

# Zero-Carbon Park: Demonstration, Standards, and Implementation



# Industrial parks are the key to achieving dual carbon goals



数据来源: 前瞻产业园库

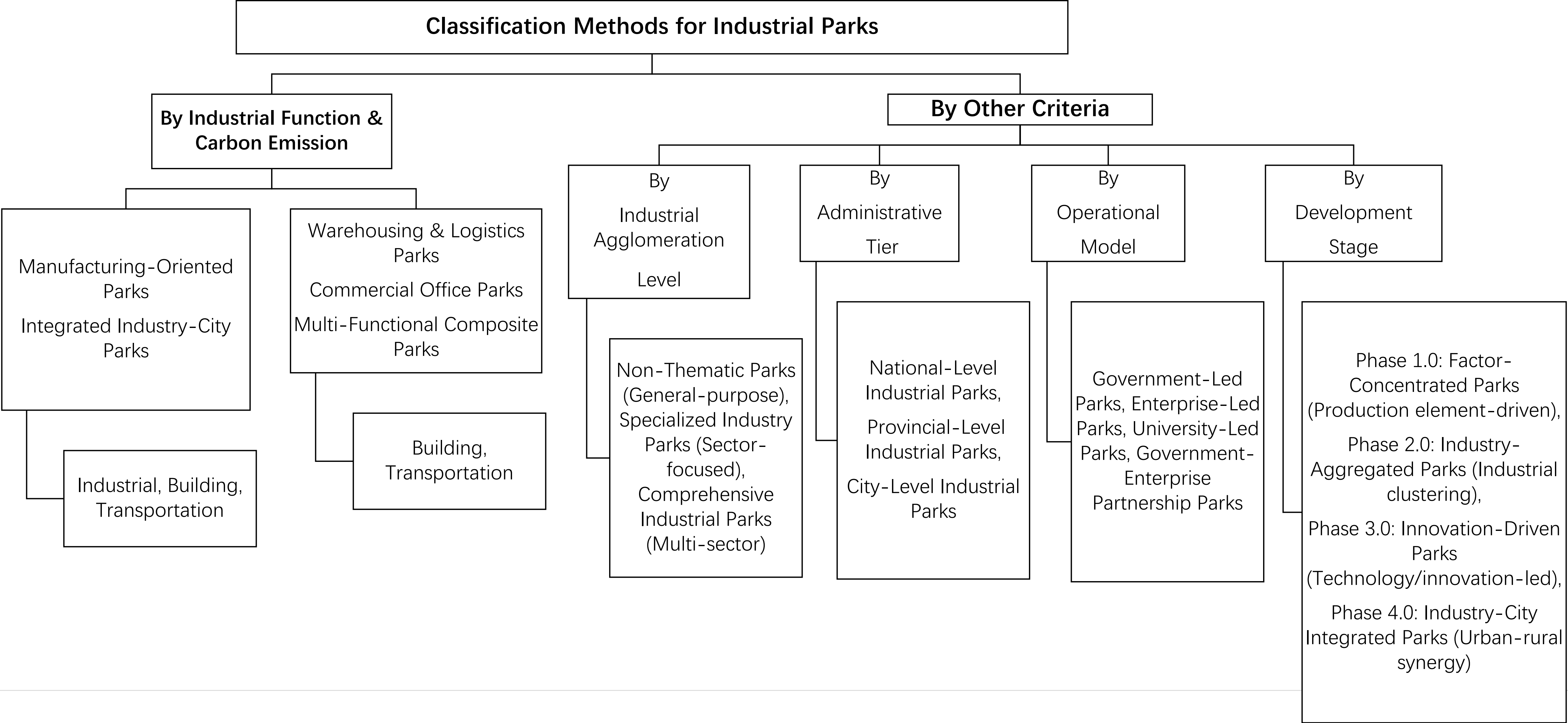
There are more than 77,000 industrial parks in the country, of which industrial parks account for nearly 30%.

Industrial parks contribute more than 50% of the country's industrial output value and about 31% of carbon emissions.

# Zero-Carbon Parks must ultimately aim for carbon neutrality within their boundaries

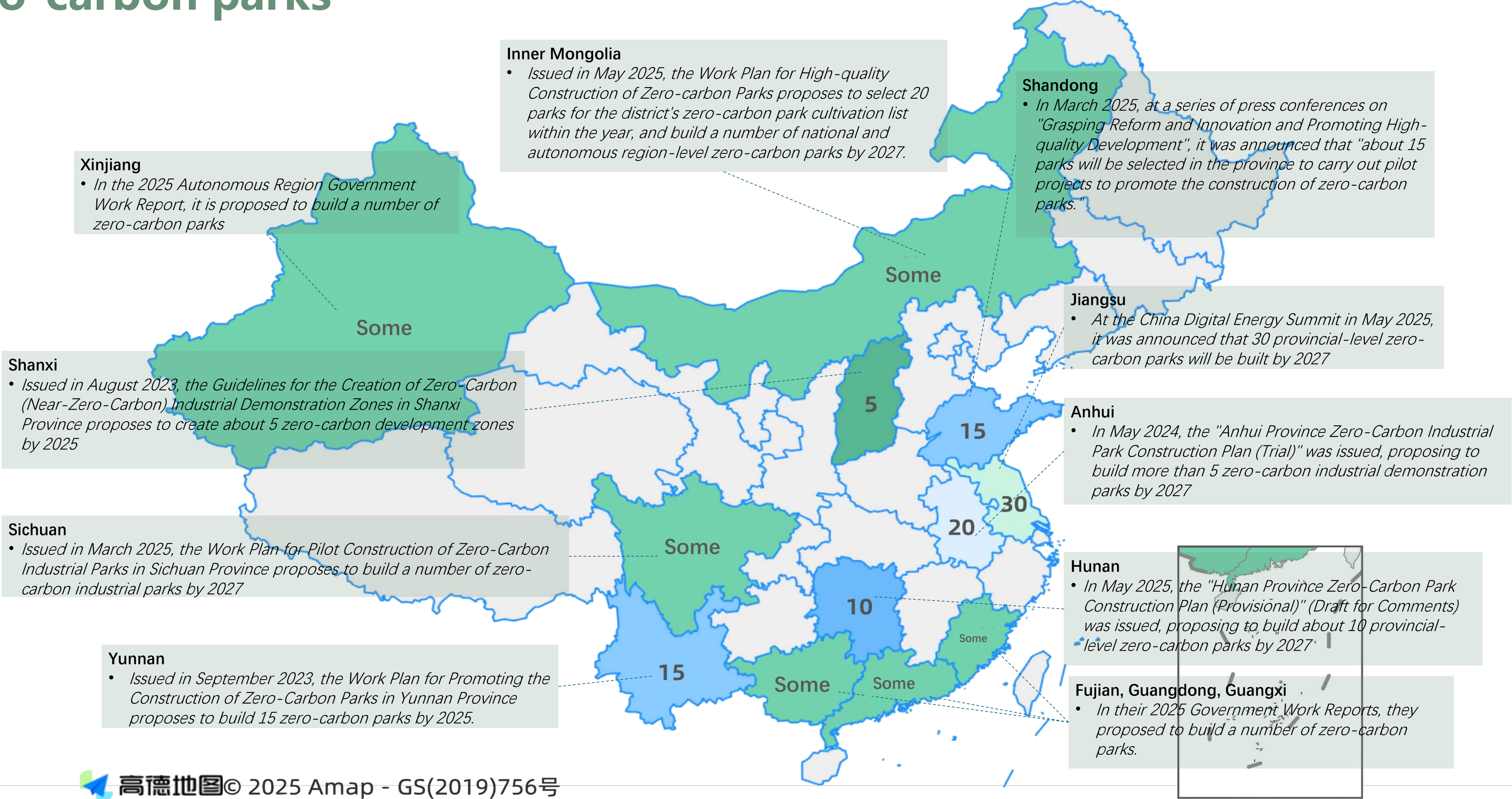


# Different parks, different paths





# Provinces put forward medium- and long-term goals for zero-carbon parks





# Construction plans and evaluation standards for zero-carbon parks



# Zero-carbon parks require integrated multi-dimensional coordination



## Energy

*Energy use structure: renewable energy utilization rate, total coal consumption, and direct green power supply*

*Green energy applications: PV-Storage-Charging/PV-Storage-DC flexible systems deployment, "source-grid-load-storage" integration, and power demand response capabilities*



## Building

*Green buildings: the proportion of green buildings, the proportion of floor area occupied by near-zero energy/zero energy buildings/the proportion of total construction area, etc.*

*Energy-saving renovation: energy-saving renovation of existing buildings, etc.*

*Renewable energy utilization: the proportion of photovoltaic coverage of building roof area, etc.*



## Transportation

*Transportation: the proportion of energy-saving and new energy vehicles in operation, the proportion of new energy transportation and logistics transportation vehicles, etc.*

*Infrastructure: the proportion of charging pile facilities, the coverage of new energy transportation infrastructure, the proportion of green lighting in public facilities or roads, etc.*



## Industry and production

*Industrial structure: per capita industrial added value, the proportion of strategic emerging industries and high-tech enterprises, and the proportion of green industry added value to the industrial added value of the park*

*Industrial energy efficiency: energy consumption of general-purpose terminal energy equipment, carbon dioxide emission intensity reduction rate of industrial added value, comprehensive energy consumption per unit of industrial added value, etc.*

*Green manufacturing: the proportion of green factories, the proportion of zero-carbon factories, green products, green supply chain enterprises, etc.*

*Technological innovation: enterprise zero-carbon process upgrading, green and low-carbon technology research and experimental development investment intensity, etc.*



## Resource

*Solid waste: comprehensive utilization rate of industrial solid waste, classification and collection rate of domestic waste, etc.*

*Water: industrial water reuse rate, reclaimed water reuse rate, etc.*

*Waste heat, waste pressure, waste cooling, waste pressure utilization rate, waste energy recycling rate, etc.*



## Ecological environment

*Ecology: green space coverage*

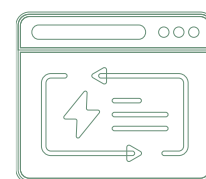
*Environment: centralized sewage treatment facilities, solid waste disposal facilities, and rainwater collection facilities*



## Carbon offset, carbon capture

*Carbon capture: carbon capture, utilization, and storage projects, etc.*

*Carbon offset: carbon offset ratio, carbon credit procurement, proportion of self-developed carbon emission reduction, etc.*



## Operations management

*Management: the establishment of energy and carbon emission monitoring and management platforms, the establishment of intelligent management platforms, etc.*

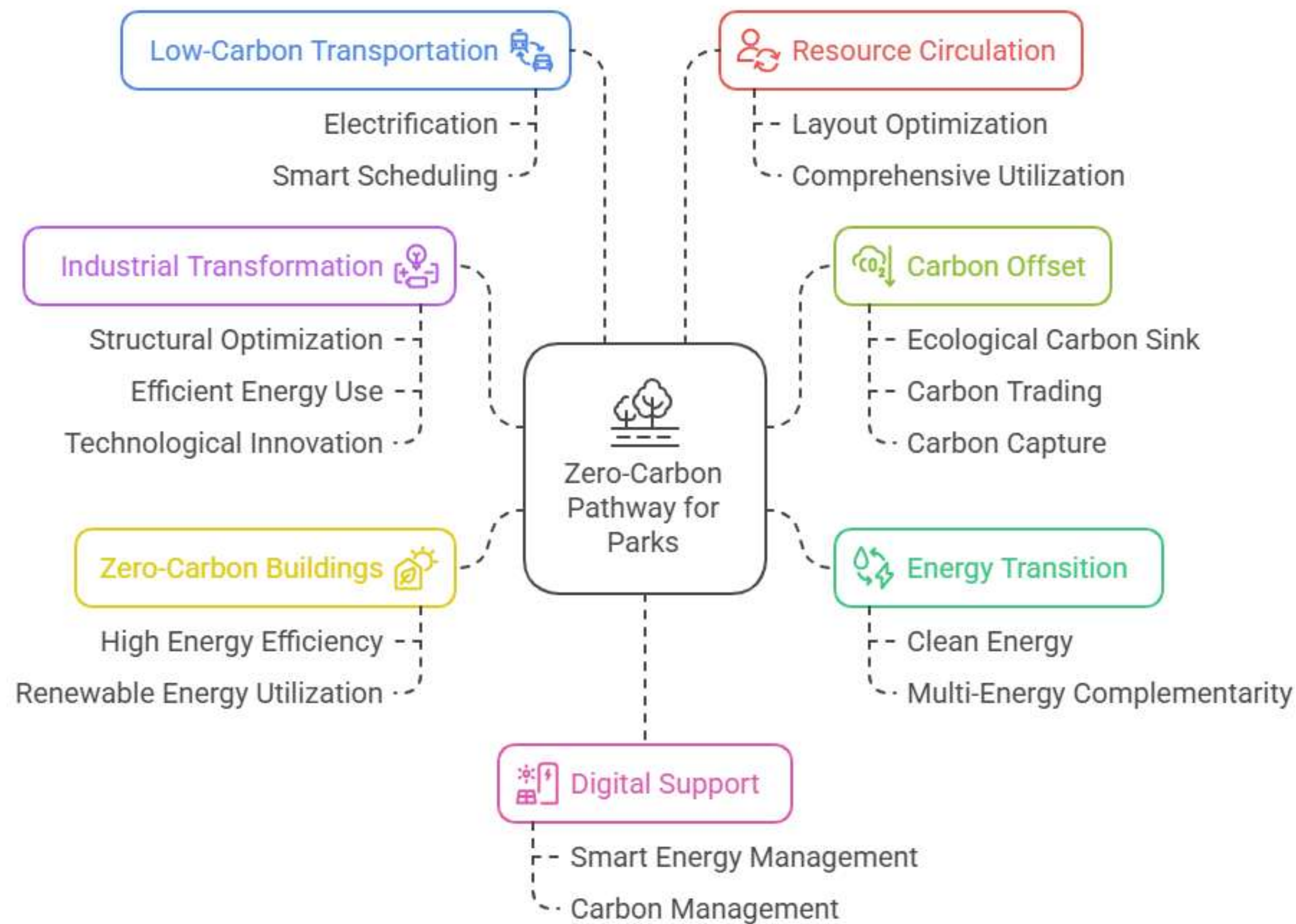
*Statistical accounting: greenhouse gas emission management system, carbon emission statistical accounting and assessment system, the proportion of enterprise greenhouse gas inventory, and the proportion of enterprises carrying out carbon footprint accounting and certification.*

*Information disclosure: environmental information disclosure of enterprises above designated size, etc.*

*Incentive mechanism: special policies/funds for zero-carbon development, carbon inclusive incentive mechanism, etc.*



## Zero-Carbon Pathway for Parks



Made with Napkin



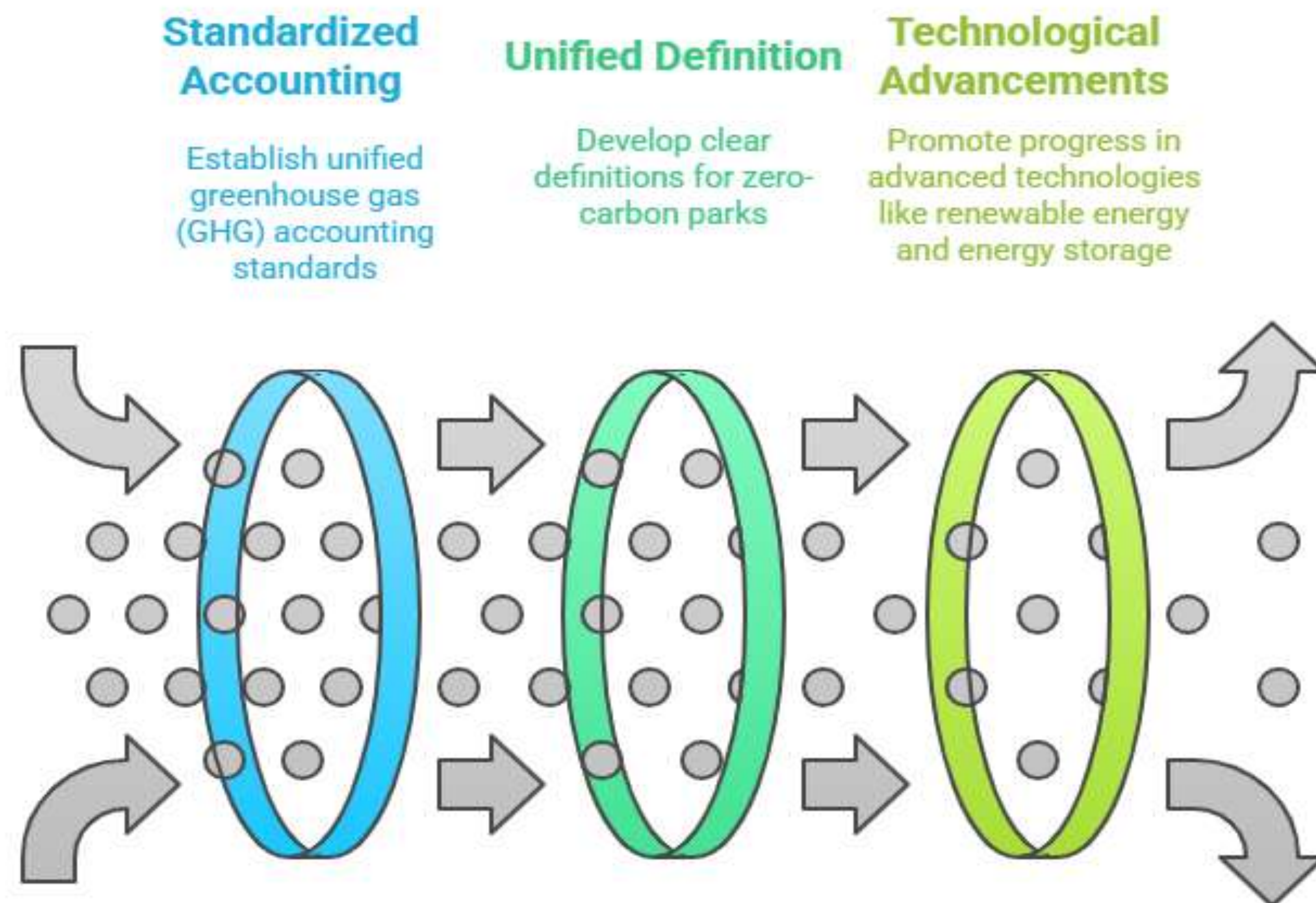
# Local Practices of Zero-Carbon Parks



Made with Napkin



# Challenge & Advice





# Thank you!

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