



WRI CHINA
— ROSS CENTER

FEWER EMISSIONS, BETTER LIFE (Appendices)

Beijing Low Emission Zone Final Report

May 2018

Sponsored by

CIF CHILDREN'S
INVESTMENT FUND
FOUNDATION

Authors:

Ying Wang

ywang@wri.org

Shiyong Qiu

syqiu@wri.org

Ting Zhao

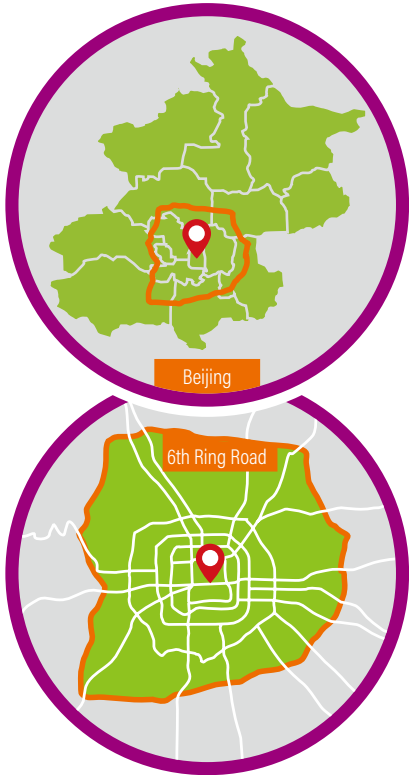
tzhao@wri.org

Design and layout by:

Zhang Ye

harryzy5204@gmail.com

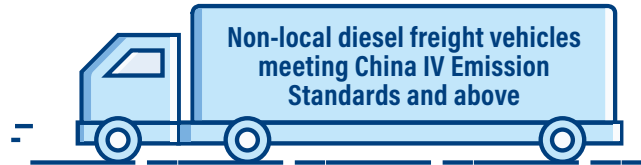
A. Beijing Low Emission Zone Policy Introduction



September 21, 2017—September 20, 2019



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From September 21, 2019



B. Beijing Low Emission Zone Project KPI Summary

Task	Activity	Milestone	KPI/KII
A. Inception of project, to engage major stakeholders across sectors and raise their awareness of successful international/national experiences.	1- Conducted a study to evaluate and record <i>international best practices</i> of Low Emission Zone and Congestion Charging (LEZ/CC). Proposed key recommendations related to congestion mitigation to the Beijing Municipal Commission of Transport (BMCT).	September 2014	<ul style="list-style-type: none"> Then Vice-Premier Zhang Gaoli urged the BMCT to speed up the analysis of congestion charging (CC) in Beijing. 100% of the key recommendations are adopted by the BMCT. Influenced more than 50 decision-makers from the Beijing municipal government, the BMCT, the Beijing Environmental Protection Bureau (BEPB), the Bureau of Finance, the Municipal Commission of Economy and Information Technology, and the Development and Reform Commission. Served as a supporting document for the motion on LEZ/CC that was submitted to the Beijing Municipal People's Political Consultative Conference (BJMPPCC) during the 2016 Beijing annual "two sessions" and reached then Mayor Wang Anshun.
B. Designed an integrated policy cluster , consisting of complementary policies to remove the departmental barriers and create enabling conditions.	2- Developed an <i>LEZ/CC implementation guideline</i> to support policy implementation. Set out a policy instrument framework and identified the enabling conditions for LEZ/CC legislation.	August 2015	<ul style="list-style-type: none"> Provided advice at decision-making consultation meetings with the BMCT on an institutional mechanism, a policy cluster package, a public/stakeholder communication strategy, a legislative solution and the selection of technology. All key policy-cluster recommendations are adopted by the BMCT.
	3- Developed an institutional framework for <i>cross-departmental collaboration</i> on pilot CC project to clarify responsibilities and roles and to streamline the management process.	August 2016	
	4- Completed a status quo analysis of the operation and management in Beijing and developed a <i>parking management plan</i> to address parking issues.	August 2016	<ul style="list-style-type: none"> Served as a supporting document for the Beijing Parking Management Regulations, which were enacted on May 1, 2018.
	5- Conducted an analysis of the comparison of the <i>parking management plan</i> with the CC plan, including cost benefits.	August 2017	
	6- Investigated the current situation of the non-motorized transportation (NMT) system in Beijing and proposed strategies and measures to <i>improve the NMT system</i> and streamline green travel.	August 2016	<ul style="list-style-type: none"> Recommendations accepted by BMCT to include in the Beijing 13th Five-Year Transportation Technology Development Plan (Intelligent Transportation, Road Engineering and Green Transportation)
	7- Selected the Financial District as a pilot area to develop an improvement plan, with the purpose of mainstreaming the concept of reducing congestion by integrating people-oriented design elements into <i>development of an NMT system</i> .	August 2017	
C. Created a public communications strategy to encourage public participation and support	8- Developed an effective <i>public communication strategy</i> to support the implementation of LEZ/CC.	August 2015	<ul style="list-style-type: none"> The BMCT and the Beijing Traffic Management Bureau (BTMB) initiated public consultation on congestion mitigation measures starting in December 2015. More than 6,000 residents participated in the consultation. Starting in July 2016, the BMCT and Beijing Communication Radio jointly initiated a radio program to interact with the public on congestion management for the first time. The radio program was heard by around 200,000 residents.

Task	Activity	Milestone	KPI/KII
C. Created a public communications strategy to encourage public participation and support	9- Designed and produced an <i>infographic</i> to explain the traffic problems and solutions. The infographic has been disseminated through social media platforms.	September 2015	<ul style="list-style-type: none"> The infographic successfully reached an audience of more than 450,000 people and prompted lively discussions on traffic congestion and air quality among professionals and the general public.
	10- Assisted the BMCT in publishing and disseminating a <i>communication brochure on congestion mitigation measures</i> during Beijing’s annual “two sessions” in 2016.	January 2016	<ul style="list-style-type: none"> Informed 387 BJMPC representatives and 207 BJMPCC representatives about LEZ/CC and other international practices.
	11- Conducted a <i>public opinion survey</i> to understand public awareness of, support for and concerns about LEZ/CC to assist decision-making and to promote public communication.	August 2016	<ul style="list-style-type: none"> Each survey involved more than 10,000 participants. Respondents who were in favor of CC policy increased from 23% to 26% within a year, coupled with a significant 15% shift from opposing to neutral in 2017, compared with 2016. In 2017, 67% of the public who were surveyed concurred with the statement “I am not opposed to the LEZ/CC concept”. WRI reported the survey results and recommendations to the Ministry of Transport. Vice-Minister Liu Xiaoming commented on the report and made instructions directly to then Beijing Mayor Wang Anshun and the BMCT.
	12- Conducted the <i>second round of public opinion survey</i> to investigate changes in public attitudes toward CC.	August 2017	
	13- Conducted <i>social media analysis</i> on CC to investigate the historical and ongoing public attitudes.	August 2017	
	14- Worked with Beijing TV Station to produce a <i>TV program</i> called “Searching for Congestion Mitigation Measures”.	September 25 th , 2016	<ul style="list-style-type: none"> The program was viewed watched by more than 600,000 people.
	15- Organized a BMCT and <i>media study tour</i> to London to investigate and disseminate the good practices in London to Beijing and other Chinese cities in a broader spectrum through different public communication channels.	October and December 2017	<ul style="list-style-type: none"> The BMCT delegation, consisting of six officials and led by Deputy Director Wang Zhaorong, and the media group, including seven reporters from Xinhua News Agency (the biggest and most influential media organization in China), Beijing TV Station (a State-owned television network), Beijing Daily (the most widely circulated newspaper in Beijing) and Beijing Communication Radio (holder of the top market share and audience rate in Beijing). Interviews were conducted, including with Shirley Rodrigues, London’s deputy mayor for environment and energy; Ken Livingstone, former mayor of London; Ben Plowden, director of strategy and planning for surface transport of Transport for London; Dave Wetzel, former vice-chair of Transport for London; and Luke Blair, a London public policy public communication consultant. Worked with Beijing TV Station to produce a TV program, “International Best Practices: London’s Strategies on Congestion Mitigation,” based on the London media study tour. The program was broadcast on February 22, 2018. Beijing Daily published an article under the headline “Three Questions to be Discussed on CC” on February 24, 2018, based on survey results and the study tour.

Task	Activity	Milestone	KPI/KII
D. Established key performance indicators and emission tools to MRV (Monitoring, Reporting, Verification) CO ₂ emission and to improve and measure the management and operation of CC system.	16- Produced LEZ/CC scenario report for the BMCT's decision-making. It demonstrated the cost-benefit of the LEZ/CC options, in terms of such things as greenhouse gas reduction, air quality and congestion reduction.	September 2015	<ul style="list-style-type: none"> The model has been endorsed by the BMCT and used as technical support material for reports to the BMCT and municipal decision-makers. According to WRI's calculation, the implemented LEZ will have a potential annual abatement of 2.5 million metric tons of CO₂ by 2020.
	17- Developed an evaluation indicator system to estimate the socioeconomic impacts of LEZ/CC and to support decision-making.	August 2016	<ul style="list-style-type: none"> The evaluation indicators have been integrated into the BMCT's Energy Consumption and Emission Monitoring system.
	18- Developed a transportation emission health impact analysis model through integration of models for transportation emission, air quality and dispersion, exposure-response and economic analysis, and conducted an LEZ/CC policy health impact analysis to investigate the relationship between transportation policy and health benefits.	September 2017	<ul style="list-style-type: none"> Established the first evaluation system in China to: <ul style="list-style-type: none"> quantify the public health benefits of transportation policies; break down the barriers between the transportation, environmental protection, public health and economic management sectors; support decision-making from a public health perspective. Based on our analysis, the implemented LEZ will reduce inpatient numbers by around 514 and prevent 43 deaths each year in the short term, leading to an annual social cost savings of \$42 million.
E. Created a scaling-up strategy to replicate and promote Beijing's successful experience.	19- WRI organized meetings with the Ministry of Transport (MOT) to gain support for the development of a national LEZ/CC and transportation demand management (TDM) policy cluster, maximizing its chances for replication in China.	August 2015	<ul style="list-style-type: none"> The MOT issues the 13th Five-Year Plan for Urban Public Transport to guide cities in implementing CC. Recommendations on "Promoting Urban Sustainable and Green Travel to Mitigate Traffic Congestion and Improve Air Quality", including implementation of CC, were submitted to Premier Li Keqiang as internal references for the State Council, China's Cabinet. Shenzhen, Suzhou, Shanghai, Chengdu, Qingdao, Nanjing, Wuhan, Jinan and Taipei have consulted WRI on LEZ/CC policies.
	20- Worked with the MOT's think tank to incorporate LEZ/CC as one of the measures in the " National Strategic Policy " for TDM and to scale up to other cities.	August 2016	
	21- Developed national-level congestion mitigation directive suggestions and draft guidelines for cross-ministry collaboration on congestion mitigation for scaling up to other cities.	December 2017	
F. Improved the capacity of decision makers, planners, management and practitioners via capacity building .	22- Organized an international workshop with the BMCT and the MOT on LEZ/CC and public communication.	September 6, 2015	<ul style="list-style-type: none"> More than 130 participants, including leaders and officials from the BMCT, Environmental Protection Bureau, Bureau of Finance, Commission of Economy and Information Technology and the Tianjin Municipal Commission of Transportation attended the workshop. An overwhelming share of participants accepted introducing LEZ/CC in Beijing.
	23- Organized a study tour to Hong Kong for the Beijing Transport Institute (BTI) and Suzhou transportation organizations to gain an in-depth understanding of Hong Kong's urban transportation policymaking process and to enlighten Beijing to address its most pressing traffic congestion and emission problems.	March, 2016	<ul style="list-style-type: none"> A delegation of six people, including leaders and officials from the Suzhou Transit Terminus Center Management Co. Ltd., the Suzhou Transit Investment, Planning, Design, Construction & Management Co. Ltd., the Suzhou Planning and Design Institute and the BTI participated in the study tour.

Task	Activity	Milestone	KPI/KII
F. Improved the capacity of decision makers, planners, management and practitioners via capacity building .	24- Held a cross-departmental and inter-city workshop on TDM to provide training on CC and TDM to officials and transportation professionals.	July 4, 2016	<ul style="list-style-type: none"> More than 60 participants attended the workshop, including decision-makers and officials from the National Development and Reform Commission, the Ministry of Housing, Urban and Rural Development, the BMCT, the Beijing Traffic Management Bureau, the Shenzhen Transportation Commission and transportation professionals from Shanghai, Tianjin, Chongqing, Nanjing, Hangzhou, Kunming and Wuhan
	25- Co-organized a workshop in September 2016 to discuss the 13th Five-Year Plan on coordinated emissions reduction and green transportation development.	September 2016	<ul style="list-style-type: none"> Over 50 experts participated in the workshop, including decision-makers and professionals from the MOT, BMCT, key transportation departments and transportation enterprises in the Jing-Jin-Ji region, the Qingdao Municipal Commission of Transport and research institutes in Beijing, Tianjin and Qingdao
	26- Co-organized the "World Metropolitan Transport Development Forum" . TDM policies focused on CC as well as low carbon sustainable transportation strategies were the forum's main themes.	October 24-25, 2016	<ul style="list-style-type: none"> More than 500 participants, including mayors, representatives of transportation agencies, transportation experts and scholars from mega-cities like Beijing, Shanghai, Guangzhou and Shenzhen, and from international cities, including Portland, London, Los Angeles and Tokyo, attended the event.
	27- Co-organized the "International Workshop on Green Transport Infrastructure Development" to share international and domestic experiences on cycling development.	September 15, 2017	<ul style="list-style-type: none"> Over 50 participants from key transportation departments in Beijing joined the workshop.
	28- Co-organized the "Big Data Application in the Evaluation of Transportation Emissions Workshop" to exchange knowledge and experiences on transportation emissions modeling and evaluation.	November 8, 2017	<ul style="list-style-type: none"> More than 100 experts, including leaders from key environmental departments in Beijing, Shanghai, Shenzhen and Guangzhou and local transportation research institutes in Beijing, Chongqing, Chengdu, Guangdong and Shenzhen, participated in the workshop.
	29- Organized stakeholder dialogues, consultation meetings and training to increase capacity of decision-makers and the public.	Ongoing	<ul style="list-style-type: none"> China transportation team director has been appointed as a member of the third BMCT committee and an external expert to the Guangzhou Municipal Commission of Transport. Training provided to central government agencies like the MOT and Ministry of Public Security; Beijing divisions of policy study, technology, legal affairs, comprehensive transportation and publicity; the Beijing-Tianjin-Hebei (JJJ) region integrated development office; and other cities like Shanghai, Shenzhen, Nanjing, Jinan, Guiyang, Wuhan and Chengdu
G. Building a knowledge hub as part of the capacity building exercise and as a communications platform to raise public awareness	30- Developed a web-based knowledge hub platform for LEZ/CC as a useful resource for decision-makers and professionals.	Ongoing	<ul style="list-style-type: none"> Served as a platform for capacity building and public education.

C. WRI Support to Chinese Cities LEZ/CC Development

City	Focus	WRI involvement	City institute(s) with which WRI has had contact and/or worked	Result: are LEZ/CC principles reflected in city policy/strategy / other documentation?
Shenzhen	- LEZ and CC	<ul style="list-style-type: none"> - Deep involvement - WRI provided written comments on <i>Shenzhen Special Economic District Environmental Protection Regulations</i>, sent through the Energy Foundation - During workshop on TDM organized by WRI, the director of the Shenzhen Transportation Commission had a detailed consultation and discussion with WRI 	<ul style="list-style-type: none"> - Energy Foundation, Air Quality Team - Shenzhen Transportation Commission 	<ul style="list-style-type: none"> - Provided written comments on <i>Shenzhen Special Economic District Environmental Protection Regulations</i>, recommending that provisions be included to prevent vehicles that are registered outside Shenzhen and don't comply with Shenzhen's emission standards from entering the city temporarily, or to require these vehicles to pass an emission test before getting a temporary permit
Suzhou	- CC	<ul style="list-style-type: none"> - Deep involvement - WRI attended consultation meetings to provide comments on the Suzhou Old Town CC programs 	<ul style="list-style-type: none"> - Suzhou Planning and Design Institute - MVA 	<ul style="list-style-type: none"> - Suzhou's Road Transportation Congestion Mitigation Work Plan 2017 requested the completion of research on the Suzhou Old Town CC Schemes by July 2017 - Commented on the plans, technologies and feasibility
Hebei Province	- LEZ and CC	<ul style="list-style-type: none"> - Deep involvement - WRI organized the "Workshop on Transportation Energy Conservation and Emission Reduction in the Beijing-Tianjin-Hebei Region" and other training to promote LEZ/CC as a key emissions reduction measure. 	<ul style="list-style-type: none"> - Beijing-Tianjin-Hebei Integrated Development Office - Hebei Department of Transportation - Other key transportation departments in the Jing-Jin-Ji region 	<ul style="list-style-type: none"> - Hebei Province released <i>Opinions on Promoting the Comprehensive Treatment of Air Pollution</i> and 18 special implementation plans for air pollution control work in April 2017, which required cities in the province to study CC policy and to gradually implement traffic restrictions on highly polluting vehicles.
Chengdu	<ul style="list-style-type: none"> - CC - Parking management 	<ul style="list-style-type: none"> - City consulted WRI regarding its 13th Five-Year Plan for Transportation. - WRI recommended inclusion of CC and parking management and sent documents. 	<ul style="list-style-type: none"> - Chengdu Transportation Planning and Design Institute 	<ul style="list-style-type: none"> - Mention of CC included in the draft Chengdu 13th Five-Year Plan for Transportation - Unfortunately, the wording on CC was removed in the final approved version.
Qingdao	<ul style="list-style-type: none"> - CC - Parking management 	<ul style="list-style-type: none"> - City consulted WRI regarding its 13th Five-Year Plan for Transportation. - WRI recommended inclusion of CC and parking management and sent documents. 	<ul style="list-style-type: none"> - Qingdao Municipal Commission of Transport - Qingdao Transportation Institute 	<ul style="list-style-type: none"> - WRI was consulted on international experiences; WRI recommended that CC be included in the Qingdao 13th Five-Year Plan for Transportation. - Unfortunately, CC was not included.

City	Focus	WRI involvement	City institute(s) with which WRI has had contact and/or worked	Result: are LEZ/CC principles reflected in city policy/strategy / other documentation?
Nanjing	- CC	<ul style="list-style-type: none"> - The Nanjing Transportation Planning Institute contacted WRI regarding international practices and the work in Beijing. - During workshop on TDM organized by WRI, had a detailed consultation and discussion with WRI. 	- Nanjing Transportation Planning Institute	<ul style="list-style-type: none"> - Draft Nanjing Transportation Development White Paper called for public consultation. - CC was mentioned as one of the TDM measures in the White Paper.
Wuhan	- CC	<ul style="list-style-type: none"> - WRI visited Wuhan and spoke to the Development and Reform Commission (DRC) and the Wuhan Transportation Development Strategy Research Institute. - DRC saw and referenced WRI report on CC during meeting. 	<ul style="list-style-type: none"> - Wuhan DRC - Wuhan Transportation Development Strategy Research Institute 	- Publications on LEZ/CC were widely spread and taken as good references for Wuhan transportation study.
Jinan	- CC	<ul style="list-style-type: none"> - Jinan requested documentation from WRI on international practices. - The Jinan Urban Transportation Research Center mentioned CC to the city's deputy mayor during a visit to the institute. - The Jinan Urban Transportation Research Center said it plans to organize training on this and plans to invite WRI, though this has not yet happened. 	- Jinan Urban Transportation Research Center	- The Jinan Urban Transportation Research Center used WRI's research products as good references when reporting to the mayor.
Shanghai	- CC	<ul style="list-style-type: none"> - The head of the Shanghai DRC's Division of Environment and Resources showed great interest in CC and mentioned that the division had conducted a feasibility study on LEZ/CC and held discussions with Daizong on policy feasibility during a workshop. 	- Shanghai DRC Division of Environment and Resources	- Discussion only; no specific support

D. Selected Outreach

Workshops and Training

Name	Type	Date	City	No. of Participants
Stockholm LEZ/CC Study Tour	Study Tour	May 12-16, 2014	Stockholm, Sweden	10
London LEZ/CC Study Tour	Study Tour	June 18-23, 2014	London, UK	20
Singapore CC Study Tour	Study Tour	July 22-25, 2014	Singapore	15
Meeting with Zhengyu ZHOU, (former) director of BMCT	High-Level Meeting	September 10, 2014	Beijing, China	5
Workshop on International Best Practice in Transportation Emission Reduction	Workshop	September 10, 2014	Beijing, China	150
Visit to Beijing CC Technology Testing Field	Field Trip	December 1, 2014	Beijing, China	5
Meeting with Xiaosong LI, (former) deputy director of BMCT	High-Level Meeting	December 26, 2014	Beijing, China	10
Project Proposal Experts Consultation Meeting	Experts Consultation Meeting	January 30, 2015	Beijing, China	15
Brownbag on Transportation Policy Public Communication – by Wenjian SUN, chief policy adviser of the MOT Policy Study Office	Training	July 27, 2015	Beijing, China	20
Preliminary Research Results on LEZ/CC Scenario Analysis	Experts Consultation Meeting	August 13, 2015	Beijing, China	15
Experts Consultation Meeting on LEZ/CC Implementation Guideline and Public Communication Strategies	Experts Consultation Meeting	August 18, 2015	Beijing, China	15
Signing ceremony of the MOU between the BTI (former BTRC) and WRI	High-Level Meeting	September 6, 2015	Beijing, China	10
Congestion Mitigation and Emission Reduction Annual Workshop 2015 – Policy and Public Communication	Workshop	September 6, 2015	Beijing, China	130
Hong Kong CC Study Tour	Study Tour	March 6-10, 2016	Hong Kong	10
Stakeholder Dialogue that engaged the MOT, the NDRC, the Traffic Management, the BMCT, etc.	Experts Consultation Meeting	March 29, 2016	Beijing, China	18
Beijing LEZ Project First Cross-Department Collaboration Meeting	Experts Consultation Meeting	April 1, 2016	Beijing, China	20
China Urban Transportation Development Forum – TDM	Workshop	July 4, 2016	Beijing, China	60

Name	Type	Date	City	No. of Participants
Development Outlook Workshop 2016 on Transportation Energy Conservation and Emission Reduction in Beijing-Tianjin-Hebei Region under the 13th Five-Year Plan	Workshop	September 12, 2016	Beijing, China	50
World Metropolitan Transport Development Forum	Workshop	October 24-25, 2016	Beijing, China	500
Brownbag on Air Pollution and Health Risk – by Xiaochuan PAN, Professor of the School of Public Health, Peking University	Training	November 16, 2016	Beijing, China	30
NMT Plan for Financial Street Area Experts Consultation Meeting	Experts Consultation Meeting	February 17, 2017	Beijing, China	12
CC-Based Parking Research Experts Consultation Meeting	Experts Consultation Meeting	February 17, 2017	Beijing, China	12
LEZ/CC Policy Health Impact Analysis Experts Consultation Meeting	Experts Consultation Meeting	February 23, 2017	Beijing, China	22
Brownbag on Economic Impact Evaluation of Air Pollution – by Shiqiu ZHANG, professor of the College of Environmental Sciences and Engineering, Peking University	Training	March 16, 2017	Beijing, China	35
Brownbag on Air Pollutant Emissions and Impacts – by Huan LIU, associated professor of the School of Environment, Tsinghua University	Training	March 22, 2017	Beijing, China	30
Cross-Ministry Urban Congestion Mitigation Guideline Experts Consultation Meeting	Experts Consultation Meeting	April 27, 2017	Beijing, China	13
Urban Congestion Mitigation Technical Training	Training	April, 2017	Guiyang, Guizhou	60
Training on Survey Design and Methodology	Training	May 8, 2017	Beijing, China	30
International Workshop on Green Transportation Infrastructure Development	Workshop	September 15, 2017	Beijing, China	50
Big Data Application in the Evaluation of Transport Emissions Workshop	Workshop	November 8, 2017	Beijing, China	100
London CC Media Study Tour	Study Tour	October 26-27, and December 18-22, 2017	London, UK	17

Reports

Title	Type	Partner
Study on International Practices for Low Emission Zone and Congestion Charging	WRI Publication	Beijing Transport Institute
Evaluation on Pollutant Emission Reduction Effects of Beijing Low Emission Zone and Congestion Charging Policies	In the WRI Publication Process	Beijing Transport Institute
Beijing LEZ/CC Implementation Guideline	Client Report	Beijing Transport Institute
LEZ/CC Public Communication Strategy	Client Report	Beijing Transport Institute
Social Media Analysis: Case Study of Public Communication for Beijing Transit Fare Adjustment Policy	Client Report	IBM
International Case Studies on Public Communication and Consultation Strategies for Low Emission Zones and Congestion Charging Schemes	WRI Publication	Transport Technology Consultants Ltd.
Beijing CC Trial Project Cross-Department Collaboration Research	Client Report	Beijing Transport Institute
Beijing Parking Management Plan	Client Report	Beijing Transport Institute
Beijing NMT System Development Strategies and Policy Recommendations	Client Report	Beijing Transport Institute
Analysis of Public Opinion on CC Policy in Beijing in 2016	WRI Publication	Beijing Jiaotong University
LEZ/CC Evaluation Indicator System	Client Report	Beijing Transport Institute
Report on Urban Transportation Congestion Mitigation Comprehensive Strategy	Client Report	China Academy of Transportation Sciences
Guideline for Urban Traffic Congestion Mitigation (Suggestion Draft)	Client Report	China Academy of Transportation Sciences
Internal Brief to MOT on Urban Traffic Congestion Integrated Management Policy	Internal Brief	China Academy of Transportation Sciences
Special Plan for Bicycle and Pedestrian Transportation System	Client Report	Beijing Transport Institute
Report on Complementary Parking Management Plan to CC	Client Report	Beijing Transport Institute
Social Media Analysis of CC Policy	Client Report	Beijing Jiaotong University
Second Public Opinion Survey Results Analysis Report	Client Report	Beijing Jiaotong University
Transport Emission Health Impact Analysis Model Framework	Client Report	Beijing Transport Institute
LEZ/CC Policy Scenario Health Impact Analysis	Client Report	Beijing Transport Institute, Beijing Municipal Environmental Monitoring Center, School of Public Health of Peking University, and College of Environmental Sciences and Engineering of Peking University
Report on Cross-Ministry Congestion Mitigation Strategy	Client Report	China Academy of Transportation Sciences
Guideline for Cross-Ministry Urban Transport Congestion Mitigation (Suggestion Draft)	Client Report	China Academy of Transportation Sciences
Case Studies on Domestic and International Urban Transport Management	Client Report	China Academy of Transportation Sciences

Articles

Title	Publication and Date	Link
Congestion Pricing Can Make Beijing a More Equitable City	TheCityFix: July 21, 2014	http://thecityfix.com/blog/congestion-pricing-make-beijing-more-equitable-city-ying-wang/
Proper Use of Congestion Fee Can Cut Traffic Jams	China Daily: December 15, 2015	http://www.chinadaily.com.cn/opinion/2015-12/15/content_22714509.htm
In-Depth Analysis of London CC Experience and China Situation	MOT's magazine Transport Construction and Management: December 16, 2015	
Talking About CC Under Smog	China Strategic Emerging Industry Magazine: January 1, 2016	http://www.cnki.com.cn/Article/CJFDTotal-ZLXC201601032.htm
Sustainable Transport Equals Livable Cities	China Daily: January 30, 2016	http://www.chinadaily.com.cn/opinion/2016-01/30/content_23318433.htm
Improve Public Transport and Pedestrian System to Reduce Traveling by Car	ThePaper: April 26, 2016	http://www.thepaper.cn/newsDetail_forward_1461051
Lessons Learned from International Practices for Low Emission Zone and Congestion Charging	Urban Transport of China: May 31, 2016	http://www.wanfangdata.com.cn/details/detail.do?_type=perio&id=csjt201606005
Combating Traffic Congestion with Transport Demand Management in China	TheCityFix: December 14, 2016	http://thecityfix.com/blog/combating-traffic-congestion-with-transport-demand-management-in-china-ying-wang/
China Moves Toward Smart Green and Inclusive Freight Transport	TheCityFix: January 23, 2017	http://thecityfix.com/blog/china-moves-toward-smart-green-and-inclusive-freight-transport-su-song/
Manage Travel Demand and Change Travel Structure Through Market Mechanism	Transport Research Center WeChat Platform: April 15, 2017	http://mp.weixin.qq.com/s/n6U0-o5KeitzukzfXQKJ2g
Using London's Healthy Streets Approach to Deal With "Urban Diseases"	China Transport Newspaper: July 10, 2017	http://www.zgjt.com/2017-07/10/content_120522.htm
London Congestion Charging Policy and Its Impacts on Road Safety	Transport and Traffic: October, 2017	http://mall.cnki.net/magazine/Article/YSJT201706004.htm
Toward Car-Free Cities: Beijing Seeks an Inroad to Sustainable Transport	TheCityFix: November 30, 2017	http://thecityfix.com/blog/toward-car-free-cities-beijing-seeks-an-inroad-to-sustainable-transport-shiyong-qiu-ying-wang/
Mitigating Air Pollution Through Low Emission Zone Policy	Transport and Traffic: December, 2017	http://mall.cnki.net/magazine/Article/YSJT201801004.htm
Three Questions to be Discussed on Congestion Charging	Beijing Daily: February 24, 2018	http://bjrb.bjd.com.cn/html/2018-02/24/content_224865.htm

Communication Brochures

Name	Distribution and Date	Audience Number
Urban Transport Makes Life Unhappy	The Paper "Urban Data Visualization Contest": August to September 2015	450,000
Congestion Mitigation and Emissions Reduction – Develop a Safe, Convenient, Efficient, Green, Economical and Modern Comprehensive Transportation System	2016 Beijing Annual Two Sessions: January 2016	600
Exploring Beijing Low Emission Zone and Congestion Charging Policy	World Metropolitan Transport Development Forum: October 24-25, 2016	500
Low Emission Zone and Congestion Charging Public Opinion and Health Impact Analysis	Transforming Transportation 2018: January 2018	500

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ABOUT THE AUTHORS

Ying Wang is a Research Associate, WRI Ross Center for Sustainable Cities China Office
Contact: ywang@wri.org

Shiyong Qiu is a Research Analyst, WRI Ross Center for Sustainable Cities China Office
Contact: syqiu@wri.org

Ting Zhao is a Project Coordinator, WRI Ross Center for Sustainable Cities China Office
Contact: tzhao@wri.org

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WRI CHINA
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WORLD RESOURCES INSTITUTE (USA)

BEIJING REPRESENTATIVE OFFICE

RM K-M, 7/F, TOWER A, THE EAST GATE PLAZA, #9 DONGZHONG
STREET, BEIJING, CHINA, 100027

PHONE: 86 10 6416 5697

FAX: 86 10 6416 7567

WWW.WRI.ORG.CN