

EU-China Low carbon Cities Joint Study


China's climate change Policies & Goals

国家应对气候变化战略研究和国际合作中心

National Center for Climate Change Strategy and International Cooperation

Policy background: put forward the gradually strengthening national goal for addressing climate change

政策背景：提出了逐步强化的应对气候变化的国家目标

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- 2007, “China's national program on climate change”: the specific objectives, basic principles, key areas and policy measures of China's response to climate change by 2010; 《中国应对气候变化国家方案》, 到2010年中国应对气候变化的具体目标、基本原则、重点领域及其政策措施;
 - In 2009, the State Council promised to reduce carbon emissions per unit of GDP by 40% - 45% compared with 2005; 国务院承诺减排;
 - In 2011, the 12th Five year plan was issued, proposing that the carbon emission per unit GDP by 2015 will be 17% lower than that by 2010;
 - In 2014, the “national climate change plan (2014-2020)” proposed to integrate climate change mitigation and adaptation into all aspects and the whole process of economic and social development; 《国家应对气候变化规划 (2014-2020) 》, 将减缓和适应气候变化融入经济社会发展各方面和全过程;
 - In 2014, the “joint statement on climate change between China and the United States” proposed that carbon dioxide emissions will peak around 2030 and efforts will be made to reach the peak as soon as possible, as well as the goal of increasing the proportion of non fossil energy in primary energy consumption to about 20% by 2030; 《中美气候变化联合声明》达峰目标;
 - In 2015, “national independent contribution to climate change”, proposed objectives and measures to deal with climate change; 《国家应对气候变化自主贡献》,
 - In 2016, the 13th five year plan, **by 2020, the carbon emission per unit GDP will be 18% lower than that in 2015, and the proportion of non fossil energy to primary energy consumption will reach 15%.**

Quantitative target of GHG emission control

控制温室气体排放量化目标

Relevant indicators at the national level 国家层面的相关指标

	12th Five Year Plan 十二五目标	Completion of the 12th Five Year Plan 十二五目标完成情况	13th Five Year Plan 十三五目标
Decrease in energy consumption per unit GDP 单位GDP能耗下降	16%	18.2%	15%
Decrease of carbon emission per unit GDP 单位GDP碳排放下降	17%	21.7%	18%
Proportion of non fossil energy to primary energy 非化石能源占一次能源的比例	11.4%	12%	15%

The 13th five year plan for greenhouse gas emission control (November 2016)

“十三五” 控制温室气体排放工作方案

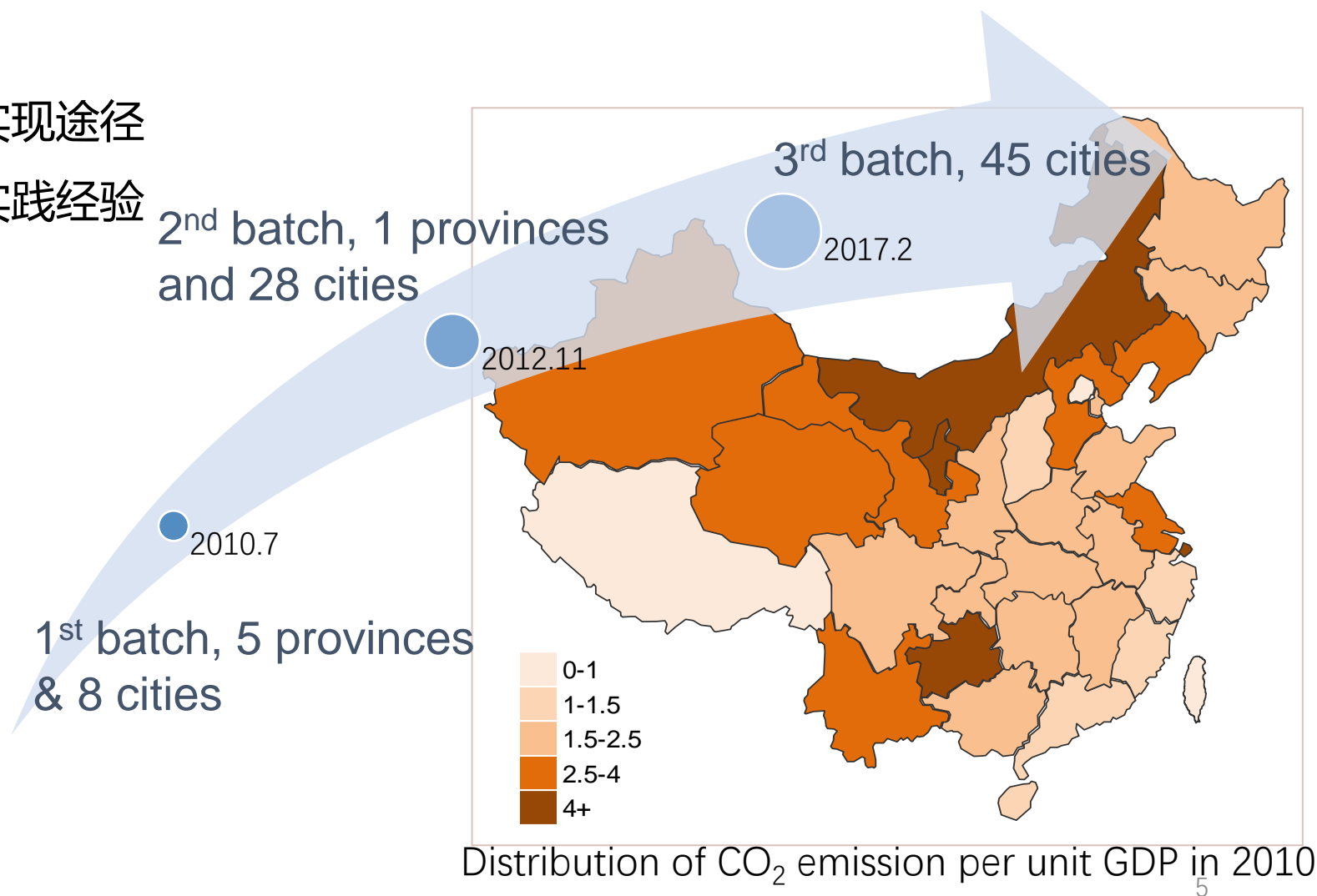
- Focusing on peak carbon emission and total carbon emission control, the pilot project of national low carbon cities will be expanded to 100 cities
- Explore the low-carbon development mode of industry city integration, expand the national low-carbon city (town) pilot to 30 cities (towns)
- Deepen the pilot of National Low Carbon Industrial Park, expand the pilot to 80 parks, and organize the creation of 20 national demonstration low carbon industrial parks
- Promote 1000 low-carbon community pilot projects, and organize the creation of 100 national demonstration low-carbon communities
- Organize and carry out pilot projects of low-carbon commerce, low-carbon tourism and low-carbon Enterprises
- Focus on investment policy guidance and financial support, and promote the pilot work of Climate Investment and financing
- Do a good job in summing up and popularizing all kinds of pilot experience, and form a number of low-carbon development models with different characteristics

Low-carbon provinces and cities pilot project is started

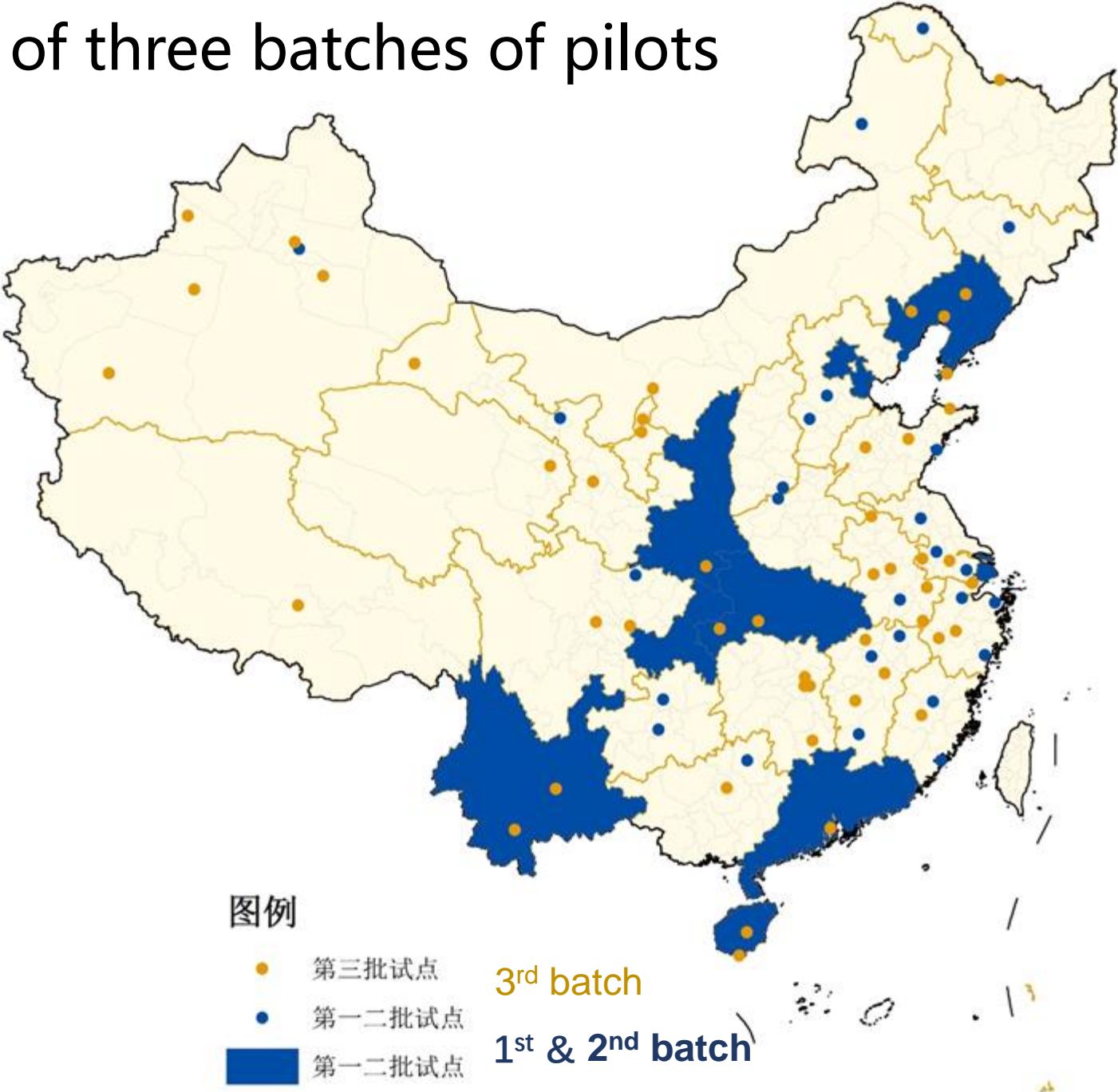
通过国家低碳省市试点推动低碳发展

目的 Purpose

- 探索不同地区的低碳发展模式和实现途径
- 为其他地区提供可复制可推广的实践经验
- 带动和促进全国范围的低碳发展
- **Explore new modes, pathways**
- **Provide experiences**
- **Demonstrate and promote nationwide low-carbon development**

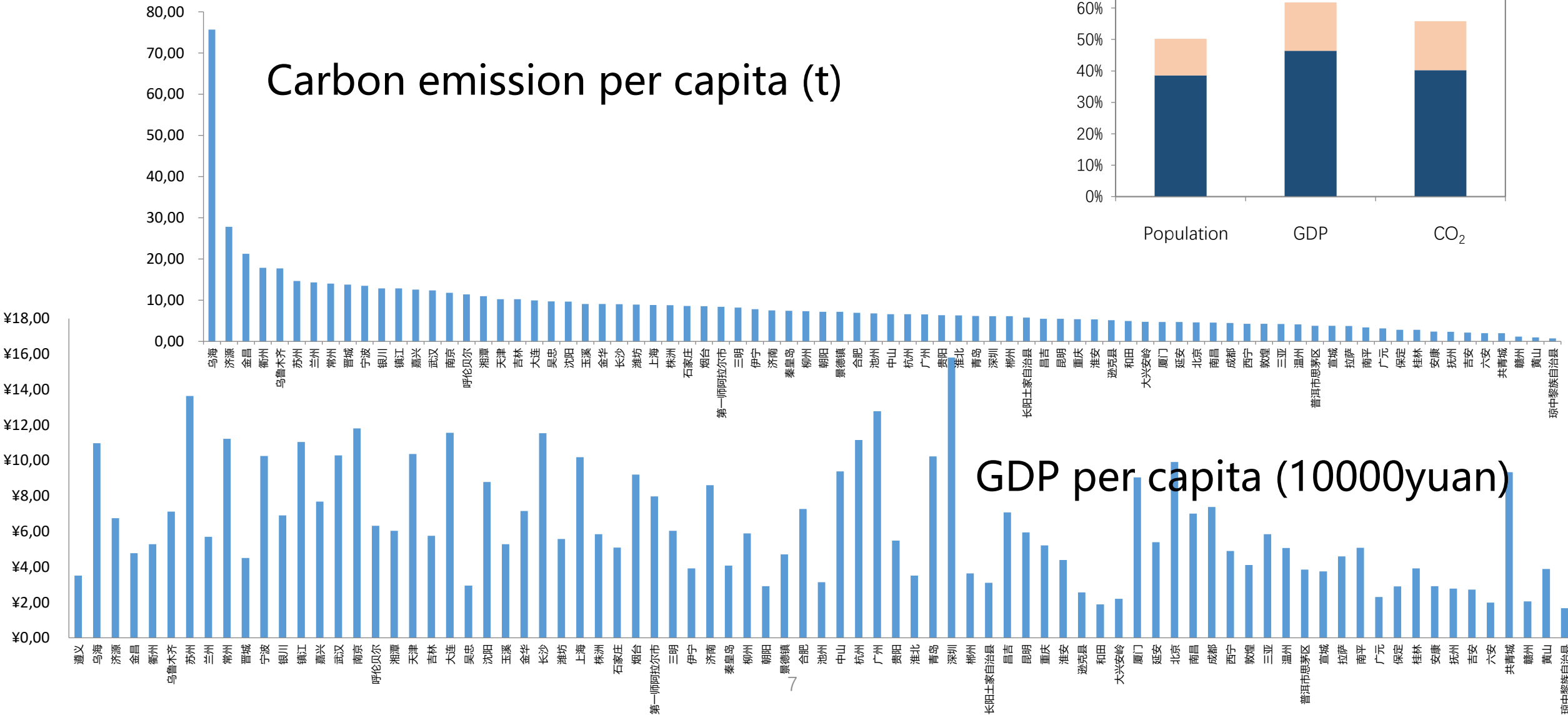


Distribution of three batches of pilots

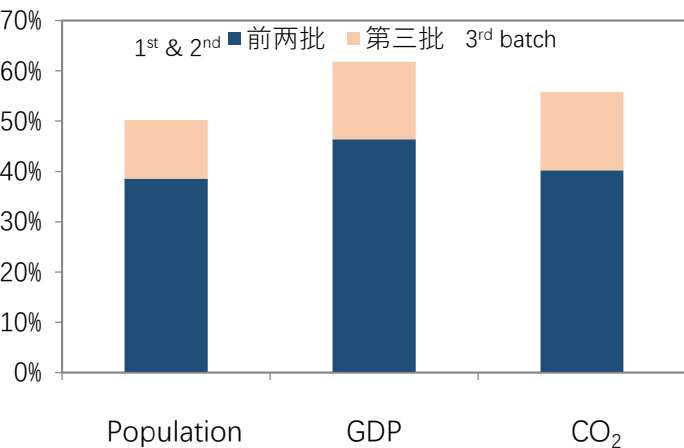


Basic data of low carbon pilot cities

Carbon emission per capita (t)

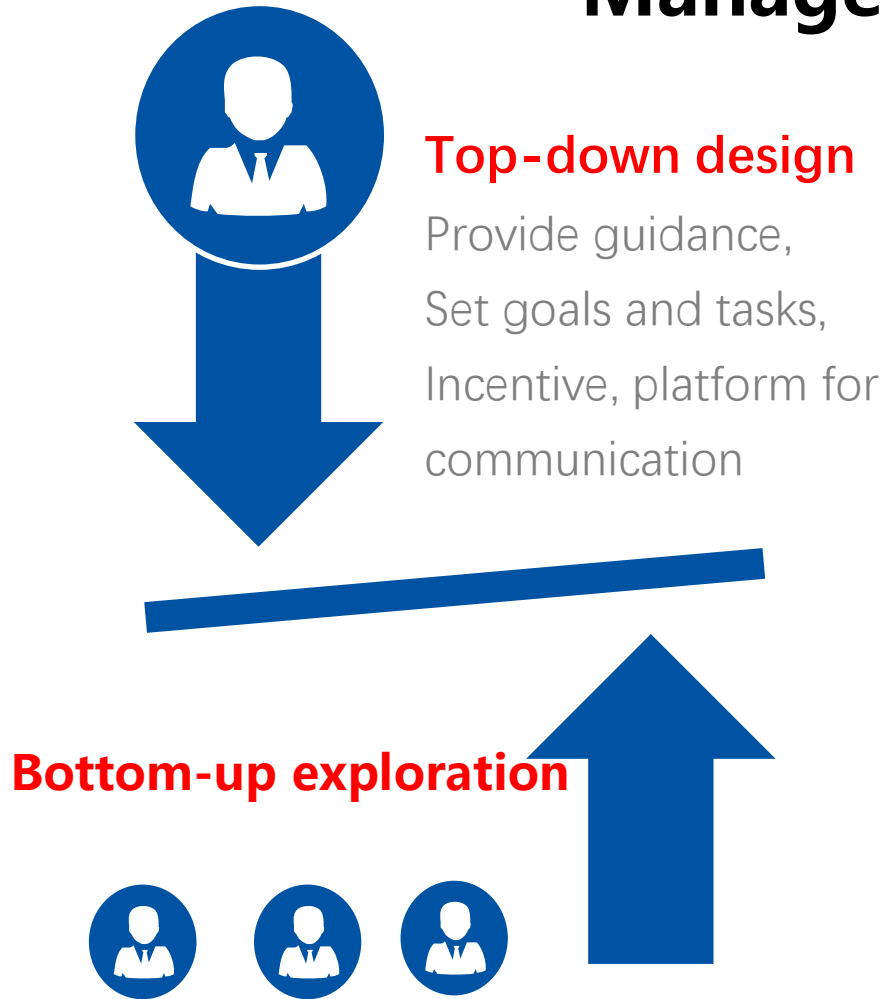


Pilot's share of country's total



GDP per capita (10000yuan)

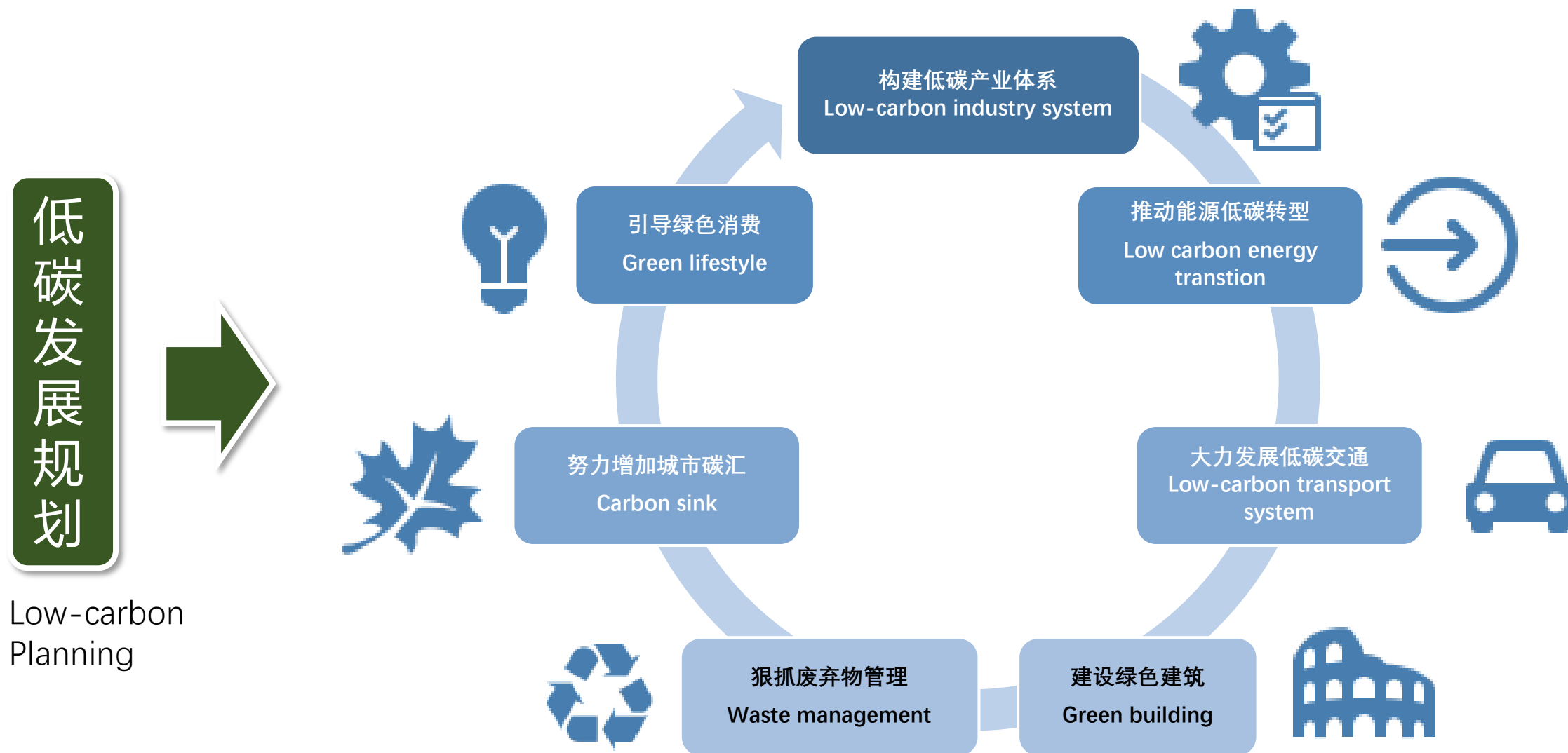
国家低碳省市试点的管理模式 Management of the pilot project



国家提出的五项要求 Goals and Tasks set by NDRC:

- Work out plans for low-carbon development
- **Explore low-carbon green development models to fit local circumstances**
- Establish green, circular, and low-carbon **industry systems**
- Establish **statistics and management systems** for GHG emissions while establishing a system with goals and obligations to curb greenhouse gas emissions
- Advocate a low-carbon green **lifestyle** and consumption model

城市低碳发展路径更加清晰 **Better design on low-carbon pathway**



Policy for Low carbon pilot

低碳试点发展政策

Determine
peak target
and
implement low
carbon action

Prepare emission list and
build statistical system

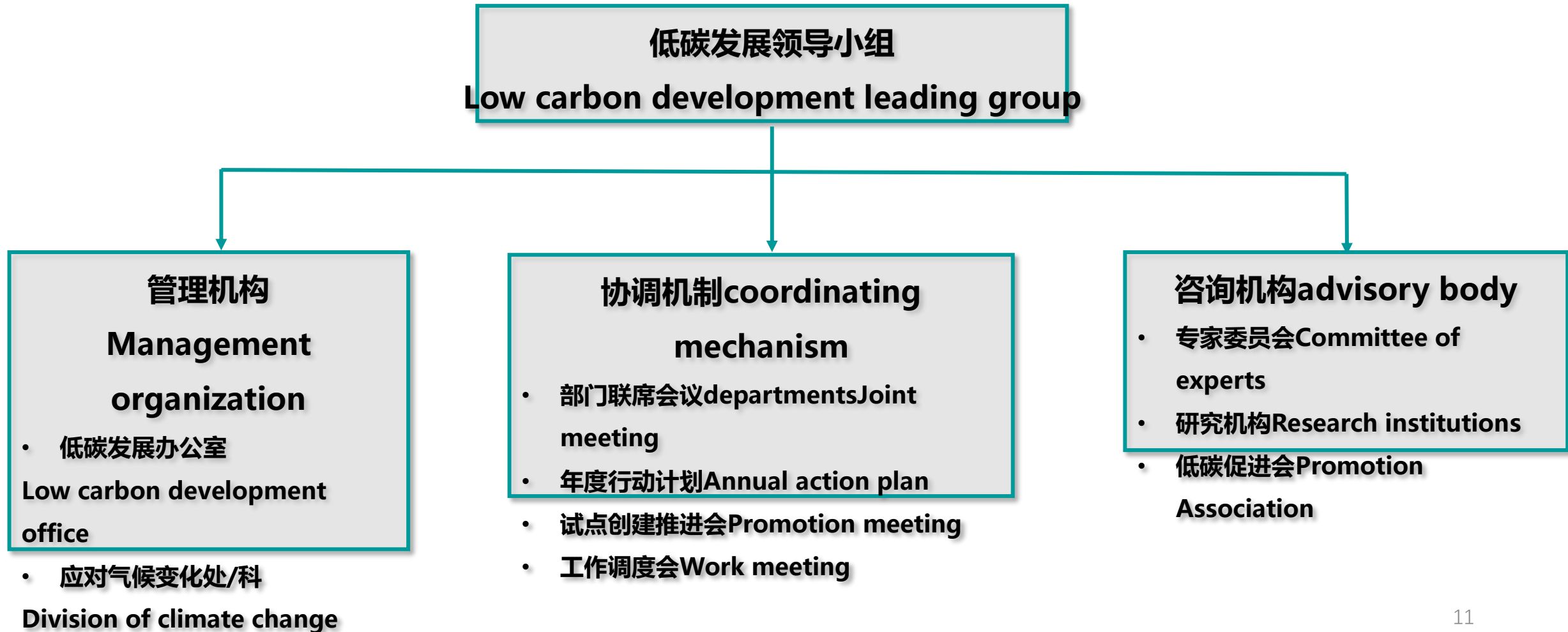


Improve the system
and mechanism
to coordinate the
regional development

Improve the
development system
and the policy system

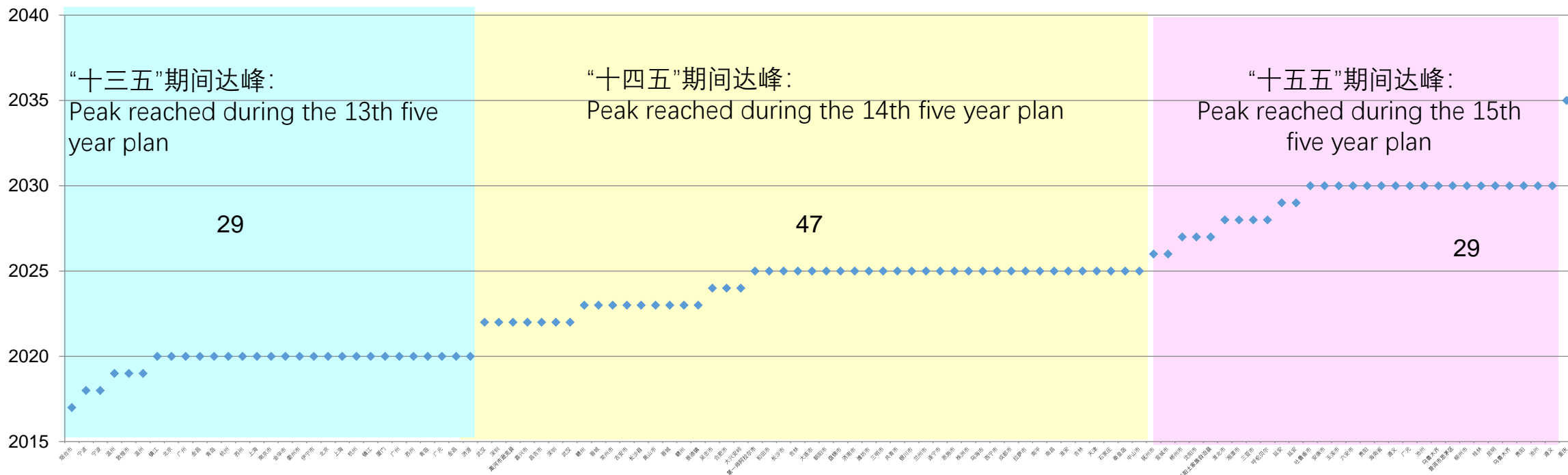
Strengthen comprehensive
coordination and promote
development together

Improve the system and mechanism to coordinate the regional development 完善体制机制，统领区域发展



Determine peak target and implement low carbon action

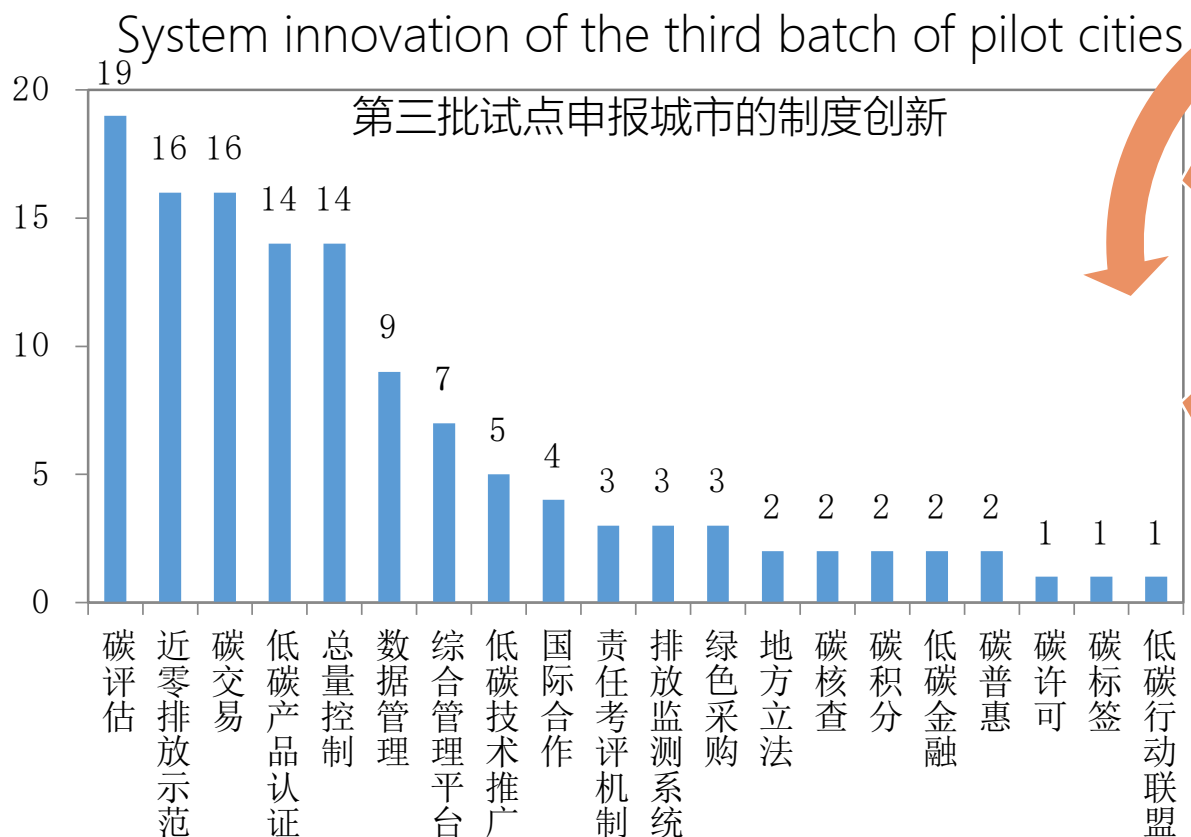
确定峰值目标，实施低碳行动



- 86 low carbon pilot propose peak targets 86个低碳试点地区已/拟提出峰值目标
- Put forward timetable, roadmap, backpressure mechanism and support system
提出时间表、路线图、倒逼机制及支撑体系
- Implement low-carbon actions in industries, energy, construction, transportation and other fields according to local conditions 因地制宜地实施工业、能源、建筑、交通等各领域的低碳行动

Improve the development system and the policy system 完善发展制度，健全政策体系

Strengthen system innovation and improve supporting policies



Total carbon emission control, carbon assessment, carbon emission quota management, carbon standard identification and certification, carbon inclusive

Prepare emission list and build statistical system 编制排放清单，建设统计体系

编制温室气体排
放清单

建设排放数据统
计系统和数据管
理平台

重点企业排放数
据统计核算和管
理系统

Preparation of GHG emission inventory

Construction of emission data
statistics system and data
management platform

Statistical accounting and management
system of emission data of key enterprises

宁波市：完成市、县两级温室气体清单
Ningbo: complete the GHG list at
both city and county levels

明确要求：发布《宁波市温室气体排
放清单编制工作实施方案》，提出实
施逐年常态化清单报告编制工作

建立机制：成立工作协调小组、专题
工作小组、专家咨询小组

组建队伍：落实相关职能处室、人员
和经费到位，面向各县（市）区主管
部门组织开展清单编制专题培训

Clear requirements: issue the implementation plan for the preparation of greenhouse gas emission inventory in Ningbo, and put forward the preparation of the annual normalized inventory report

Establishment mechanism: establishment of working coordination group, thematic working group and expert advisory group

Establish team: implement relevant functional departments, personnel and funds in place, organize and carry out special training on list preparation for competent departments of counties (cities)

Strengthen comprehensive coordination and promote development together 加强综合协同，合力推动发展

Different types of pilot

Smart city	New energy demonstration	Energy saving and emission reduction policy
Low carbon transportation city	Ecological civilization demonstration	Classification of domestic waste
Low Carbon Industrial Park	New urbanization	circular economy

Pilot cities	智慧城市	低碳交通城市	低碳工业园区	新能源示范	生态文明先行	新型城镇化	节能减排财政政策	循环经济	生活垃圾分类
	深圳								
	青岛								
	杭州								
	宁波								
	贵阳								
	吉林								
	广州								
	苏州								
	武汉								
	金昌								
	南昌								
	昆明								
	镇江								
	石家庄								
	南平								
	乌鲁木齐								
	淮安								
	遵义								
	温州								
	桂林								
	济源								
	晋城								
	秦皇岛								
	延安								
	厦门								
	保定								
	赣州								
	呼伦贝尔								
	池州								

区内相关
试点示范

Low carbon community 低碳社区

Low carbon / beautiful
countryside(town) 低碳/美丽乡村

Relevant
pilot

Low Carbon Industrial Park
低碳工业园区

demons-
tration

Green building demonstration
area 绿色建筑示范区

within the
area

Demonstration of public
institutions 公共机构示范

Agricultural demonstration area
农业示范区

Waste disposal 废弃物处理

国家加快推进低碳发展路径清晰

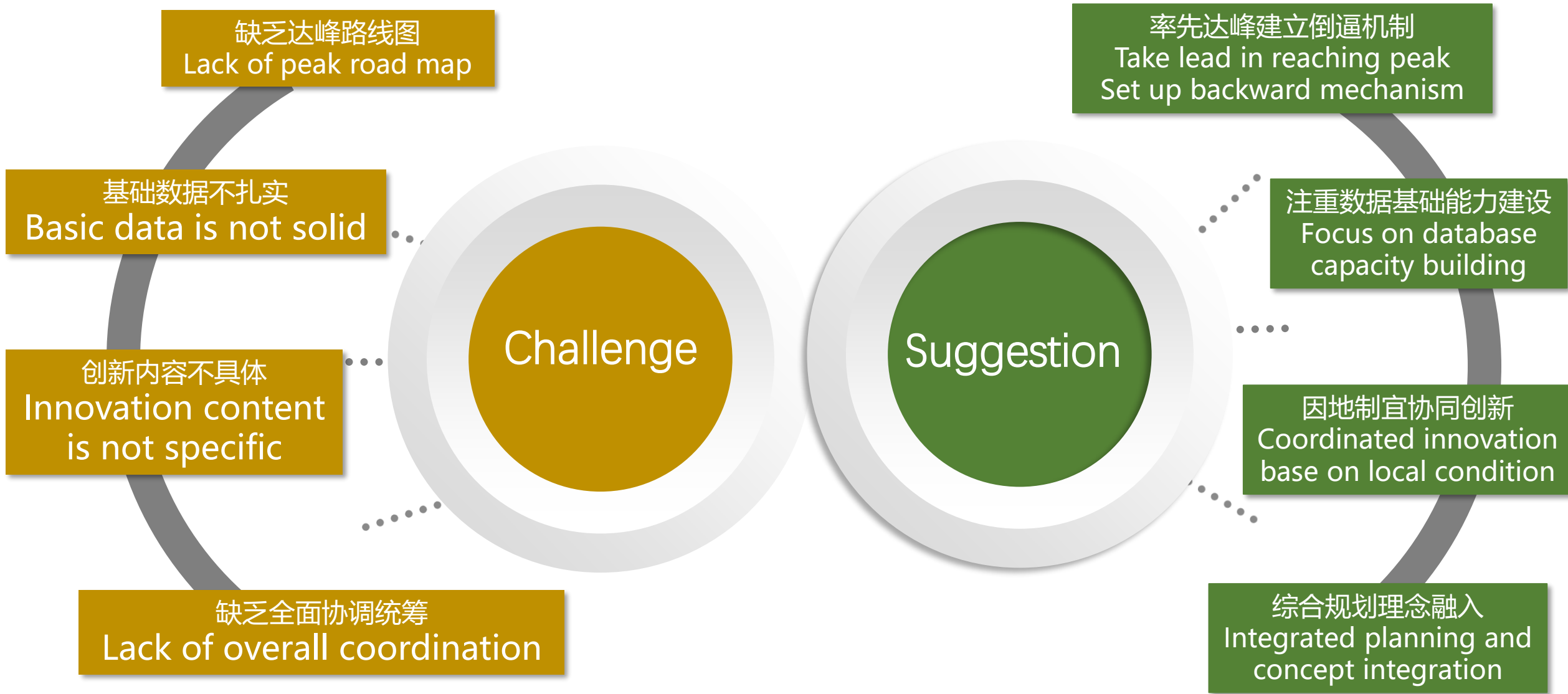
Accelerate the development of low-carbon in China with a clear pathway

党的十九大明确提出着力“四碳” The 19th national congress of the CPC:

- 培育绿色**低碳**新增长点、形成新动能;
- 建立健全绿色**低碳**循环发展的经济体系;
- 构建清洁**低碳**、安全高效的能源体系;
- 倡导简约适度、绿色**低碳**的生活方式。
- To foster new growth areas and drivers of growth in the green and **low-carbon** economy;
- Promote a sound economic structure that facilitates green, **low-carbon**, and circular development;
- Build an energy sector that is clean, **low-carbon**, safe, and efficient;
- Encourage simple, moderate, green, and **low-carbon** ways of life.

Challenges and Suggestions (City level)

挑战和建议



Work Programme and Suggestions (Country level)

顶层设计要立足全局，基层探索要观照全局，大胆探索，积极作为，发挥好试点对全局性改革的示范、突破、带动作用。——习近平

The top-level design should be based on the overall situation, while the basic level exploration should take into consideration the overall situation, boldly explore and actively act as a pilot to play a good role in demonstrating, breaking through and driving the overall reform. -- Xi Jinping

