



Vancouver



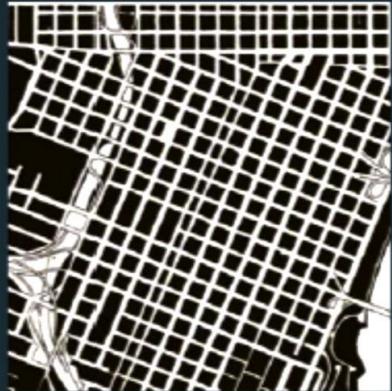
New York



San Francisco



Philadelphia



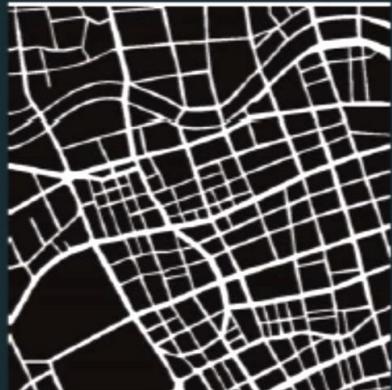
Portland



Barcelona



Beijing



Shanghai



Tokyo



United Nations Framework
Convention on Climate Change

Climate Mitigation in Guangzhou, China

0 500 1000 m



Solutions
Hub

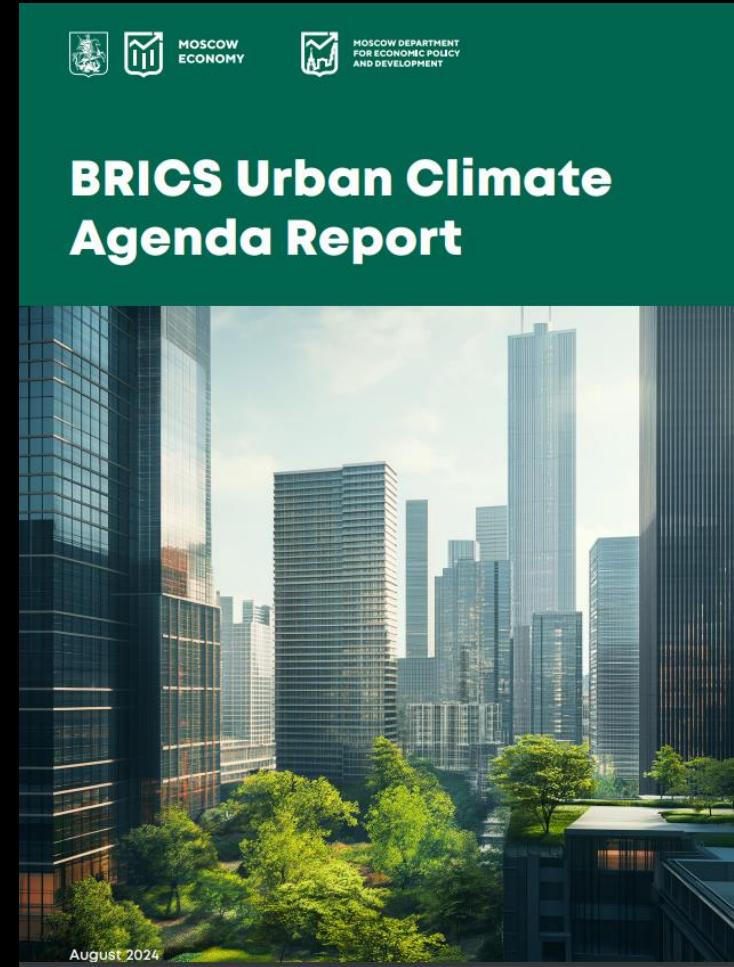
Sharm
el_sheikh
5 October
2024

Nicholas.you@citistates.com

Figure-ground studies demonstrating the use of an 'Urban Network' in famous cities
through the world

The BRICS Climate Agenda Report

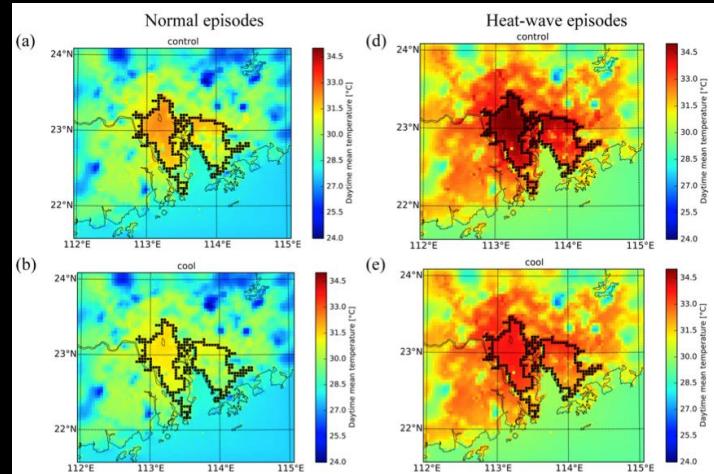
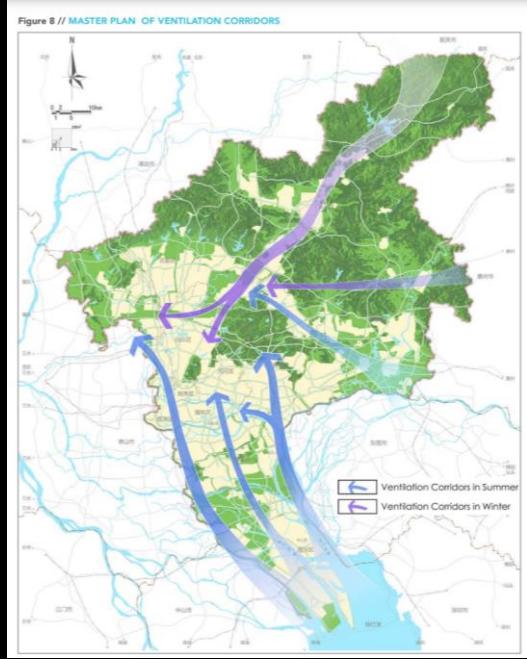
- Assesses climate change efforts of cities in the BRICS countries.
- Analytical toolbox for city governments, experts and all stakeholders of climate agenda.
- Analyzes five **key areas** related to **greenhouse gas emissions** in cities:
 - Energy Sources
Carbon intensity of the electricity consumed by the city
 - Energy Consumption
Electricity intensity of city's GDP
 - Transport
Use of clean means of transport
 - Green Spaces
Area of green spaces in the city
 - Waste
Waste generation and waste management system



Guangzhou – World Bank Pilot Cool City Action Plan (2021-)

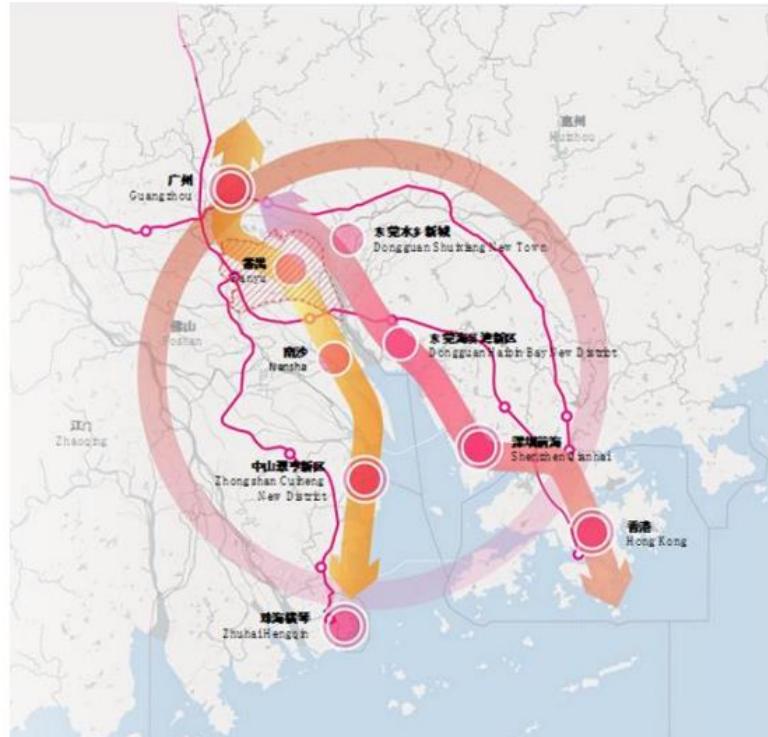
Using nature-based solutions to combat heat island effect and reduce energy consumption

- Vertical greening
- Cool roofs
- Channeling wind flows
- Comprehensive urban greening, sponge city and ecological wetland belt



Guangzhou's Ecological Belt and Green Infrastructure Plan

A Strategic Node on the Greater Bay Area in China



Guangzhou:
Population: 18+ million in 2022
Area: 7434 km²

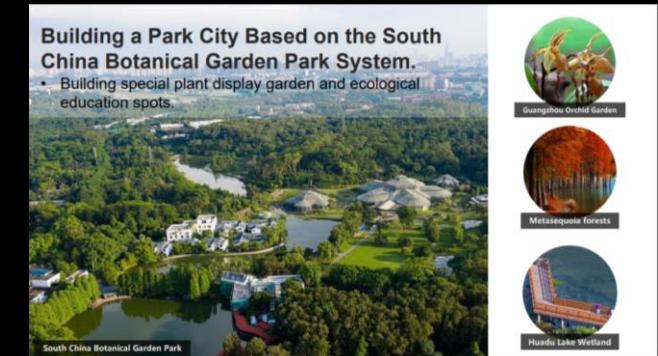


2000km waterways system, a variety of waterfront recreation spaces

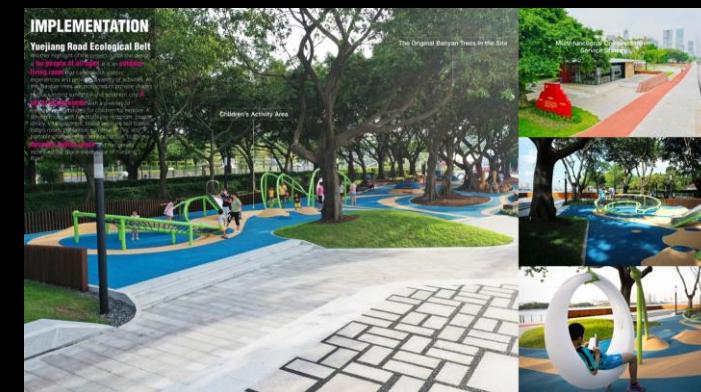


Building a Park City Based on the South China Botanical Garden Park System.

- Building special plant display garden and ecological education spots.



Guangzhou's Ecological Belt and Urban Greening Plan



Guangzhou's Public EV Strategy



Area:
7,434.4 km²



Population:
18-20 million



Metro ride:
8.68 million/day



Bus ride:
6.13 million/day



Guangzhou's Public EV Strategy

11,310

electric public buses in operation (2019-2020)

4,913

specialized charging piles installed (2019)

20,000

public service vehicles (2020-2021)

20,000

public service vehicles (2022-2023)

>50% new car sales are EVs (a.o. July 2024)

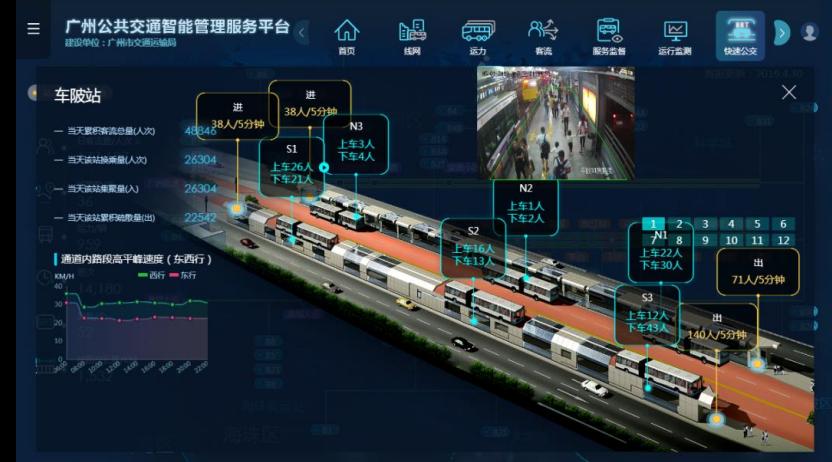


Intelligent integration using real-time data analytics

Guangzhou's Public EV Strategy



Transportation capacity analysis



Passenger flow analysis and smart roads



Charging situation analysis



Warning information analysis

Guangzhou's Public EV Strategy

Putting
people's
safety,
comfort
and ease
of use first



Interactive command & control center



Passenger feedback



Passenger comfort



Bus on demand

Fushan Circular Economy Industrial Park

- Serving 22 million inhabitants
- Zero waste to landfill
- Safe disposal of 30k tons of waste per day
- Safe disposal of 78k tons hazardous waste p.a.
- 200+ enterprises involved in recycling and reuse
- 540 million Kwh electricity p.a.
- Site is near zero emissions and is part of educational curricula



Some concluding observations



- Putting people first
- Push for high standards and excellence
- Partnership approach
- Educational approach
- Innovative solutions increasingly involve both mitigation and adaptation