

APPENDICES



Image: Artistic Impression
Saltwater Wharf Precinct

APPENDIX A – BIRRARUNG MARR PRECINCT SITE 1

The City of Melbourne is kickstarting the delivery of the Greenline Project in 2023 with Site 1 of the Birrarung Marr Precinct. A contemporary river edge space will provide unique opportunities for locals and visitors to experience the north bank and the Yarra River - Birrarung. The project will create 450 metres of new boardwalks and a 6-metre wide promenade that will connect native habitats along the river's edge - a place where Wurundjeri Woi-wurrung Country, knowledge and culture will be celebrated.

Once complete, Birrarung Marr river edge will be the perfect spot to slow down and meander, enjoying views of the river and city from new vantage points. You will also find yourself surrounded by native planting and habitat in the heart of the city.

Birrarung Marr will continue to play host to some of Melbourne's biggest and best events, facilitating new cultural, creative, and sustainable experiences in a transformed landscape.

With ongoing involvement of Wurundjeri Woi-wurrung informing the Greenline Project development, this vision and draft proposal for Site 1 positions the Yarra River - Birrarung for cultural and environmental education - providing new opportunities for rich cultural learnings led by Traditional Owners.

Early works are expected to begin in 2023, with construction to follow in 2024.



The Eastern Entry to The Greenline Project

APPENDIX A – BIRRARUNG MARR PRECINCT SITE 1

Endorsed concept plan



APPENDIX A – BIRRARUNG MARR PRECINCT SITE 1

Endorsed concept design



Existing



Section key plan



Proposed

Section - The River Edge

Planning for Trees

A tree succession plan when finalised will make recommendations for the aging elm tree avenue including retention, replacement and improvements to the health and longevity of existing and new trees.

As retained mature trees decline in coming years and decades, they will be replaced with species consistent with the desired landscape character. For all new trees consideration will be given to cultural significance, ecological value and species diversity for resilience. Best-practice tree management will be applied, consistent with Council's Urban Forest Strategy and Tree Policy 2021.

APPENDIX B – GEHL REPORT

The Greenline Project health check and design recommendations

Site and Context Analysis “Health Check”

We will add a qualitative layer to existing site analyses by focusing on eye-level observations, challenges, and opportunities, with a particular emphasis on understanding public spaces from a human-centered, user point of view.

This includes mapping the following:

- Network of surrounding public spaces
- Connections to /from site and surroundings
- Functions and amenities in the surrounding area
- Analysis of public life and people movement in the area
- Evaluation of public space qualities
- An overall panorama of the Greenline Project’s qualities and trends
- Understanding existing and potential user profiles.

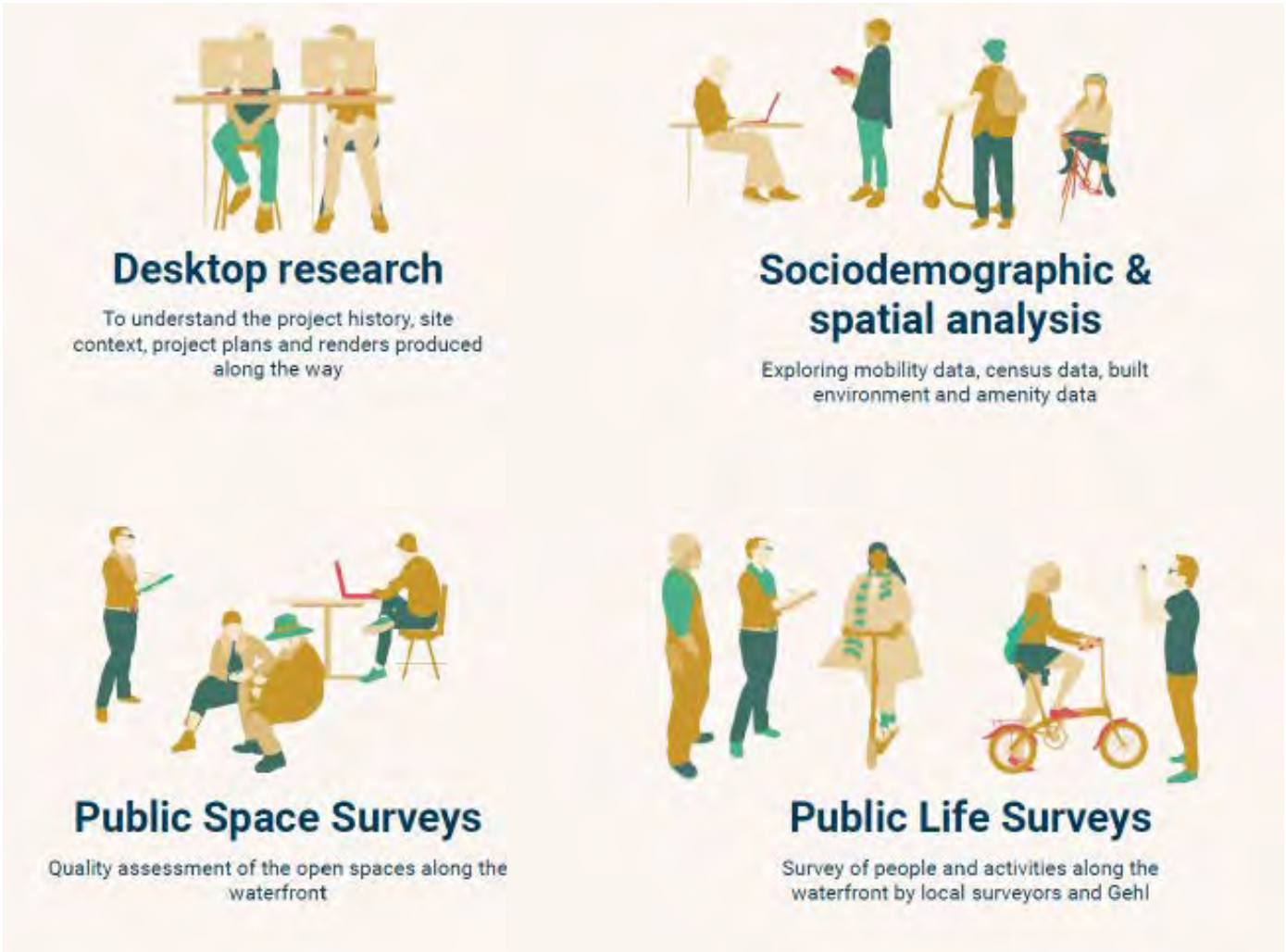
Design Recommendations

Based on the Greenline Health Check analysis, the design recommendations will summarise the key findings and propose actions that can optimise the experience for all users and visitors to Greenline. Specific goals for the design recommendations are:

- Defining existing and future user groups
- Defining key access points and gateways to Greenline
- Defining main outcomes for use, users, activities
- Defining specific recommendations for each precinct
- Defining key opportunities, visions and values
- Setting up suitable benchmark criteria (public life data)
- Highlighting international best practice cases, where relevant
- Providing suggested next steps for future community consultation and digital stream processes.

Gehl Methodology

The Greenline Health Check uses a variety of research methods to create an everyday understanding of the site. The collection of data builds an understanding of public life, public spaces, and buildings within and nearby the site.



APPENDIX B – GEHL REPORT

The Greenline Project health check and design recommendations - desktop research and amenities tool

1

New working trends since Covid have altered people’s relationship to the city and how they use it

2

The Greenline Project’s local residents are still dominated by 25-64 year olds

3

The Greenline Project is well supported with supermarkets and minimarts

4

Many higher education facilities across project’s’s length, draw young people to the area

5

Many cultural and arts facilities, and therefore active edges are located in eastern areas of The Greenline Project

6

Many facilities for children are located nearby, but very few play options exist to support this age group

7

There are many food and beverage options in the city, but few located on the project site itself

8

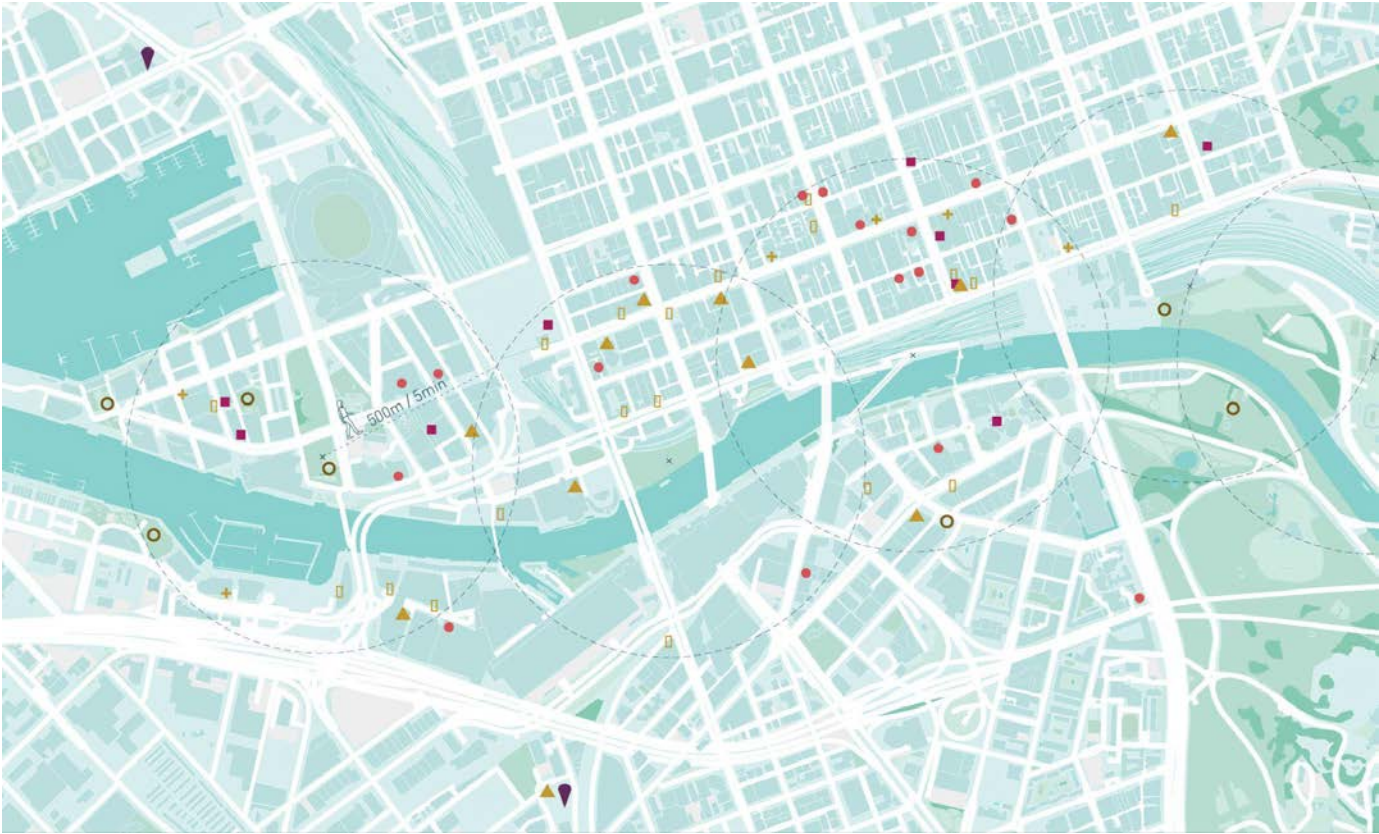
There is a large concentration of hotels near Spencer Street

9

There are many nearby libraries and civic centres, which could benefit from the Greenline Project’s public spaces for their activities

10

The Greenline Project has numerous fitness centres nearby which could benefit from its outdoor space



- Post office
- Playground
- Chemist
- Supermarket/Minimart
- Higher Education
- Childcare
- Primary School

Everyday Amenities



- Food and Beverage offerings

Food and Beverage options



- Music Venue
- Theatre
- Event Venue
- Arts and Culture
- Libraries and Community Centres
- Civic Centres

Culture and Events Spaces



- Retail
- Hospitality

Hospitality and Retail

APPENDIX B – GEHL REPORT

The Greenline Project health check and design recommendations - waterfront access and movement

1

Flinders Street is a major barrier between the CBD and the Greenline Project. Long waits at pedestrians crossings are also frustrating

2

The site’s feeder streets are of varying quality, but have great potential to support Greenline Project access

3

Station access points to the Greenline Project have issues with wayfinding and quality

4

The site’s narrow sections create conflicts between e-scooters, cyclists and pedestrians

5

Long stretches of the site are inactive and “impenetrable” with levels issues in the east

6

Allocation of space for pedestrians along feeder streets is often inadequate compared to demand

7

Access points to the Greenline Project occur at reasonable intervals, however more are needed in some sections

8

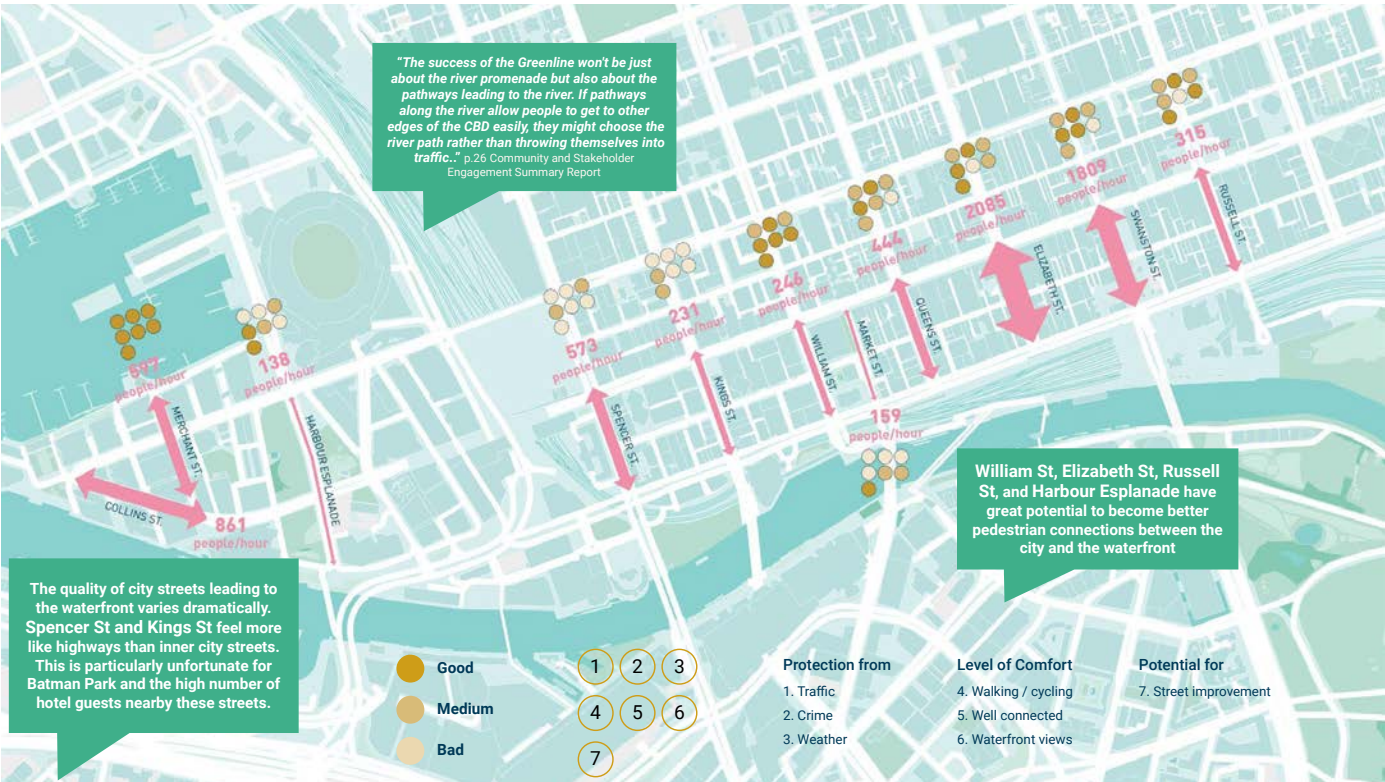
Activity level increases towards the east, supported by nearby cultural and food and beverage offerings

9

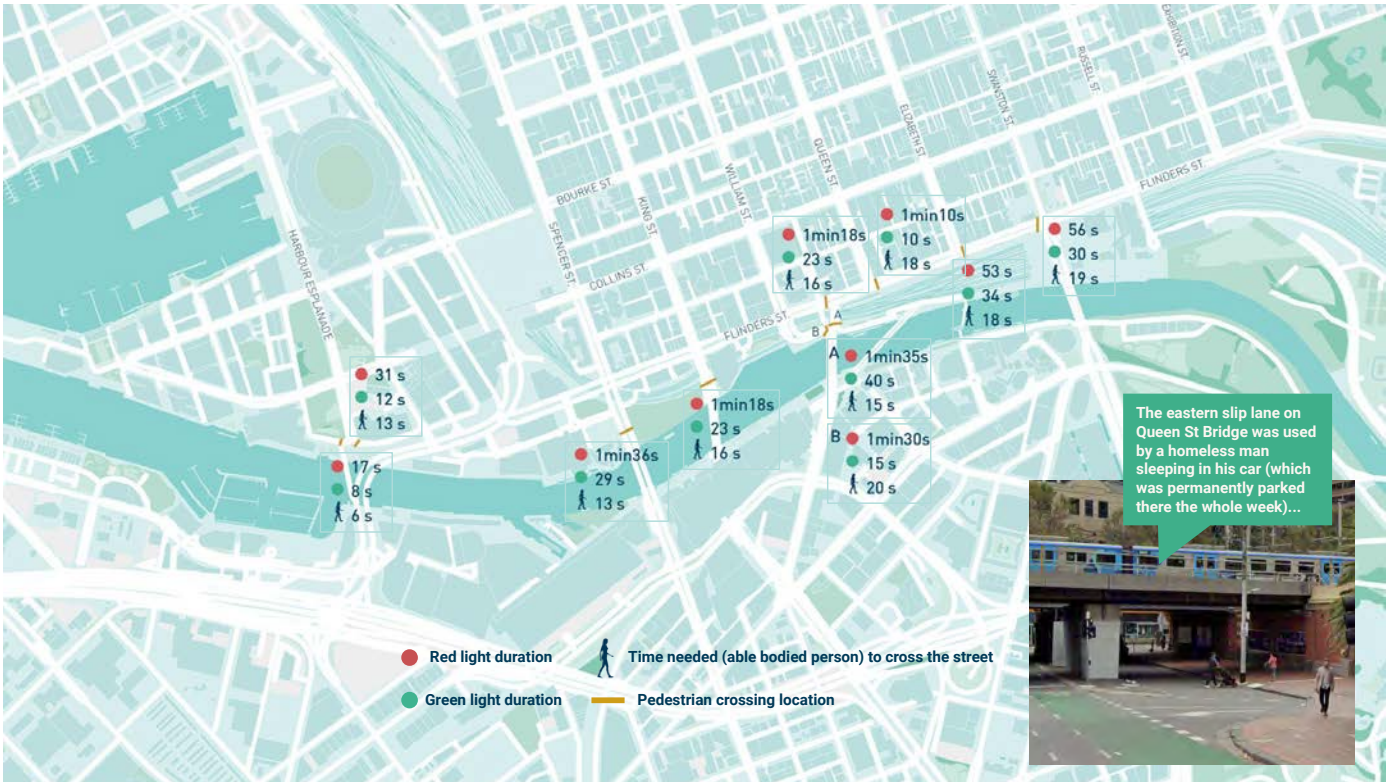
The project has the potential to become the benchmark for a pedestrian focused shared path in Melbourne

10

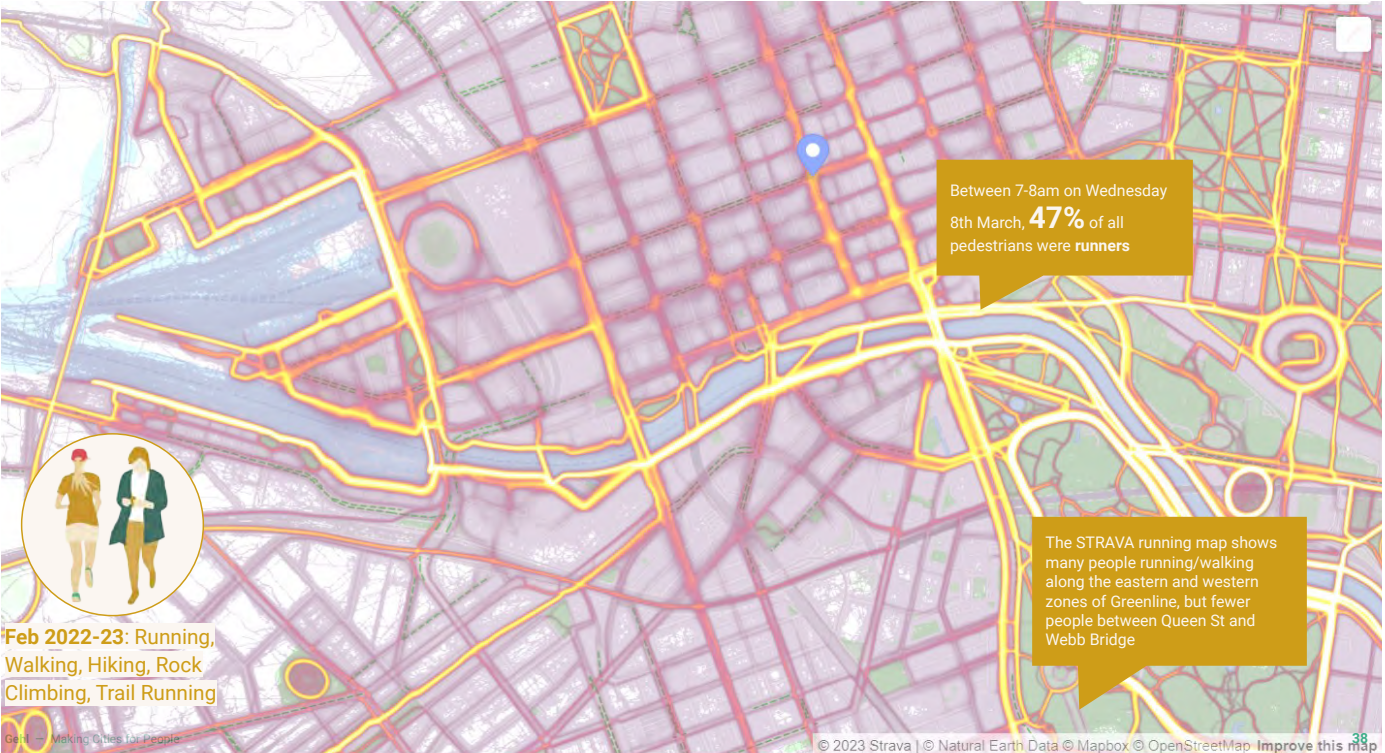
The site has fewer teens, young adults and seniors moving through, than the local census spilt



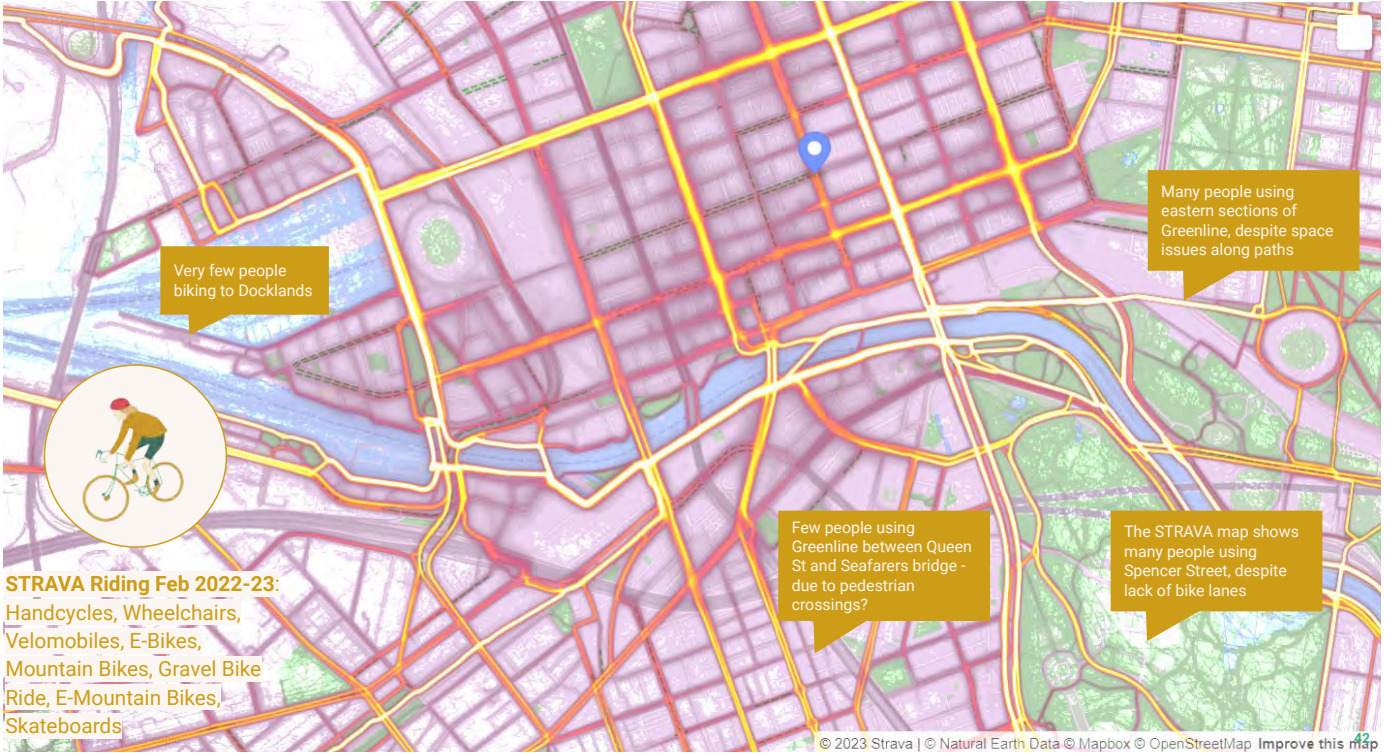
Access to the waterfront -Streets



Access to the waterfront - Pedstrian Crossings



STRAVA Running, Walking, Hiking, Rock Climbing, Trail Running (Feb 2022-23)



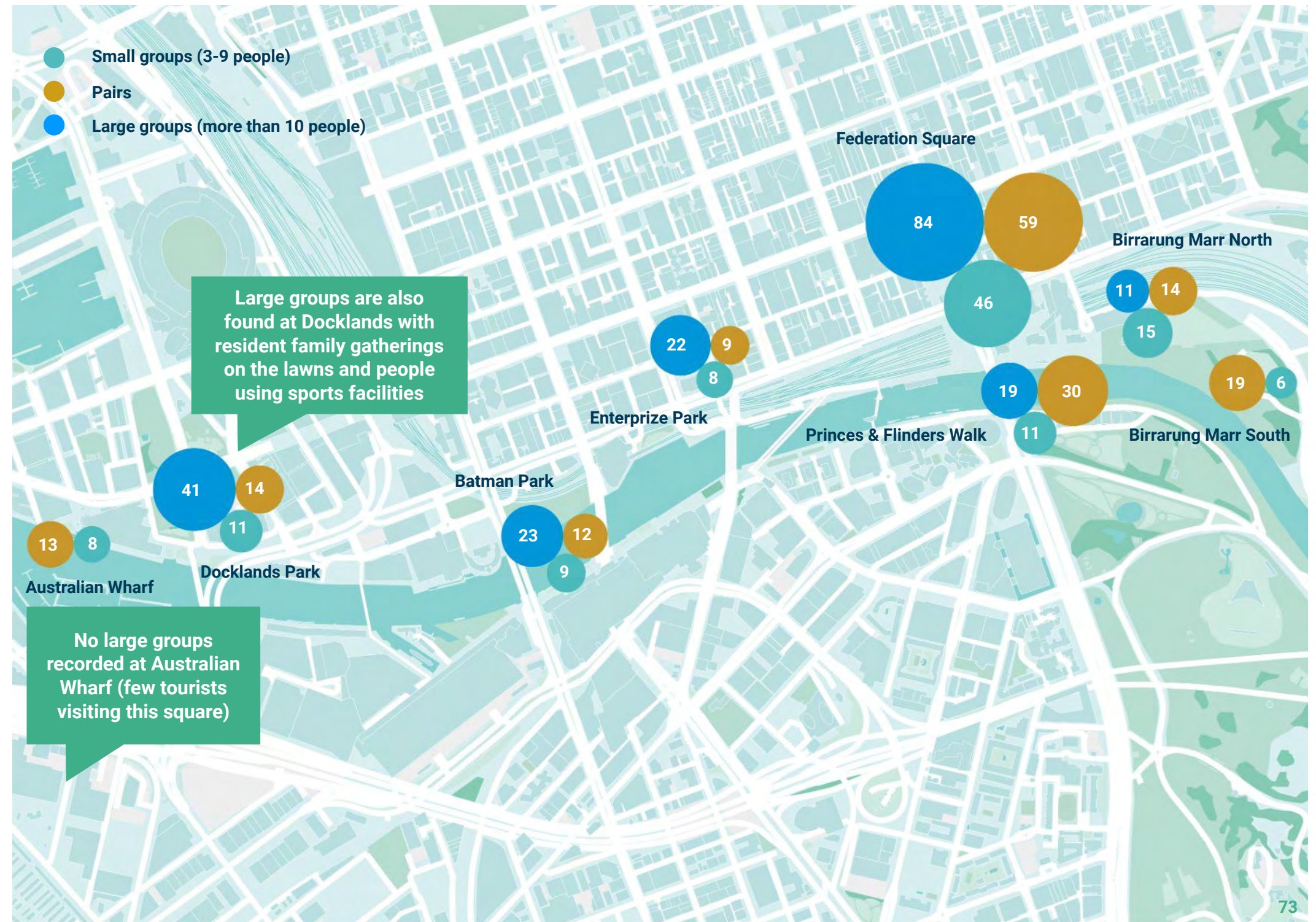
STRAVA Riding (Feb 2022-23)

APPENDIX B – GEHL REPORT

Design recommendations - design for the Greenline Project's diverse user profiles and social dynamics (people)

Groups and social dynamics

A comparison of stationary groups across the Greenline Project's sites shows that no larger groups were observed using extremity sites of Birrarung Marr south and Australian Wharf. Federation Square has a high number of small and large groups compared with its square meterage, due to the numerous school groups and large tourist groups visiting. More pairs were recorded nearby Fed Square, where more edge zone activities are found.

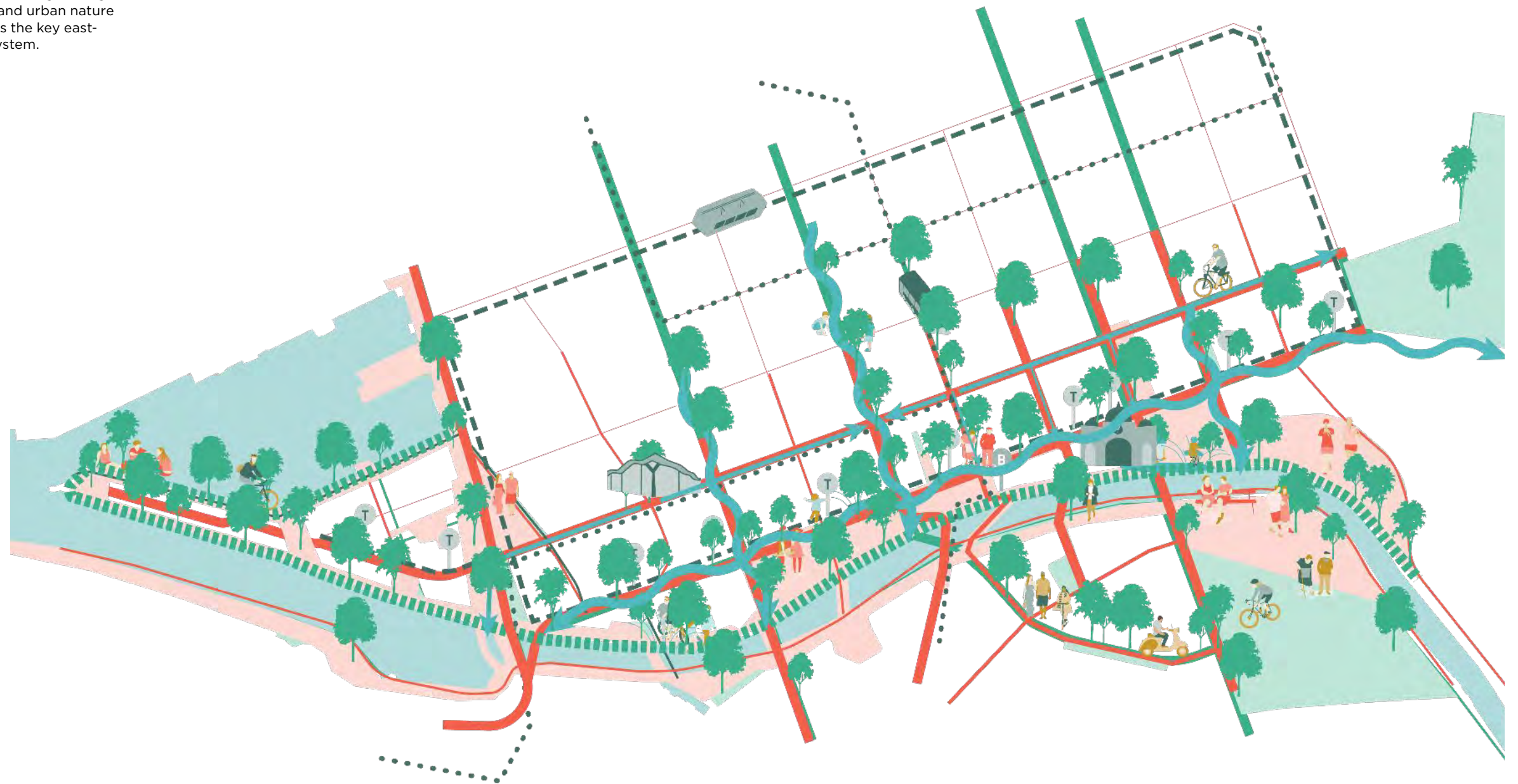


APPENDIX B – GEHL REPORT

Design recommendations - consolidate and integrate the Greenline Project's into its wider public space network

The Greenline Project and the city

How can the Greenline Project connect better with its surrounding environment? If the city trend is moving towards a 'Central Entertainment and Living District', strengthening comfortable movement for people, water, and urban nature is vital. Greenline's central location becomes the key east-west connector of Melbourne's urban ecosystem.

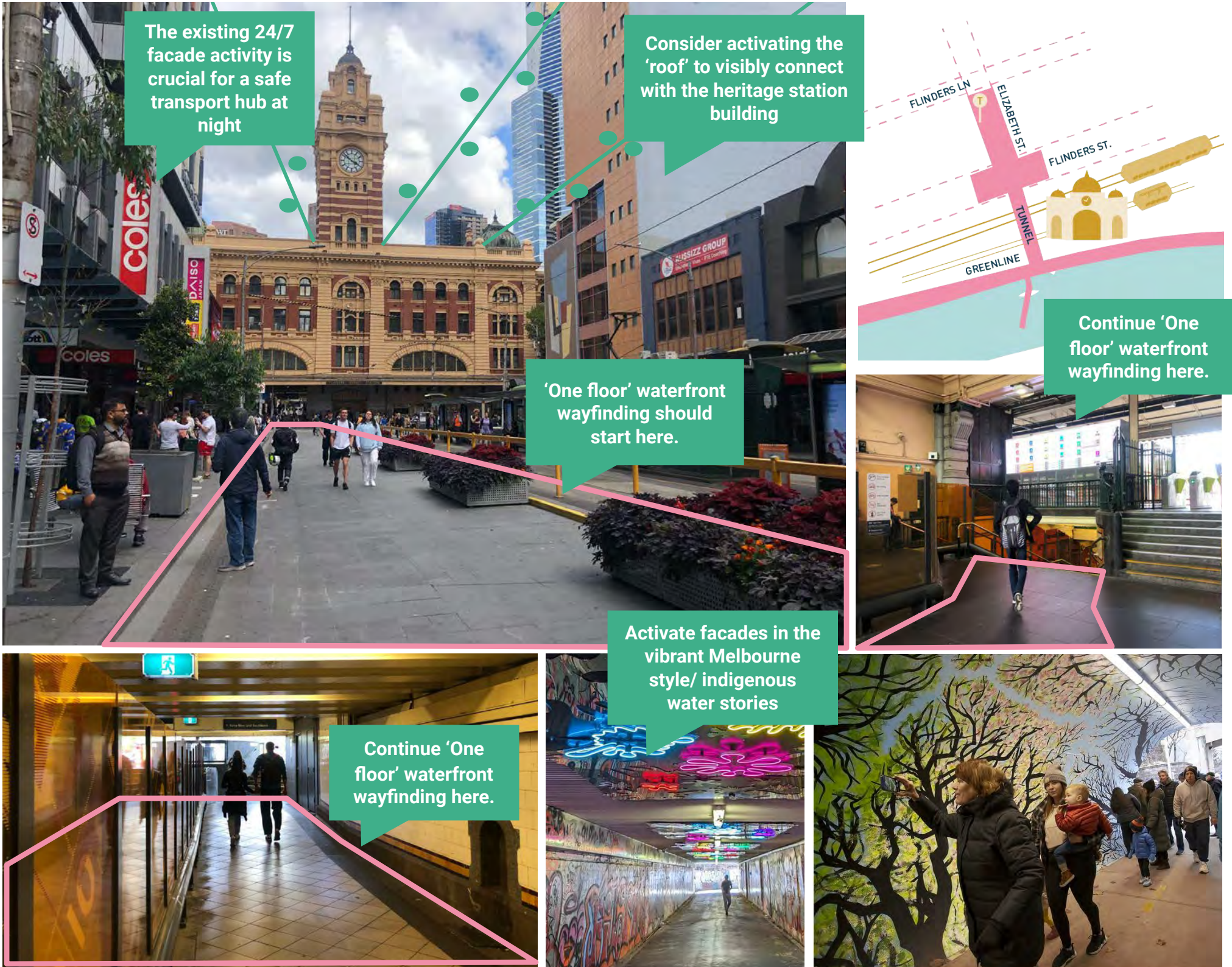


APPENDIX B – GEHL REPORT

Design recommendations - consolidate and integrate the Greenline Project into its wider public space network (network)

Connect Elizabeth Street to Flinders Street Station and waterfront

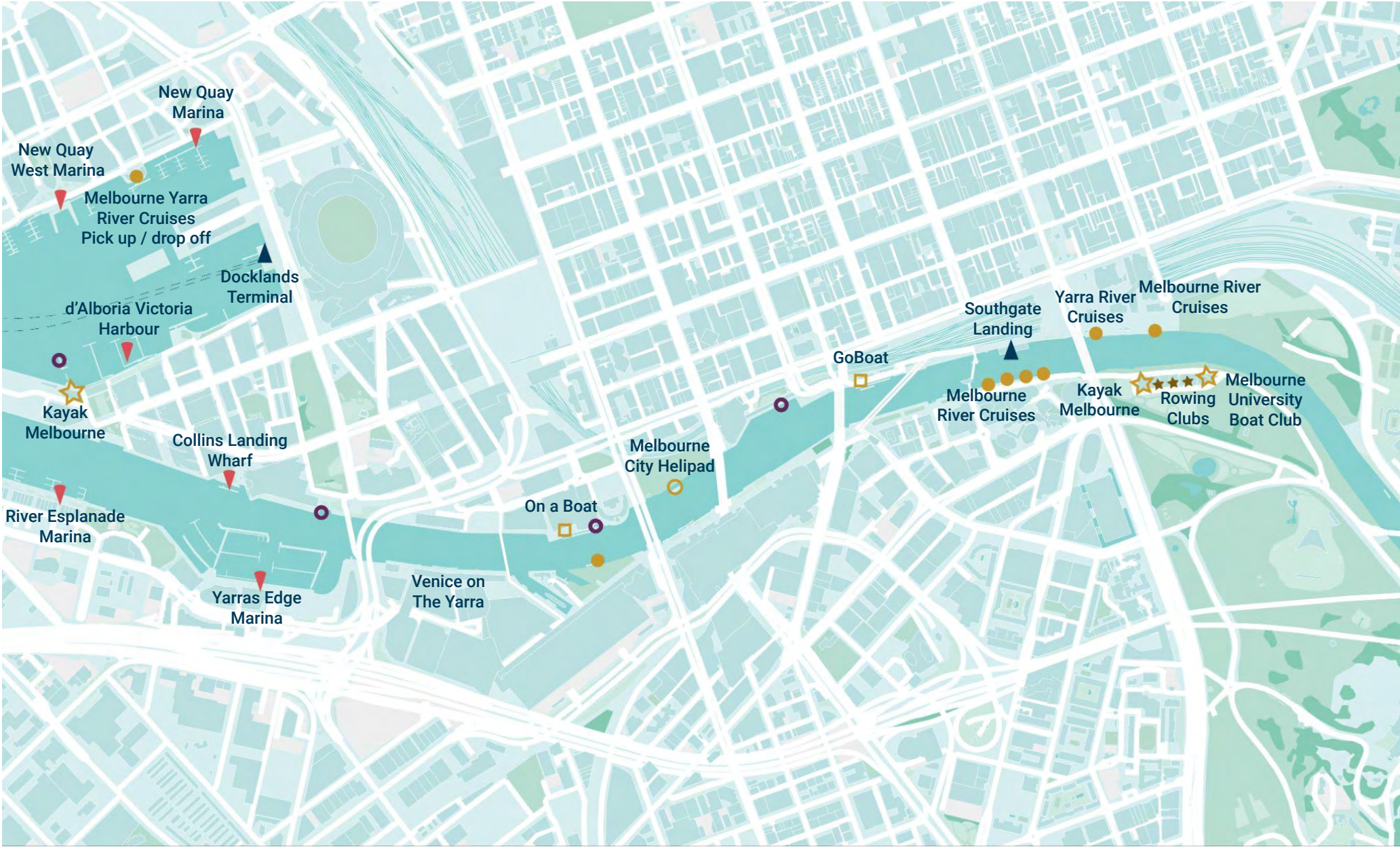
The current street closure highlights a key opportunity to transform the street into a world class train/tram transport hub. A seamless 'One Floor' paving connection to Greenline via the tunnel will help strengthen wayfinding to the water considerably. As well as more interactive facades along the tunnel.



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Design recommendations - encourage active mobility both on and by the river (mobility)

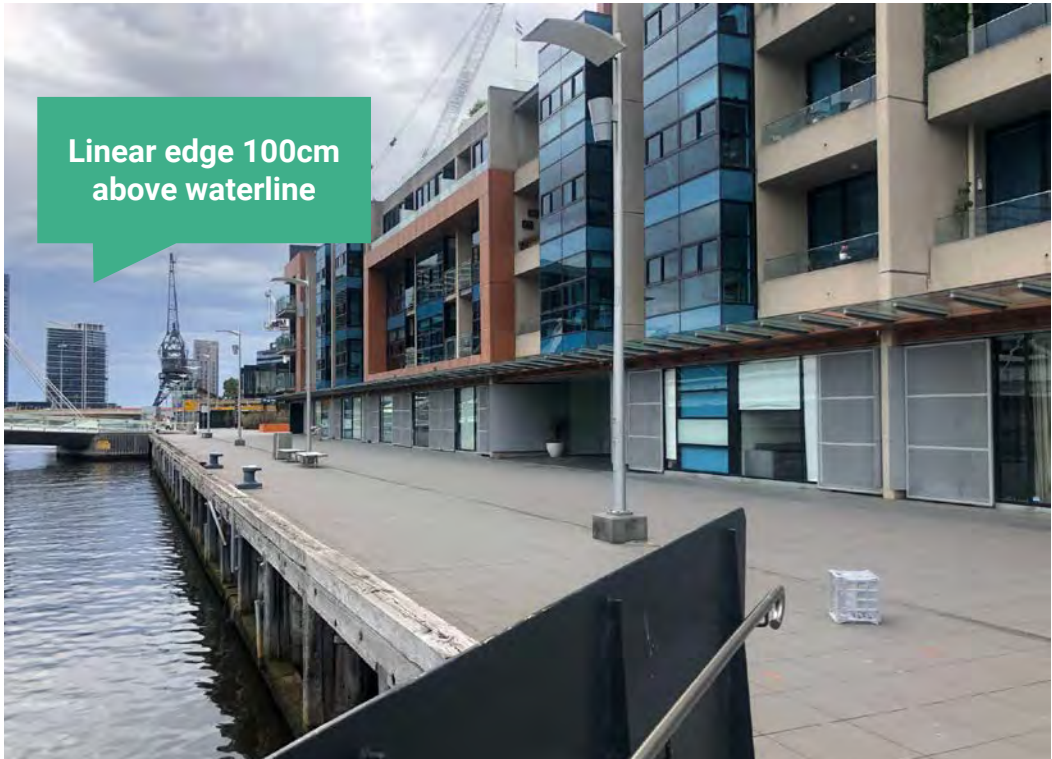
Many motorised options on the water
There are many motorised ways to experience the water. We will explore options for active mobility on the river and its edges, such as kayak bars, clubs, water bikes, pedal boats and stand up paddle board hire.



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Design recommendations - encourage active mobility both on and by the river (mobility)

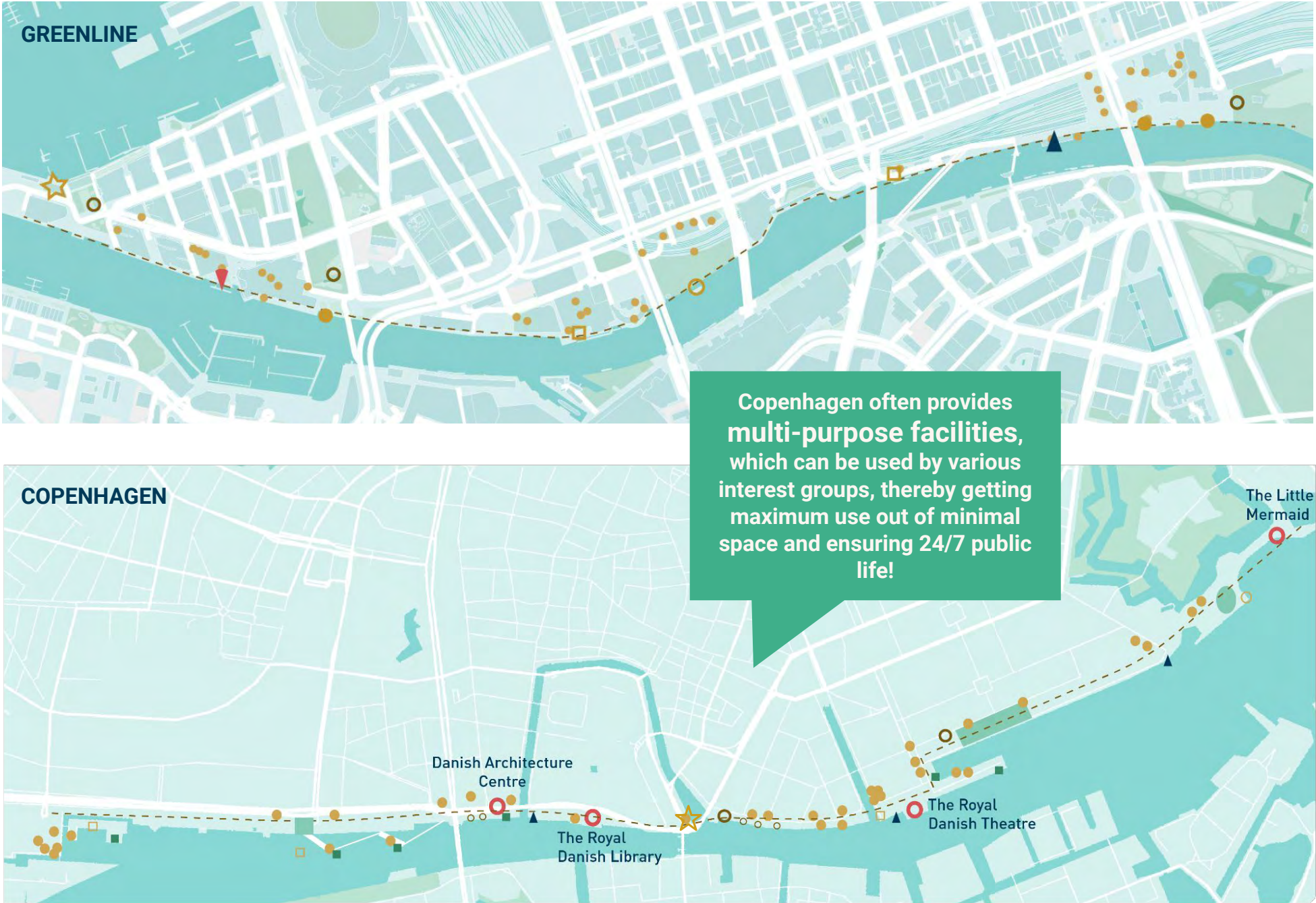
Diversity the water's edge
The waterfront along the Greenline Project is linear and monotonous – it lacks surprises or human-scale details to interest pedestrians. Diverse edges allow for more diverse activities by the



APPENDIX B – GEHL REPORT

Design recommendations - provide sprinklings of everyday activities across the Greenline Project (the journey)

Comparison of waterfront activities and programming
A quick comparison between a similar 4km stretch of waterfront in Copenhagen, shows the difference in number of activities between the two. Copenhagen has relatively few large buildings or investment spaces, but it offers many small bars, cafes and mini, informal invitations to stay and play along its entire stretch.



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Design recommendations - provide sprinklings of everyday activities across the Greenline Project (the journey)

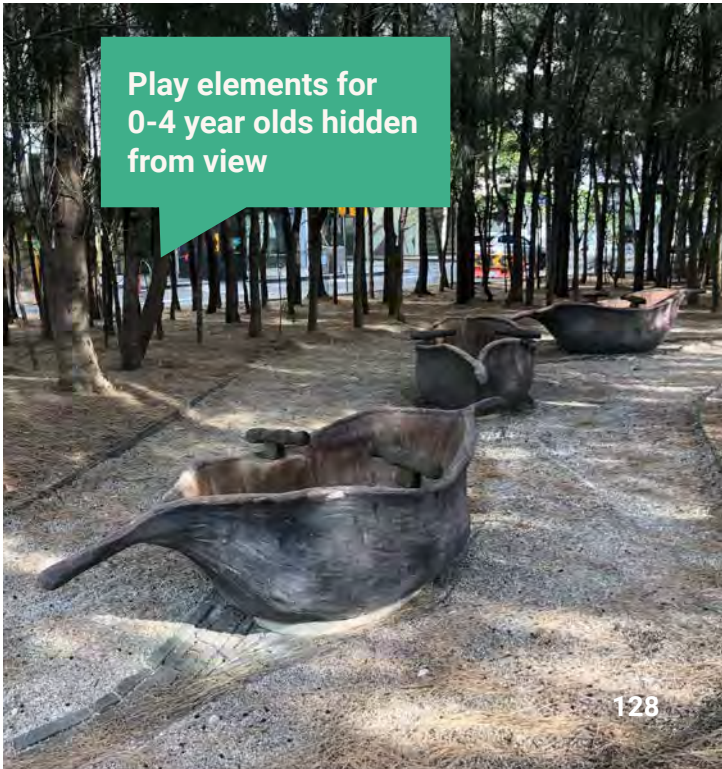


Big, feature playgrounds, but no invitations to play elsewhere

Birrarung Marr: Good facilities for caregivers and children



Swings that adults like to use at Docklands Park



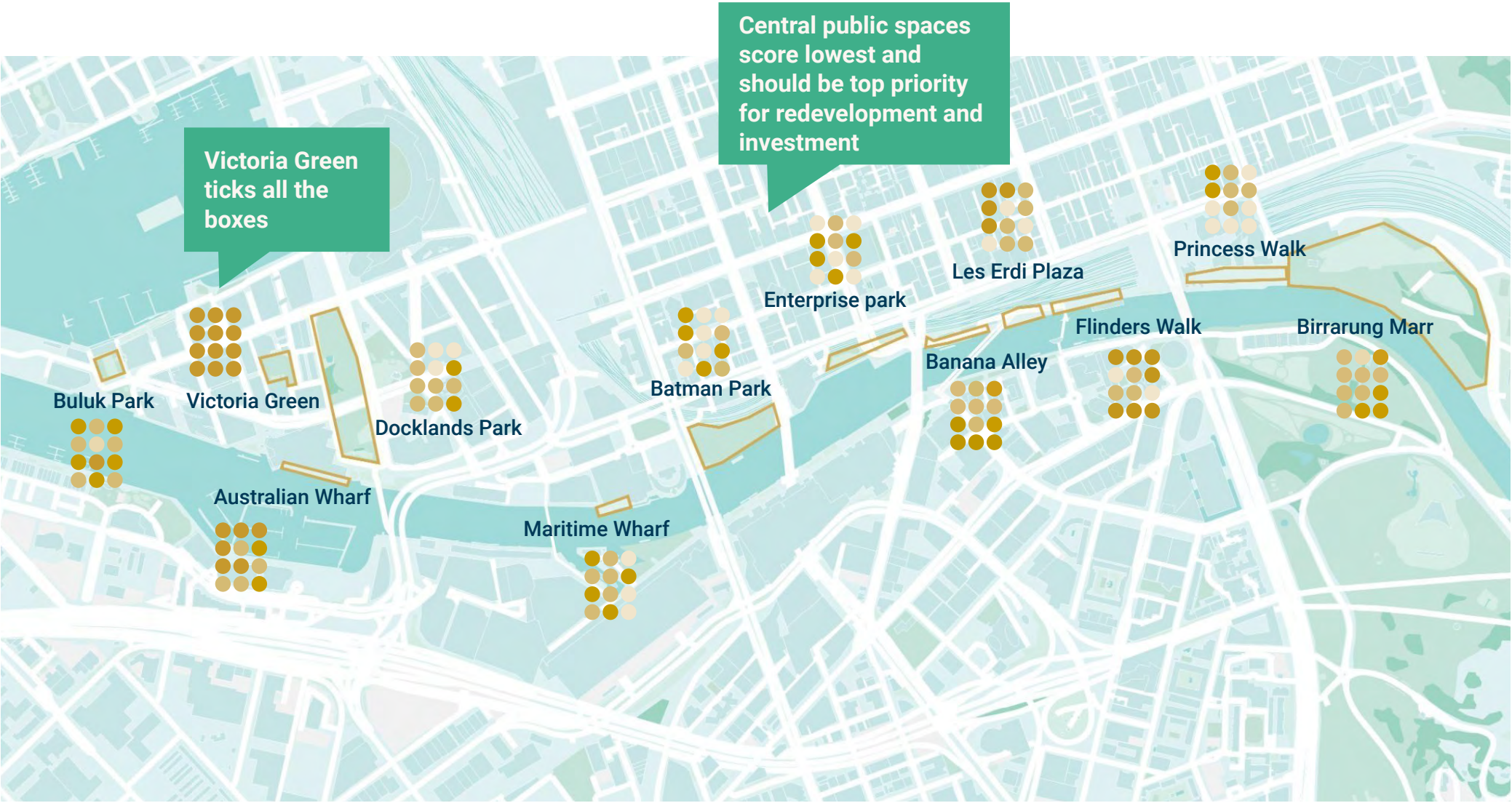
Play elements for 0-4 year olds hidden from view

APPENDIX B – GEHL REPORT

Gehl - design recommendations - refine the quality of existing public spaces and urban amenities in line with current needs (opportunities)

Key site analysis using Gehl’s 12 quality criteria

This analysis highlights the key public spaces that need investment and improvement because baseline needs, such as protection from crime, are not being met. Some public spaces outside the Greenline Project were analysed as baseline public spaces in the area.



● Good

● Ok

● Poor

1

2

3

4

5

6

7

8

9

10

11

12

Protection from:

- 1. Traffic
- 2. Crime
- 3. Climate

Comfort and opportunities for:

- 4. Walking / cycling
- 5. Standing
- 6. Sitting
- 7. Seeing
- 8. Talking / listening
- 9. Play and exercise

Enjoyment of:

- 10. Human scale
- 11. Sun / shade
- 12. Sensory experiences

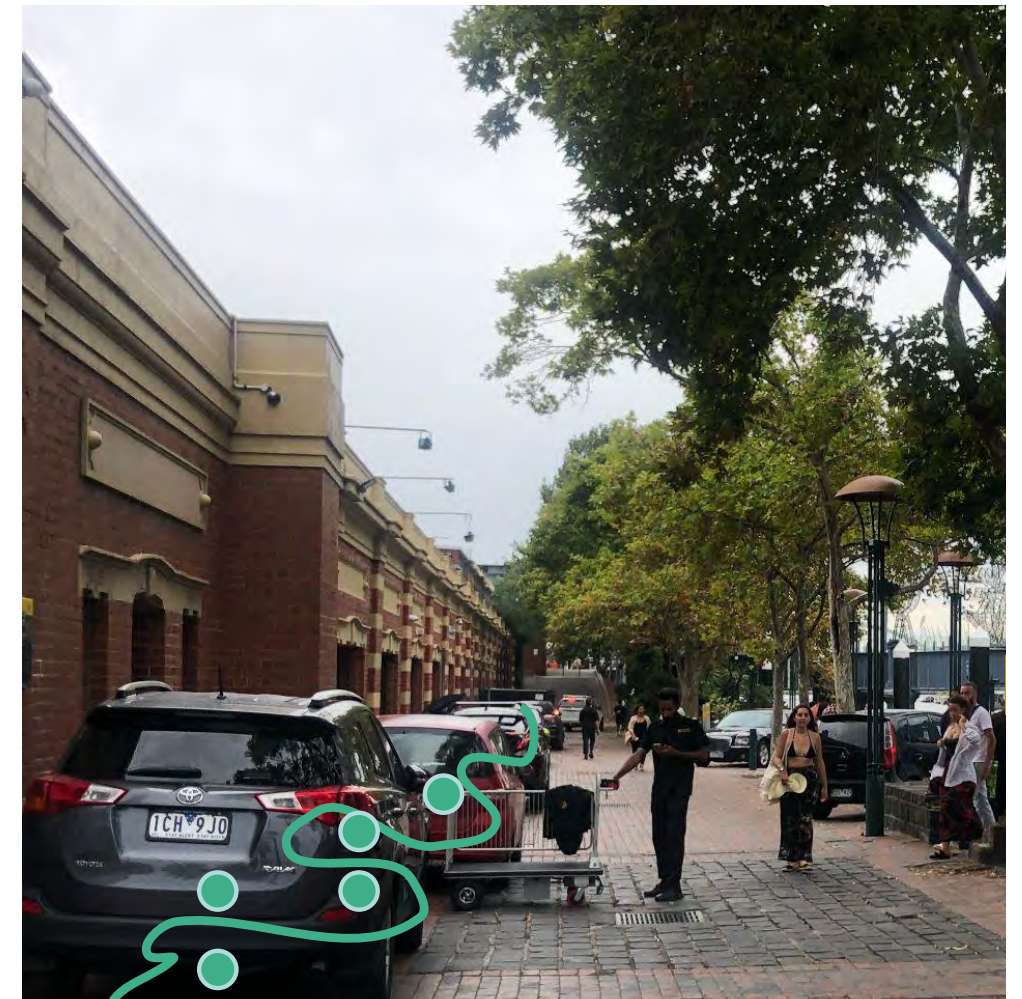
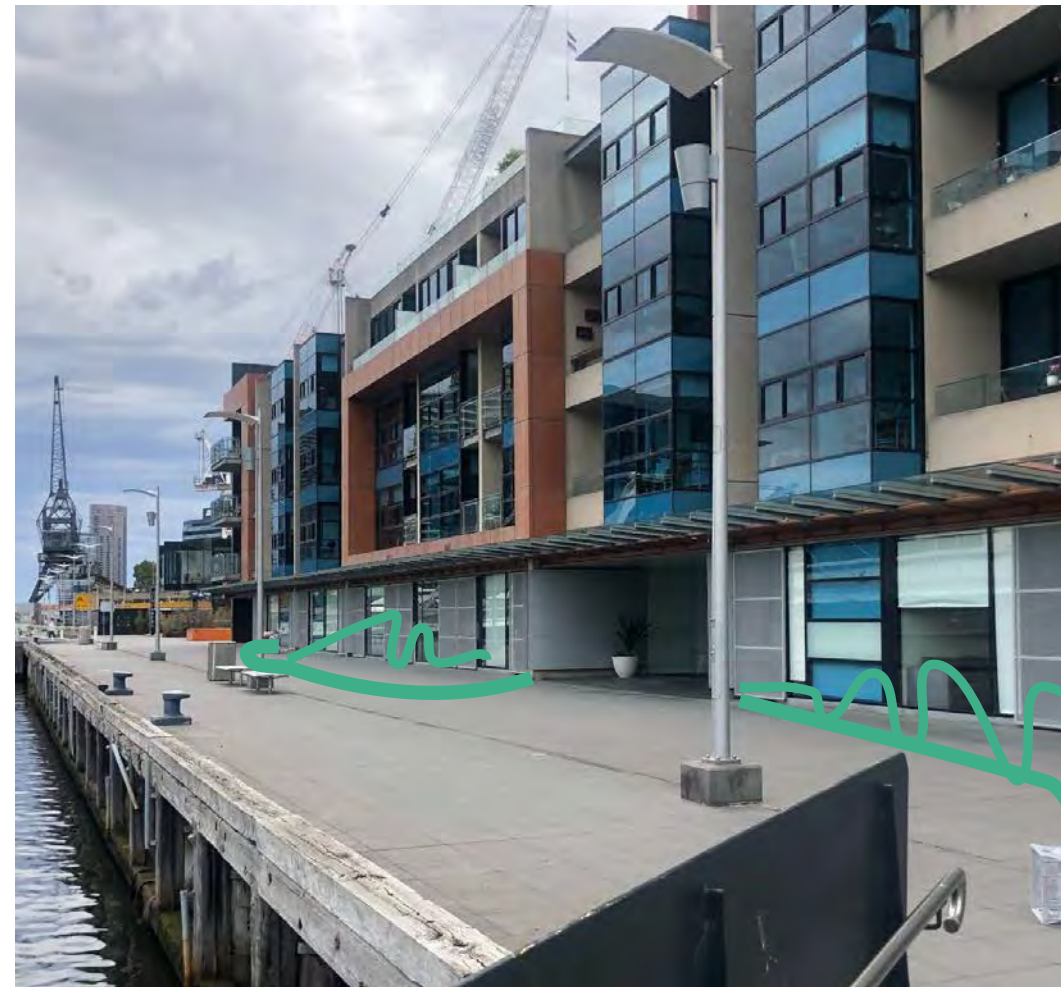
APPENDIX B - GEHL REPORT

Gehl - design recommendations - refine the quality of existing public spaces and urban amenities in line with current needs (opportunities)

Encourage edge zones

The Maritime precinct facades need a wide, planted residential edge zone to buffer between the private apartments and the public promenade, as well as to enhance the human-scale details along the Greenline Project for visitors.

Banana Alley's southern facades will also benefit from a small commercial edge zone to inhibit unwanted parked cars, and create a more welcoming entrance for the various tenancies. Vehicular access should be restricted to deliveries only, and regulated via removable bollards if necessary.



APPENDIX C – SUPPORTING DOCUMENTS AND REPORTS

Reports

- Yarra River - Birrarung Strategy 2019
- Greenline Implementation Plan December 2021
- Greenline Project Business Case Summary Aug 2022
- The Greenline Project - Site 1 - Engagement Findings Report Summary - November 2022
- Burndap Birrarung burndap umarkoo, Yarra Strategic Plan 2022 - 2032
- Burndap Birrarung burndap umarkoo, Yarra Strategic Plan Implementation Plan 2022
- Climate Change Mitigation Strategy to 2050 December 2018
- Greening our City Strategic Action Plan 2017-2021
- Municiple Integrated Water Management Plan - July 2017
- Nature in the City - 2017
- Open Space Strategy - Planning for Future - June 2012
- Co-Designed Catchment Program for the Yarra Catchment - Melbourne Water
- City of Melbourne Reconciliation Action Plan 2015-2018
- Urban Forest Strategy 2012-2032
- Nhanbu narrun ba ngargunin twarn Birrarung - Ancient Spirit and Lore of the Yarra - Wurundjeri Woi-wurrung Birrarung Water Policy
- Yarra River - Rewilding and Ecological Restoration Guide - 2020
- Yarra River 50-year Community Vision Wilip-gin Birrarung murrn
- Yarra River Birrarung Cultural Heritage Scoping Study - August 2018
- Yarra River Precinct Five Year Strategic Plan: 2021-2026

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