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Table S1. Economic city profiles of 11 cities in GPRD in municipal 12th Five Year Plan.

City	Profile Numbers	Economic City Profiles	Economic City Profile Types
Hong Kong	1	the global financial centre (Policy address 2011)	service city
Macau	3	a world travel and leisure city (Policy address 2011)	Tourism city
		a city of pluralistic cultural heritage and sustainable development	Sustainable city
		a city of quality living, with a healthy social atmosphere, a contented society	Liveable city
Guangzhou	7	International Trade Center	service city
		World Famous cultural City	service city
		National Innovation City	innovation city
		Comprehensive Portal City	
		A Perfect City in Guangdong Province	
Shenzhen	5	International Metropolis	
		National Center City	
		National Innovation City	innovation city
		City for People's livelihood and Happiness	
		National low-carbon Eco Model city	low carbon city; eco city
Foshan	6	Model City of Socialism with Chinese characteristics	
		Modern International Advanced City	
		Advanced Manufacturing Base	advanced manufacturing city
		Service Center for Industry	service city
		Ling-nan Cultural City	tourism city
Dongguan	4	Beautiful and Wealthy Home	
		Garden City	eco city
		Green Model City	eco city
		Modern Manufacturing City	advanced manufacturing city
		Innovation & Enterprises Livable Eco-city	innovation city; liveable city; eco city
Jiangmen	2	Emerging Logistics City in the PRD	service city
		National Famous Historical and Cultural City	tourism city
		Selective Area for Advanced Manufacturing in the PRD	advanced manufacturing city
Zhongshan	3	Livable Eco Model city	liveable city; eco city
		Livable city suitable for Innovation & Entrepreneurship	liveable city; innovation city
		Harmonious Zhongshan	
		Livable city	liveable city
		Famous Cultural City	tourism city

Huizhou	4	Innovation Huizhou Low-carbon Huizhou Cultural Huizhou Harmonious Huizhou	innovation city low carbon city tourism city
Zhaoqing	5	Active Zhaoqing Legal City Cultural Zhaoqing Eco Zhaoqing A city with happiness	tourism city eco city
Zhuhai	2	Core City in Pearl River West Bank Model City for Happiness in Guangdong	

Table S2. Economic city profiles of nine cities in GPRD in municipal 13th Five Year Plan.

City	Profile Numbers	City Profiles	Economic City Profile Types
Hong Kong	2	Innovate for the Economy (Policy Address 2016) Improve Livelihood (Policy Address 2016)	innovation city liveable city
Macau	8	World tourism and leisure center Travel City Livable City Healthy City Smart City Cultural City Legal City City with Good Urban Governance	tourism city tourism city liveable city smart city tourism city
Guangzhou	6	National Center City International shipping center Logistics Center Trade Center Modern financial service system and National Innovation Centre City	service city service city service city service city innovation city
Shenzhen	6	International Innovation City an Economic Zone in Reform and Opening Up with a More Influential Role National Innovation Demonstration Zone National Economic center International City City for People's livelihood and Happiness	innovation city innovation city
Foshan	10	the first tier manufacturing city in China a city with the largest private economy in Guangdong the leading city of equipment manufacturing industry in the West Bank of PRD a pioneer in innovation-driven city a model city of industrial upgrading industrial financial center city a leading city where the value chain of enterprises transferring from manufacturing to services an important node in regional integration development a model city for ecological restoration the forefront city of the institutional mechanism reform	advanced manufacturing city advanced manufacturing city innovation city advanced manufacturing city service city eco city
Dongguan	2	Innovative City be a node city in "One Silk One Road" area	innovation city

Jiangmen	7	an "open door" in a new round of reform and development a "convenient bridge" to connect western Guangzhou with the PRD a "radiation area" to Western Guangzhou, Guangxi and even the Southwest a new economic center, innovation center, and urban center in West Bank of the Pearl River a capital of overseas Chinese culture	innovation city tourism city
Zhongshan	4	an idea city in the Pearl River Bay Area a regional transportation hub in the West Bank of PRD an important innovation and technology center high-end industrial agglomeration area	innovation city advanced manufacturing city
Huizhou	2	National Innovative City an important node city in National Innovation Demonstration Zone in the PRD	innovation city innovation city
Zhaoqing	7	a node or portal city the integrated transport hub and services center in the connection between PRD and Southwest China the manufacturing base in the PRD an important node in national innovation demonstration zone the attractive place in PRD for high-quality companies in southwest region the demonstration area for national low-carbon eco development the ideal livable city in the PRD	service city advanced manufacturing city innovation city low carbon city; eco city liveable city
Zhuhai	4	International Innovative City Livable City National Forest City demonstration city for national ecological civilization	innovation city liveable city eco city eco city

Table S3. Economic city profile number and types of the GPRD cities in municipal Urban Master Plan.

City	Profile Numbers	City Profiles	Economic City Profile Types
Hong Kong	2	Asia's World City (The HK2030 Planning Vision and Strategy) Sustainable development	sustainable city
Macau	3	Travel livable City (Macau Conceptual Planning 2007) Sustainable Development Capital (Macau Conceptual Planning 2007) World Vibrant City (Macau Conceptual Planning 2007)	liveable city sustainable city
Guangzhou	8	National Center City National Historical and Cultural City International Commercial center External Exchange Center A Leading City among livable urban and rural areas in Guangdong International Metropolis Comprehensive Transportation Hub South International Shipping Center	tourism city service city service city service city service city

Shenzhen	8	Special Economic Zone	
		National Economic Center	
		International Metropolis	
		National Comprehensive Reform Pilot Area	
		International financial, trade and shipping center under the "One country Two systems " framework with Hong Kong	service city
		National High-tech Industrial Base and Cultural Industry Base	advanced manufacturing city; service city
		Important National Integrated Transport Hub and Border Crossings	service city
		Famous International Tourist City	tourism city
Foshan	4	Advanced Manufacturing Base	advanced manufacturing city
		Service Center for Industry	service city
		Ling-nan Cultural City	tourism city
		Beautiful and Happy Home	tourism city
Dongguan	5	PRD Regional City Center	
		National Major IT Research and Development and Industrial Base	advanced manufacturing city
		Modern City	
		Light Industrial Products Manufacturing Center	
		Major Information Technology R&D and Production Base	advanced manufacturing city
		Selective Area for Electrical Energy, Advanced Manufacturing in PRD	advanced manufacturing city
		Livable Eco City with Overseas Chinese Characteristics	eco city; livable city
		Important City in the West of PRD Economic Zone	
Jiangmen	7	One of city centers and gateways in the west of the PRD	
		A Waterfront City with Modern Manufacturing, Trade logistics and Cultural Tourism	advanced manufacturing city; service city; tourism city
		Regional Transport Hub	service city
		Cultural City with the representation of "Wuyi culture"	tourism city
Zhongshan	4	Model City of Coordinated Development with Economic, Social, and Environmental Resources	eco city
		Livable Eco City for Entrepreneurship	eco city; livable city
		High-tech Industry and Modern Manufacturing Center	advanced manufacturing city
		Tourism city as the hometown of SunYat-sen	tourism city
		Tourism City	tourism city
		Famous Historical and Cultural City	tourism city
		Civilized City	
		Livable City	livable city
Huizhou	9	Petrochemical Base	advanced manufacturing city
		Important Electronic Information Industry; Light Manufacturing Cluster in South China	advanced manufacturing city
		Coastal city; Tourist city and a Historical and Cultural City; an Important Holiday Resort	tourism city
		One of City centers in the PRD	
		Important Regional Transport Hub	service city

Zhaoqing	5	Tourism Garden city	tourism city
		Ecological Landscape City	eco city
		Modern Industrial City for Start-ups	innovation city
		Local City Center in Guangdong Province	
		National Tourist city and a Historical and Cultural City	tourism city
Zhuhai	14	SAR with Ecological Civilization	eco city
		Model City in Scientific Development	
		International Liveable City	livable city
		Beautiful Model City in China	
		Special Economic Zones	
		Core City in Pearl River West Bank	
		International Business Travel resort; Coastal Tourist City	tourism city
		National Innovation-type SEZ	innovation city
		International Business Travel Holiday	tourism city
		Demonstration Area for the Cooperation among Guangdong, Hong Kong and Macau	
		a Modern Service Center in the West Bank of PRD	service city
		Strategic Manufacturing Base	advanced manufacturing city
		Research and Education Base; Technology Innovation Center	advanced manufacturing city
		Regional Transport Hub	service city

Table S4. Economic city profiles of nine cities in GPRD in municipal Land Use Plan.

City	Profile Numbers	City Profiles	Economic City Profile Types
Hong Kong	1	a livable high-density city	Liveable city
Guangzhou	3	National Center City	
		A Perfect City in Guangdong Province	
Shenzhen	8	International Metropolis	
		A Regional Financial Center	service city
		A Regional Information Center	service city
		A Regional Business Center	service city
		Transportation Center	
		A Regional Tourist Destination	tourism city
		High-tech Industrial Development and Production Base in South China	advanced manufacturing city
		Modern SEZ	
Foshan	2	International City	
		Smart Foshan	smart city
Dongguan	2	National Historical and Cultural City	tourism city
		Regional City Center in the East of PRD	
Jiangmen	1	Modern Manufacturing City	advanced manufacturing city
		Selective Area for Advanced Manufacturing in the PRD	advanced manufacturing city
Zhongshan	1	Modernized City with history of celebrity	tourism city
Huizhou	1	Pilot for synthetically township coordinated development	
Zhaoqing	3	Tourism Garden city	tourism city
		Ecological Landscape City	eco city
		Modern Industrial City for Start-ups	innovation city
Zhuhai	3	Core City in Pearl River West Bank	
		Model City in Scientific Development	
		SAR with Ecological Civilization	eco city

Table S5. Economic city profiles of nine cities in Provincial Urban Master Plan.

City	Profile Numbers	
Guangzhou	6	National Center City State-level historical and cultural city Comprehensive gateway city and regional cultural and educational center Guangdong Province, the political, economic and cultural center Pearl River Central (Guang Zhao) metropolitan area core city
Shenzhen	6	National economic center of the city National innovation-oriented city National economic zones The country's major transportation hubs and border crossings One of the economic center of Guangdong province in southern China The east bank of the Pearl River Delta (deep Wan Hui) metropolitan area core city
Foshan	4	The country's major modern manufacturing base Lingnan style characteristic of the national historical and cultural city and tourist city Guangzhou-Foshan metropolitan area, deputy central cities Western coast of the Pearl River Delta core area of radiation, the Xijiang River Basin of business, logistics center and transportation hub
Dongguan	3	Provincial historical and cultural city The east bank of the Pearl River Delta important urban centers Export-oriented economy and high-tech industries based modern manufacturing city
Jiangmen	5	National scenic tourist city The famous hometown of overseas Chinese city One deputy central cities of metropolitan areas in the Pearl River Delta in the West Bank and an important gateway to the Pearl River Delta to the western coastal proliferation
Zhongshan	3	National historical and cultural city tourist city PRD deputy central metropolitan areas in the West Bank
Huizhou	4	National scenic tourist city Provincial historical and cultural city PRD deputy central city district east coast city Dongjiang River trade center and transportation hub
Zhaoqing	4	National historical and cultural city and tourist city Pearl River Delta northwest of the central city Leading to the coastal areas of western Guangdong Pearl River Delta Guangdong mountainous northwest and southwest of the major cities traffic online
Zhuhai	4	National economic zones and key entry points The southeast coast of the important tourist city Guangdong Province emerging science and technology base, high-tech industrial base and export base Pearl River Delta in the West Bank (Pearl River) core cities and transportation hubs

Table S6. Economic city profiles of nine cities in Provincial 12th Five Year Plan.

City	Brand Types	
Guangzhou	10	National Center City
		International Trade Center
		World Cultural City
		National innovation city
		Comprehensive gateway city
		Regional Cultural Education Center
		National Capital livable urban and rural areas of the province
		International metropolis
		National Outsourcing Demonstrating City
		National historical and cultural city
Shenzhen	9	National economic center of the city
		National innovation-oriented city
		SEZ
		The National Synthetically Reform Testing District
		Emerging industry an important base
		Demonstration city of socialism with Chinese characteristics
		Advanced modern international city
		National Outsourcing Demonstrating City
Foshan	1	National historical and cultural city
Dongguan	1	National pilot city for Upgrading the processing trade
Jiangmen	0	
Zhongshan	1	Pilot for synthetically township coordinated development
Huizhou	1	Pilot for synthetically townships coordinated development
Zhaoqing	1	National historical and cultural city
Zhuhai	2	regional central city
		regional transportation hub

Table S7. Economic city profiles of nine cities in Provincial 13th Five Year Plan.

City	Types	
Guangzhou	2	National Center City
		Core Pilot Area for Comprehensive Reform Innovation
Shenzhen	2	Innovation City
		National economic center
Foshan	0	
Dongguan	0	
Jiangmen	0	
Zhongshan	0	
Huizhou	0	
Zhaoqing	0	
Zhuhai	0	

Table S8. Economic city profiles of nine cities in Provincial Land Use Plan (2006–2020).

City	Types	
Guangzhou	2	Center City in Guangdong Province or South China
		International Metropolis
Shenzhen	2	Center City in Guangdong Province or South China
		International Metropolis
Foshan	0	
Dongguan	0	
Jiangmen	0	
Zhongshan	0	
Huizhou	0	
Zhaoqing	0	
Zhuhai	0	