

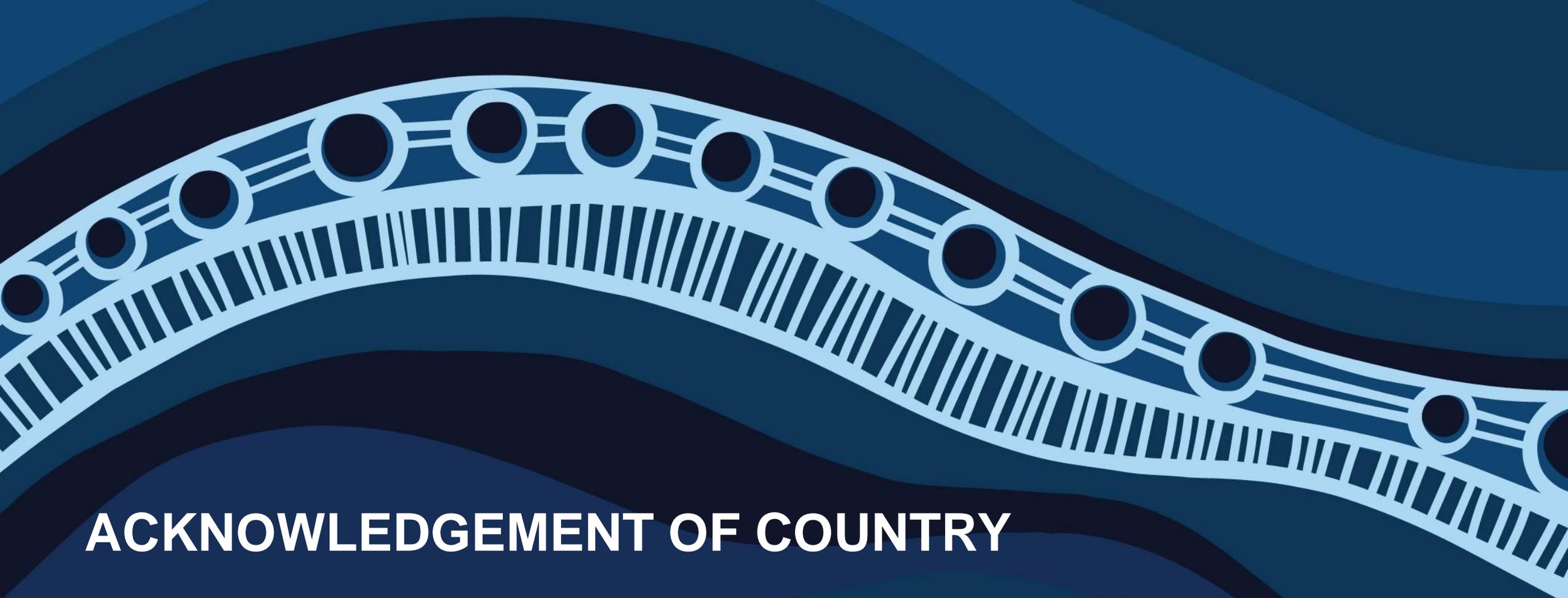


# GRANDSCHOOLS

Intergenerational Learning and Living Communities  
A National Health and Medical Research Council  
Supported Project

QSPRC Schools Planning Forum | 14-NOV-2024





# ACKNOWLEDGEMENT OF COUNTRY

In recognising Aboriginal and Torres Strait Islander people's spiritual and cultural connection to Country and in continuing QUT, ACU and Deakin's commitment to Reconciliation, we would like to acknowledge the First Peoples and Traditional Owners and custodians of the Country where QUT, ACU and Deakin campuses are located.

We respectfully acknowledge our Elders past and present and remember they have passed on their wisdom to us in various ways. Let us hold this in trust as we work and serve our communities.

# AGENDA

1. Overview of GrandSchools, **Mark Trotter**
2. Case studies, **Marissa Lindquist**
3. GrandSchools urban planning, **Mark Limb**
4. Cost Benefit Analysis, **Vanessa Bennett**



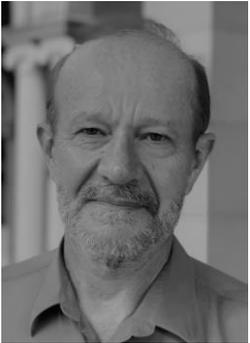
# PROJECT OVERVIEW

Mark Trotter

# GrandSchools

- A new model for healthy senior living and integrated school communities across urban and regional Australia
- Federally funded project exploring integrated solutions for healthy intergenerational learning and living campuses across urban and regional Australia.
- Led by QUT, ACU, Deakin University and Fulton Trotter Architects in partnership with key education, senior living and built environment industry partners.





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# GrandSchools Research Team



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# IMPACT OF GRANDSCHOOLS

## ADDRESSING SOCIAL ISOLATION

The built environment can intensify social isolation and limit opportunities to promote community.<sup>1</sup> Lack of social interaction can lead to loneliness and distress. In Australia, at least 1 in 5 older Australians are socially isolated. Older people are most vulnerable to social isolation which can decline their quality of life and increase generalised anxiety.<sup>2</sup> **The key priority of GrandSchools is to improve quality of life and decrease social isolation.**

<sup>1</sup> Bower et al. The Impact of the Built Environment on Loneliness: A Systematic Review and Narrative Synthesis 79. <https://doi.org/10.1016/j.healthplace.2022.102962>.

<sup>2</sup> ARRIA. A Review Summary: Social Isolation in Older People. <https://www.ariaa.org.au/sites/default/files/2023-12/ARIA-Social-isolation-review-summary.pdf>  
Image: <https://journal.urbantranscripts.org/article/to-be-in-a-good-place-interview-with-kevin-bennet-fellow-at-the-center-for-urban-design-and-mental-health/>



# IMPACT OF GRANDSCHOOLS REPAIRING PERCEPTIONS AND ATTITUDES

Intergenerational contact can improve attitudes towards young and older people.<sup>1</sup> Social connection between youths and older adults are stereotypically negative. Youths often perceive older adults as sad, lonely and not busy.<sup>2</sup> Older adults can perceive youths as entitled, lazy, and self-centered.<sup>3</sup> **The GrandSchools model facilities opportunities for intergenerational interaction by integrating youths and older adults in their daily lives and activities to improve attitudes and understanding between seniors and youth in diverse communities.**

<sup>1</sup> Cadieux et al. 2019. Intergenerational Contact Predicts Attitudes Toward Older Adults Through Inclusion of the Outgroup in the Self. *J Gerontol B Psychol Sci Soc Sci.* Apr 12;74(4):575-584. doi: 10.1093/geronb/gbx176.

<sup>2</sup> Burke J. L. 1981. Young Children's Attitudes and Perceptions of Older Adults. *Int J Aging Hum Dev.* 14(3): 205-22. doi: 10.2190/4j7n-rg79-hjqr-fldn.

<sup>3</sup> Weiss, D & Zhang, X. 2020. Multiple Sources of Aging Attitudes: Perceptions of Age Groups and Generations From Adolescence to Old Age Across China, Germany, and the United States. 6(51). <https://doi.org/10.1177/0022022120925904>



## **IMPACT OF GRANDSCHOOLS RESPONDING TO WORKFORCE DEMAND**

Developing a skilled workforce to respond to the future care of our seniors demands modernisation and realignment of vocational training. Healthy aging is an important focus of the health care system, with an estimated 22% will be older Australians by 2056.<sup>1</sup> GrandSchools will focus on enhancing collaboration between seniors, staff and youth and inspire pathways to working in aged care and training for existing staff.

<sup>1</sup> Commonwealth of Australia. Report on the inquiry into the quality of care in residential aged care facilities in Australia. Canberra: Commonwealth of Australia, 2018



# **IMPACT OF GRANDSCHOOLS**

## **SOCIAL INNOVATION AND ENTREPRENEURSHIP**

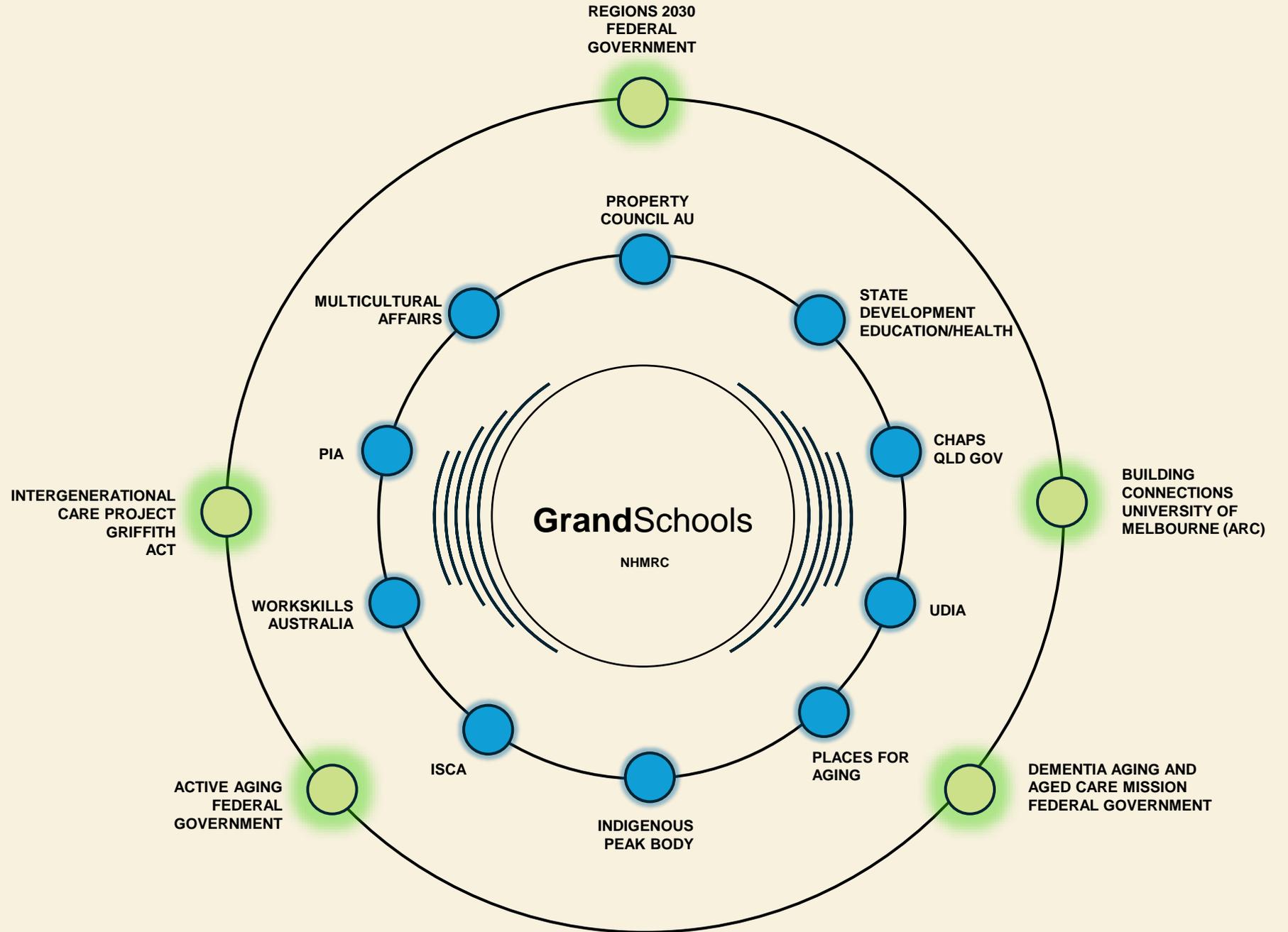
The impact of GrandSchools will foster community social innovation through social enterprises and intergenerational programs that can tackle social exclusion, enable knowledge transfer, create a sense of belonging, innovation including workforce skills and training.<sup>1</sup> This also enables older adults to pursue life projects and hobbies in collaboration with youths.

<sup>1</sup> Perez-Encinas et al. 2021. Intergenerational Entrepreneurship to Foster Sustainable Development: A Methodological Training Proposal. 13(17), 9654; <https://doi.org/10.3390/su13179654>

# REACH

Through extensive research efforts, GrandSchools has reached and connected with local, national, and international organisations, institutions and communities since 2020.

**Projected reach for the project has yet achieved in key areas/research clusters.**





QUEENSLAND AFTERNOONS →

### Afternoons

Tue 17 Mar 2020 at 12:30pm

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Presented by



Katherine Feeny

# architecture

DESIGN FESTIVAL / 2020

Architects are facing exciting challenges and creating amazing buildings and environments that form the cities of the future. How we live and work tomorrow will be very different to today, and architects are setting the direction. Architecture at QUT has a 100-year history as one of Australia's principal architecture educators and is increasingly being recognised internationally for its focus on innovation in design and sustainable development. Our graduates are inspired and empowered to create environments with a positive impact on human health, environmental quality, social relationships and urban systems.

WITH THANKS TO OUR AWARD SPONSORS



## Generations Working Together

**fulton trotter**

ARCHITECTS

enduringdesign

### MEDIA RELEASE

21 June 2024

### Queensland architectural firm holds design solution to ease population boom

Queensland's population has surged to 5.5 million and experts are predicting growth will continue, with a substantial rise still on the cards in the next 20 years.

The large increase is expected to put immense pressure on critical sectors sharply increasing the current demand for education, healthcare and retirement living.



## Doing School Differently 2024

**AIP Symposium 2024**  
Furthering our community of intergenerational practice

Friday 16 & Saturday 17 February 2024  
to be held at  
Griffith University South Bank Brisbane

**GRIFFITH UNIVERSITY**

**LITTLE SCHOLARS**  
SCHOOLS OF EARLY LEARNING

**G8 Education™**

Friday, 16 February

## AIP Symposium 2024

# LASA State 2020 Conferences

## Ageing Well... from Policy to Practice

**TRI - STATE**  
24 - 25 February 2020  
Albury Entertainment Centre

**QLD**  
1 - 2 April 2020  
The Star, Gold Coast

**NSW/ACT**  
18 - 20 May 2020  
Hilton, Sydney

**WA**  
17 - 19 June 2020  
Crown Perth





# CASE STUDIES

Dr Marissa Lindquist

# CI PROJECTS

Topic	Project	Region
Community assets	Learning from existing community hubs	QLD, NSW, VIC
Senior spaces	Built form and activities for multigenerational interactions seniors living	QLD, NSW, VIC
Social enterprise framework	GrandSchools certification	QLD, VIC, WA
Land use planning factors	Land use planning principles for education, senior living and intergenerational sites	-
Program framework	Intergenerational program framework	St John's Anglican College, Swampscott, NBNA, iGEN
Typologies	GrandSchool typologies (integrated, co-located, village, vertical/satellite)	-
Co-design methodologies	Co-designing intergenerational campuses with tangible modelling	-
Design structure	GrandSchools decision support tool	



Image credit: St Johns Anglican College

## Case Study: St Johns Anglican College, Forest Lake Brisbane

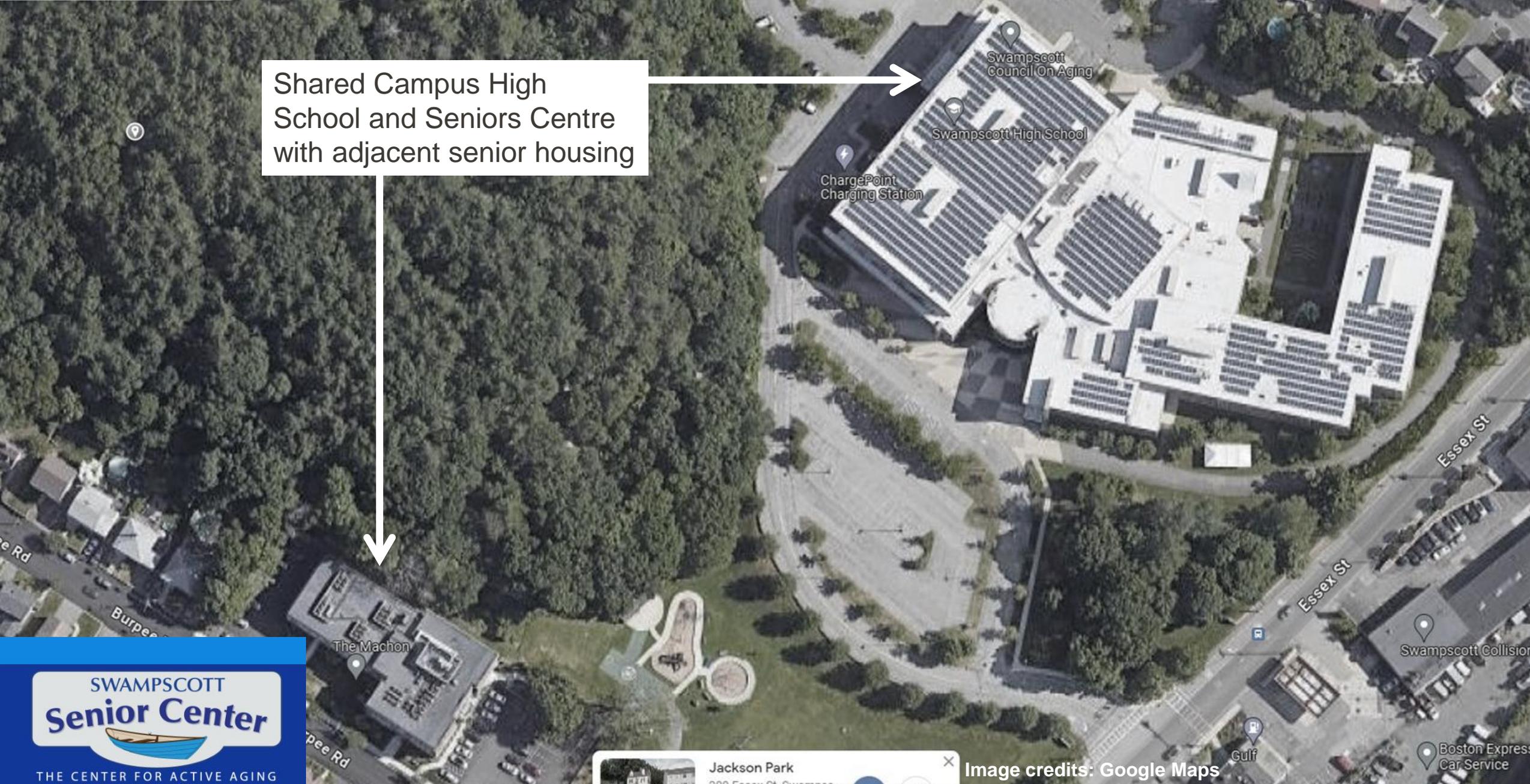


**NBNA**  
Nullu Badi Ngudyubay  
Academy

Image credits: Fulton Trotter Architects

**Case Study: Nullu Badi Ngudyubay Academy, Central Queensland**

Shared Campus High School and Seniors Centre with adjacent senior housing



SWAMPSCOTT  
Senior Center

THE CENTER FOR ACTIVE AGING

## Case Study: Swampscott, USA (High School and Senior Centre with adjacent housing)

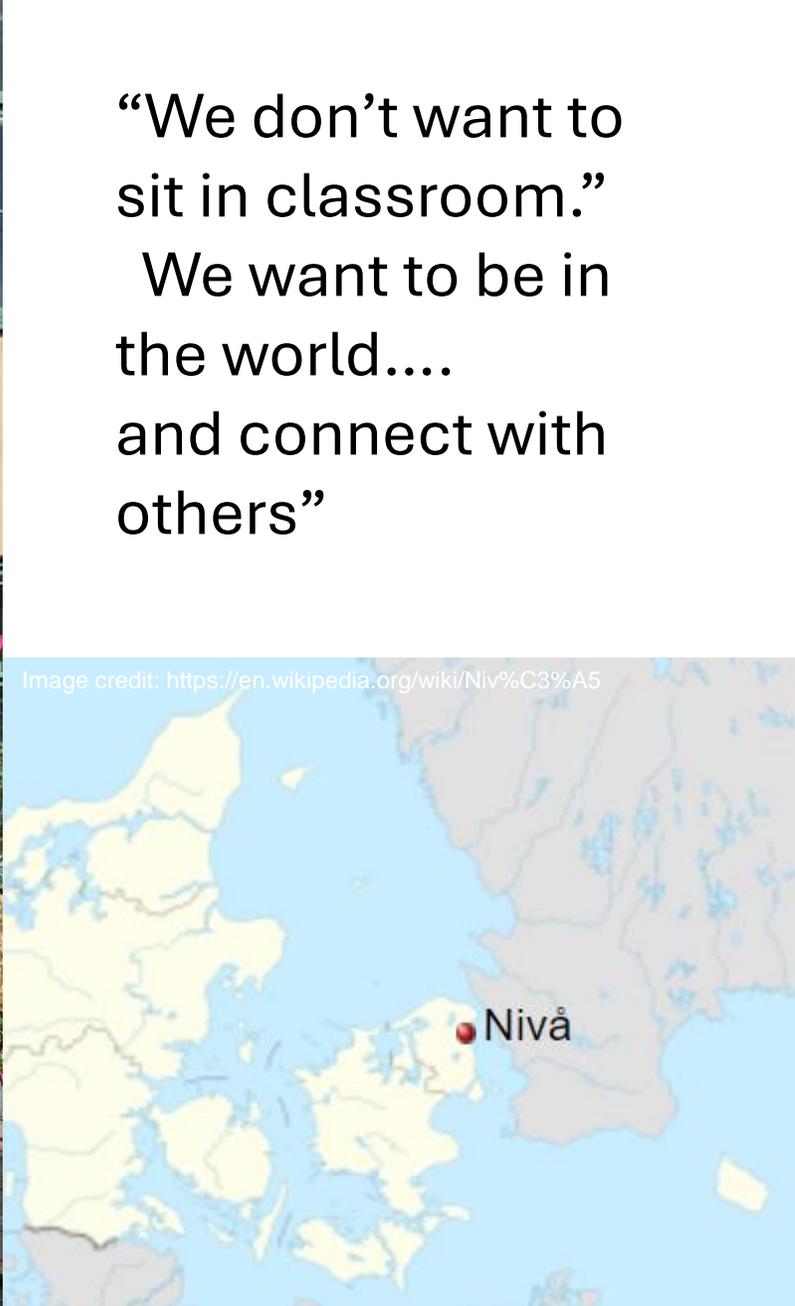


## **Verneda Sant Martí Learning Community**

- A community, social and educational project
- In Barcelona with a focus on creating a better neighbourhood.
- Almost 2000 members
- Commenced on the street and suburban square, with young adults soon needing a nursery school
- Adult education, with youth involvement

**Agora Association**  
**Heura Women's Association**

<https://www.edaverneda.org/>



“We don’t want to sit in classroom.”  
We want to be in the world....  
and connect with others”

Image credit: <https://en.wikipedia.org/wiki/Niv%C3%A5>

Case Study: Niva, Denmark



## Generations House

New school central to town

Town known for its brickworks

School facilities shared:

- Library
- Cultural centre
- Sports hall
- Swimming pool

Green space as connector

Connecting to others

Image credit: <https://www.cfmoller.com>

# Comparison of collaboration models

	Shared	Co-located	Integrated
When to choose	<p>An organisation is planning or operating a facility which could be shared with other practitioners or organisations.</p> <p>There is a shared client-base.</p> <p>The practitioners/organisations may want to strengthen and improve the knowledge of the service system for referrals and the community.</p> <p>This could be facilitated through a network.</p> <p>They tend to prefer informal arrangements which can be implemented quickly. Although these rely on good relationships</p>	<p>Multiple service providers see benefit in being located in the same building/hub/immediate area.</p> <p>Desire to offer greater convenience for the community by providing a range of compatible services in one location</p> <p>To have the ability to share resources and/or amenities such as share IT infrastructure, car parking, amenities, reception or back-office functions.</p> <p>To foster cross-referral of clients</p> <p>To facilitate cross-organisation relationships for knowledge sharing and peer support, and activities such as shared marketing and community engagement to build mutual client bases</p>	<p>The partners want to provide a seamless and responsive service delivery experience tailored to the needs and strengths of the community, with a greater focus on shared and accessible community outcomes.</p> <p>To achieve this, organisations are willing to establish a governance structure that will commit the necessary resources and leadership to operate an integrated hub.</p> <p>The management and governance in this model could include creating a new legal entity with its own branding, an appointed management organization or a joint management committee.</p>



Queensland Government

Queensland State Development 'Place Connect'

## Models of collaboration

Three models to consider when planning your collaboration

+ Follow



# URBAN PLANNING

Dr Mark Limb



# CONCEPTUALISATIONS OF URBAN PLANNING

- A regulatory & permitting process
- A process to optimise the use of land for maximum public benefit



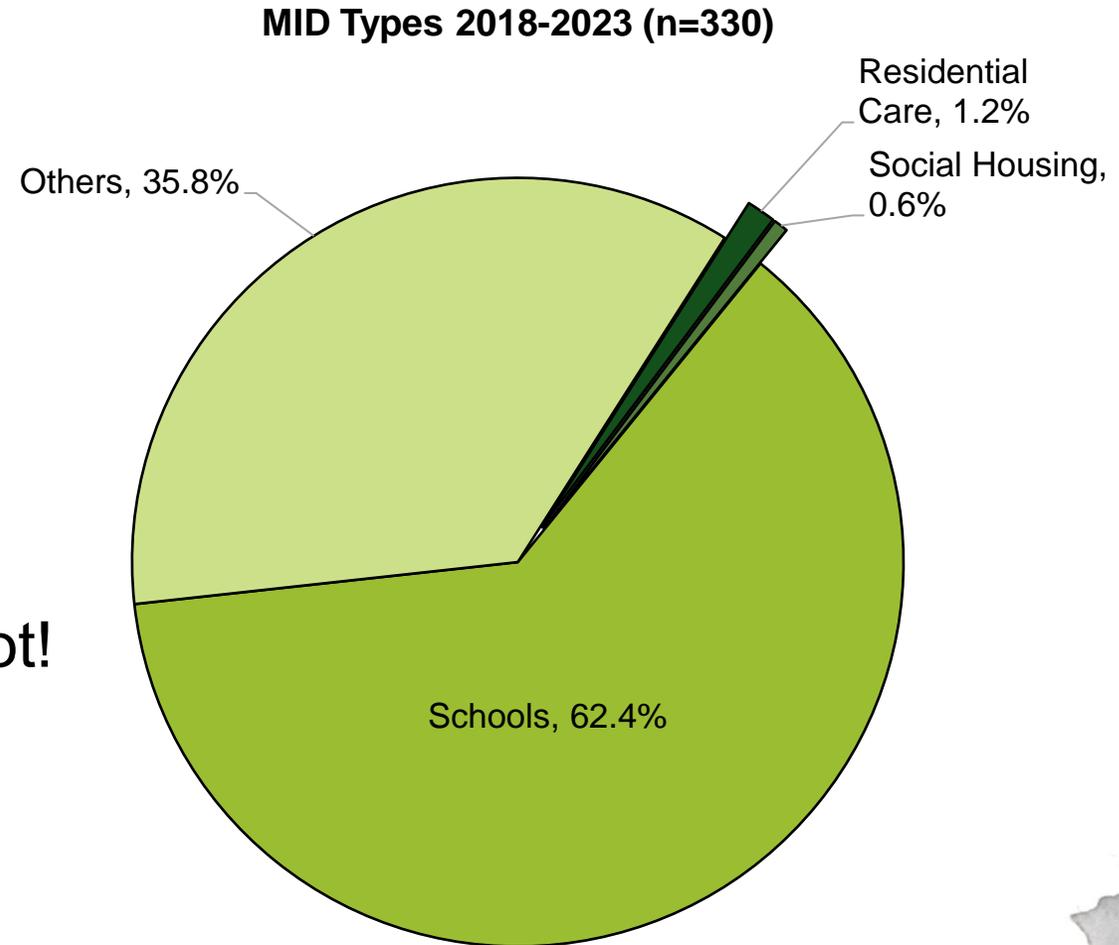


## **APPROVAL PATHWAYS**

1. Development Permit
2. Ministerial Infrastructure Designation (MID)

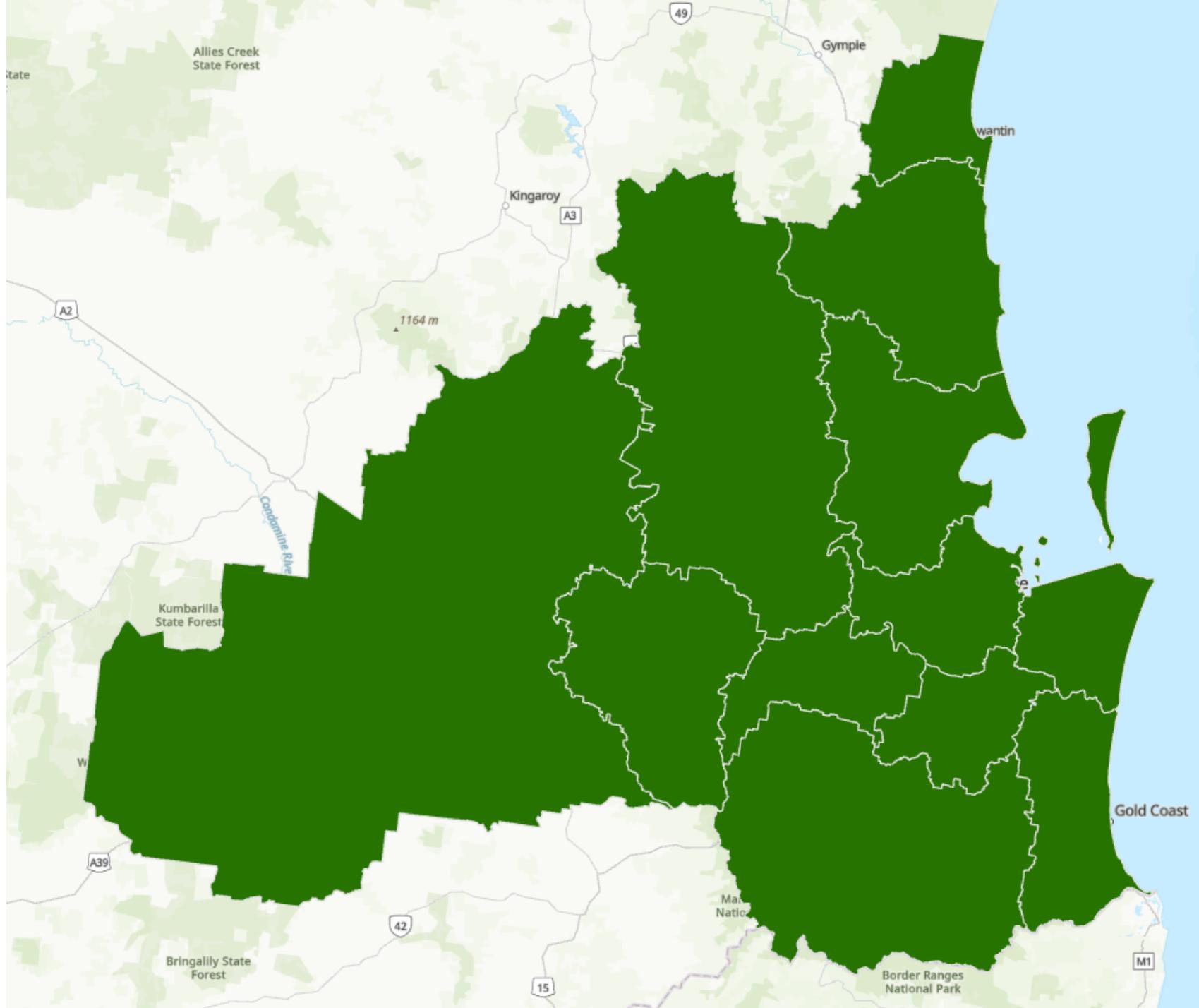
# Schools are common MID applicants

...but retirement facilities are not!



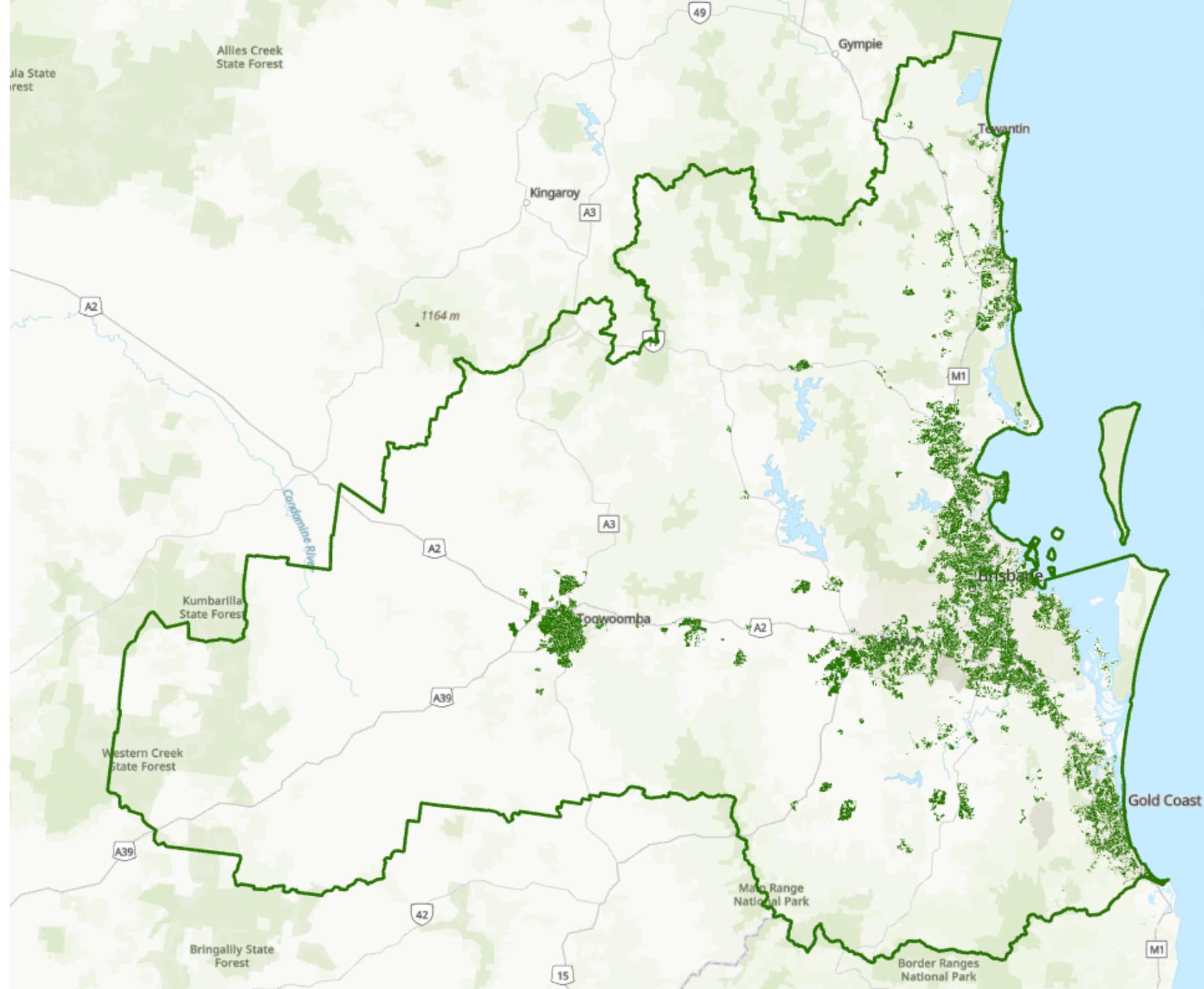
# Important to have consideration to typical planning processes

Start with all properties in SEQ.

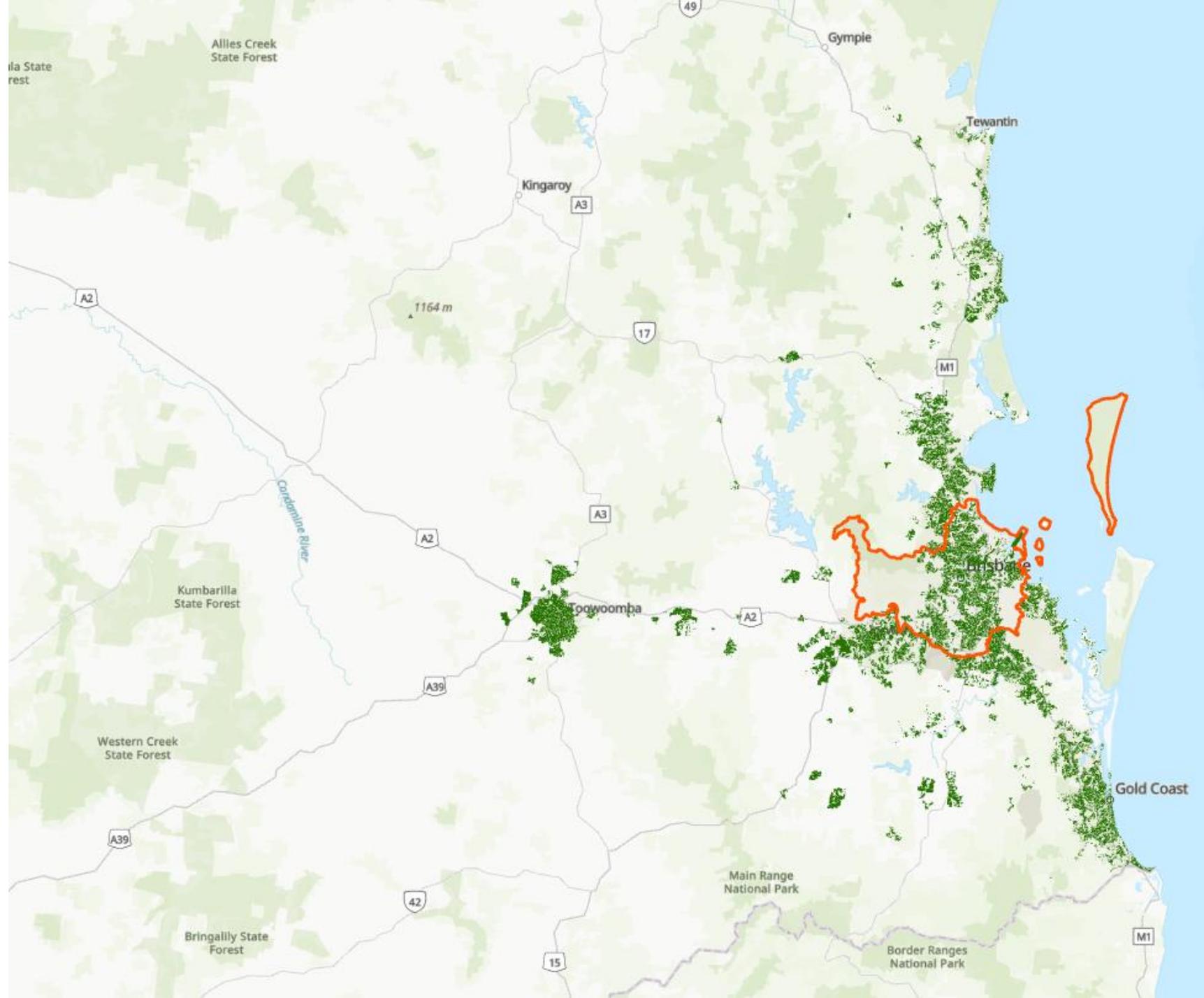


# Remove key constraints

- Must be within urban footprint
- Must be outside "hard" constraints:
  - Essential habitat
  - High and medium storm hazard levels
  - KRA Processing and Separation areas
  - Priority Ag Land and Strategic Cropping Land
  - Bushfire Prone Areas

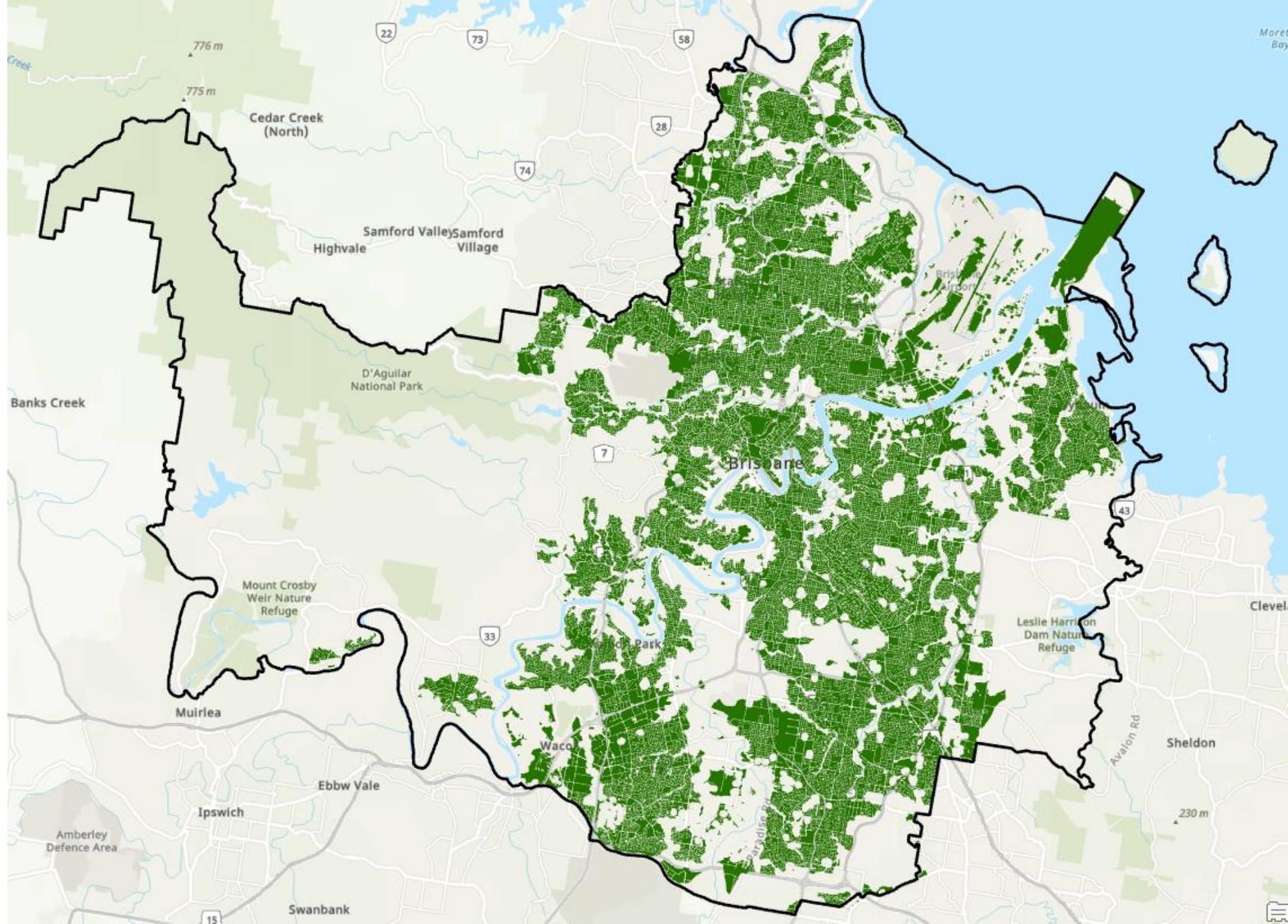


# Focus on Brisbane



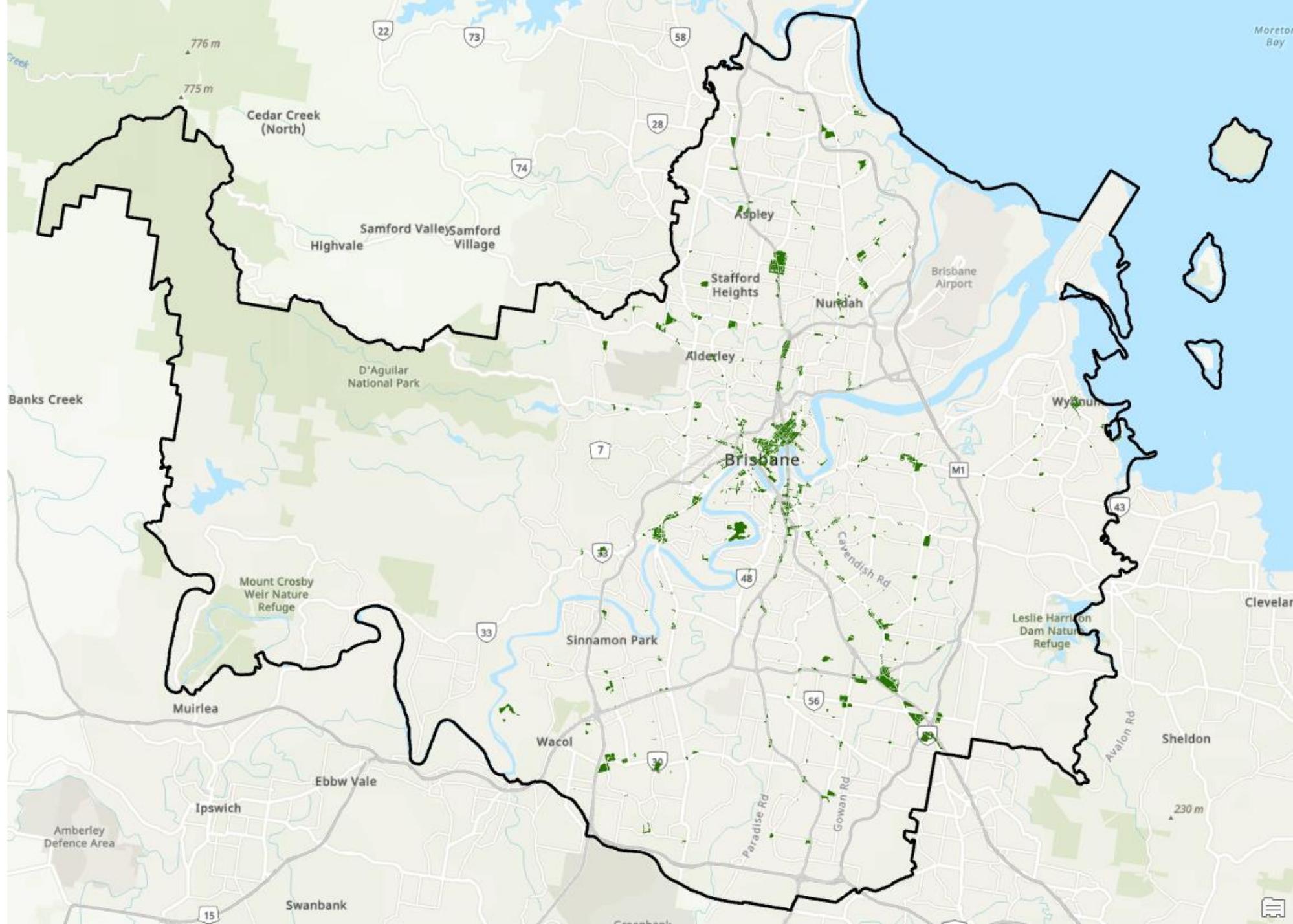
# Focus on Brisbane

- Remove flood affected areas
- Remove landslide prone areas



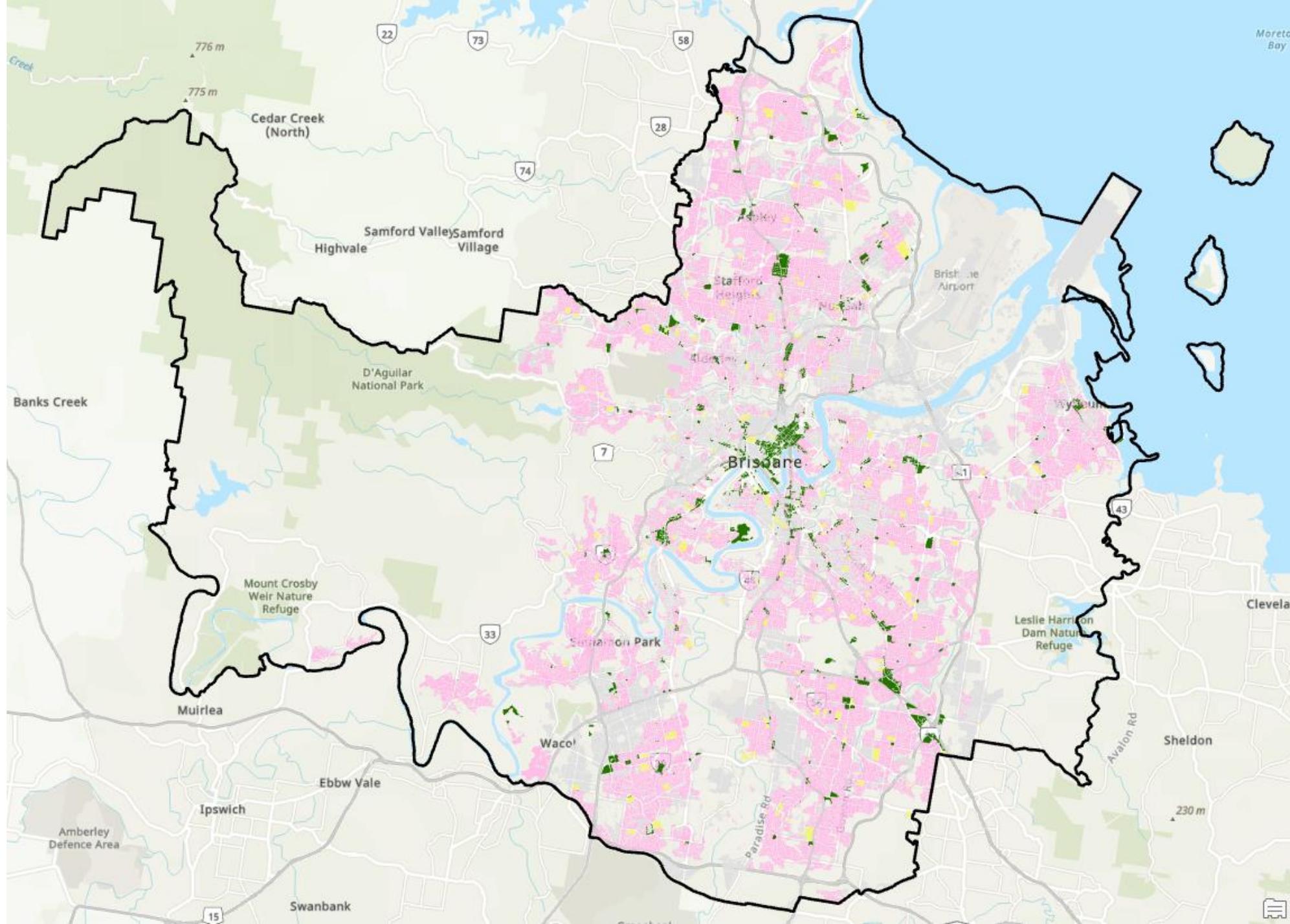
# Consistent zoning

(code assessable or less) for integrated GrandSchool



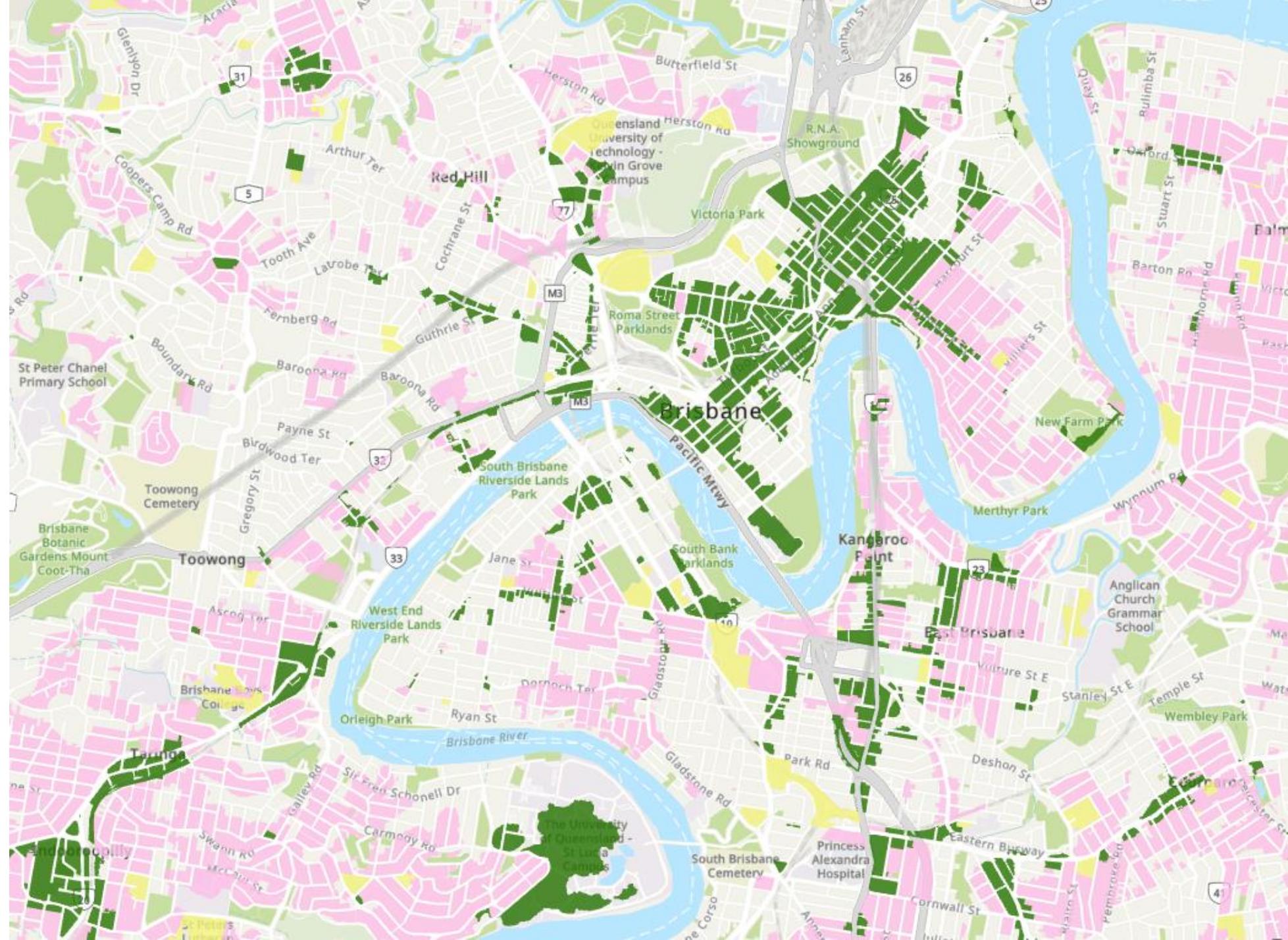
## Separating the uses

- Green = Integrated
- Pink = Residential uses
- Yellow = Education uses

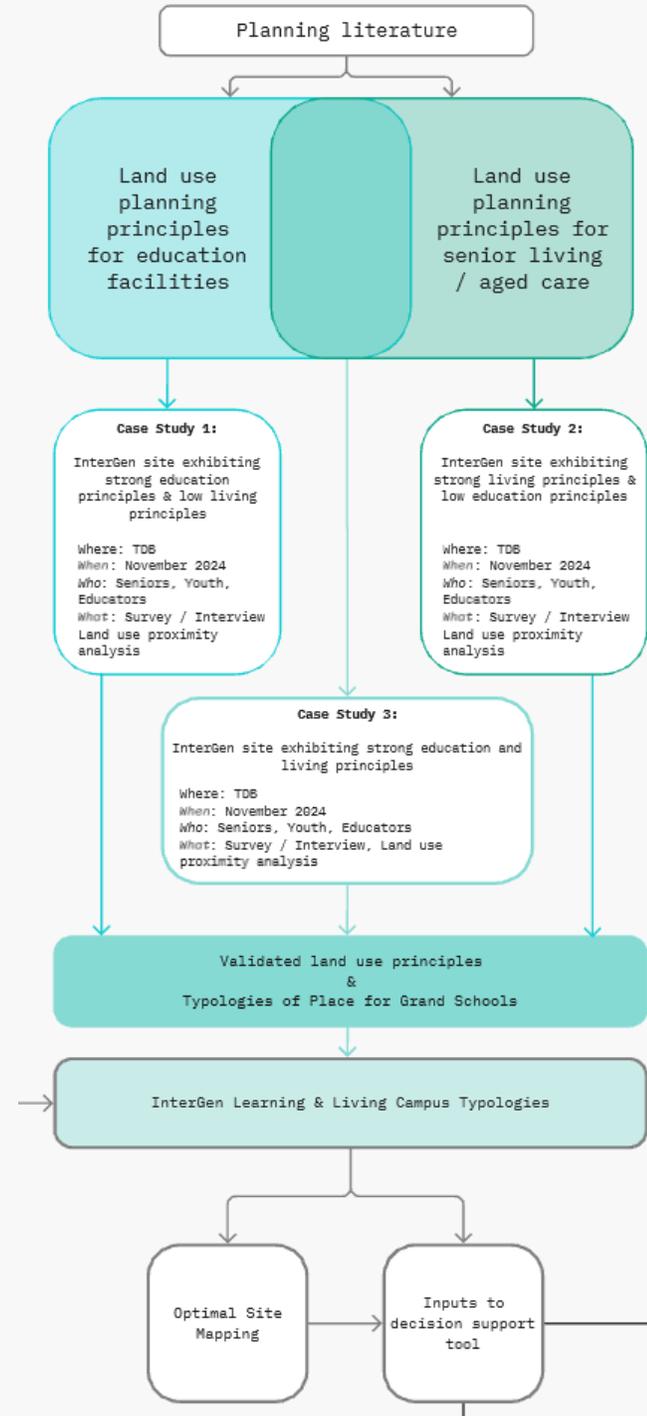


And here's how that looks around inner Brisbane

- Green = Integrated
- Pink = Residential uses
- Yellow = Education uses



# What spatial structures and land uses work best for a "GrandSchool"?





# **COST-BENEFIT ANALYSIS**

Vanessa Bennett

# Determining Community Value



- Inherently we know that there is value in the Grandschools Concept
- But how to provide **evidence**?
- **Cost benefit analysis** can show the overall value to the community.
- Proposed to complete a CBA, together with a
- **Social Impact Statement** and
- **Risk Assessment** to ensure cons are minimised and benefits are maximised



Be the change you want to  in the world



# Cost Benefit Analysis

“

Cost-benefit analysis is a triple bottom line analysis that determines the net social benefits produced by a project compared to a base-case (do minimal / nothing)



- The assessments in CBA account for the broadest possible definition of society, and include
  - economic,
  - social and
  - environmental costs and benefits.
- The objective of CBA is to assist in making decisions that produce society wide benefits across the spectrum of stakeholders.



# SIA, Risk Assessment (Enhancement/Mitigation)



## Qld Govt SIA requirements (Team wide inputs)

- Quality of Life for individuals, including safety and mental wellbeing
- Community health and safety effects, as well as exposure to hazards or risks
- Community Infrastructure and/or services
- Community or cultural activities, and/or important places
- Housing, choice, affordability
- Accessibility
- Character, identity and amenity
- Community cohesion / severance
- Specific groups or individuals
- Economic well-being, financial loss/gain for communities and individuals
- Access to Natural Features

## Risk Assessments (Team wide inputs)

- Financial and economic risks
- Legal risks
- Educational risks
- Social risks
- Environmental risks
- Reputational risks
- Community risks



# Cost Benefit Analysis: Initial Outcomes

Costs	Benefits	Other Issues
<ul style="list-style-type: none"><li>• Specialised assets</li><li>• High maintenance costs</li><li>• Further effort/time to maintain vision</li><li>• Community development costs</li><li>• Coordinators for community living/seniors</li><li>• Additional costs associated with seniors exiting concept</li><li>• Transportation infrastructure to facilitate connections</li><li>• Compliance and legislative costs for service providers and delivery between partners</li></ul>	<ul style="list-style-type: none"><li>• Shifts from consumerism to citizenry</li><li>• Sense of community in vertical/highrise model</li><li>• New ways of governance</li><li>• Additional use of facilities</li><li>• Home care coordinator benefits and reform</li><li>• Utilisation of spare capacity/infrastructure</li><li>• Learning agility – teaching ability to capture and change</li><li>• Meaningful acts, happiness, a fulfilling life</li><li>• Village model creates spectacle, porosity</li><li>• Digital spaces – opportunity to combine digital and physical activities</li></ul>	<ul style="list-style-type: none"><li>• Loss of flexibility for school and senior living provider</li><li>• How to determine eligibility</li><li>• Weighting of benefits for seniors versus youth learning development needs</li><li>• Whole city benefits – existing urban spaces become the schools</li><li>• Transition – what happens when seniors want to transition to another way of living</li><li>• Succession planning to maintain ideas and vision</li></ul>



# THANK YOU

Please join our mailing list to stay connected!



## GrandSchools Mailing List

Please join the GrandSchools network and keep updated with the latest research activities and opportunities. Your contact details will remain confidential and will only be used to communicate GrandSchools related information.

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