Urban Living Challenges in Contemporary & Future

Problems map

Con

Pro

Urban Open Space Standard/Capital

WHO Minimum

Singapore

Hong Kong

9 m²

7 m²

2.7 m²

Kowloon Walled City, Hong Kong (taken by Greg Girard).

Inside the “Cage House”, Hong Kong (taken by photographer Benny Lam).

Inside the “Cage House”, Hong Kong (taken by photographer Benny Lam).
Analysis of Mongkok District

Lai Chi Kok Road

Prince Road

Mongkok Road

Shanghai Street

Nathan Road

Sal Yee Street

49N & 49S Bus Line
W Kwoloon Hwy
Tsuen Wan Line
Kwun Tong Line

Dense Areas of Mongkok District
Site Area
Site

Business Office
Commercial
Residential
Institutional
Street
Elevated Walkway

0 45 135 315 ft
Site Context

- Business Office
- Commercial
- Residential
- Institutional
- Street
- Elevated Walkway
- Tsuen Wan Line
- Kwun Tong Line
Typical residential analysis: Pencil Tower

In order to adapt to the scarcity of land in Hong Kong, Pencil Tower has become a trend. It is super tall and skinny. On each floor of the tower, there is only one or two apartments, one staircase and one elevator. The ground floor is for non-residential uses, which forms the podium.

Public: 45%

Private: 55%
Typical residential analysis: Star-shape Tower

Star-shape tower is a very common residential building in Hong Kong. Its public space is located in the middle of the building, including walkways, stairs and elevators. The rooms are distributed around.

Public: 30%
Private: 60%
Typical residential analysis: Tonglau

The Tonglau began to appear in Hong Kong as early as the mid to late 19th century. The buildings were 4 to 5 stories high and 15 feet wide. The rooms are usually divided and shared by several people. At the same time. The residents need to share the small kitchen and bathroom with their neighbors.

Public: 3%

Private: 97%
Stakeholder Map

Affordable housing

Urban open space

Public Social Space

Need

Behavior

Safe and Clean Living Environment

Go to shopping

Socialize with City Residents

Enjoy the View of The City

Urban Open Space

Social Space

Connect to the City

Behavior

High view of the City

Reasonable rent

Relatively Large Indoor Space

Relatively Large Indoor Space

Separate Bedroom

Fitness and Exercise

Urban commercial space

Separate living space

Flexible layout

Public Social Space

Young Single

Multigenerational

Short-term Traveler

Eating, Meeting or Watching TV

Family Party

Moving Exercise for The Elderly

Outdoor Leisure Activities

Independent Outdoor Space

Kitchen

Indoor and Outdoor Accessibility

Working with pets

Urban open space

Separate living space

Flexible layout
Study model
Exterior Perspective
Modular dwelling units

One-story

Two-story

Three-story

Interlocking Units
Floor Plan: Elevated Walkway

Fa Yuen Street

Elevated Walkway
Floor Plan_Cafeteria

Second Floor of cafeteria
Floor Plan_Flying taxi
Redefinition & Reconnection: Living in contemporary and future cities
Wall Section

1. Anodized aluminium sheeting
   Wood bearers
   Breather membrane
   Wood fibre board
   Wood posts with cellulose insulation
   CLT

2. Glazing in frame
   Toughened safety glass with cavity

3. Rubber flooring
   Plywood
   CLT
   Wood fibreboard insulation
   Breather membrane

4. Insulation
   Steel Beam
   Steel deck
   Reinforced concrete
   Insulation
   Slab reinforcement

5. Finish
   Plywood
   Battens breather membrane
   Wood fibreboard
   Cellulose insulation
   Boarding (CLT)

6. Fire door of the core

7. Elevation of the core

8. Elevation of the sliding door of upper unit

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Legend:
0 ft to 1 ft
1 ft to 3 ft
3 ft to 7 ft
Exterior Views

Street

Elevated Walkway
Interior Views

Cafe

Rooftop
Interior Views

Flying Taxi

One-story unit
Terrace
Precedents analysis

Nagakin Capsule Tower, KISHO KUROKAWA, Tokyo, Japan, 1972

Linked Hybrid, Steven Holl, Beijing, China, 2007

Green Office, Nicolas Laisné Architecte

Literature Review

Reading:

