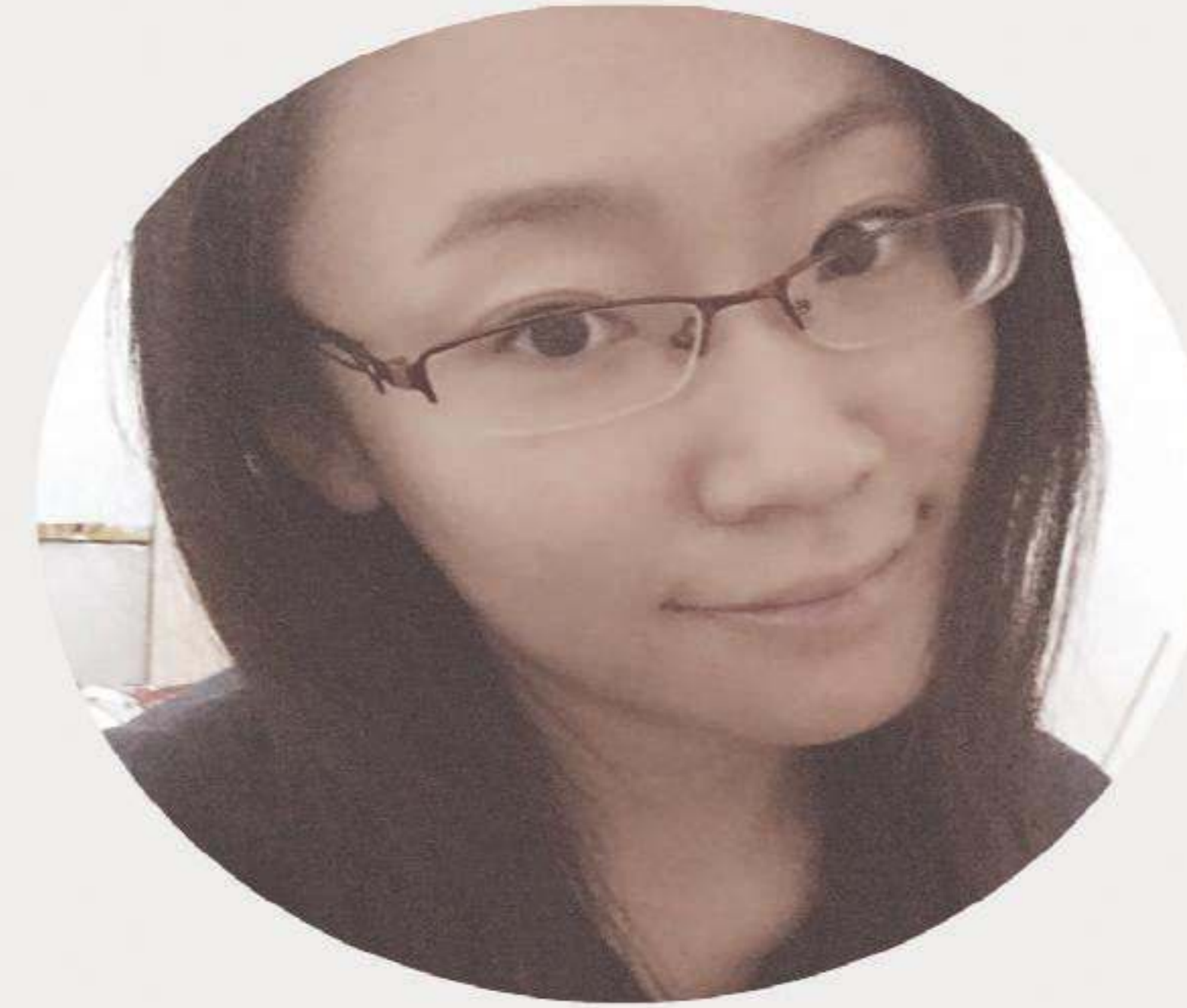


GE TIANYUAN'S PORTFOLIO

DESIGNER

Ge,Tianyan

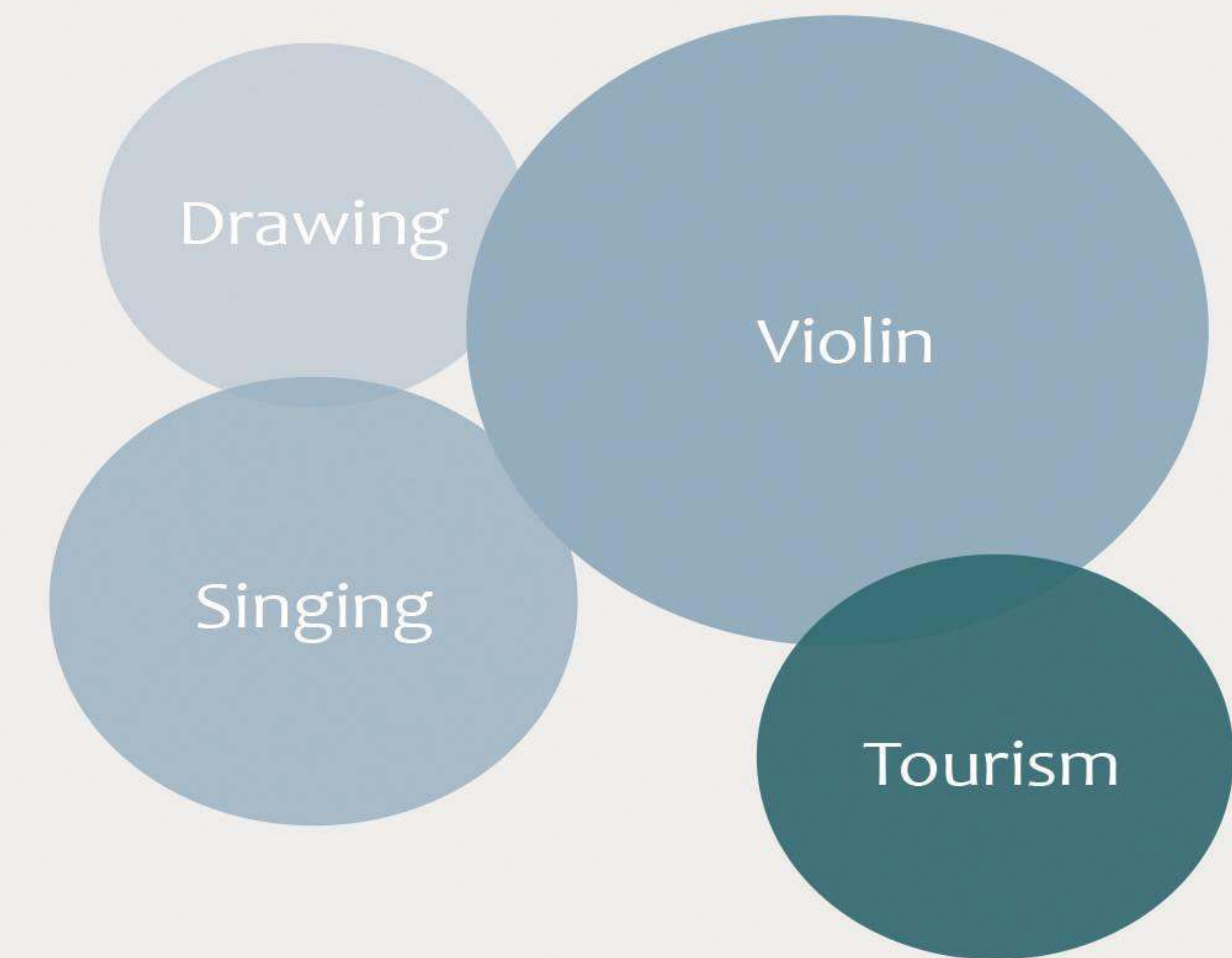


Gendar: Female 
Date of birth: 06/11/1991

Phone Number: +61 
0420881106

E-mail: gty912003@126.com 

Interest



Computer Skills

Proficiency in Word,Excel,PowerPoint and other Office Software.Mastery in using Photoshop,sketchup,Cad,3Dmax,Indesign and some other Computer Assistant Design Software.

Character

Character:Cooperative,Creative,Easy-going,Independent,Honest and Helpful.

WESTCONNEX | ARNCLIFFE CONTEXT

CONTEXT

Arncliffe holds an important position in Sydney's transportation network as a key suburban train station on the T4 Eastern Suburbs and Illawarra Line and an interchange to a network of suburban bus routes. Located 11km from Sydney's CBD, Arncliffe is well positioned as a residential area within close proximity to employment and entertainment areas of Sydney.

The existing built form of Arncliffe consists of a mix of medium density low-rise apartments, detached single-dwellings and low density industrial and service oriented commercial premises. The urban centre of Arncliffe features a significant proportion of community housing, centred within close proximity to both Arncliffe Train Station and Princess Highway.

SITE CONSTRAINTS

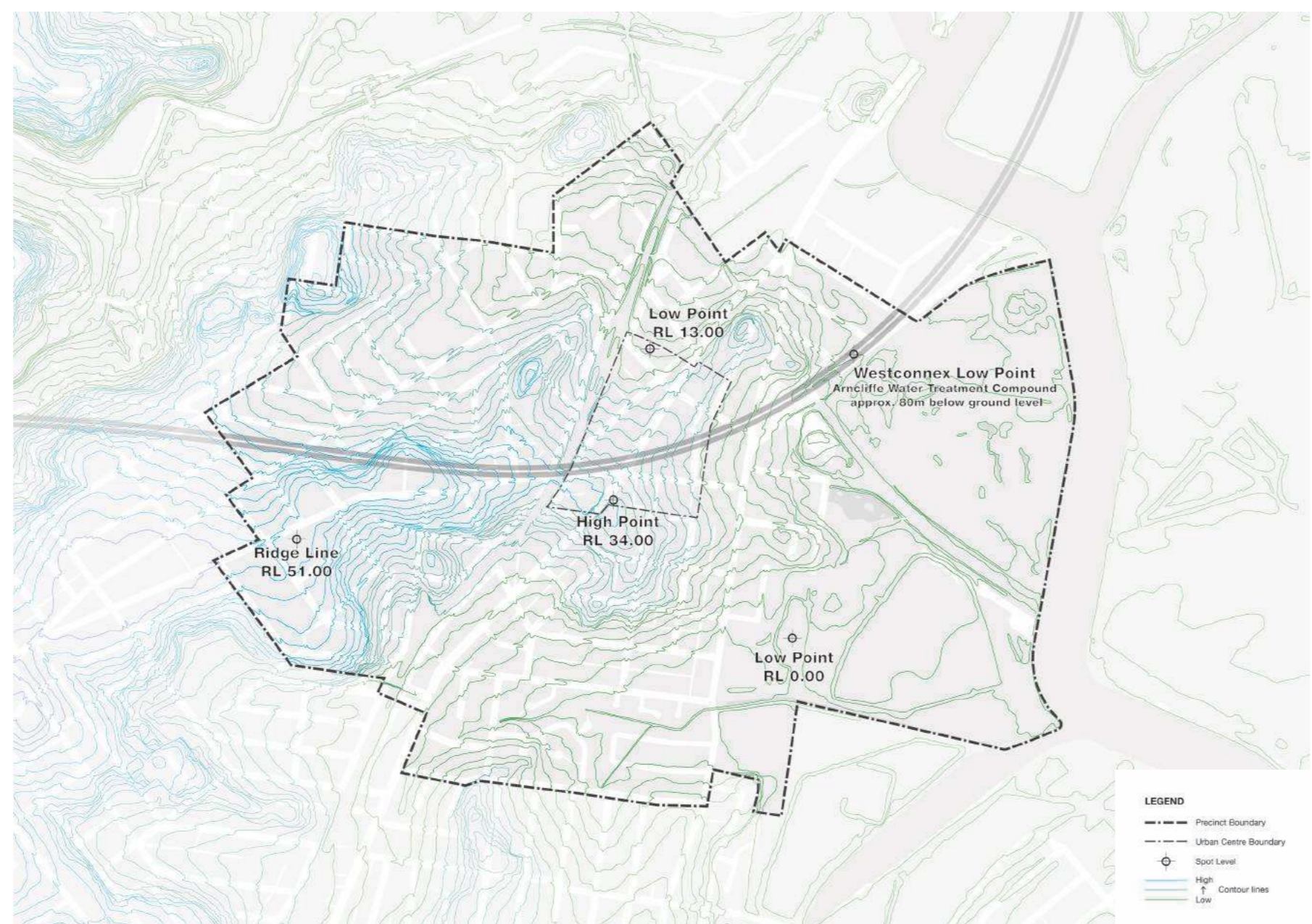
The topography of Arncliffe features a high ridgeline which runs through the precinct. This ridgeline constrains the heights of development as the restrictions apply within the flight corridor to Sydney Airport. As a result, subsequent development within the area must be confined to a maximum of 8 storeys, dictating the form of future development.

The Princes Highway, a major arterial road connecting Sydney's CBD with the city's Southern areas, bisects Arncliffe's urban centre, creating a physical barrier between the Eastern and Western sections of the urban village. Connectivity improvements through the proposed Metro station are at the forefront to this proposal.

Lastly, maintaining adequate affordable housing within the area is both a constraint and an opportunity for the area. The scheme proposes additional affordable housing for the area, importantly the provision of key worker housing for essential service workers within the area. This additional affordable housing is integrated into the urban development.



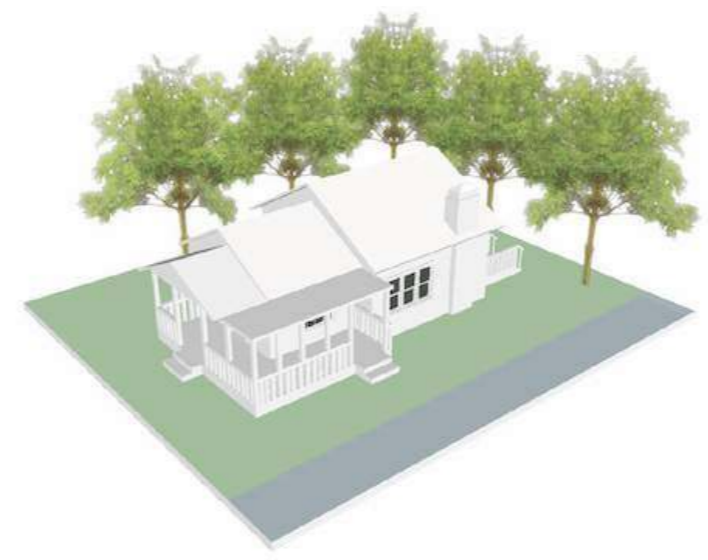
Arncliffe Existing Conditions Aerial Overlay



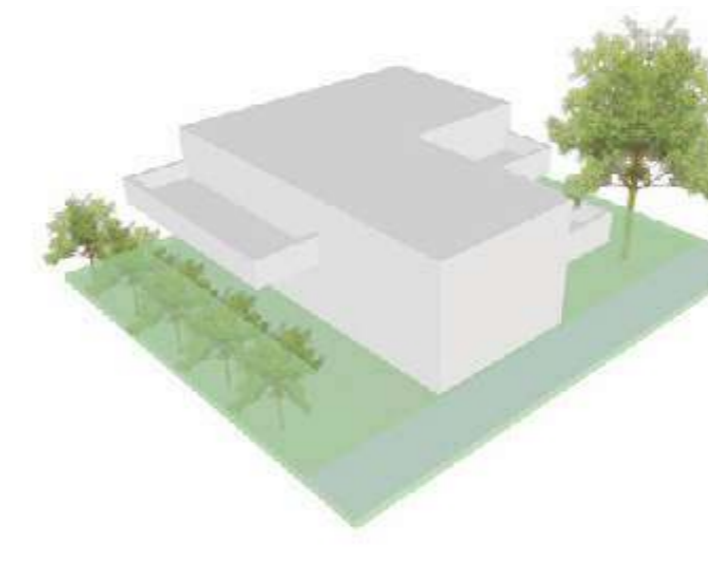
Arncliffe Existing Topography



Arncliffe Existing Airport Restrictions



Single Dwellings



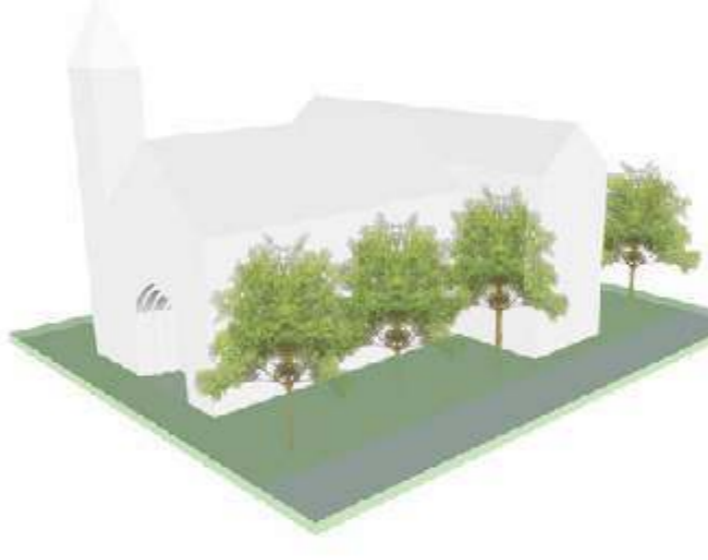
Single Dwellings



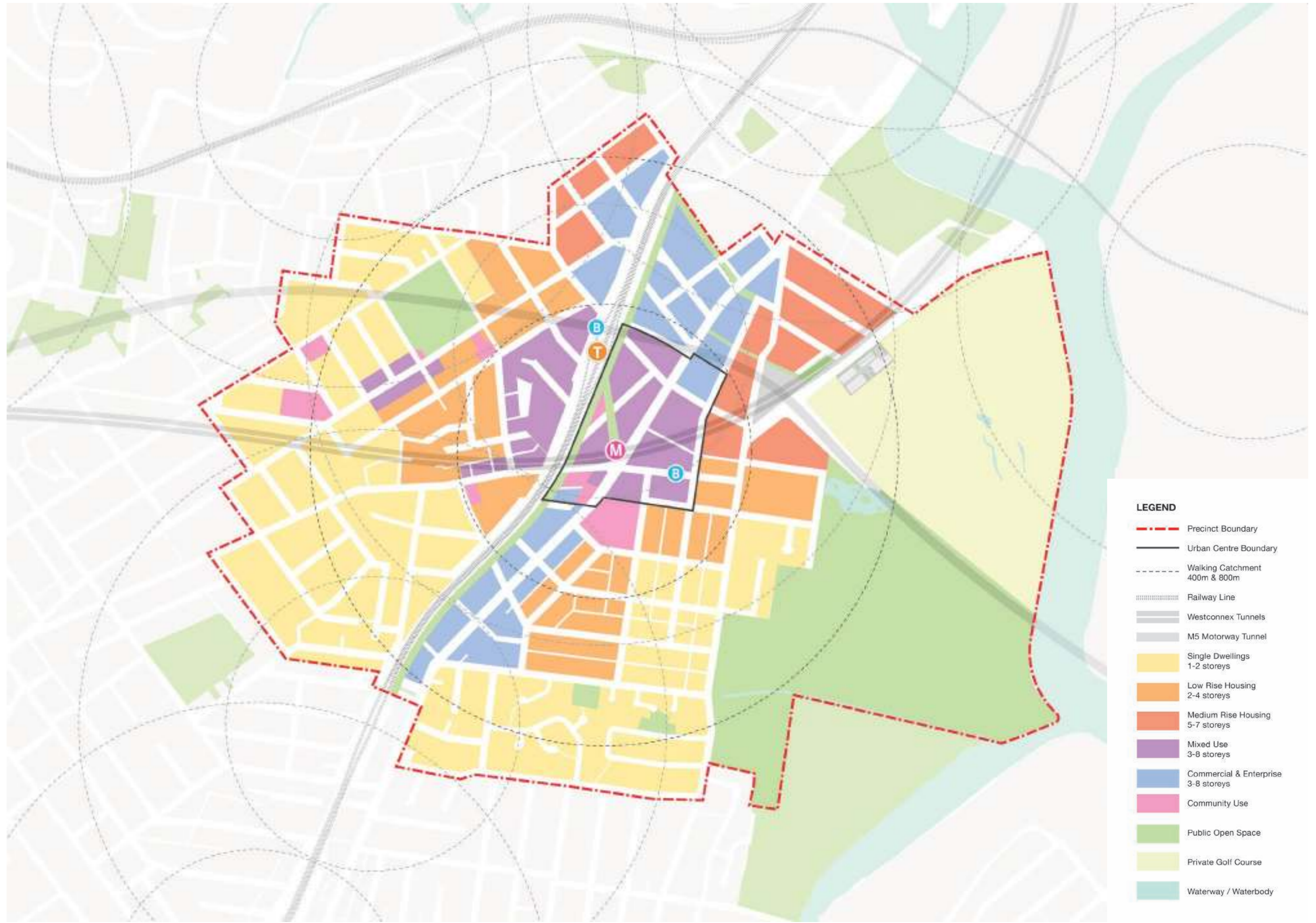
Medium Rise Housing



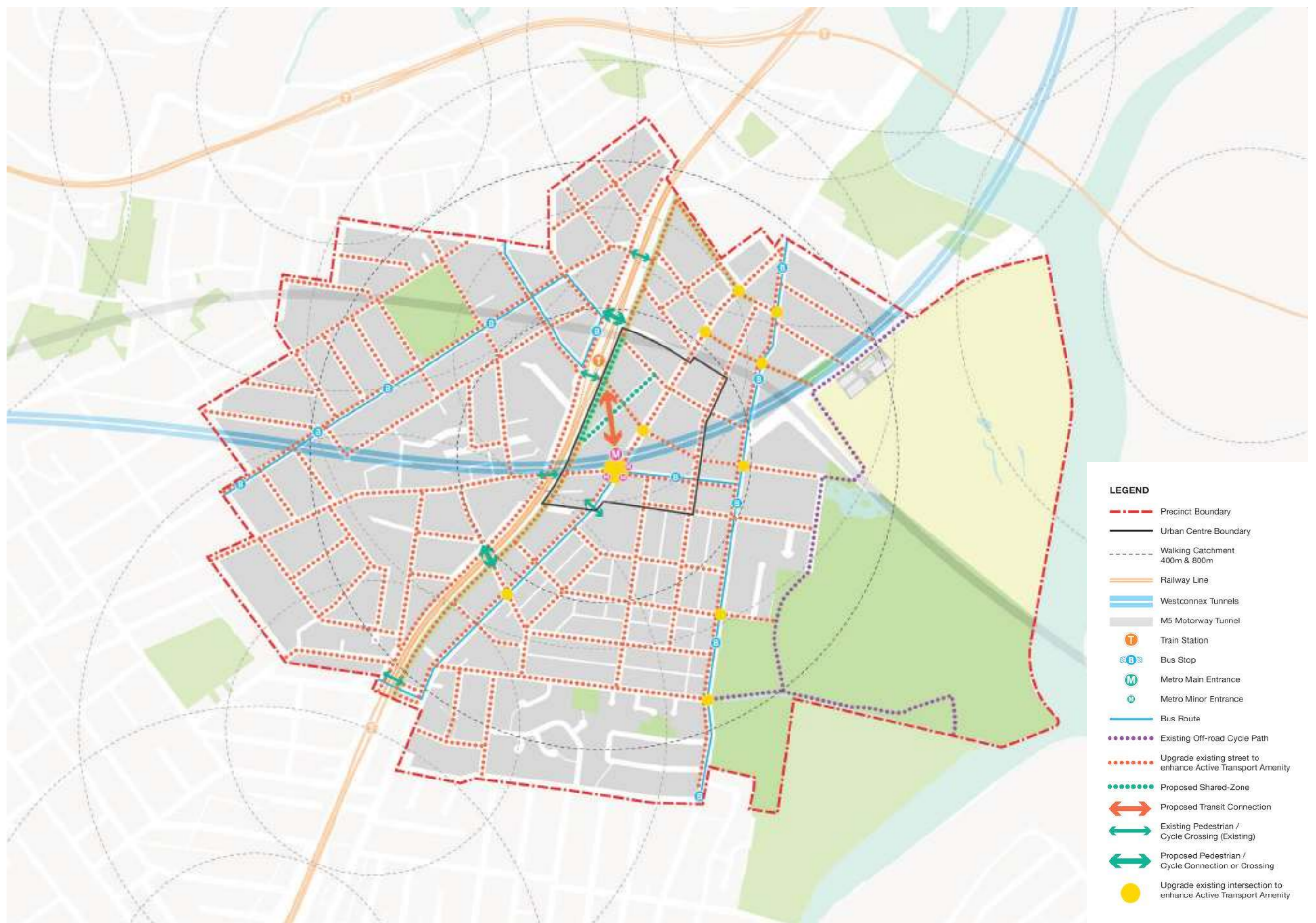
Low Rise Housing



Church



Arncliffe Precinct Plan - Proposed Land Use

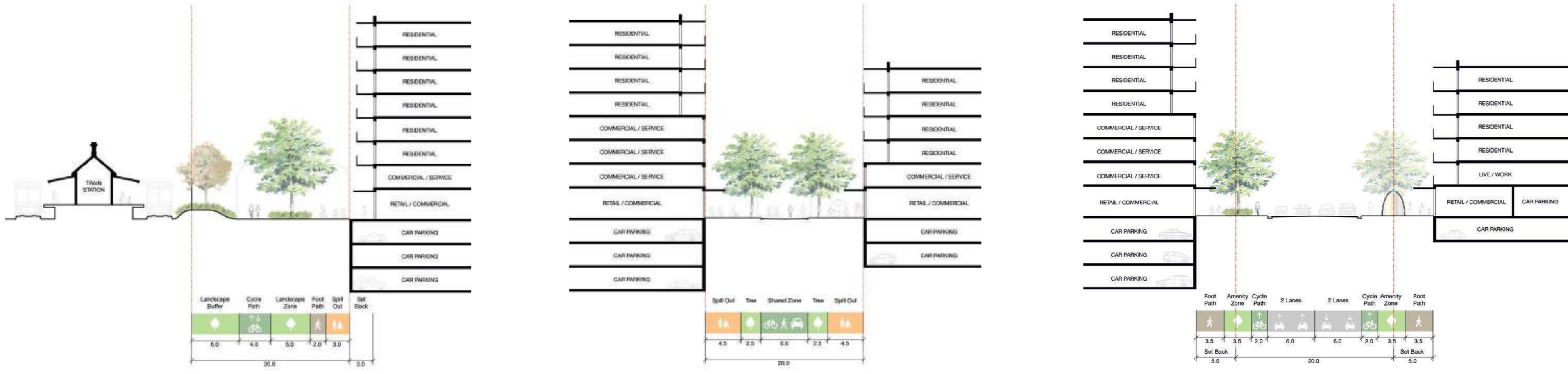


Arncliffe Precinct Plan - Proposed Active Transport Network

WESTCONNEX | ARNCLIFFE VISION



Urban centre master plan



Section A - Green Corridor

Section B - Shared Street

Section D - Metro Pop-Up & Off-Street Cycleways for Forest Road



Roof top garden



Public Plaza & Transit Interchange



Urban Centre Vision Aerial Perspective

URBAN DESIGN OBJECTIVES

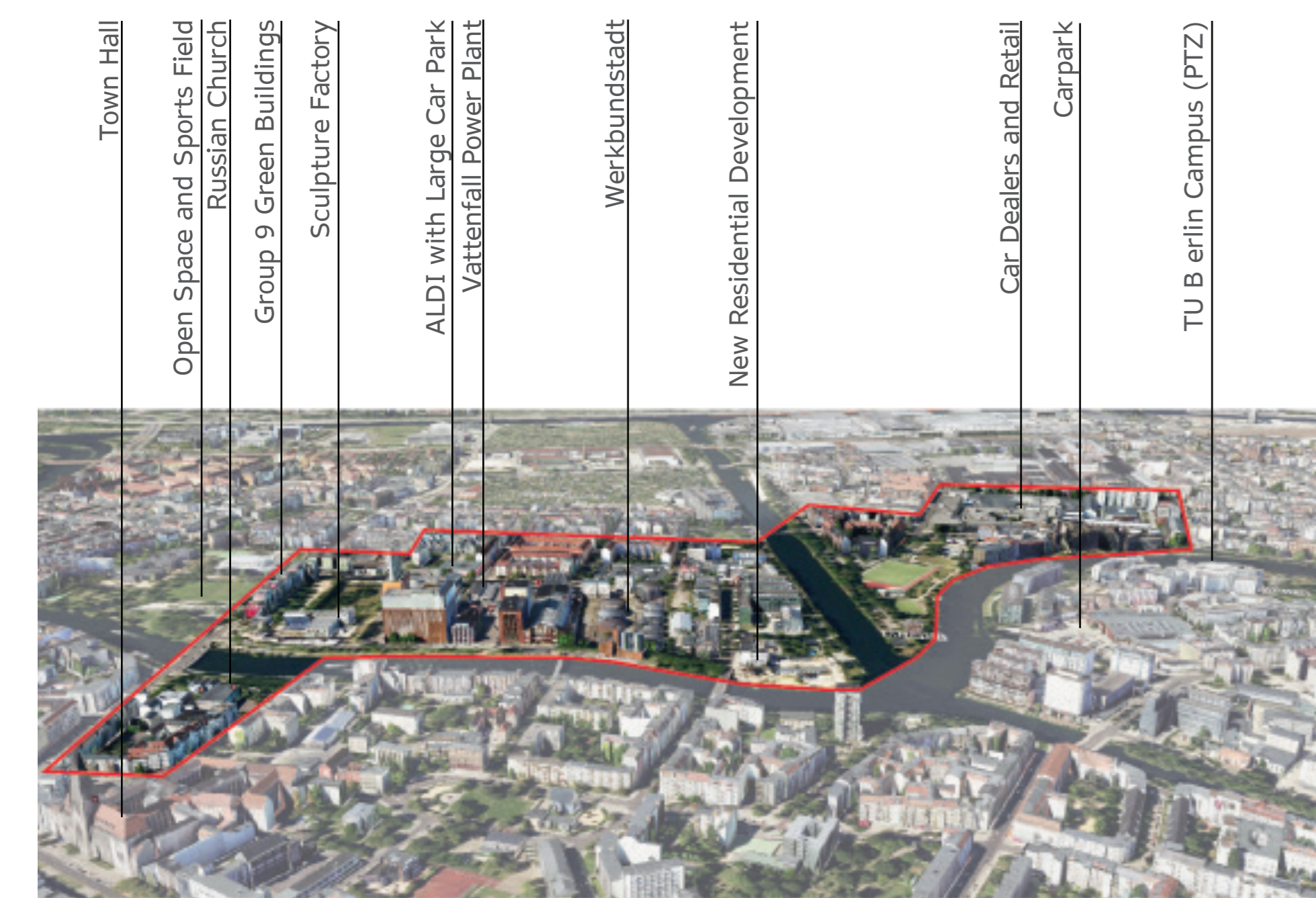
- Create a connected and accessible multi-modal transportation hub
- Facilitate a variety of local economic activity intertwined with urban living
- Strengthen the existing village community by creating usable public spaces and community facilities
- Provide increased affordable housing for key workers and disadvantaged communities
- Encourage active modes of transport through walkable neighbourhood and safe cycleways

URBAN CENTRE STRATEGY

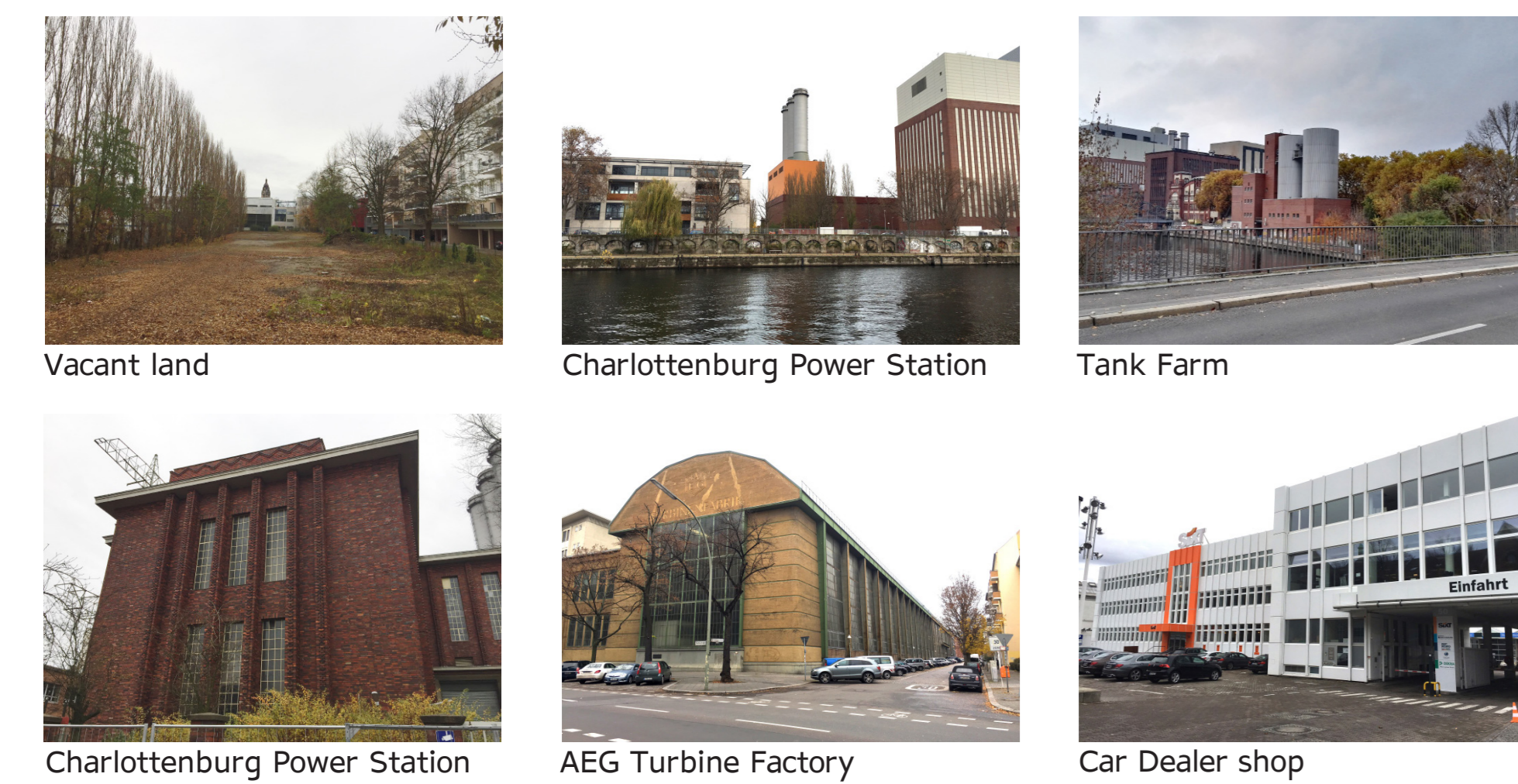
Connectivity to from the proposed Metro station to the existing train station creates a pedestrian thoroughfare through the centre of the proposed development, linking the North-South oriented existing train line with the proposed East-West oriented Metro line, creating an important transport hub for Southern Sydney.

BERLIN CITY WEST : AN INCLUSIVE URBAN CENTRE

BACKGROUND

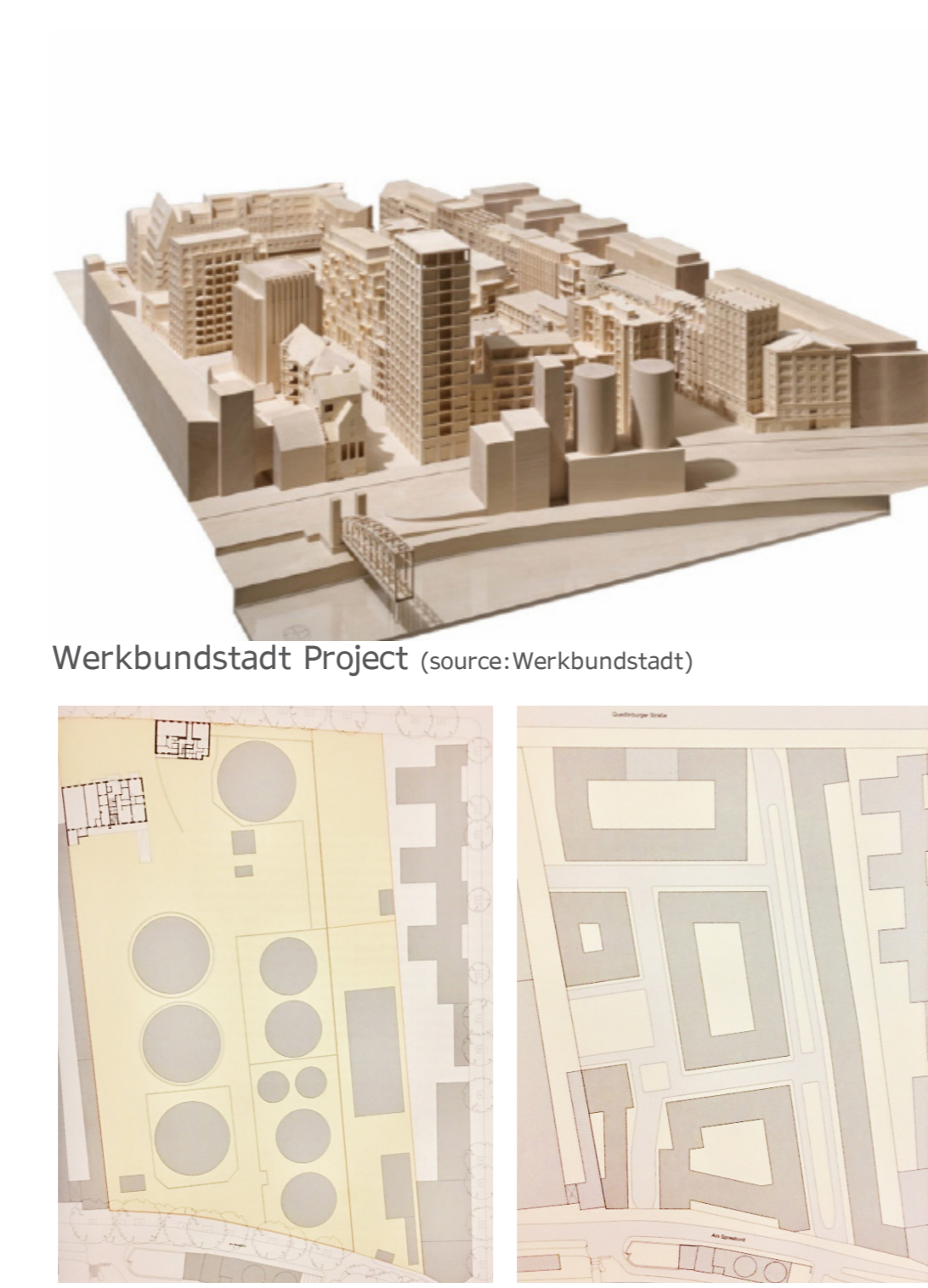


Site Context (source: Google Map)



City West – A modern, compact centre
 City West is characterized as a knowledge and cultural centre which has been shaped by the Technical University of Berlin and numerous museums and theatres. By 2030, City West will be a core of inner-city growth with high levels of innovation and a popular area with traditional and new forms of affordable housing. The study area of Charlottenburg and west Moabit has a long history where late nineteenth century buildings mixed with the modernist architecture, main challenges include site's large industrial land and infrastructure demand to respond to the future growth.
 Major development proposal in the area includes WerkbundStadt and the Darwinstrasse 2A. The Berlin senate has also identified the site west to the Charlottenburg Power plant as a future site for refugee modular housing (MUF).

WERKBUNDSTADT



Werkbundstadt Site Existing & Proposed (source: Werkbundstadt)

KEY FACTS

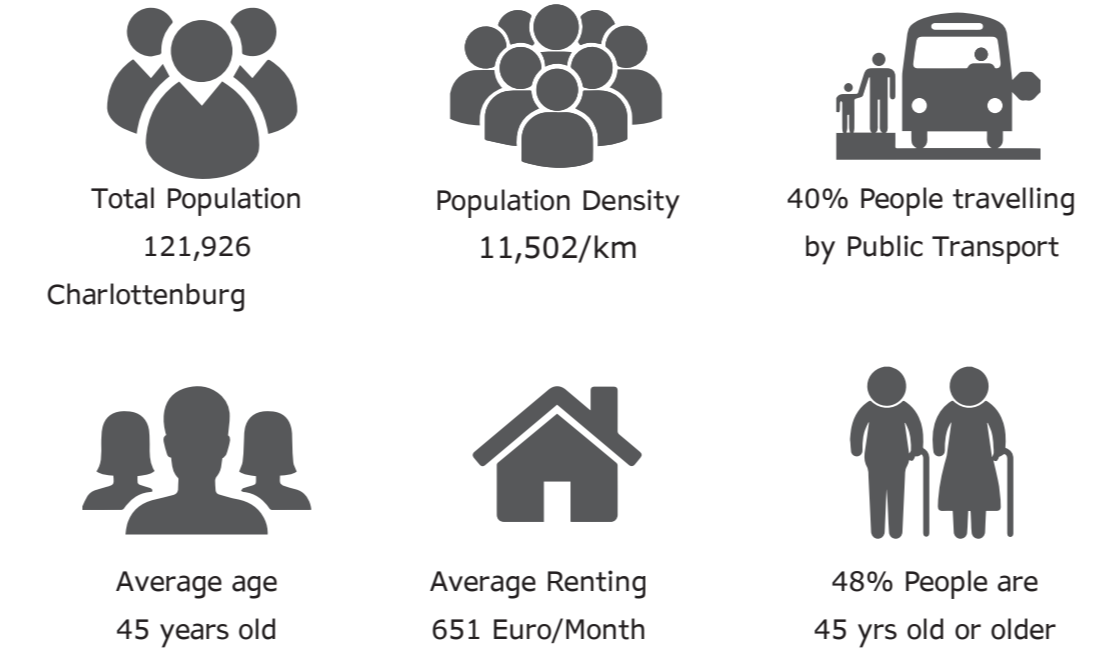
Area 2.8ha
 Total Units: 1,100 (30% affordable housing)
 Expected Residential Population 2,000 people
 Household Size for estimation: 1.8
 Public Open Space: Approximately 5%
 Community Facilities at ground floor
 Building Heights Up to 17 storeys
 Population Density 790 people / ha
 Public Open Space 0.1 ha per 1000 people

POWER STATION CHARLOTTENBURG operated by Vattenfall is banded to the west of WerkbundStadt. It contains multiple heritage buildings and some buildings that have not been operated for years, which could open for adaptive reuse. The power plant supplies Mierendorff Island district heating by duo generation power plant. (Left: purple for FW-supplied land, shaded areas for potential good connection for future expansion).

DEVELOPMENT OPPORTUNITY

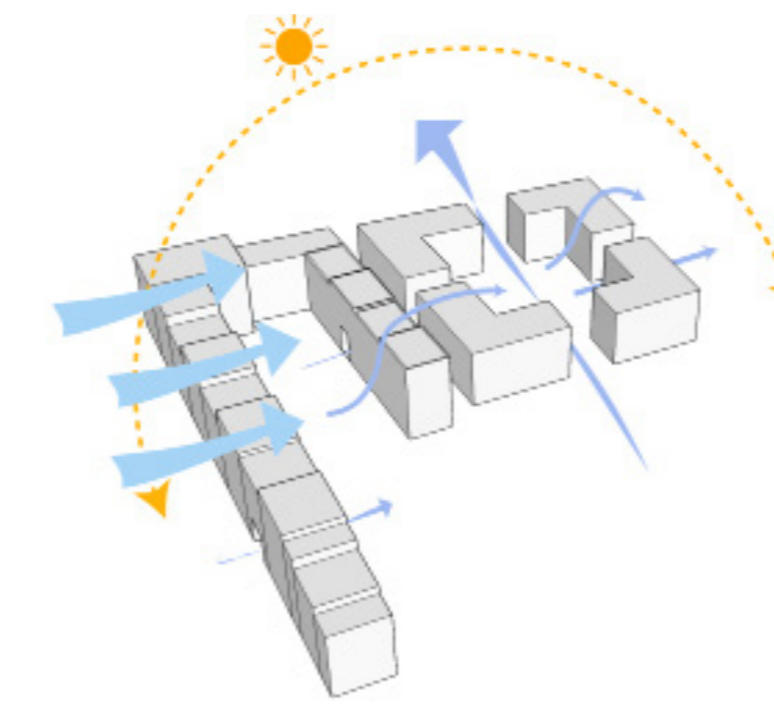


Site Analysis

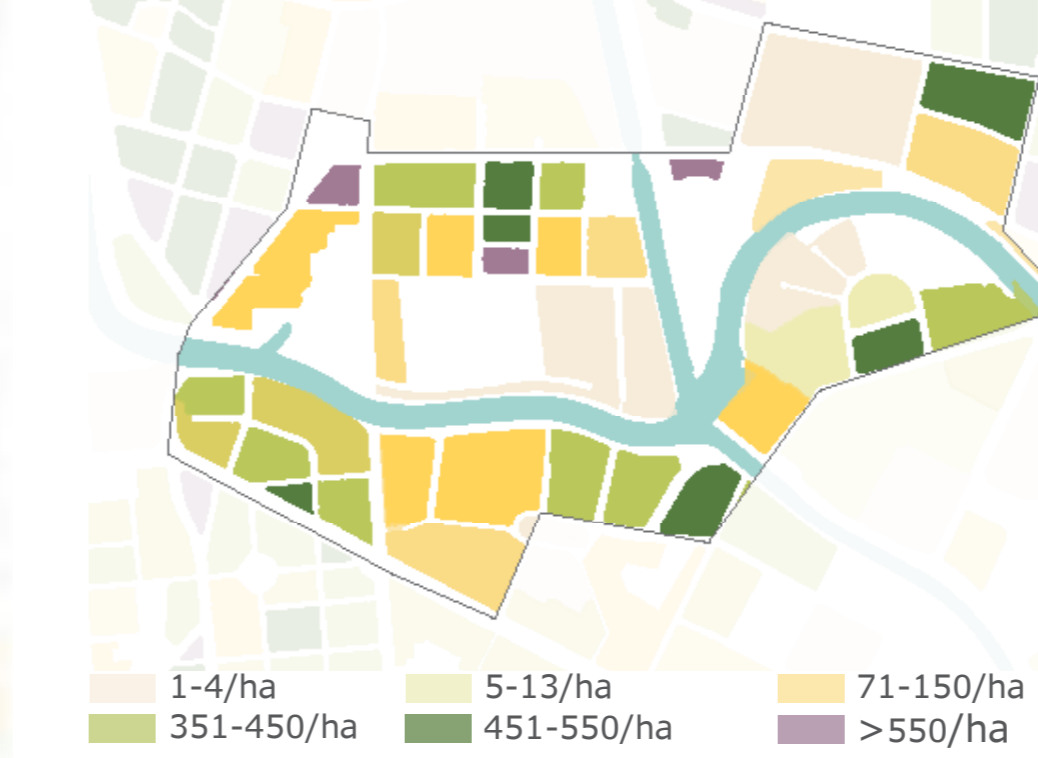


"Berlin 2030 is focussing on City West because it's the place where academia, culture, leisure, tourism, commerce, life and work come together." (Berlin 2030 Strategy)

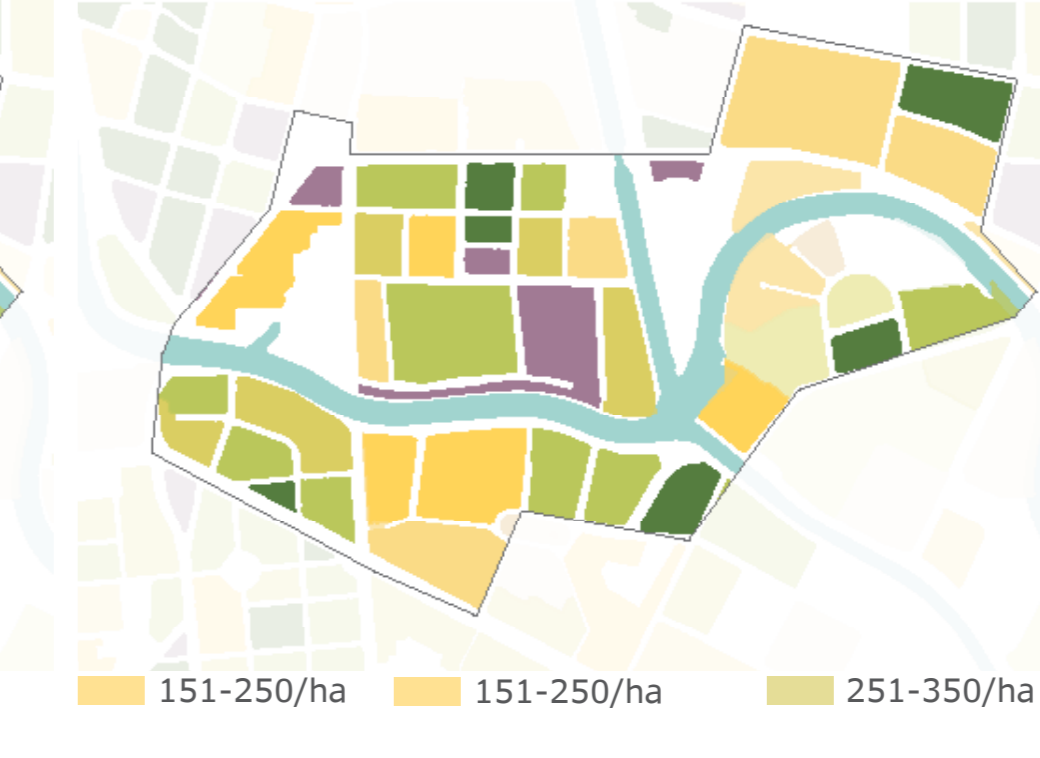
Sustainable Built Form



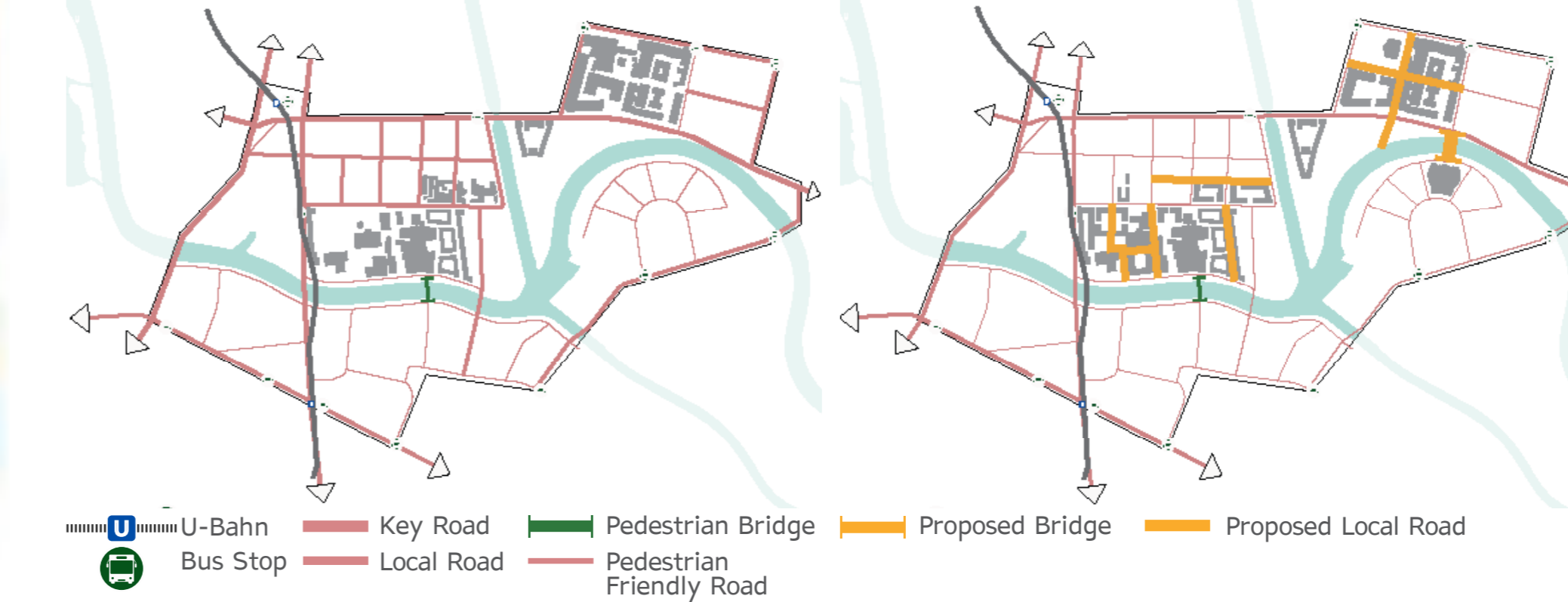
EXISTING Density



PROPOSED Density



Transport & Access



Public domain



Community Facility



VISION

Inclusive and sustainable living

OBJECTIVE

Berlin City West provides vast scope for a new framework for future living in the area, representing an urban environment for for the active society where variety of services are provided:

- To Create a desirable waterfront destination by creating new waterbodies and waterfront amenities;
- Bring urban life into the city and activate the precinct

PRINCIPLES

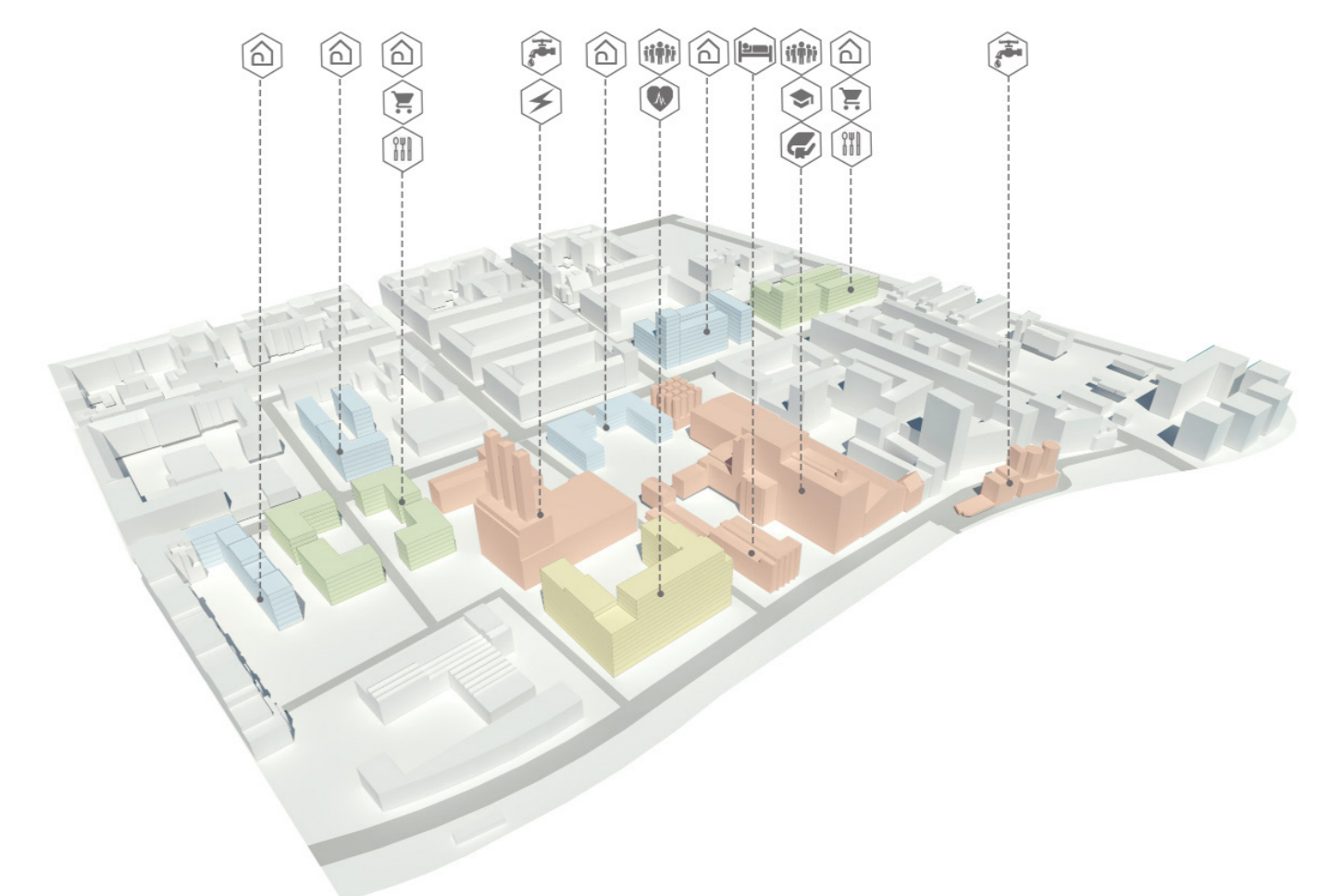
Create a environmental friendly neighbourhood in consistant with surrounding DENSITY.

Create new roads and strengthen the street network by creating better CONNECTIVITY.

Define public realm through building typology to visionalise a quality PUBLIC DOMAIN.

Introduce water recycle and climate sensitive design and environmental friendly travelling mode for long-term SUSTAINABILITY.

Proposed Function



BERLIN | CITY WEST : AN INCLUSIVE URBAN CENTRE

STRATEGY

DENSITY

Medium density development with encouraging mix of use at ground floor level; Integrate the neighboring Werkbund site into the planning.

CONNECTIVITY

Extend water access through new open space, roads and bridge; Increase connection between different fragmented space and cycling path.

PUBLIC DOMAIN

Create an open space corridor along the river; Build landscape park as a buffer to existing industrial site; provide a mix of community facilities such as age care centre and community college.

SUSTAINABILITY

Encourage environmental friendly travelling mode by providing bike parking and renting facilities; Adaptive reuse of selected heritage buildings; Ensure air circulation between buildings through built form design to create a bio-neighbourhood; Water sensity design through continuous roof top gardens and reuse onsite dumped infrastructure as water recycling plants; Create self-sufficient and detachable refugee container with roof solar panel.

MASTERPLAN



Section A-A''



Isometric view



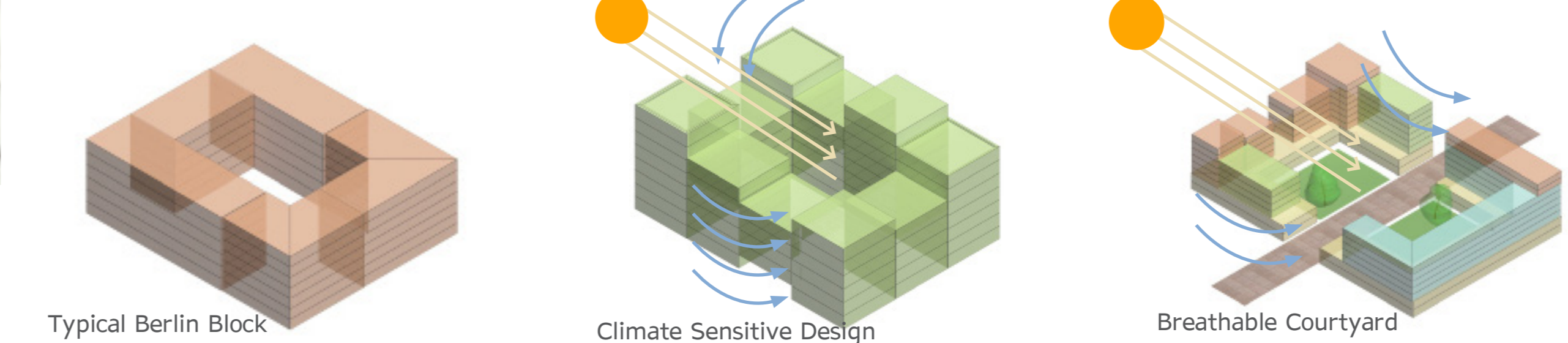
Perspective 1 View from park to power station



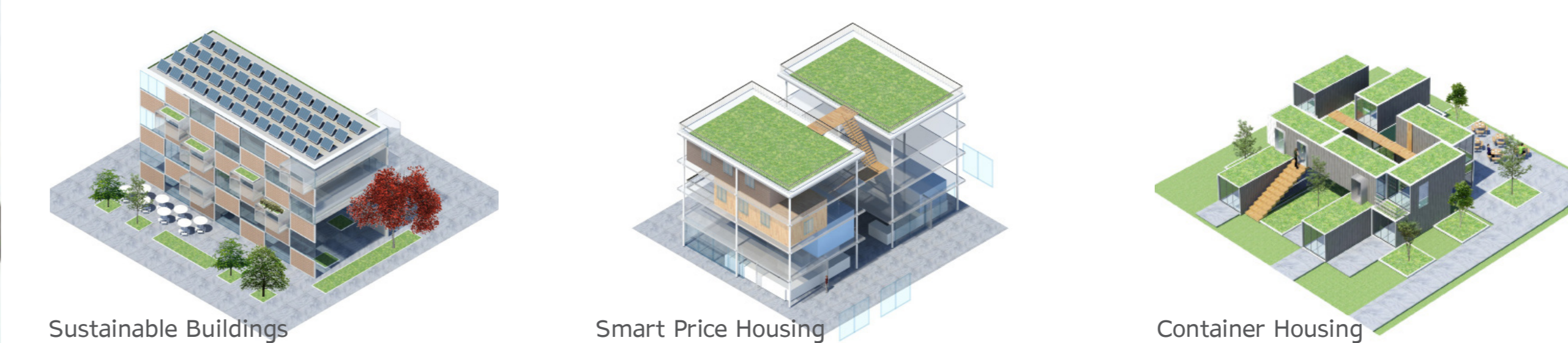
Perspective 2 Elektro Polis Platz



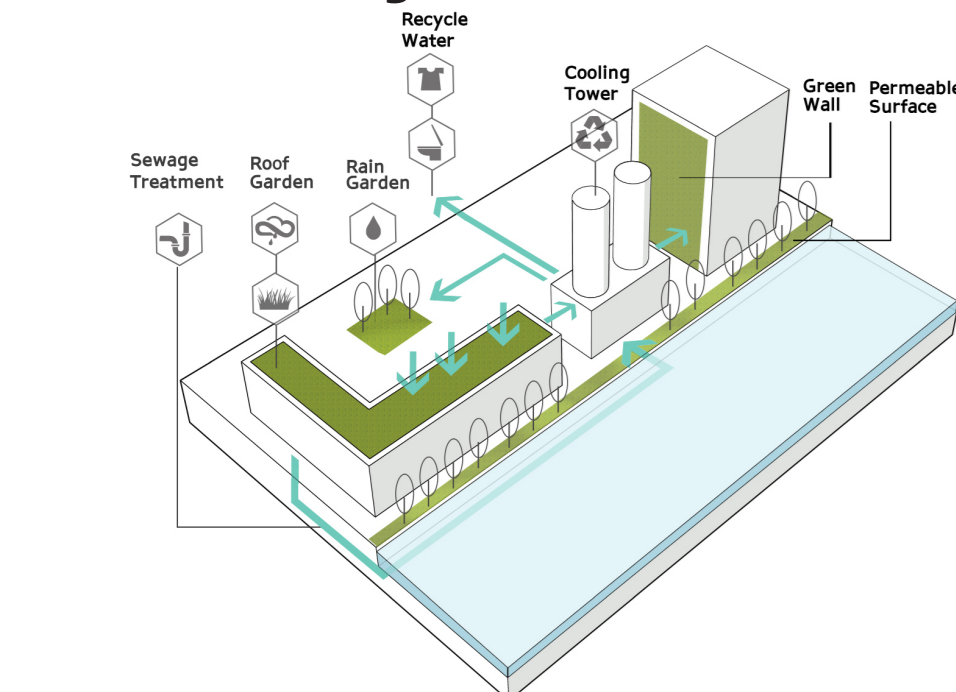
BUILT FORM



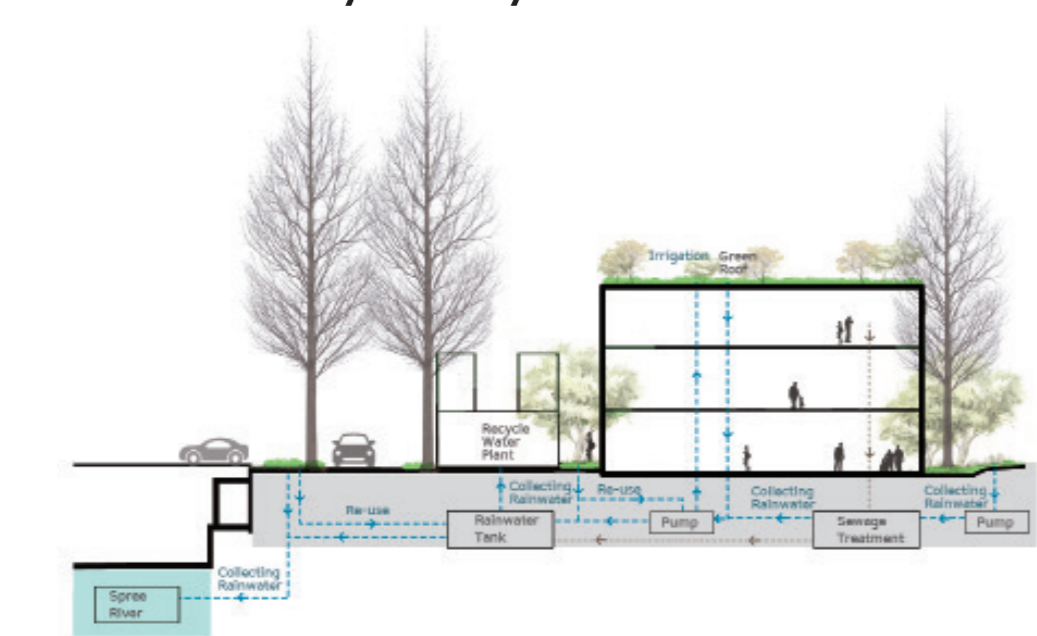
BUILDING TYPOLOGY



Water Management



Water Recycle System



Waterfront Elevation



