城市可持续发展
Urban Sustainability
全球可持续发展
Global Sustainability

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Mobility in the Sustainable Urban Solution

Global Sustainability Must Happen at the City Level
Smart Buildings are Not Enough

Mobility is Part of an Integrated Urban Design Strategy

Multiple Modal Strategies are Necessary to Achieve Effective Urban solutions

Convenience is the Key to Getting People Out of Cars

Urbanity is the Best Strategy for Population Growth
Quality of Life is the Goal
For the fourth year in a row, IBM has performed a comprehensive survey of 8,042 drivers in 20 cities.

The index is comprised of 10 issues: 1) commuting time, 2) time stuck in traffic, agreement that: 3) price of gas is already too high, 4) traffic has gotten worse, 5) start-stop traffic is a problem, 6) driving causes stress, 7) driving causes anger, 8) traffic affects work, 9) traffic so bad driving stopped, and 10) decided not to make trip due to traffic.

Livability

Sustainability

Mobility

= VIABILITY

生命活力
Livability

Sustainability

Mobility

Contact

Carless travel
Multiple uses on single blocks
Surface Connection
Compact land use
Transit-oriented development
Walkability
Linked open spaces

Integrated Transit
Multi-modal transit options
Coordinated transfers
Reduced congestion
High-frequency routes
Congestion pricing
Reduced commute times
Traffic calming
Parking management

Low Carbon Alternates
Natural Trails
Pedestrian Orientation
Bike access and storage
Zero-emissions alternatives
Rideshare programs

Mobility

Livability

Sustainability

Mobility
New City Axis: North - South
有轨电车鼓励高密度发展 Tram Service Encourages Density
Density Analysis with Subway Station Locations
建筑密度分布图(带地铁和有轨电车站点分布)  Density Analysis Map with Subway & Tram
Density Analysis Map on Northern Portion
Density Analysis Map on Northern Portion
步行桥规划 Pedestrian Bridge Plan
中轴绿地公园 Center Axis Green Park
广州琶洲C区总体规划

Pazhou C Zone Detailed Master Plan, Guangzhou
计算容积率建筑总面积
Above Ground Area：4,200,800m²

地面一层面积
Ground Level Area：266,023m²

地下建筑总面积
Below Ground Area：1,204,198m²

地下一层面积 B2 Area：341,382m²

地下二层面积 B2 Area：431,408m²

地下三层面积 B2 Area：431,408m²

地面一层标高为3.5米
Ground 1st FL Elevation 3.5M

地下一层标高为-3.0米
B1 FL Elevation -3.0M
沿珠江航道设置水上4条巴士线
Provide 4 water taxi routes on Pearl River Fairway

水上交通和新客港 Water Transportation & New Passenger Port
水上的士规划 Proposed Water Taxi Plan
Concept: Improved Transit
Concept: Overlapped Map 2

LEGEND
- PROJECT AREA
- SCHOOLS
- OPEN SPACE - EXISTING
- OPEN SPACE - PROPOSED
- RIVERS & CANALS
- EXISTING CANALS WITH NEW LANDSCAPED PATHS
- MAJOR ROADS
- METRO LINES - EXISTING
- METRO LINES - PROPOSED
- LIGHT RAIL LINES - PROPOSED
- RAILROAD LINES
- FERRY CROSSINGS
- WATERFRONT WALKING TRAIL
- MAJOR & MINOR NODES
设计理念：规划公共绿地空间

Concept: New Public Green Space
Concept Diagram
7. Shoreline Design

A

B

Shoreline Concepts: Sea Wall

岸线概念：防洪堤
城市区位分析 Regional Context Map
1. Residential
2. Eco-Tourism
3. Commercial
4. Industrial
5. R & D
6. Public Green Space
7. Protected Green Space
8. Greenspace Connection
9. Lightrail
10. Proposed Metro Stations
11. Nodes

- CBD Node
- High Tech Node
- Eco-Tourism Node
There is a practical upper limit to city size.
Satellite Cities

Main City

Greenbelt, open area

Typical public transit links