SUSTAINABILITY

Garden parking
Increasing the area of green space and improving the situation where many roads have hard paving instead of natural land and vegetation. Reducing the heat island effect and dust storms

Mixed-function zone
Compact urban development reduces the use of regional facilities and improves availability

Energy-efficient building
All meet the minimum low energy consumption standard of 65kWh/m²·a, and the residential energy-saving benefit exceeds 90%

Community culture center
To improve health, promote neighborhood and community engagement

Roof greening
Increasing green areas, providing comfortable outdoor spaces and improving the microclimate and quality of living spaces

Community cultural centre

Water circulation system
Artificial facilities combined with natural water, make efficient use of water resources in the process of evaporation (including plant transpiration), water vapour transport, precipitation, infiltration, surface runoff and groundwater runoff cycles.

Roof Catchment

Ecological wetland

Irrigation

Square runoff

Ecological wetland

Public green park
The improved streetscape green space parks for air promote community building and improve quality of life more effectively.

Convenience service facilities
The integration of amenities and public programs contributes to the vitality of the area

Community walk street
The improved streetscape promotes cycling and walking, reduces carbon emissions and stimulates public activity.

Green valley | The 2nd ground | Green valley | Riverside park

Section of TOD+EOD

① Metro rail transit ② Bus on the Ground ④ Escalator ⑥ 2nd floor footpath
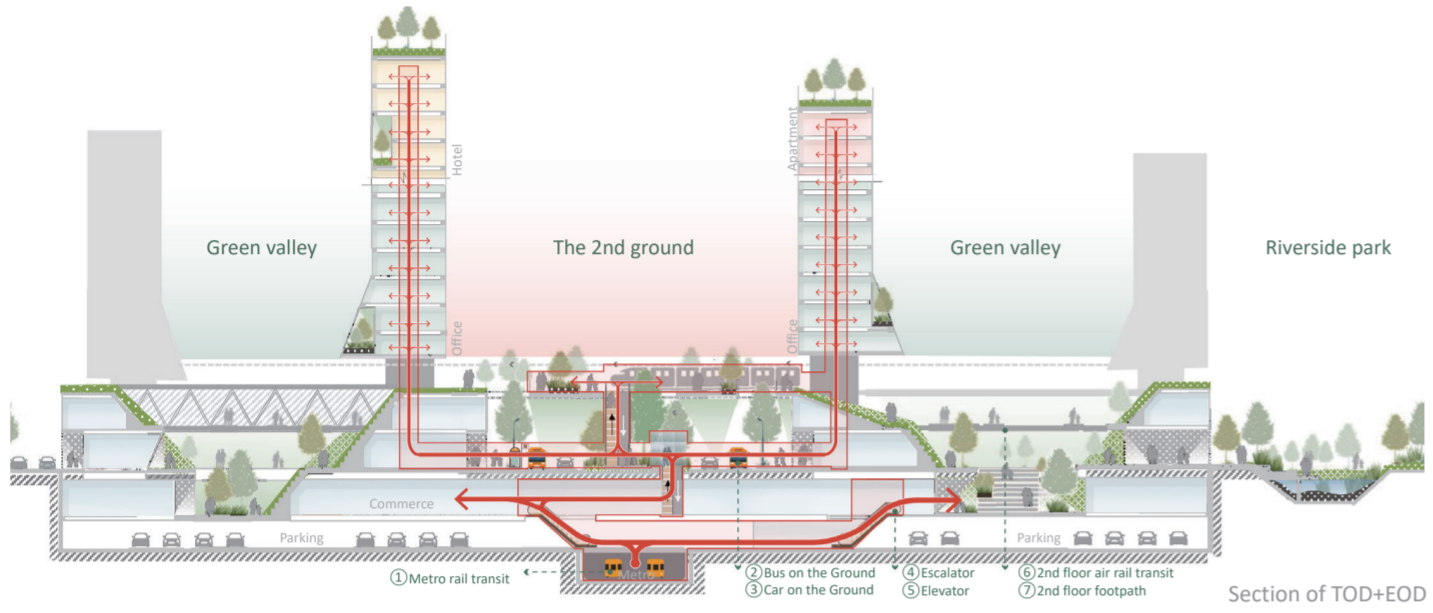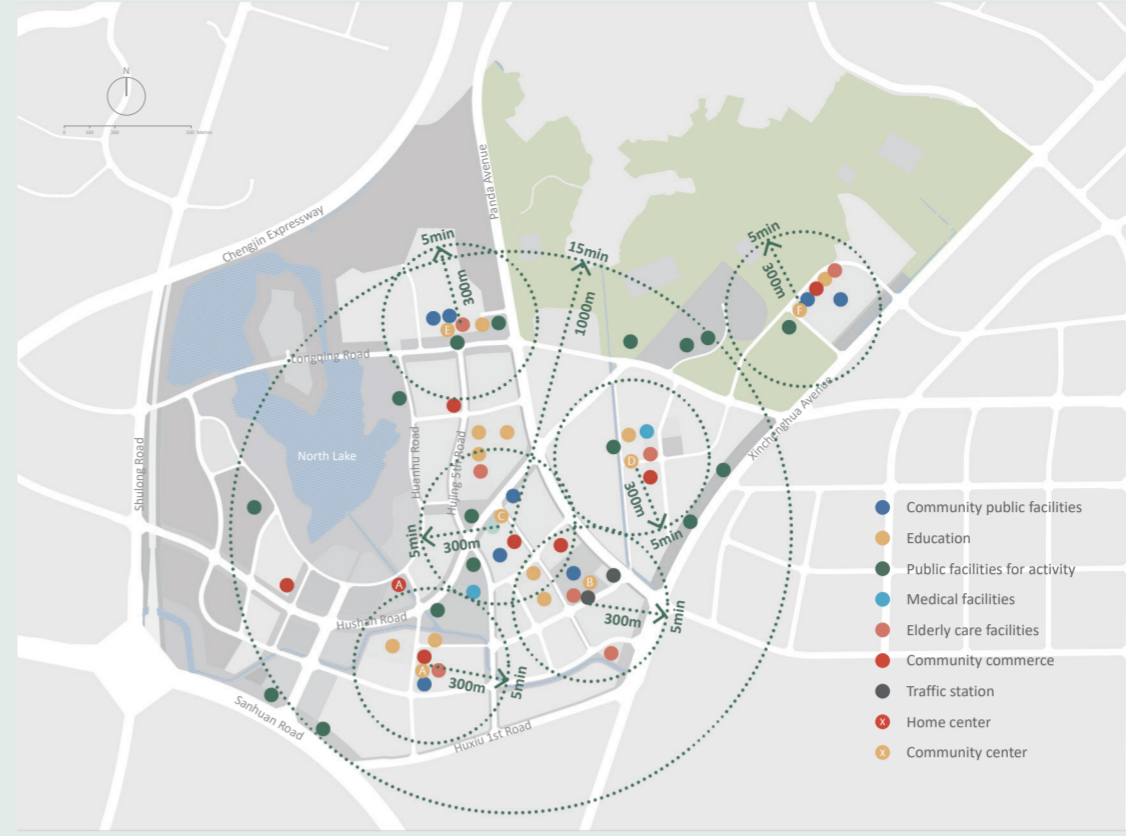③ Car on the Ground ⑤ Elevator
Parking — Commerce — Parking

Building materials are more locally sourced, with 15% recycled products. Green roofs are also encouraged to absorb and use rainfall for daily irrigation.

Incorporating TOD and EOD models to optimise public transportation and connections. The natural landscape has been deeply embedded in the transport hubs, which encourages a new model of 'cycling/walking + bus' for daily trips.

COMMUNITY CIRCLE

- Community public facilities
- Education
- Public facilities for activity
- Medical facilities
- Elderly care facilities
- Community commerce
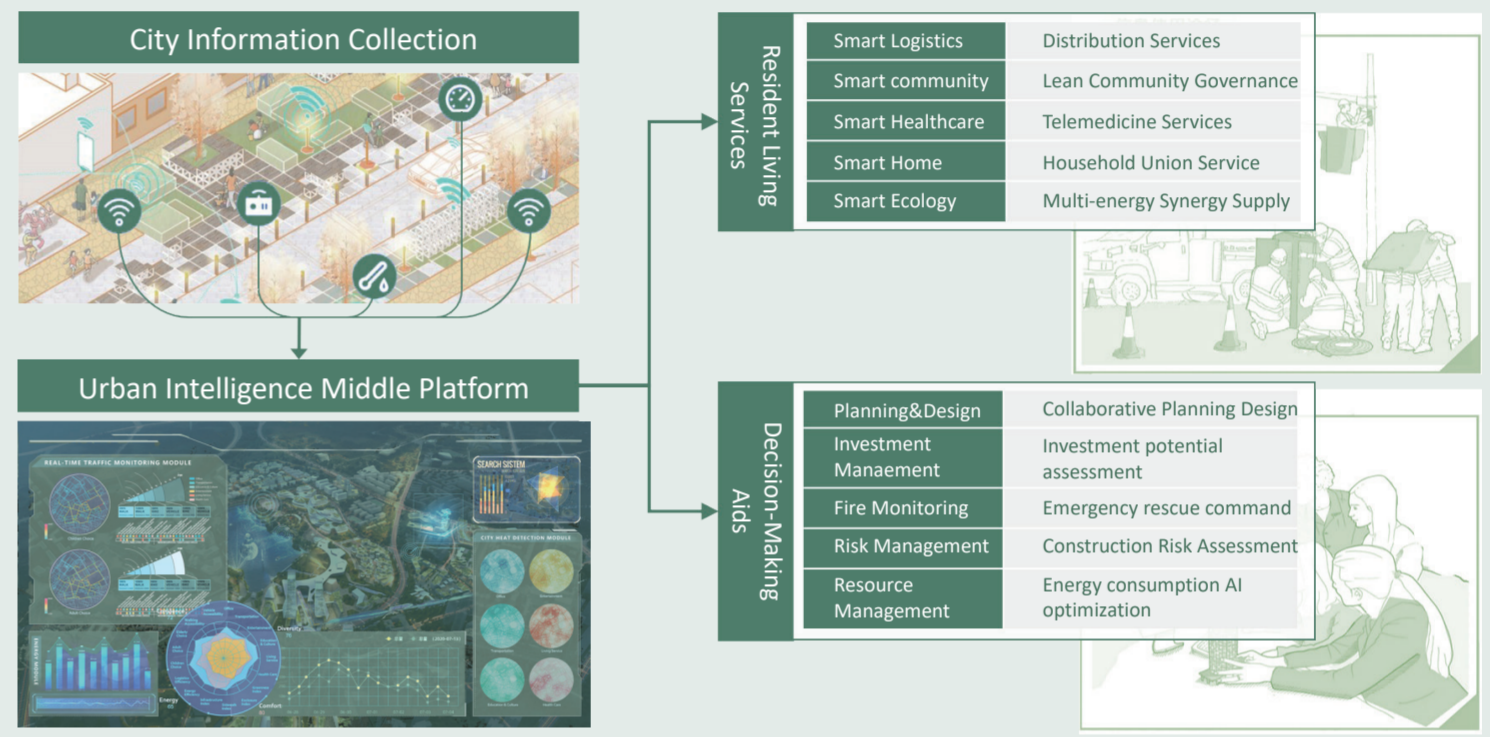- Traffic station
- Home center
- Community center

Allocating essential facilities more efficiently to improve community services.
The critical services concerning further advancement include community culture, education, sports and nourishment, medical and health care, elderly welfare, commercial services, public transportation and other aspects.
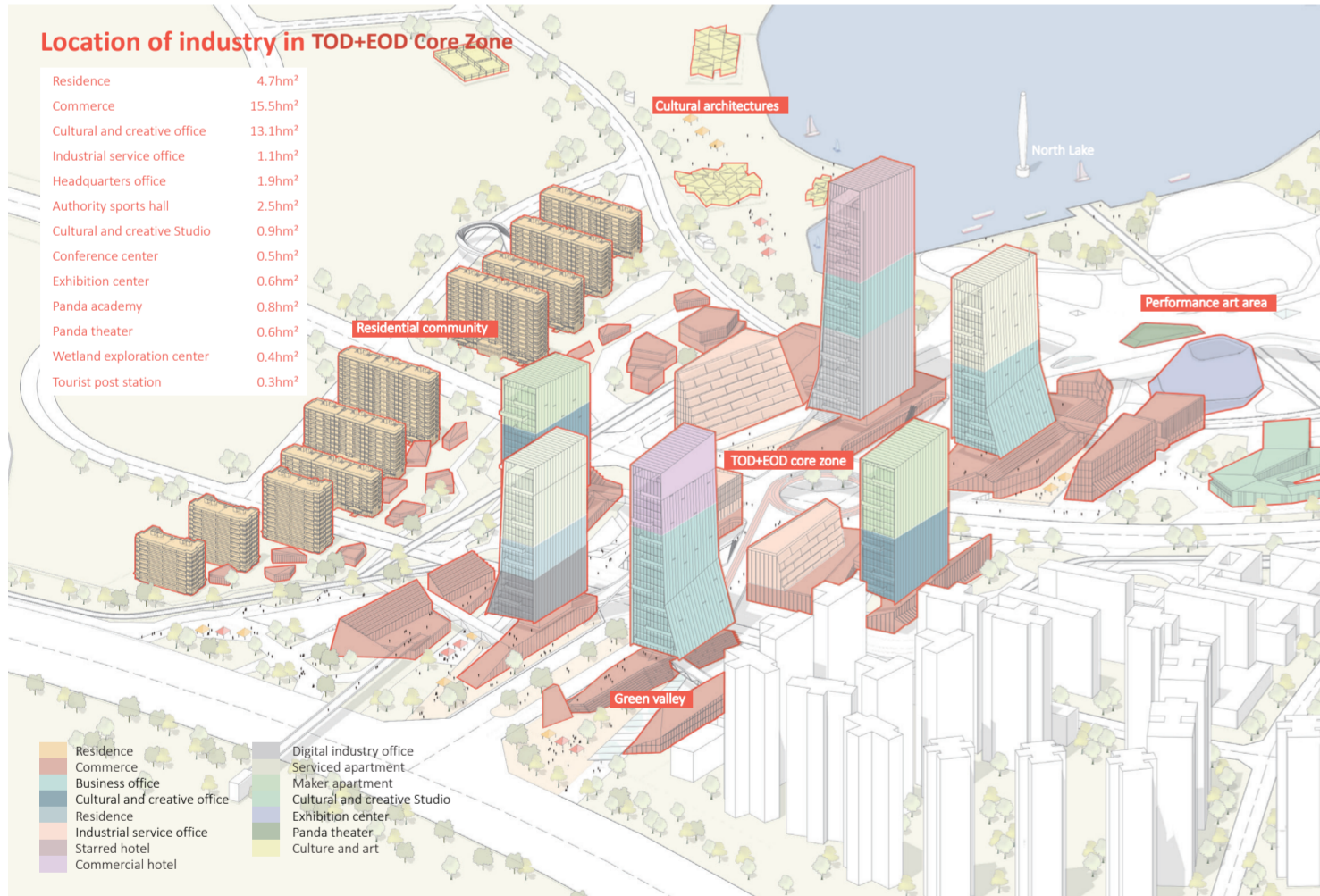
INTELLIGENT INFRASTRUCTURE

The resident side integrates various smart services into the platform, providing residents with convenient and diverse living services. Based on the Internet platform, the decision maker's end provides widely ranged, highly efficient and interactive tools for decision-making.

City Information Collection

Urban Intelligence Middle Platform

Resident Living Services
Smart Logistics	Distribution Services
Smart community	Lean Community Governance
Smart Healthcare	Telemedicine Services
Smart Home	Household Union Service
Smart Ecology	Multi-energy Synergy Supply

Decision-Making Aids
Planning&Design	Collaborative Planning Design
Investment Manaement	Investment potential assessment
Fire Monitoring	Emergency rescue command
Risk Management	Construction Risk Assessment
Resource Management	Energy consumption AI optimization

INDUSTRIAL ECOLOGY

Location of industry in TOD+EOD Core Zone

Residence	4.7nm²
Commerce	15.5nm²
Cultural and creative office	13.1nm²
Industrial service office	1.1nm²
Headquarters office	1.9nm²
Authority sports hall	1.9nm²
Cultural and creative Studio	0.9nm²
Conference center	0.5nm²
Exhibition center	0.6nm²
Panda academy	0.8nm²
Panda theater	0.6nm²
Wetland exploration center	0.4nm²
Tourist post station	0.3nm²

Cultural architectures
North Lake
Performance art area
Residential community
TOD+EOD core zone
Green valley

- Residence
- Commerce
- Business office
- Cultural and creative office
- Residence
- Industrial service office
- Starred hotel
- Commercial hotel
- Digital industry office
- Serviced apartment
- Maker apartment
- Cultural and creative Studio
- Exhibition center
- Panda theater
- Culture and art

Cultivating the core ecosystem with culture, tourism and innovation as its core industries. The core ecosystem includes four innovative industrial spaces: performing space, digital art space, environmental design space and exhibition space. The ancillary ecosystem will assist the production, transformation and dissemination of the innovative industry chain, thus forming a panda-themed economy combining core industries with supporting facilities.

TOD+EOD Core Zone
This neighbourhood combines a transport hub with major industrial offices and business

Creative EOD
This neighbourhood offers a wealth of space for cultural and artistic activities and development, such as independent studios, workshops, etc.

Art EOD
This neighbourhood combines residential functions, facilities and artistic creation, reducing the sense of boundaries and introducing a wider range of services
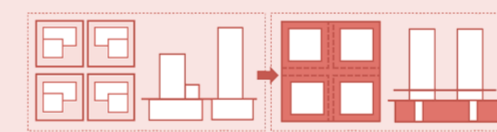

Lake Ring
Cultural and artistic facilities such as museums, art galleries and bookstores in the lake-ring area in combination with green space
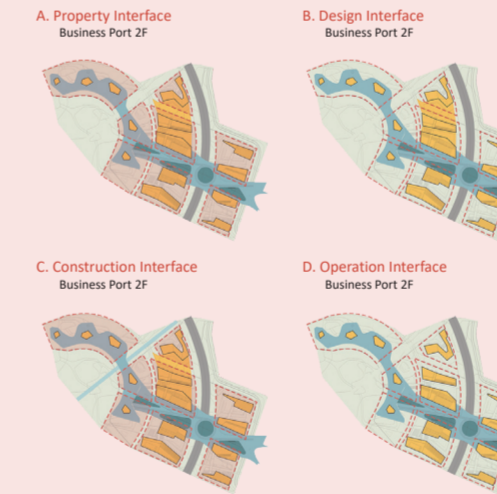

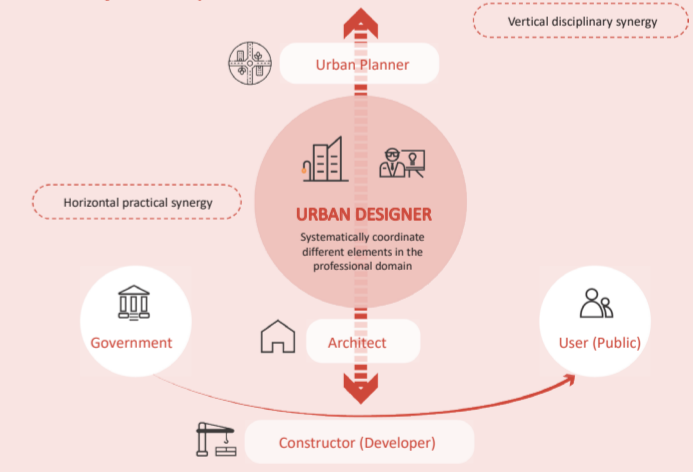# DEVELOPMENT MODEL

Flexible Urban Development

Adopting a strategy of mixed land use to promote flexible urban development.
The division of the property interface is generally based on the upper surface of the basement roof, dividing the development area into an overall underground subdivision and various above-ground subdivisions. **At the same time, the public administration, primary developers and secondary developers are jointly involved in the operation.**

Development Interface

A. Property Interface
Business Port 2F

B. Design Interface
Business Port 2F

C. Construction Interface
Business Port 2F

D. Operation Interface
Business Port 2F

District Construction Platform
Land Transferee

Property Interface:
District construction platform will acquire the right to use the public facilities outside the red line and underground space. The land transferee will acquire the property right of the plots.

Design Interface:
District construction platform will bear on the overall design of public facilities and underground space. The land transferee will design overground part independently.

Construction Interface:
District construction platform will acquire the overall construction of the public space outside the red line and underground space. The land transferee will acquire the construction of overground part inside the red line.

Operation Interface:
District construction platform will bear on the overall operation of public facilities and underground space between plots. The land transferee will take the operation of overground architectures in charge.

Multi-subject Participation

Vertical disciplinary synergy
Urban Planner
Horizontal practical synergy
URBAN DESIGNER
Systematically coordinate different elements in the professional domain
Government
Architect
User (Public)
Constructor (Developer)

EVENT-DRIVEN OPERATION

Northlake Future Neighbourhood will be progressively developed in an event-driven mode, with influential public events such as art seasons, carnivals and community exhibitions, depending on the local artistic community. It provids the public with an unconstrained 24/7 online platform, and activating the urban vitality shared by all.

ARTIST DESIGNER YOUTH CREATOR FAMILY CONSUMER MEDIA WORKERS

Entrepreneurship
Education
Cultural Experience

Time-sharing: Northlake 24 Hours

Communication
Sport & Health
Consumption