

**URBAN
DESIGN
PORTFOLIO**

WU XIAOXIAO

URBAN
DESIGN
PORTFOLIO

WU XIAOXIAO

PROJECT COTENT

Amsterdam, Netherlands _____ **[Group]**

Sydney Westconnex Kingsgrove Place _____ **[Group]**

Berlin Wasserkreuze _____ **[Group]**

PROFILE -----

FIRST NAME **XIAOXIAO**

LAST NAME **WU**

NICK NAME **IRENE**

AGE **25 YEARS OLD**

DATE OF BIRTH **22 AUGUST 1991**

EDUCATION -----

- Institute of Continuing & TESOL Education, Australia 2011
Bridging English Program
- The University of Queensland, Australia 2012-2015
Bachelor of Regional & Town Planning
- University of Sheffield, England 2014 Semester 2
University Exchange Program: Town & Regional Planning
- The University of New South Wales, Australia 2016-2017
Master of Urban Development and Design

SKILLS -----

Google Sketch Up	○○○○○
Adobe Illustrator	○○○○○
Adobe Photoshop	○○○○
Adobe InDesign	○○○○○
AutoCAD	○○○
Microsoft Word	○○○○○
Microsoft Excel	○○○○○
Microsoft PowerPoint	○○○○○
ArcGIS	○○○○○

LANGUAGE -----

English (Fluent)
Mandarin (First Language)
Cantonese (First Language)

WORK EXPERIENCE -----

Organization: Peddle Thorp, Shenzhen, China Office
Position: Intern
Description: Community planning and design. Extensive use of Sketch Up, Adobe Photoshop and AutoCAD 2006.



**URBAN
DESIGN
PORTFOLIO**

WU XIAOXIAO

Amsterdam

Netherlands

Amsterdam is located in North Holland, the Western region of The Netherlands. The capital city is 2 meters below sea level with a municipal area of 219 km².

The intended transformed area named as Buiksloterham, a post-industrial area North of the River IJ, in Noord, an area of greater Amsterdam. The site selected for development has been listed as prime for re-development in the 2040 Amsterdam Master Plan.

The site was previously used as an industrial area, shipping terminal and manufacturing precinct. The site is now a disused brown-field site offers great potential for new mixed use development and an innovation precinct. For much of the past decade, this former industrial land undergone a number of failed attempts at redevelopment, mostly spoiled by the lack of capital available due to the effects of the global financial crisis and the growing conservative attitude towards property development and speculation during this time.





1:2,000

- Built Form
- Water
- Green Space
- Underdeveloped Land
- Car parks
- Roads
- Trees

Overall Project Site (ha)	190
Total Gross Floor Area (m ²)	1,982,066
Residential Gross Floor Area (m ²)	988,650
Number of Dwelling Units (average dwelling unit size – 80 m ²)	9,237
Residential Population (average occupancy rate – 2.5 people per dwelling unit)	23,092
Commercial GFA (including Retail)	663,320
Educational Institutions GFA (including student residences)	49,645
Cultural Institutions GFA	146,577

Buiksloterham is typified by industrial warehouses, wide access roads and man-made canals for shipping access. The scarcity of buildings is typical of a post-industrial landscape.

To create a vibrant and sustainable human-scale mixed-use precinct, encouraging innovation and collaboration between its inhabitants.

OBJECTIVES

The site, which currently features little existing development, provides vast scope for a new framework for future design in the area. The objectives of developing this site include;

- Development of a mixed use area that caters for 5000 residents;
- Creation of an innovation hub that creates vast job opportunities in the region and encourages further innovation opportunities;
- Establishing a site that provides 1000 jobs through its commercial, mixed use and innovation precincts.

STRATEGIES

Connection to Waterfront and Canals

Enhance access to the waterfront and canals, aiding in enhancing the character of the site.

Transportation Network

Increase the efficiency of the public transport network to improve the sustainability and accessibility of inner city travel.

Pedestrian Amenity

Upgrade pedestrian and bike amenities along cycle paths and install bicycle rental stations across the site.

Green Space Strategy

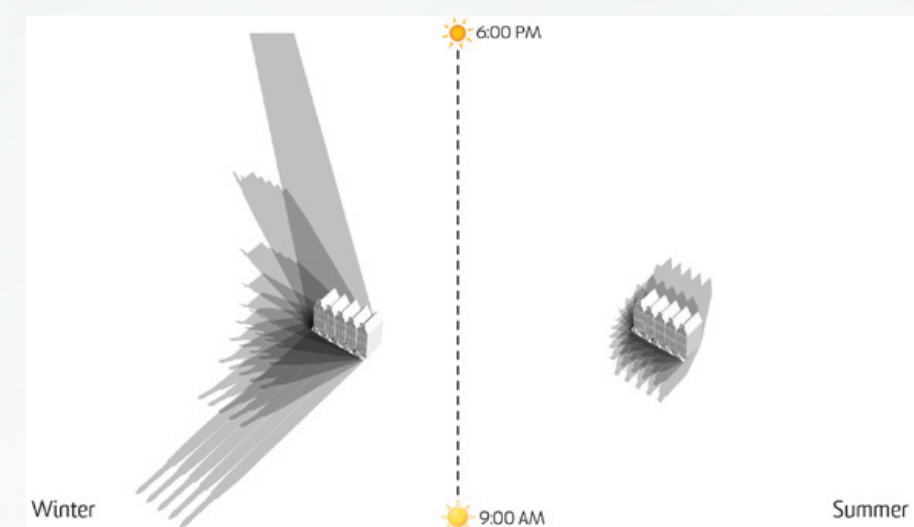
Ensure the site has a strong green network ensuring good quality, accessible open spaces. Whilst also establishing a green space network along the waterfront.

Fine Grain, Medium-Density Development

Create areas of enclosure and provide a sense of safety, whilst reflecting the architectural style (low scale, high density housing) character of Amsterdam.

A Culturally Rich and Innovative Hub

The area provides for cultural activity, a multifunctional economy and reflects the values of the Amsterdam community.





Aspect and Wind Analysis

- Wind Direction
- Shadow



Movement - Vehicular and Pedestrian

- Main Roads
- Local Roads
- Shared Pedestrian & Cycle Network



Natural Environment

- Green Space
- Water



Existing Land Use

- | | | | | | |
|--|-------------------|--|---------------|--|--------------------|
| | Local Centre | | Residential | | Deferred Matters |
| | Recreation | | Waterways | | Light Industrial |
| | Infrastructure | | Business Park | | Special Activities |
| | Working Waterways | | | | |



Proposed Shadow Analysis

- Shadow



Proposed Movement - Vehicular and Pedestrian

- Light Rail
- Main Roads
- Shared Pedestrian & Cycle Network



Proposed Natural Environment

- Green Space
- Water

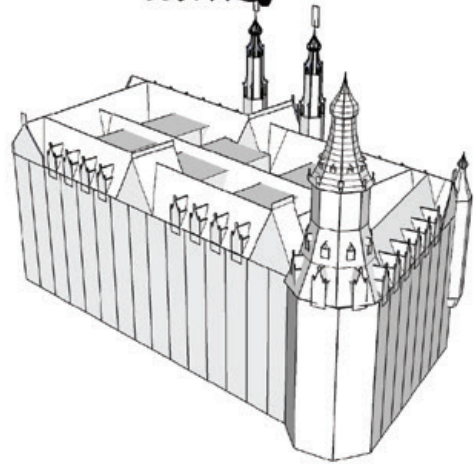


Proposed Land Use

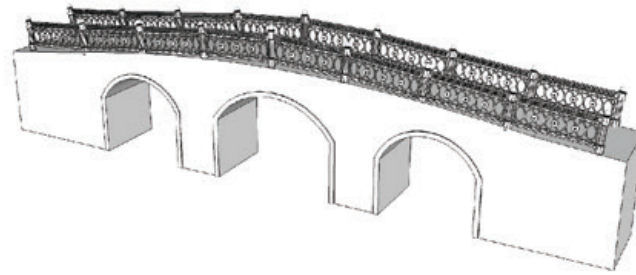
- | | | | | | |
|--|----------------|--|---------------|--|--------------------|
| | Commercial | | Mixed Use | | Residential |
| | Recreation | | Waterways | | Special Activities |
| | Infrastructure | | Business Park | | |



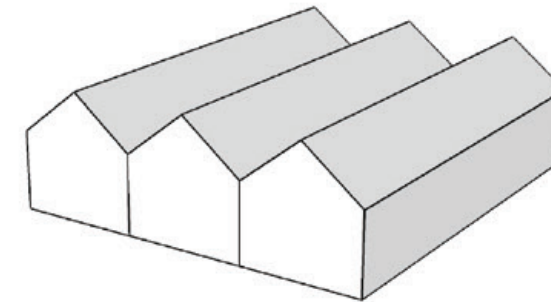
Canal House



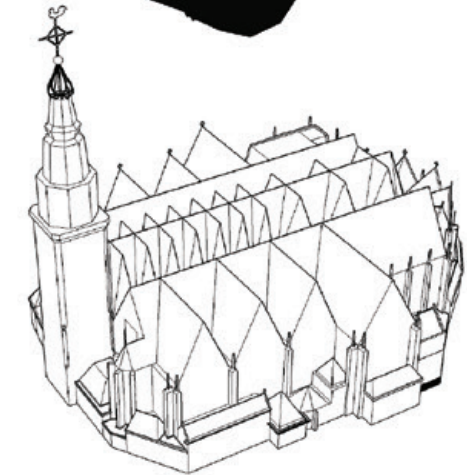
Traditonal Office



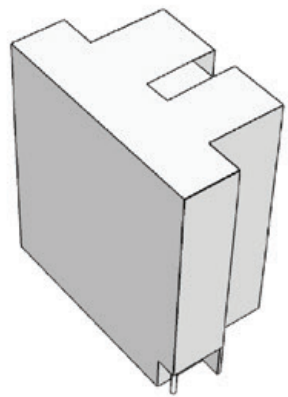
Stone Canal Bridge



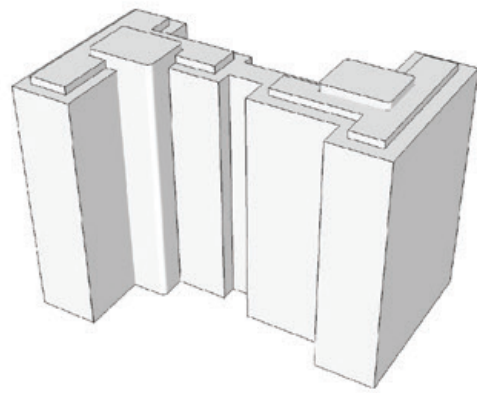
Warehouse



Church



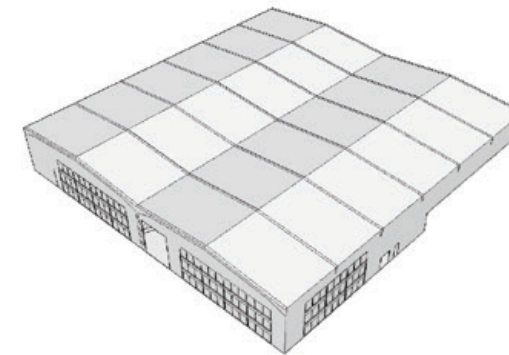
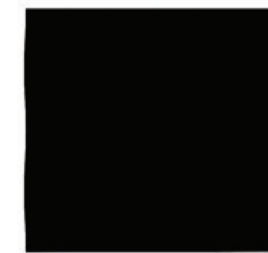
Modern Apartment



Modern Office



Steel Canal Bridge



Modern Warehouse



Image: Commercial Precinct



Image: Residential Precinct and Urban Farm

Kingsgrove Place

WestConnex M5

The repositioning of Westconnex – New M5 Project poses a strong opportunity to rethink the urban neighbourhoods of Sydney. At a total of 9km length connecting from St Peters to Kingsgrove (Subject Site) and Beverly Hills, the repositioning of the tunnel project to a Metro Project indicated the potential uplift of the neighbourhoods along the Westconnex south-west alignment and the opportunity for Sydney to form active communities for a sustainable tomorrow.

As the end point of the Westconnex south-west alignment, Beverly Hills and Kingsgrove poses the opportunity to be uplifted and transform into an urban centre that reinforce the 'metro gateway'.

The transition of a suburban neighbourhood context to an active urban centre will significantly impact on community living and a comprehensive understanding of the existing urban context is vital prior to the design of an urban centre and the uplift of the surrounding neighbourhood.



Issue

Connectivity Barrier to the North and South

M5 and the New M5 separate Kingsgrove into North and the South Rail Corridor south of the site

Lack of Road Connectivity from the West and the East

Minimal secondary road network connected to the site

Significant Gap between land uses and built form

Separated land use, suburban to light industrial
Lack of density and variedness in land uses

Lack of an integrated park network and system

Discourage the use of active transport: walking, cycling and the use of public transport

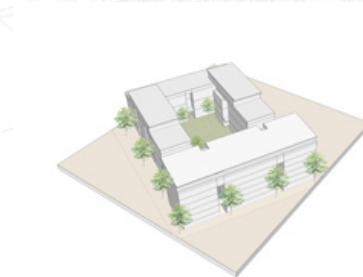
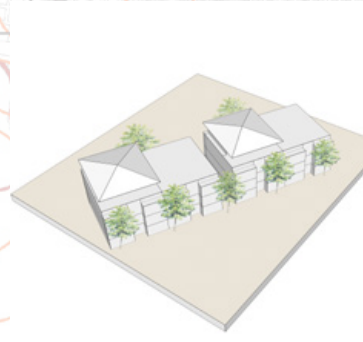
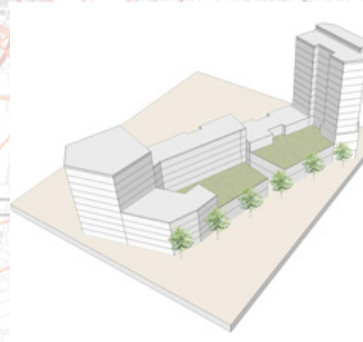
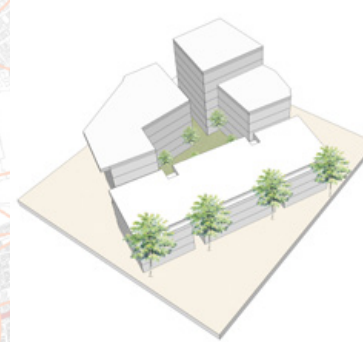
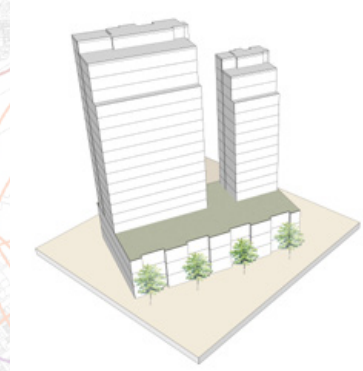


INNOVATIVE PUBLIC DOMAIN

One of the main strategies is to extend existing park across the site with incorporation of a landscape design and a public art strategy that encourage varied uses throughout the week, which will help form greater sense of place and the sense of community.

A hierarchy of parks with different functionality will be established, these include: Beverly Hills Park (as a public park for community & sports); the Garden Promenade as semi public & private green space; Landscape Sculpture Park, Landscape Bridge and Beverly Hills Grove as public green space for arts, leisure and entertainment; as well as a Buffer Corridor along M5.

These parks are integrated as a public domain network to encourage the use of Active Transport, including walking, cycling and use of public transportation. More importantly, the designated green spaces along Wolli Creek, known as the Garden Promenade are of ecological sensitive, with a buffer corridor and greater setbacks of buildings as main setting.



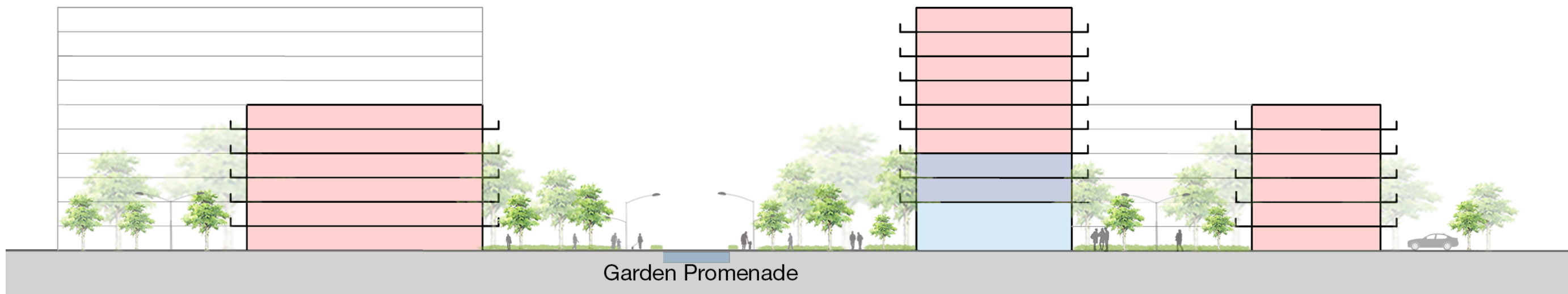
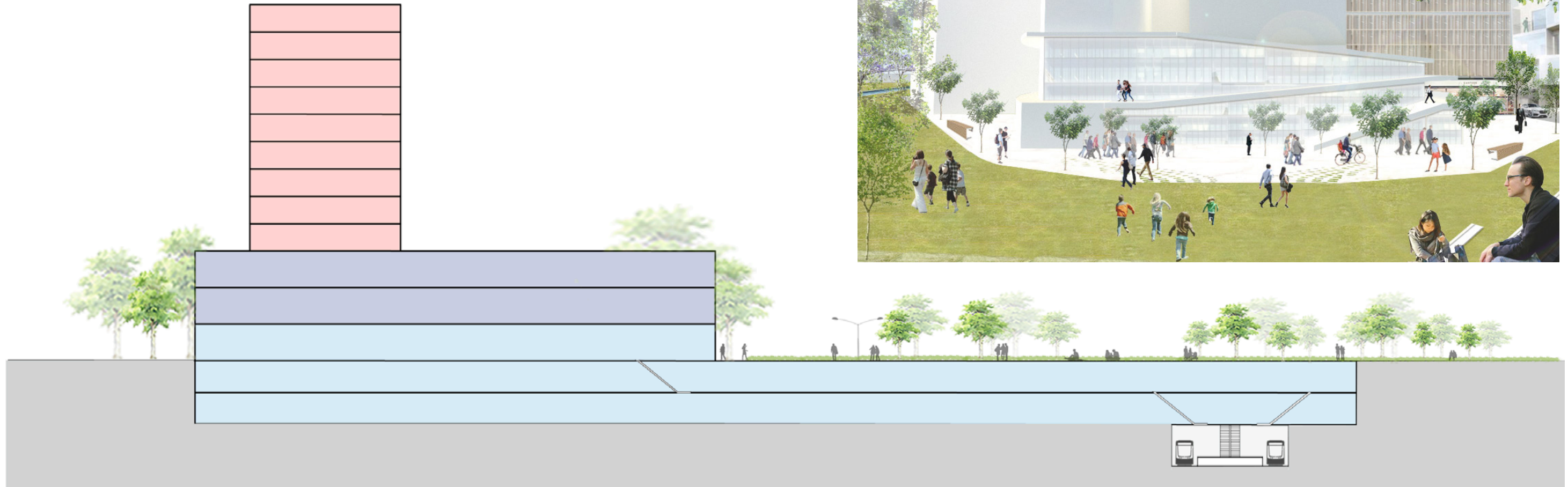
CONNECTING STATIONS OF RAIL NETWORK

Propose a new metro station and the gateway concourse that offers opportunities for leisure and entertainment.

As a strategy form an integrated transit hub, existing Kingsgrove Rail Station would be upgraded as a bus and rail interchange. Moreover, linkage to Beverly Hills Station at the west would be improved through the park network that supports active transport.

RETAIL AND BUSINESSES OPPORTUNITIES

Introduce an Active Promenade filled with leisure and entertainment opportunities, as well as an Enterprise Corridor that links to the potential business park up north via Kingsgrove Road or Landscape Bridge across M5.



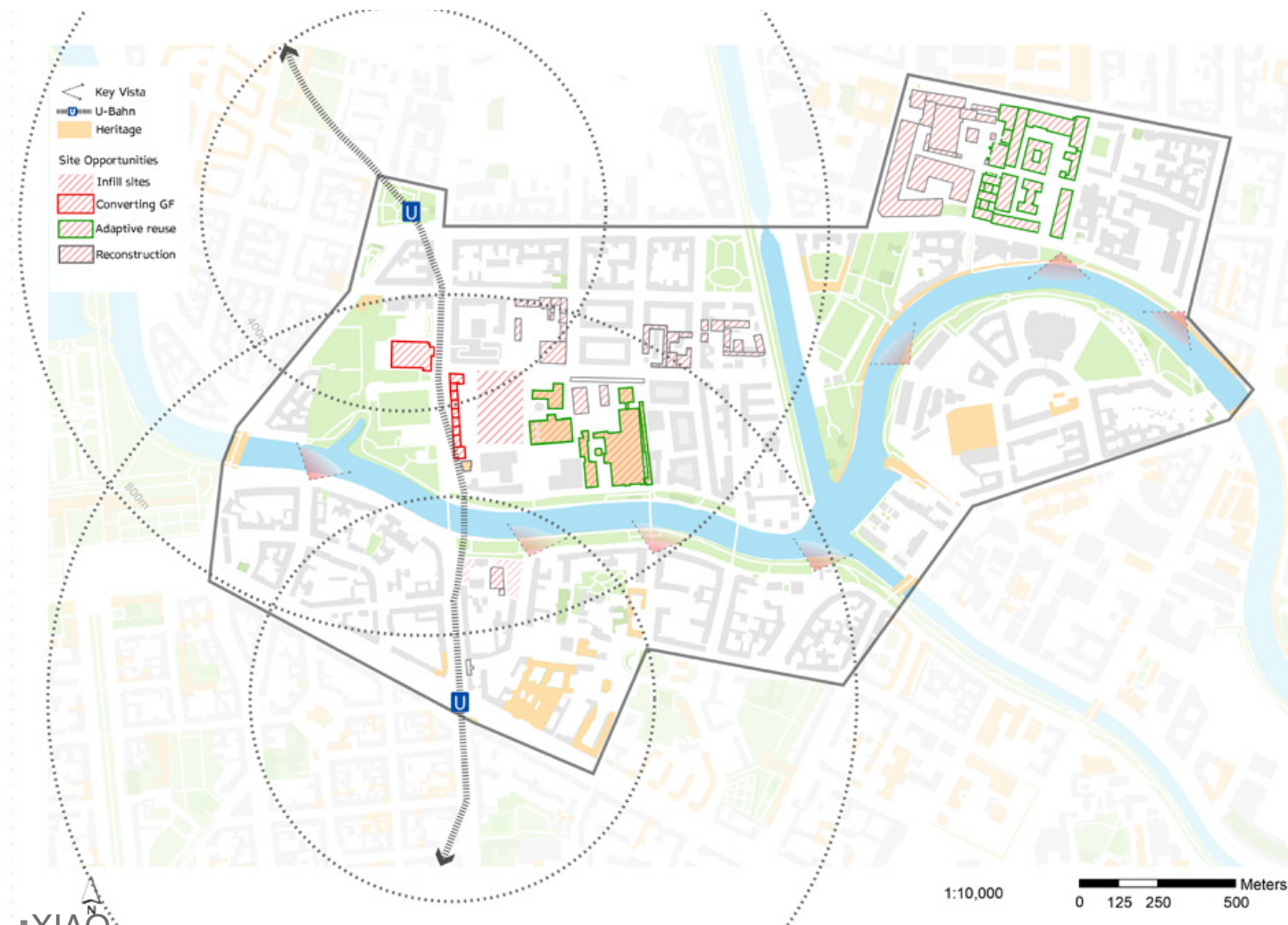
Berlin Wasserkreuz

Germany

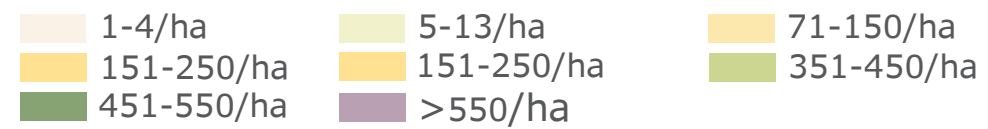
City West – A modern, compact centre

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.

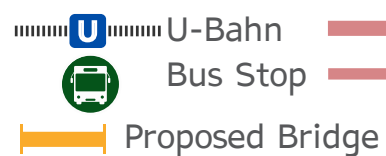
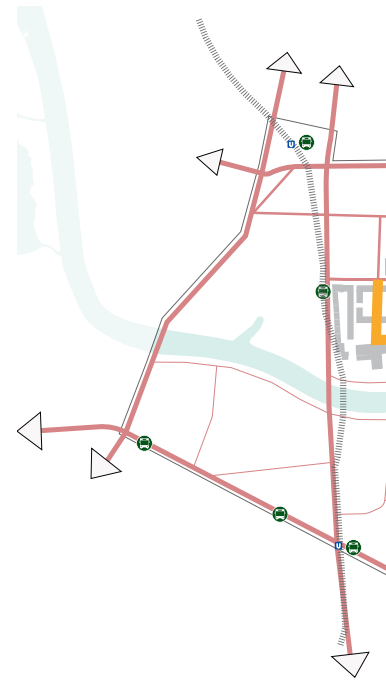
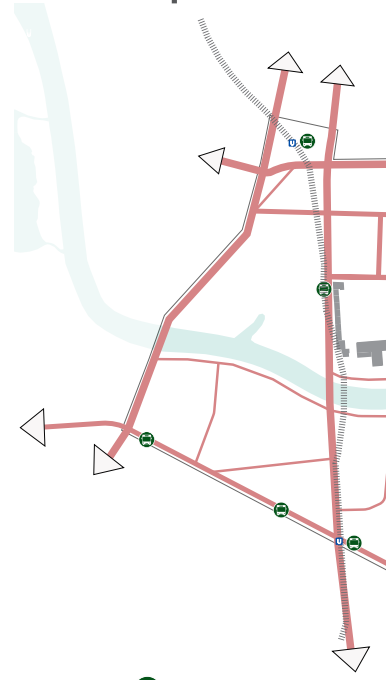
Major development proposal in the area includes WerkbundStadt and the Darwinstrasse 2A. The Berlin senate has also identified the site west to the Charlottenburg Power plant as a future site for refugee modular housing (MUF).



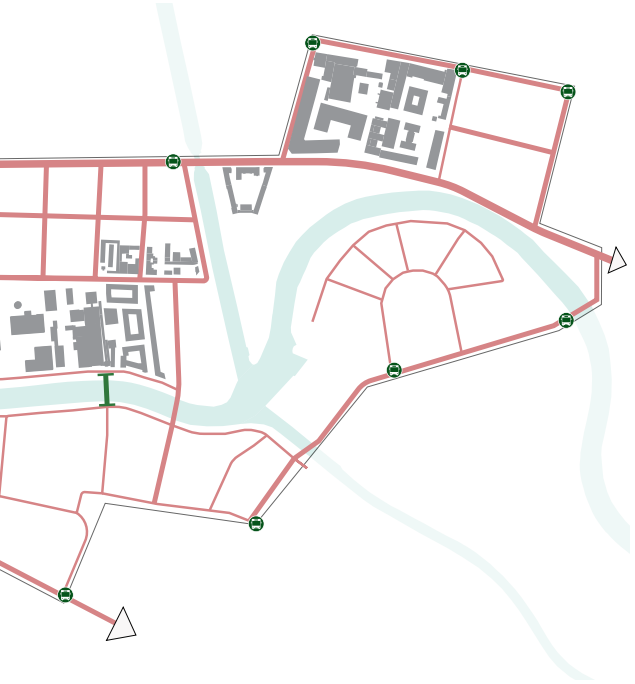
Density



Transport & A



Access



- Key Road
- Local Road
- Proposed Local Road
- Pedestrian Bridge
- Pedestrian Friendly Road

Public domain



- Existing Public Space
- Garden Allotment
- Open Space
- Public Plaza
- Neighbourhood Courtyard

Community Facility



- 📖 Library
- 📍 Restaurant
- 🎓 School
- + Hospital
- 🏠 Community 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 a 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.

