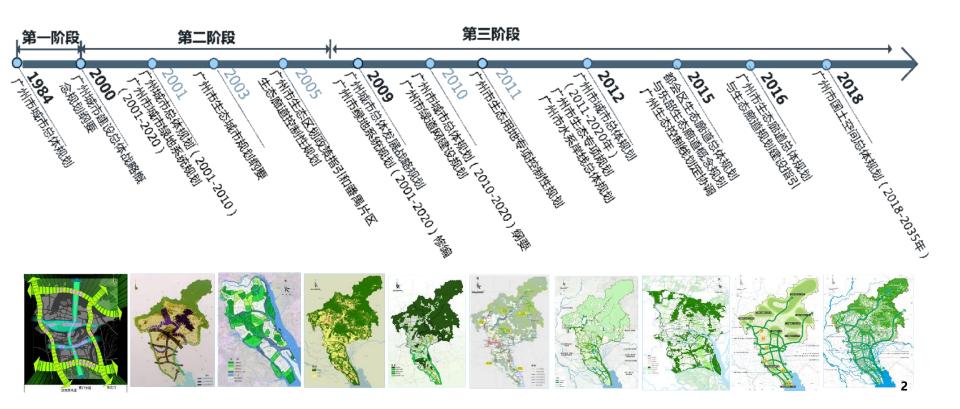
Guangzhou's Green Development and Planning Practice as a Megacity



Eco-space Protection is a Long-term Work in Guangzhou



Promote Green Buildings, Reduce Energy Consumption





Promote Green Transportation

Investing \$2 billion in the electrification of public transportation, with 14,000 new energy buses.

In 2019, Guangzhou's electric buses won the C40 Green Technology Award.



Promote Sponge City Construction

Guangzhou is a demonstration city for China's sponge city construction. With more than 50 demonstration construction projects or areas.













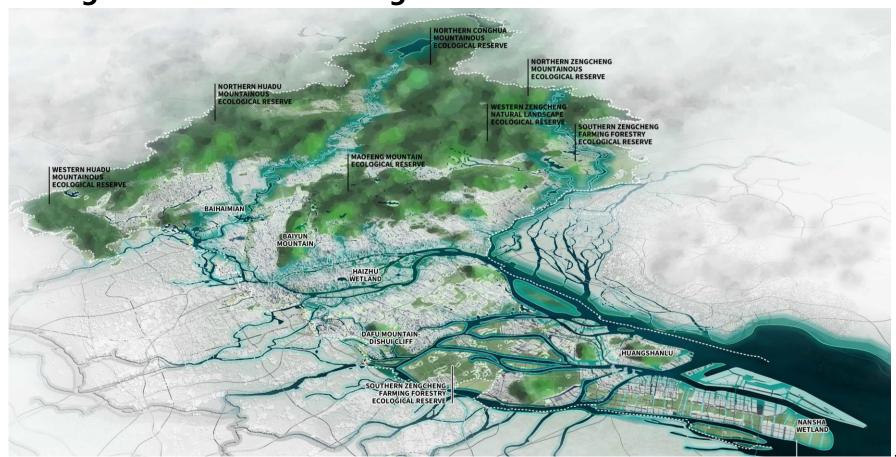






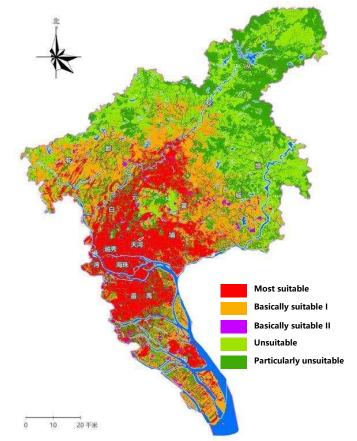
Ecological Protection in 2035 Master Plan

Guangzhou's Natural Cooling Sources



Scientific Ecological Evaluation to Identify the Development Bottom line

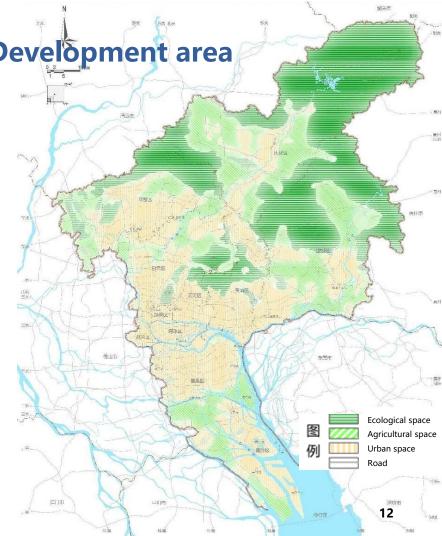
- Evaluating the resources and environment carrying capacity
- Evaluating the land developing suitability



Clarify the Nature Protection and Development area

- Ecological and agricultural space
 - ≥ 2/3
- Urban space

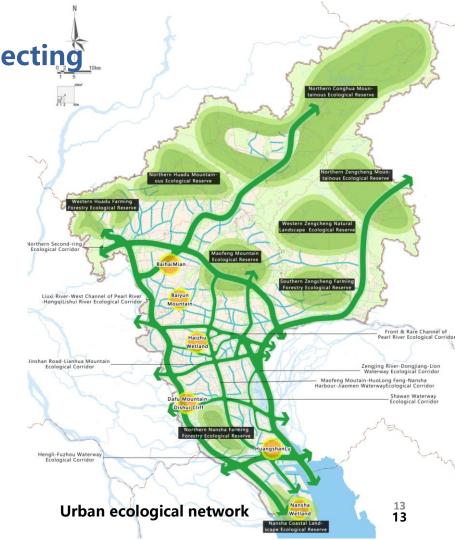
≤ 1/3



Build an Ecological Network Connecting

Mountains, Rivers, and Seas

- **□** 9 important ecological areas
- **□** 5000km ecological corridors
- **□** 6 ecological green cores



Delimit Ecological Red Lines

Strictly protect Ecologically Vulnerable Areas, incorporate them into the ecological conservation red line.



Establish a Nature Reserve System











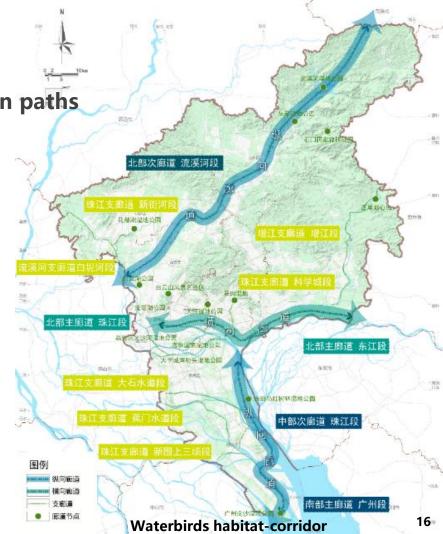


Protect bird flyways

Protect 15 bird habitats and 3 bird migration paths

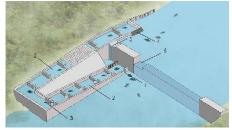




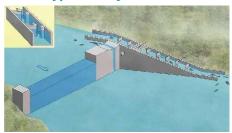


Build Fishways

Build 16 fishways to restore the fish migration ecosystem



Pool-type fishway

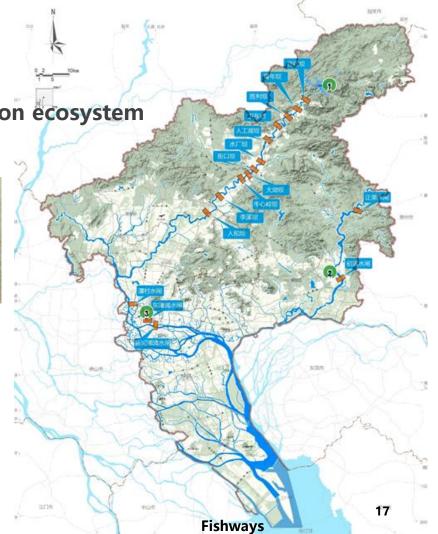


Rock ramp fishway



Trap and transport fishways

Bypass fishway



Improve Parks and Gardens, Enrich Ecological Products

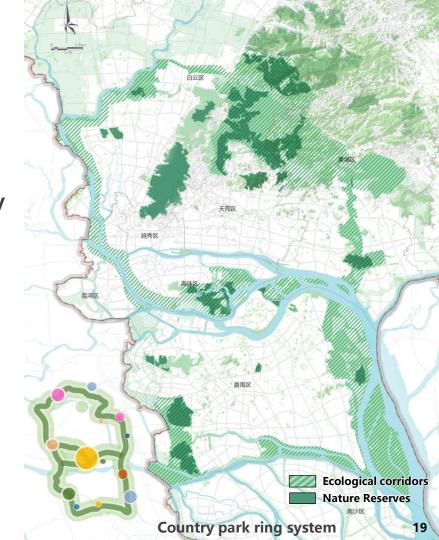
- Increase park service coverage
- Build urban parks
- **■** Improve forest parks



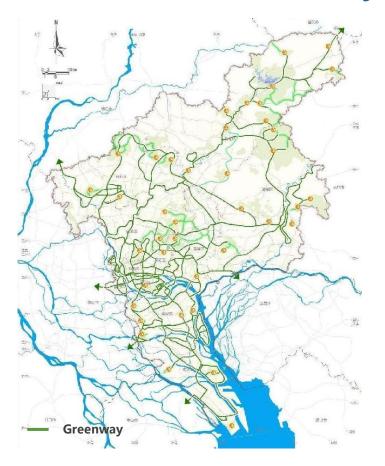


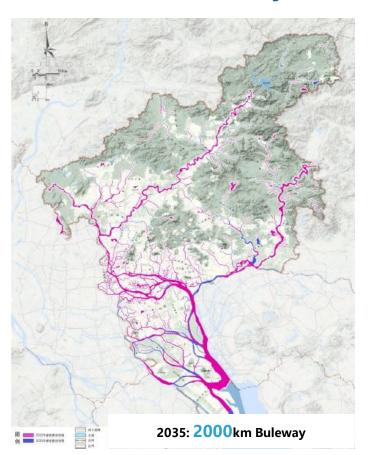
City Green Ring Connecting Countryside and Urban Area

- **□** 180km long and 1km average wide
- □ Connecting 16 suburb parks, form a country park ring system
- □ Provide residents with green access to country parks



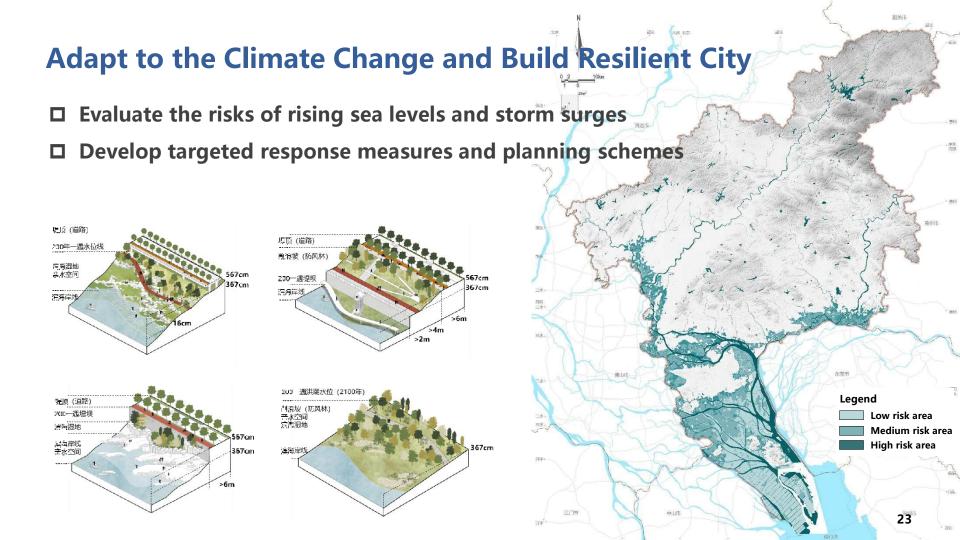
Build a 4,000km Greenway and a 2,000km Blueway

















Construct Ecological Embankment in Nansha

Using the innovative concept of "changing height to width" to the construction of the river dyke, to achieve the triple benefits of hydrophilicity, leisure and landscape





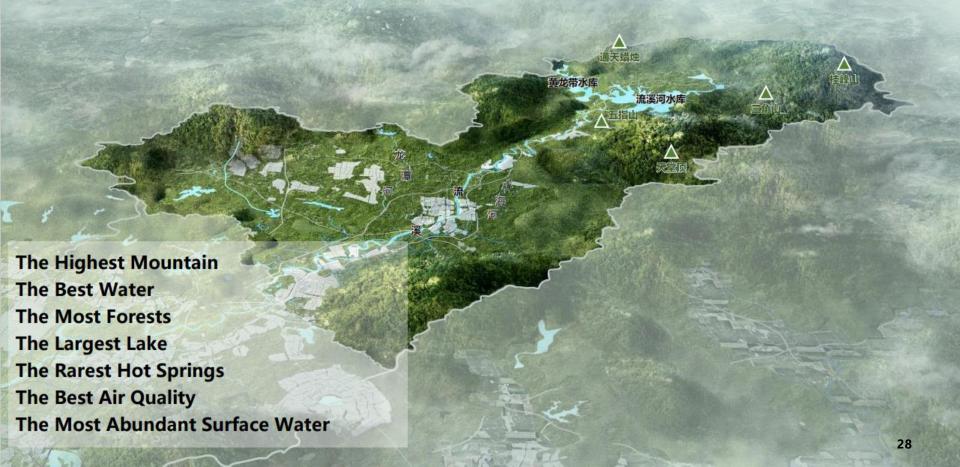
Super dike section design "changing height to width"



66.8 km Pearl Bay Super Dyke

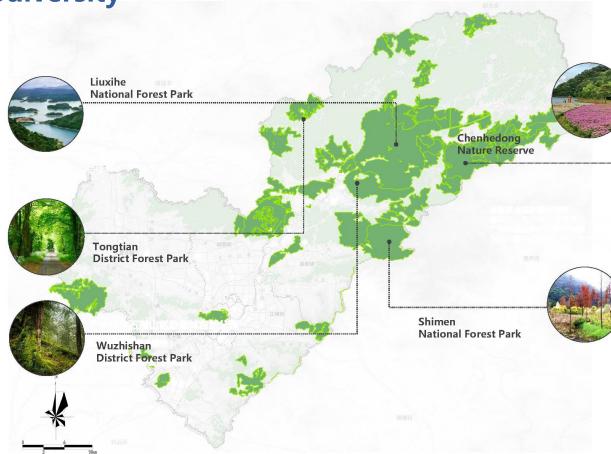
The Dyke of Nansha Bay

Conghua has the most abundant natural asset in northern Guangzhou



Protect the Native Biodiversity

- □ 50% of the area is ecological red line
- Nature reserves to protect biodiversity



Distribution map of protected wild plants in Conghua

Ecological protection compensation

- □ Ecological protection compensation in areas such as forests, farmlands.
- □ Provide ecological productions for all the citizens.



Blueway



Forest park







Rural area

Collaborate with the World Bank on Sustainable Urban Cooling

In 2020, Guangzhou was selected as the first pilot city to carry out the "China Sustainable Urban Cooling Project".

Pilot Tasks

Assist Guangzhou in selecting **cooling strategies** that can be integrated into urban planning.

Select and carry out **pilot projects**.

Help Guangzhou share experiences and knowledge with cities at home and abroad.



世界银行驻华代表处 World Bank Office, Beijing

February 19, 2020

Guangzhou Municipal Government People's Republic of China Fax: 86-20-83340347

China Sustainable Urban Cooling Pilot Project in Guangzhou

On behalf of the World Bank, I am pleased to inform the Municipal Government that Guangzhou has been selected as pilot city for a World Bank funded China Sustainable Urban Cooling Project. This project, which was approved by the World Bank's Energy Sector Management Assistance Program (ESMAP) late last year, aims to (i) assist the city of Guangzhou to identify cooling strategies to be incorporated into urban planning; (ii) carry out pilots in the selected sites; and (iii) help share the experience and knowledge with cities in China and other countries. The specific activities to be financed are included in the annex to this letter.

The proposed work directly links to the ongoing preparation of a World Bank's technical support program to China on sustainable cities, which includes components on land use planning to address urban heat island effects. This program includes the establishment of a knowledge exchange platform connecting cities in China and around the world. It is our hope that the work to be carried out in Guangzhou will provide valuable insight to be shared on this platform.

We are excited about working with the city of Guangzhou and looking forward to strengthening our collaboration.

Yours sincerely,

Francis Ghesquiere Practice Manager

Urban and DRM (East Asia and the Pacific)
Social, Urban, Rural and Resilience Global Practice

Join the World Bank Cities for Biodiversity Network

Participate in the World Bank C4B Urban Biodiversity International Seminar.



Collaborate with cities around the world

Green Cities--integrating urban greening and ecology into urban
and community planning.

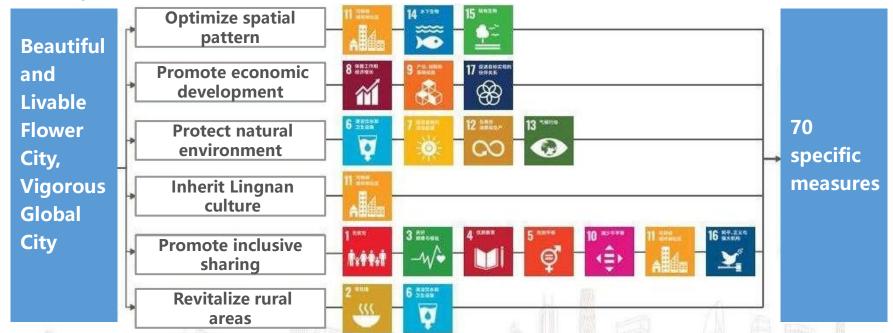


Share Guangzhou's experience

UN's SDGs 2030 Voluntary Local Reviews

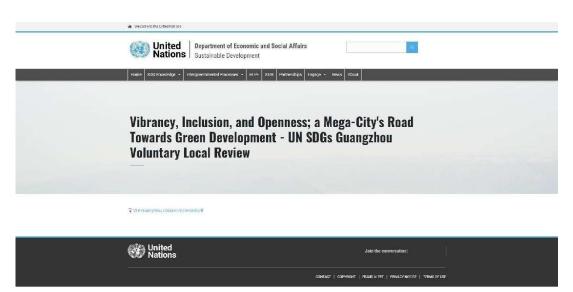
Development vision: Beautiful and Livable Flower City, Vigorous Global City

6 urban strategy and 70 specific measures aligned with the 17 Sustainable Development Goals

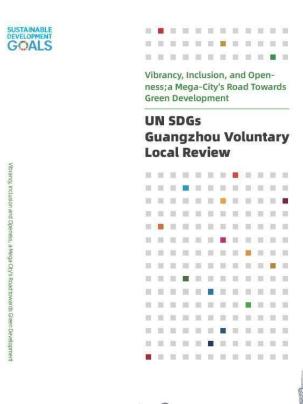


Submit UN SDGs Guangzhou Voluntary Local Review

In 2021, Guangzhou Voluntary Local Review was published on the United Nations website's sustainable development column.



https://sdgs.un.org/topics/voluntary-local-reviews





Strategy beyond 2035 Nature positive, Green growth

A nature and biodiverse city

1 Biodiversity network





A clean and low-carbon city









A resilient and livable city



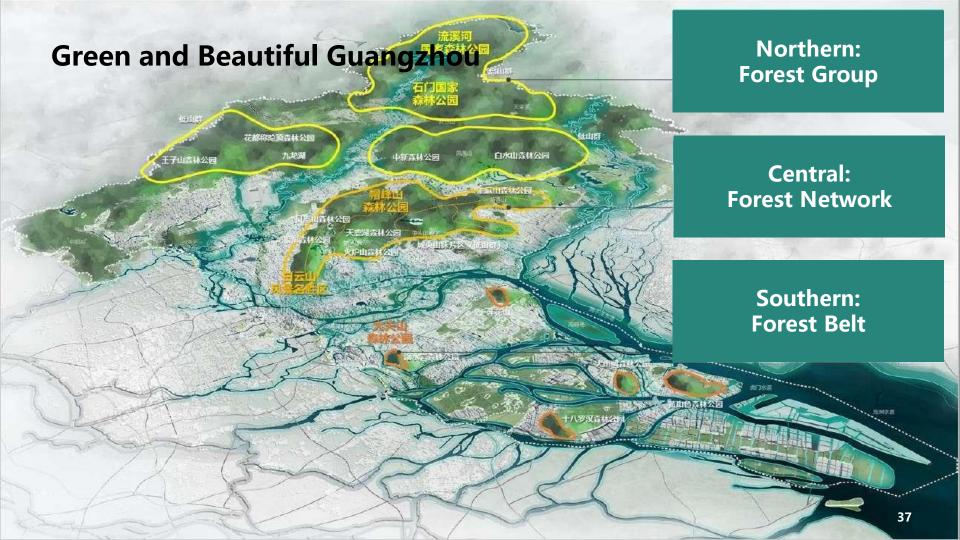




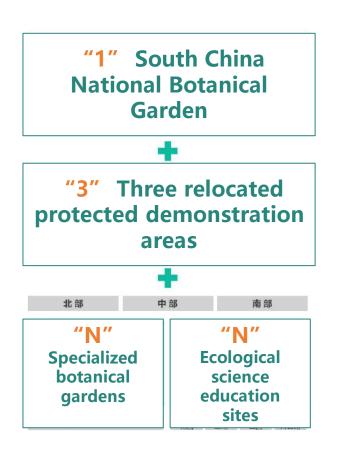
A greener and vibrant city







Build South China National Botanical Garden System





Thank You!