

**The 4<sup>th</sup> Sino-US Workshop on Motor Vehicle  
Pollution Prevention and Control**

## Vehicle Emission Control Policy in China

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## Main Contents

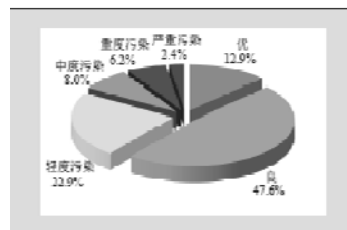
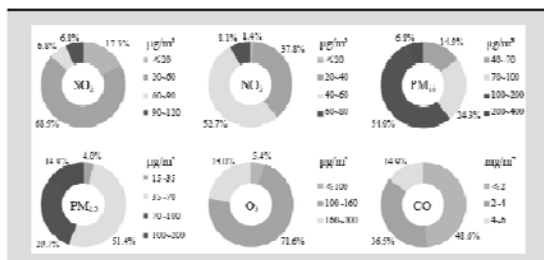
- Air pollution situation
- Motor vehicle pollution situation
- Environmental policies and measures for motor vehicle

# Air Pollution Situation

Air pollution situation is quite serious in China, only 3 of 74 key cities is compliant under the new atmosphere quality standard.

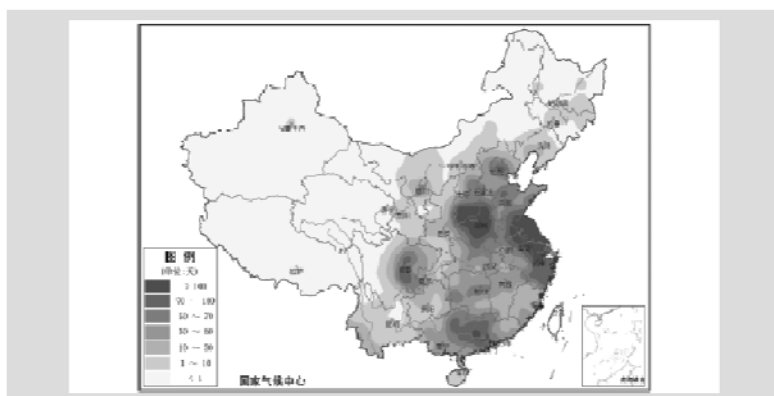
2013年重点区域各项污染物达标城市数量

区域	城市总数	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	CO	O <sub>3</sub>	PM <sub>2.5</sub>	综合达标
京津冀	15	7	5	0	6	8	0	0
长三角	25	25	10	2	23	21	1	1
珠三角	9	9	5	5	9	4	0	0



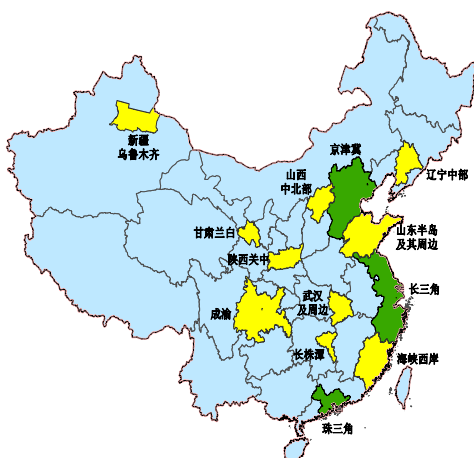
## PM<sub>2.5</sub> pollution is serious

China has become one of the most polluted regions of PM<sub>2.5</sub> in the world, certain areas like Beijing-Tianjin-Hebei, Yangtze River Delta area etc are even more polluted with annual PM<sub>2.5</sub> average concentration of over 70ug/m<sup>3</sup>.



2013年全国霾日数分布示意图

### Air pollution emissions are highly concentrated in key regions



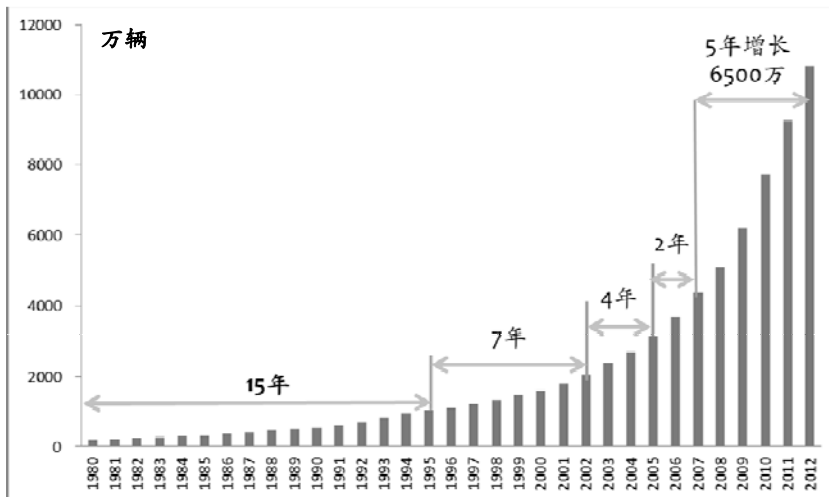
- account for 14% of national acreage, 48% of national population and 70% GDP
- consume 48% of national coal
- contribute 47% of SO<sub>2</sub> emission, 50% of NO<sub>x</sub> emission, 45% of soot and dust emission and about 50% of VOCs
- Main air pollutant emission level is much more higher than national average level

## Public needs for improving air quality

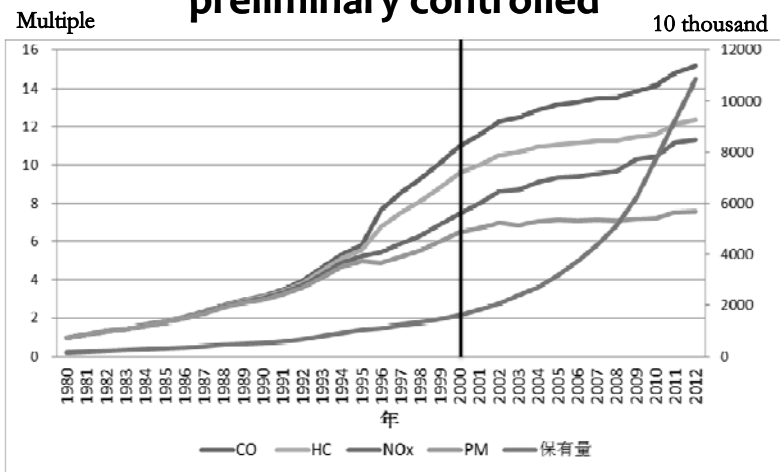


## Motor Vehicle Pollution Situation

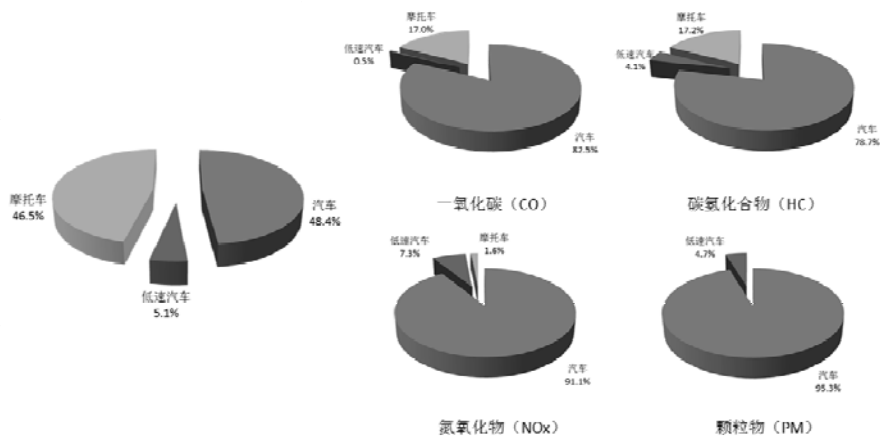
### Rapid growth of vehicle population



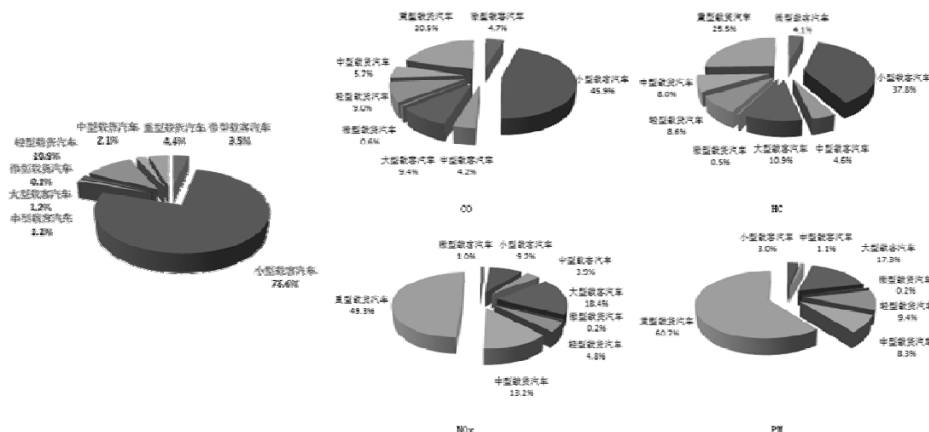
### Motor Vehicle pollution emissions were preliminary controlled



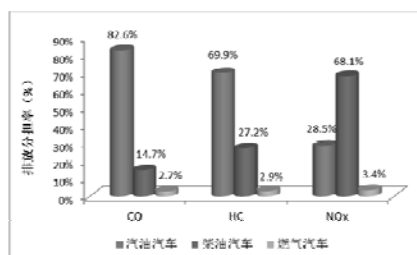
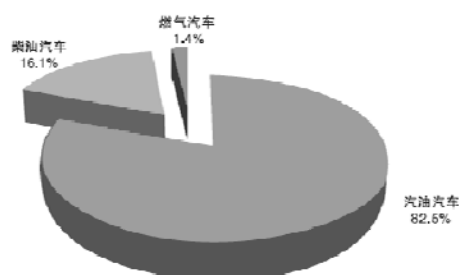
## Motor vehicle composition and emission contribution



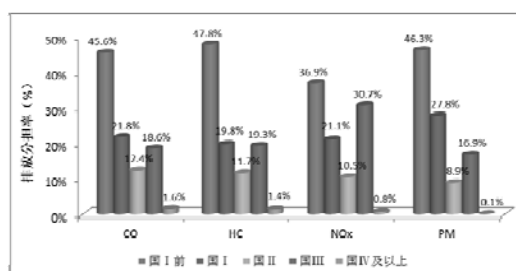
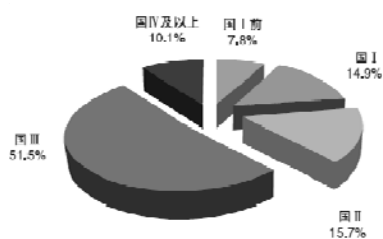
## vehicle composition and emission contribution



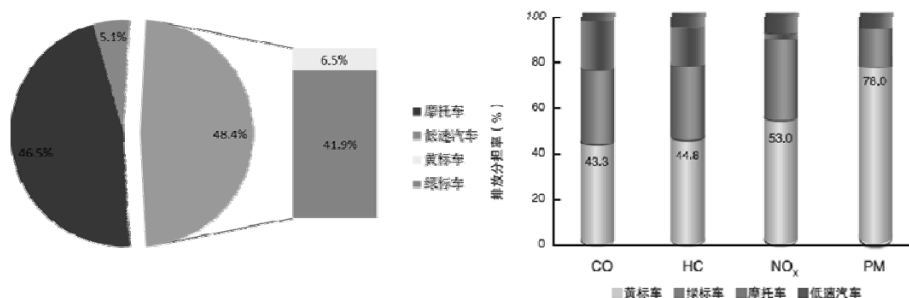
## Vehicle emissions by fuel type



## Vehicle emissions by emission standard

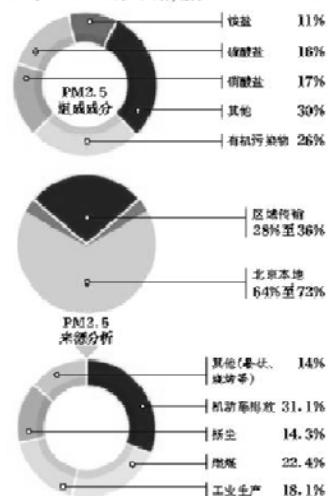


## Emission contribution of yellow-label vehicle



## PM2.5 source composition in Beijing

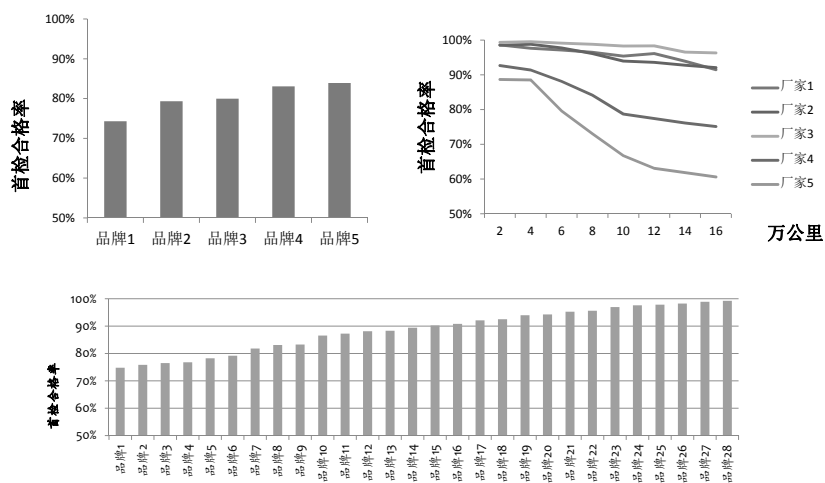
北京PM2.5源解析数据 新京报制图/张研





## Environmental policies and measures for motor vehicle

### To stress the responsibility of motor vehicle manufacturers



## To accelerate scrappage of yellow-label vehicle to release environmental burden

- \* Phase-out 6 million yellow-label vehicle in 2014
- \* Basically eliminate yellow-label vehicle in key regions by the end of 2015
- \* Basically eliminate yellow-label vehicle in China by the end of 2017



## To consummate laws and regulations

- Revise “Law of the Peoples Republic of China on the Prevention and Control of Atmospheric Pollution”
  - clear responsibilities and works of each department
  - stress responsibilities of manufacturers
  - treat vehicle and fuel as a system
  - develop life cycle environmental supervision and enforce recall program
  
- Establish “motor vehicle pollution prevention and control rules”
  - explain Law of Prevention and Control of Atmospheric Pollution into detail rules and make it practicable

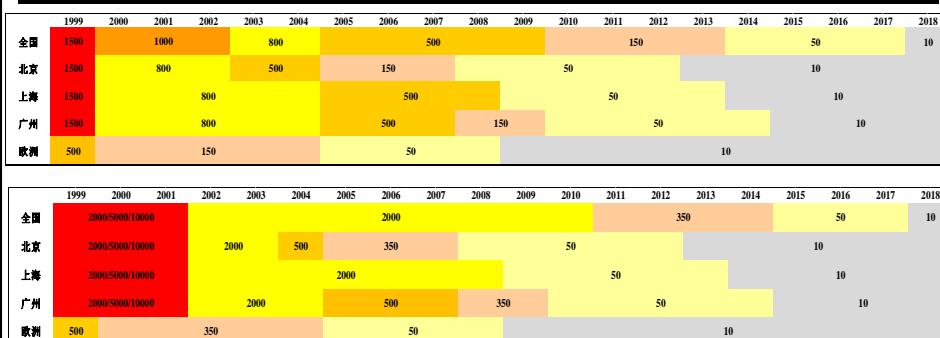
## More stringent emission standards

车型	年份	2008	2007	2008	2009	2010	2011	2012
		轻型汽车	压燃式	国 II				国 II
	点燃式	国 II				国 III		国 IV
	气体点燃式	国 II				国 III		国 IV
重型汽车	压燃式	国 II				国 II		
	点燃式		国 II					国 III
	气体点燃式	国 II				国 III		国 IV
摩托车	两轮和轻便摩托车		国 II					国 III
	三轮摩托车			国 II				国 III
低速汽车		无控制要求	国 I			国 II		
非道路	柴油机		无控制要求		国 I			国 II
移动机械	小型点燃式发动机			无控制要求				国 I

Initiate the establishment of China VI emission standards

- more Chinese-characteristic
- more flexible
- more stringent supervision for compliance

## Promote clean vehicle fuels



- more stringent standard for controlling Hazardous materials
- environmental compliance supervision on vehicle fuels

## National Action Plan of Clean Diesel Engines

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### ■ Target engines

- Commercial diesel vehicles
- Engineering equipments, garden equipments, agricultural equipments and port equipments etc
- Domestic vessels
- High-way, non-road and marine fuels

### ■ key projects

- clean commercial vehicle plan
- clean equipment plan
- clean vessel plan
- clean diesel fuel plan

*Thanks for your attention!*