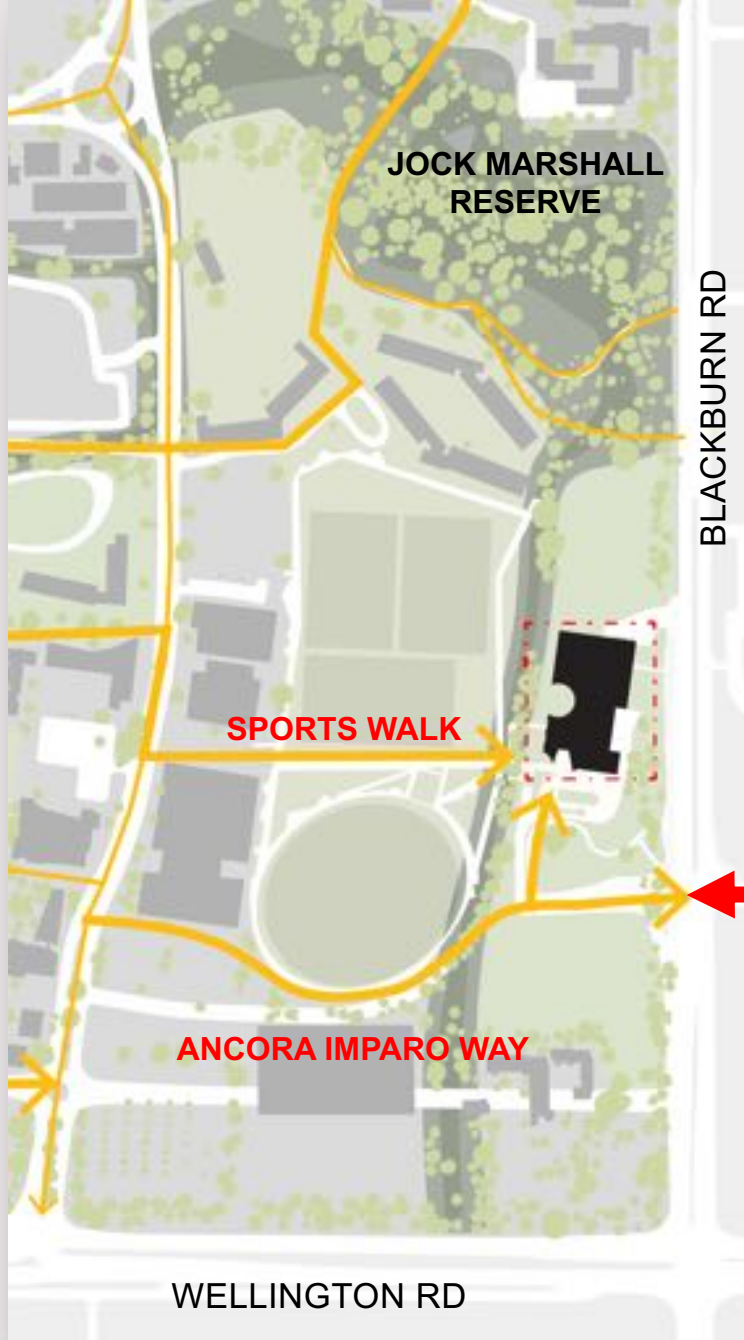
BLACKBURN RD

VHH

Menzies Building

Australian Synchrotron

WELLINGTON RD



to University Campus core

**08** (IPU Shell, Plant)

**07** (IPUs)

**06** (IPUs)

**05** (Interventional, ICU, TSSU)

**04** (Interventional, Patient Terrace)

**03** (Corporate, Support, Engineering, Plant)

**02** (Monash, MCRC)

**01** (Ambulatory, MCRC, Path, Pharmacy, SH)

**00** (FOH, ED, Imaging)

Basements (public and staff carparking, loading bay)

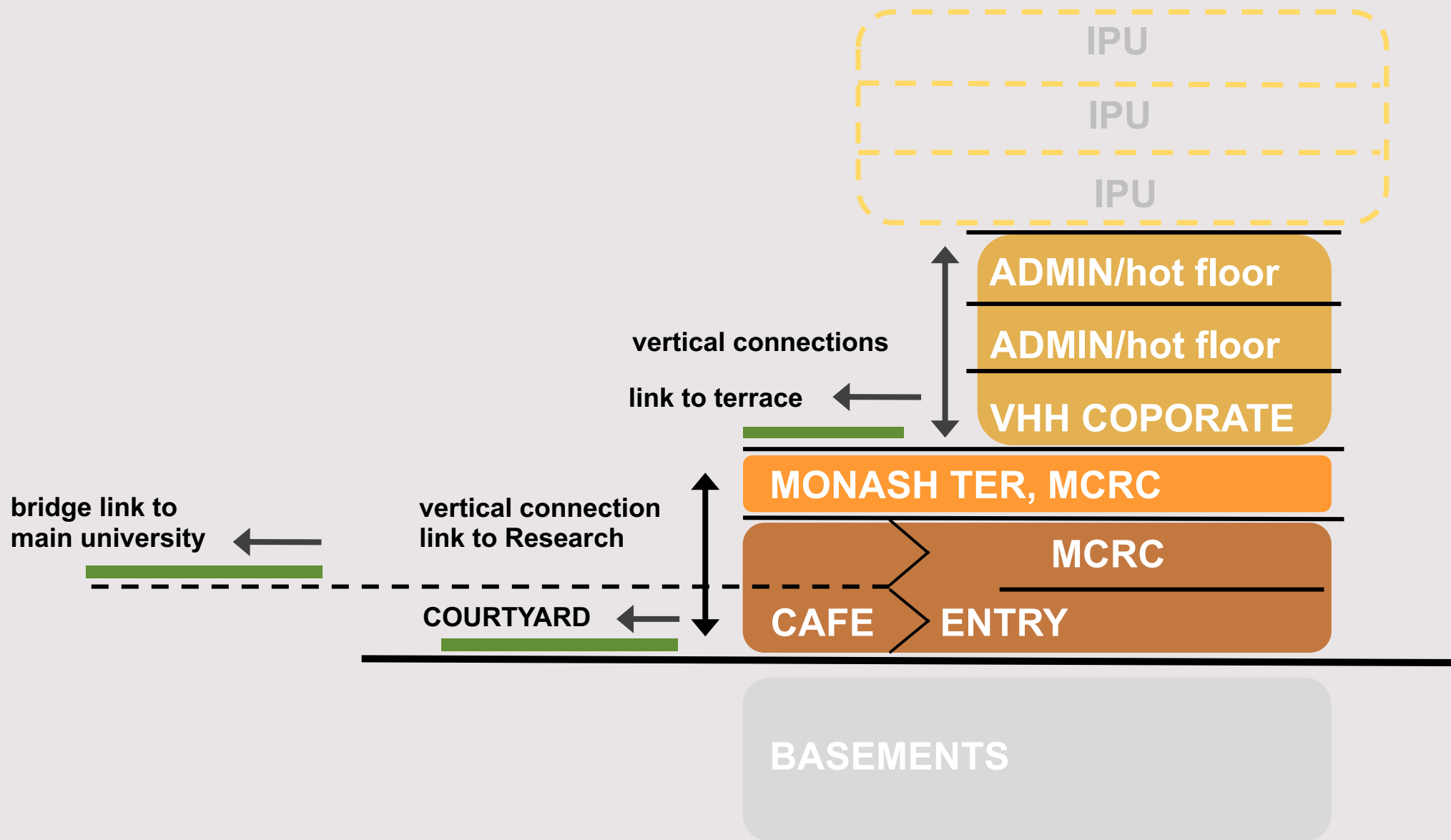
DOMESTIC

CLINICAL

PUBLIC/FOH

BoH

to Blackburn Road





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Princess Alexandra Hospital







Proposed Boggo Road Station

EcoScience

Future School

Future Commercial

Future Commercial

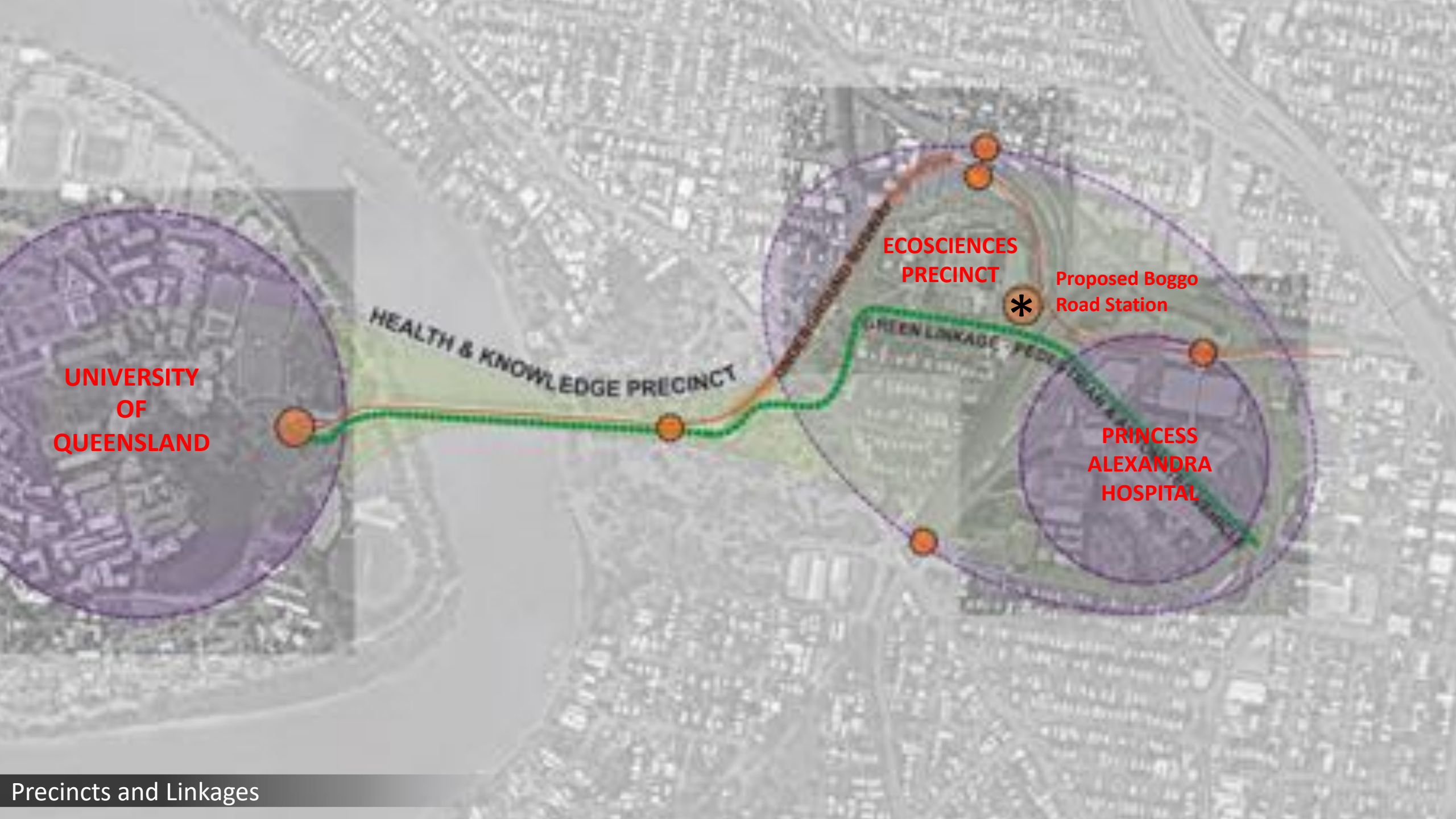
Commercial

Research

PRINCESS ALEXANDRA HOSPITAL Clinical

Future Commercial

Buranda Village



**UNIVERSITY  
OF  
QUEENSLAND**

**HEALTH & KNOWLEDGE PRECINCT**

**ECOSCIENCES  
PRECINCT**

**Proposed Boggo  
Road Station**

**PRINCESS  
ALEXANDRA  
HOSPITAL**



Development potential

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# THANK YOU

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