Infrastructures of Inclusion, Local Communities and the Networked City

2020-2021 2nd Term,
Mondays & Thursdays, 1:30pm – 6.15pm

Instructors: Adjunct Associate Professor Casey Wang
                          Assistant Professor Jeroen van Ameijde

Workshop Inputs: Adjunct Associate Professor Daniel Pätzold
                          Associate Professor Hendrik Tieben

STUDIO BACKGROUND, GOALS AND APPROACH

Building on the investigation of infrastructure and public spaces in Hong Kong in the first studio, the second studio gives students the opportunity to work at a variety of urban scales. The studio will focus on Hong Kong's and Shenzhen's regional connectivity, and both cities' interconnected and different histories, communities, and strategies for urban development.

Until recently, the guiding narrative about the planning of cities focused on the continuous expansion and increasing integration of city regions, forming new networks of mobility and exchange at multiple scales. The Greater Bay Area initiative falls within this philosophy, promoting what Manuel DeLanda has termed as ''meshwork cities'', which stimulate economic development through internal and external competition, innovation, and the strengthening of regional collaboration.

Yet the pandemic has imposed new boundaries to protect populations, highlighting the precarious dependencies of cities on supply lines and hinterlands. Limited travel and requirements of social distancing are reframing forms of communication at the micro and macro scale, across urban communities and the networked city in the region. While sudden improvements in air quality and other natural systems provide a positive note in a time of crisis, these also indicate the urgent need for a debate about balanced future urban growth in relation to the environment.

With the theme of "infrastructures of inclusion", this studio will address the need for support networks at the neighbourhood, city and regional scales during "the new normal", exploring solutions that balance interconnectivity with local self-sufficiency. At the neighbourhood scale, we will explore how the (re)design of new or existing urban areas in Hong Kong and Shenzhen can improve their capacity to support diverse communities, promote health and well-being, and economic mobility. At the regional scale, we will explore the future relationships between the different areas of the Greater Bay Area, understanding how integrated flows of resources, information and people are vital for its future development while also offering opportunities to strengthen unique local characteristics and specialisations.

The studio will begin with a strategic research phase, unpacking the complex historic, economic and political layers that have led to the specific materialisation of urban conglomerations in this part of the Greater Bay Area. Working in different groups, we will focus on different topics such as ecology, infrastructure, planning frameworks, typologies, and cultural spaces. The combined outputs of all groups will form a comprehensive research document to form a shared resource and intellectual framework for the development of studio projects.

The second phase of the studio will focus on the development of a series of visionary scenarios and pilot schemes for selected sites on both sides of the border between Hong Kong and Shenzhen, exploring strategies opportunities for urban intensification and for the strengthening or expansion of unique local area characteristics. As a studio, we will aim to critically reflect on overly commercial oriented modes of development, and seek to re-prioritise a more human centric approach. We aim to discuss how investment in new infrastructure, shared facilities and urban spaces can be instrumentalised to create more equitable and resilient communities that can address the new threats to our health, environment, and well-being.

If the circumstances allow, the research and design work will be supported and informed by a series of site visits across Hong Kong, Shenzhen, and the Greater Bay Area. Either through in-person visits or online meetings, we will collaborate with different stakeholders in GBA cities such as Shenzhen, Dongguan and Guangzhou, in order to have dialogues with governments (planning authority and policy makers), private developers, and citizens to brainstorm about the possibilities to design sustainable neighbourhoods that are fit for the "new normal".

OBJECTIVES OF THE STUDIO

- To identify and understand how existing urban areas have evolved historically and are currently transforming;
- To explore new opportunities for integrated infrastructure planning to guide the development of more cost-effective and resilient urban and social infrastructure investments over time;
- To develop strategies to introduce or improve neighbourhoods with economic vitality and social and environmental sustainability;

- To propose and develop contextual and considerate urban design solutions, that contribute to increased living quality, social interaction, and economic vitality;
- To create a conceptual design framework, planning proposal and study schemes indicating land use functions, infrastructure systems and neighbourhood qualities;
- To develop an urban design proposal through the potential synergies and integration within its existing context;
- To develop a comprehensive urban design proposal that combines strategic and quantitative urban design measures with appropriate spatial and environmental qualities that support urban communities.
- To propose design strategies that address urban networks at the neighbourhood, city and regional scales during "the new normal", that balance interconnectivity with local self-sufficiency to promote health and well-being, and economic mobility.

STUDENT LEARNING OUTCOMES

Upon completing the studio, students will be able to:
Understand how to organize a sustainable development strategy that will integrate economic, social and environmental perspectives;
- Understand, map and interpret the urban morphology of an important part of Hong Kong or Shenzhen;
- Understand the complex relationships between enhancing urban mobility and environmental, economic and social sustainability;
- Learn from key examples of Urban Design;
- Create a comprehensive urban design strategy by learning to work in different scales in the fields of architecture, urban design, and city planning;
- Understand and address contemporary urban issues with focus on development of advanced urban design, presentation and communication skills while addressing key issues and developing context sensitive strategies and designs;
- Determine priorities and strategies to create an urban ecosystem;
- Understand and balance the priorities from different stakeholders including policy makers, end users, etc., to develop urban design strategies.

ASSESSMENT SCHEME

- Group Research   20%
- Conceptual Design Framework (Midterm)   20%
- Final Design Project Development   50%
- Participation   10%

COURSE FORMAT

- Studio Work
- Weekend daytrip to the New Territories
- Weekend trip to Shenzhen, Dongguan and Guangzhou (TBC)
- Exhibition and public engagement in Hong Kong (Venue TBC)
- Exhibition and public engagement in Venice (TBC)

REQUIRED READINGS

Alex Lehnerer, **Grand Urban rules** (Rotterdam: 010 Publishers, 2009)
Jan Gehl, **Life Between Buildings**: *using public space* (Van Nostrand Reinhold New York, 1987)
Jan Gehl, **Cities for People** (Island Press, 2010)
Michael Larice and Elizabeth Macdonald. **The Urban Design Reader.** Second edition. (Routledge, 2013)
Shane, David Grahame, **Urban Design Since 1945:** *A Global Perspective* (Wiley, 2011)
Shelton, Barrie, Karakiewicz, Justyna & Kvan, Thomas, **The Making of Hong Kong:** *From Vertical to Volumetric* (Taylor & Francis, 2010)

RECOMMENDED READINGS

Urban visions and experimental massing
WORKac, **49 CITIES** (New York: Storefront for Art and Architecture, 2009)
Stan Allen and Marc Macquade, **Landform Building** (Lars Muller Publisher, 2011)
R. Klanten and L. Feireiss, **Utopia Forever:** *Vision of Architecture and Urbanism* (Gestalten, 2011)
Winy Maas, **Visionary Cities** (Rotterdam: NAI Publishers, 2010)
Winy Maas, **Hong Kong Fantasies** (Rotterdam: NAI Publishers, 2012)
Aurora Fernández and Javier Arpa, **Density Projects** (Vitoria-Gasteiz: a+t ediciones, 2008)

Site and situation
Frédéric Edelmann, **In the Chinese City**. Perspectives on the Transformation of an Empire (Barcelona: Actar 2008)
Johannes Widodo, **The Boat and the City**: Chinese Diaspora and the Architecture of Southeast Asian Coastal Cities (Singapore: Marshall Cavendish Academic, 2004) 3q2nfgjo/mo5ik6987

City and citizens
Anne Mikoleit and Moritz Purckhauer, **Urban code:** *100 Lessons for Understanding the City*
(Cambridge, MIT Press 2011)
Kevin Lynch, **The Image of the City** (Cambridge, MIT Press, 1960)
Gordon Cullen, **The Concise Townscape** (Oxford: Architectural Press, 1996)
Magda Anglès, **In Favor of Public Space**. Ten years of the European Prize for Urban Public Space (Barcelona: Actar, 2010)
Aurora Fernández Per and Javier Arpa, **The Public Chance:** *New urban landscapes* (Vitoria- Gasteiz: a+t ediciones, 2008)

Sustainability
Albert Ferré, **Total Housing:** Alternatives to Urban Sprawl (Barcelona: Actar, 2010)
Mohsen Mostafavi and Gareth Doherty, **Ecological Urbanism** (Baden: Lars Muller Publishers, 2010)
Mason White, Maya Przybylski, **On Farming:** *Bracket 1* (Barcelona: Actar, 2010)
Bolchover, J., & Hasdell, P. (2017). **Border ecologies: Hong Kong's mainland frontier.**

SCHEDULE

Date	Studio Activities
Mon Jan. 11	Studio Introduction Start of Group Research Phase
Thu Jan. 14	Group Discussions
Fri Jan. 15	*Group Visit to Tin Shui Wai Area*
Mon Jan. 18	Group Discussions
Thu Jan. 21	Research Tutorials
Mon Jan. 25	Research Tutorials
Thu Jan. 28	**Research Pinup**
Mon Feb. 1	Group Discussions/Review reflection
Fri Feb. 5	*Lectures (Shenzhen, Dongguan, and Guangzhou*
Mon Feb. 8	Research Tutorials
Thu Feb. 11	*No Class - Spring Festival*
Mon Feb. 15	*No Class - Spring Festival*
Thu Feb. 18	Group Discussions
Mon Feb 22	**Group Research Review**
Thu Feb. 25	Final Project Group Formation and Site Selection
Mon Mar. 1	Design Tutorials
Fri Mar. 5	Design Tutorials
Mon Mar. 8	Urban Transport Networks Workshop I with Daniel Pätzold (Urbd 5732
Thu Mar. 11	Design Tutorials
Mon Mar. 15	Design Tutorials
Thu Mar. 18	Design Tutorials
Mon Mar. 22	**Midterm Design-Review**
Thu Mar. 25	Design Tutorials
Mon Mar. 29	Urban Transport Networks Workshop II with Daniel Pätzold (Urbd 5732
Thu Apr. 1	Design Tutorials
Mon Apr. 5	*No Class – Easter Holidays*
Thu Apr. 8	**Design Pinup**
Mon Apr. 12	Design Tutorials
Thu Apr. 15	Design Tutorials
Mon Apr. 19	Design Tutorials
Thu Apr. 22	**Final Review Rehearsals**
Mon Apr. 26	**Final Review**
Thu Apr. 29	Hand-In Studio Documentation

SAME COURSE OFFERED BEFORE

Yes

IMPORTANT NOTE TO STUDENTS

ATTENDANCE:
Class attendance is required in all courses. For an excused absence, the instructor must be notified and presented with documentation of illness or personal matter. Please note: Three (3) or more unexcused absences may result in a failing grade for the course.

ACADEMIC HONESTY:
Attention is drawn to University policy and regulations on honesty in academic work, and to the disciplinary guidelines and procedures applicable to breaches of such policy and regulations. Details may be found at: http://www.cuhk.edu.hk/policy/academichonesty/. With each assignment, students may be required to submit a statement that they are aware of these policies, regulations, guidelines, and procedures.

STUDENT WORK:
Submission of studio documentation must be complete and correctly formatted. Missing or incomplete submission of the documentation folder will result in the grade for the course being withheld. This will prevent registration for the following term or delay graduation. In addition, a grade deduction of one letter grade will be made.