Deng Han, NMT senior Engineer&Bike sharing manager, Oct 10, 2017 Regional EST Policy Dialogue and Training Workshop





Institute for Transportation & Development Policy

## Transforming the Urban Space through Street Design



The Institute for Transportation and Development Policy(ITDP) is a global nonprofit at the forefront of innovation, providing technical expertise to accelerate the growth of sustainable transport and urban development around the world to make cities more livable, equitable, and sustainable. ITDP has offices in Brazil, China, India, Indonesia, Kenya, Mexico, and the United States;









#### 3 YEARS OF



50+ Bus Rapid Transit Corridors

Since 2004, ITDP has designed, supported, and inspired 54 bus rapid transit (BRT) corridors, building 1,033 km of BRT.

That's enough to cover the distance from Paris to Berlin.

#### 3 YEARS OF

Working Capital

Through advocacy and partnerships with the Global Environment Facility, the World Bank, the Asian Development Bank, and other large multilateral institutions,

ITDP has leveraged more than \$200 billion for investment in more sustainable transport.





One Extra Week

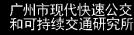
7.7 million people ride these BRTs every day, saving each person 7 days a year in commuting time.

That's about 140,000 years in total time saved!



Deng Han, NMT senior Engineer&Bike sharing manager, Oct 10, 2017 Regional EST Policy Dialogue and Training Workshop





Institute for Transportation & Development Policy

## Transforming the Urban Space through Street Design

Asian cities, especially cities in South Asia and South-east Asia
➢ High population density
➢ Fast economic development
➢ Rapid urbanization progress

Manila, Philippines

Traffic problems and the followings:
➢ Economic problems
➢ Social problems
➢ Health problems

### Manila, Philippines

Hàlo

### Manila, Philippines

Mannar /

TRAIL

XLZ 723

#### Vientiane, Lao PDR

#### Dongguan, China

#### Vientiane, Lao PDR

nn 2032

### Changzhou, China

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# Hong Kong, China

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# Changsha, China

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## Dacca, Bangladesh

strom, itdp.org.cn

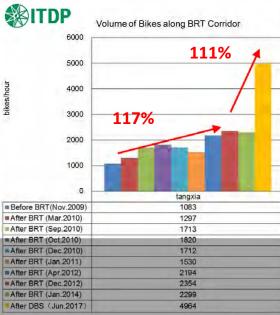
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### Guangzhou, China

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#### Guangzhou, China

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### Tianjin, China

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STATE ADAR

### Manila, Philippines

EngineEast

### Come back again

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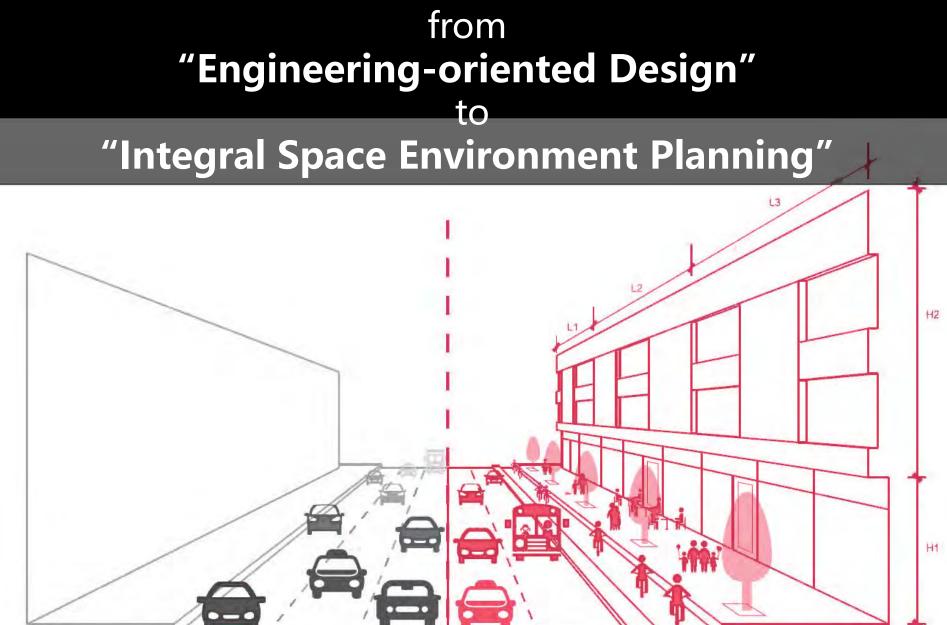
### What should we do

## Access for All:

## Guidance Note on Inclusive Street Design for Asia and the Pacific

#### from "Emphasis on motor vehicles" to "Focus on Exchanges among and Lifestyles of People"

Guangzhou, China



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D2

D3

R1\_0

Shanghai Street Design Guide

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#### from "Highlighting Traffic Efficiency" to "Enhance Integrative Development of Streets and Blocks"



Shanghai Street Design Guide









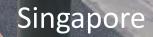


Walkable

# Width and pavement

Shanghai, China

## Shading



# **Raising crossing**

Singapore

指<del>洲</del>过在沙岛•抬升过街、

#### Guangzhou, China

Guangzhou, China

520



Guangzhou, China



Guangzhou, China

#### Guangzhou, China

### **Turning radius**



# Turning radius60%Crossing distance40%

Guangzhou, China

#### 沿江西路-新堤二横路交叉口

#### Guangzhou, China

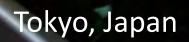
gr.

### **Refuge Island**

Istrom, it up-china.org

Hong Kong, China

### Visually Active Frontage



Si GBB

## Lighting

Y





### Network

Key: greenway(2010) greenway(2011, 2012) large demand points

Guangzhou, China

### Protected Cycle Lane

Xi'an, China

Lusates acadi

## Cycle Lane

×

PF-V7057

#### Shanghai, China

### Surface Material

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Yichang, China

### **Pavement**

MONJITAS 401

499

#### Santiago, Chile

### Cycle track

hina

Guangzho

## Jniversal Access

people who are blind
people in wheelchairs
people pushing prams, carts, luggage

Singapore



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Roland Internet

Shanghai, China

### **Universal Access across street**

抗口(北) HANG HAU (NORTH

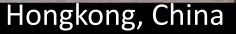
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Karl Fjellstrom-itdp-china.org

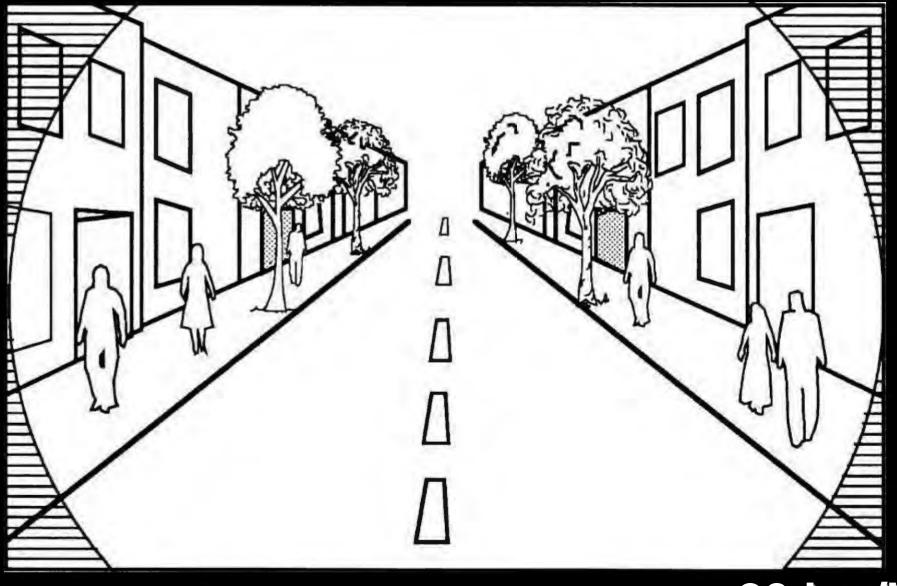
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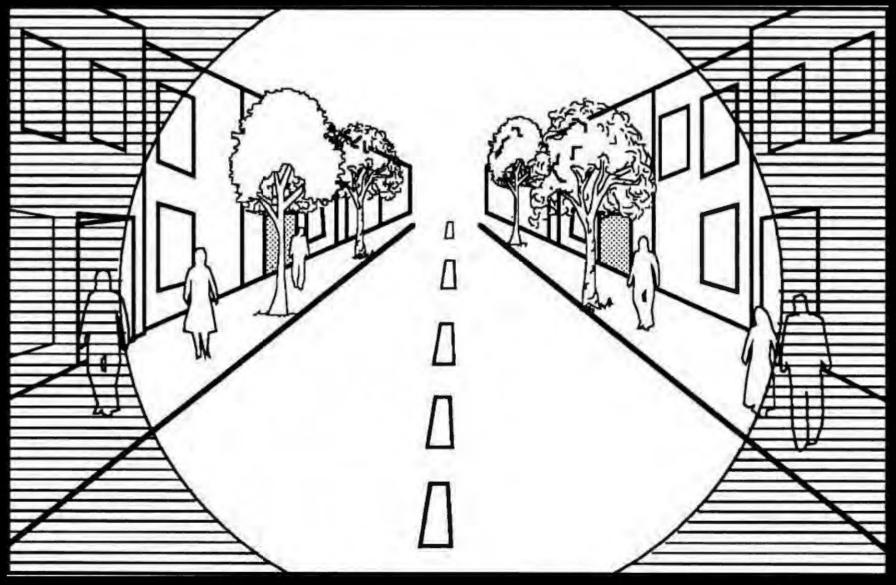




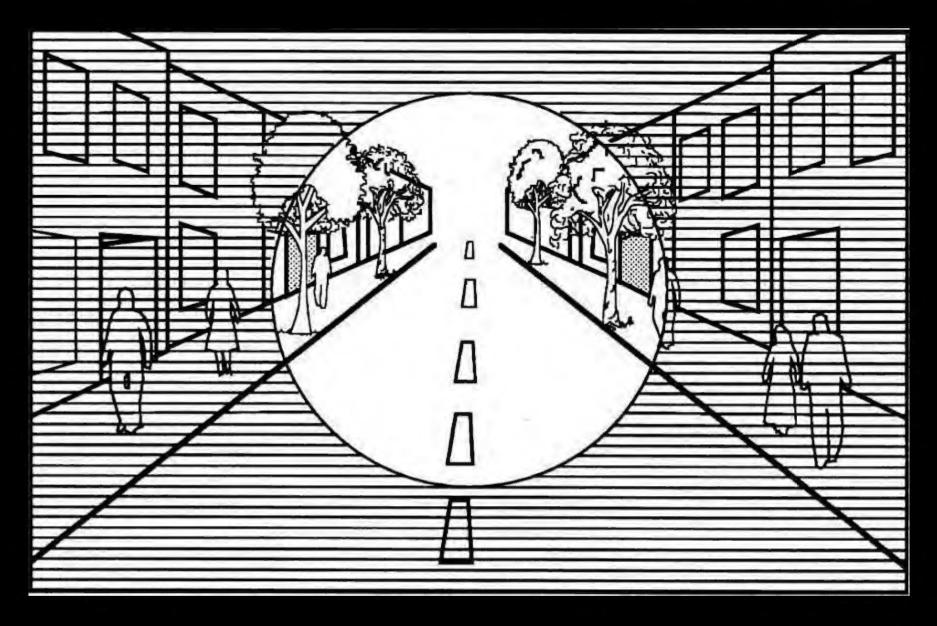
Traffic Calming



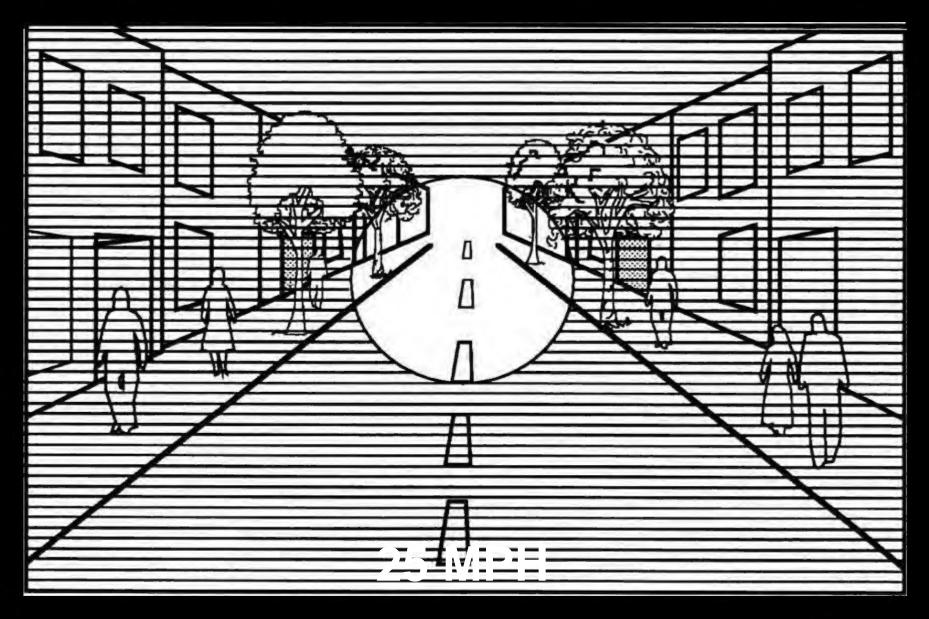
### 20 km/h



#### 30 km/h









### **Speed Restrictions**

SHOEP:

CONSTRATION

Karl Fjellstrom, itdp-china.org.

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Japan



## Speed Humb

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### **Raising intersection**

Karl Fjellstrom, itdp-china.org

#### Amsterdam

MOULLING

124



## **Iransit Integration**

50

Yichang, China 1

## **Transit Station Access**

Guangzhou, China

STATES OF THE OWNER.

AAD

### **Crossing at Bus Stops**

Shanghai, China

### Parking at Stops



# Playspace

SANARA THE TOP OF

zhou, China

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## Bike Sharing at Stops

#### Shanghai, China

# Public Space

### Reverounc

Shanghai, China

# Parklet

### henzhen, China

# Pocket Park



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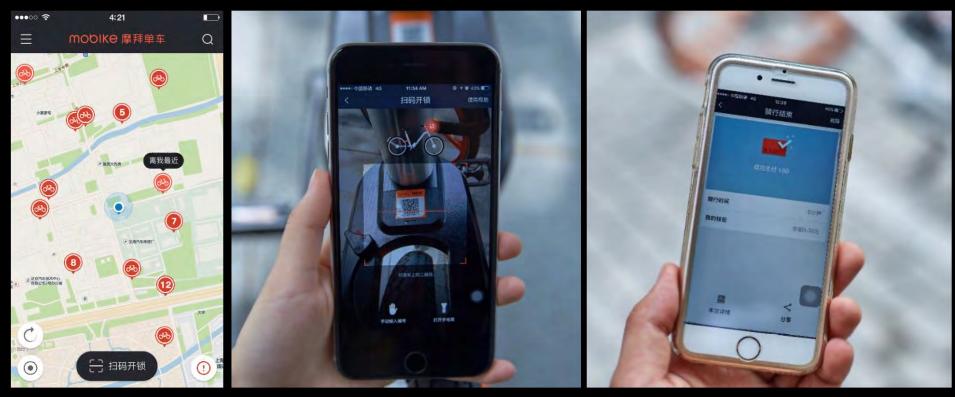
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Mobike Preferred Location

# **Dockless Bike Sharing**

## Case study of DBS-mobike

#### **Operation Mode**



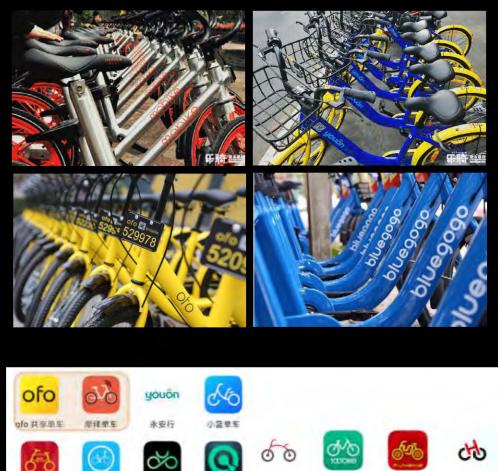
#### **Charging Mode**

- Mobike-1 RMB/0.5h
- Mobike lite-0.5 RMB/0.5h
- > 299 RMB Deposit

## **Current situation of DBS**

Until July, 2017 70+ DBS companies 16 million+ bikes 130 million+ registered users 1.5 billion+ riding in China.





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计信息室

**新口油** 

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小白单车

小嶋原和

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经防御方

新潟市

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1步9车

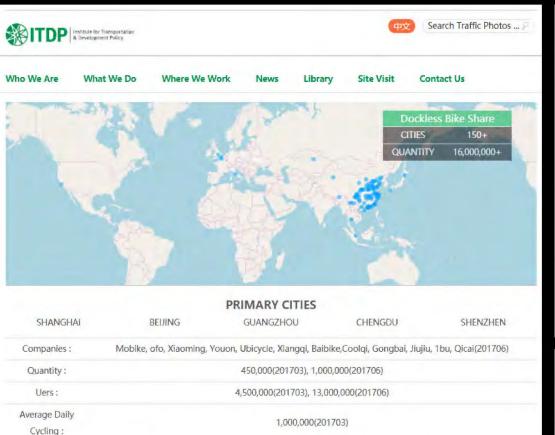








## http://www.itdp-china.org/dbs



'Dockless Shared Bike Service Standards', 'Dockless Shared Bike Technical Conditions Part 1: Bikes' and 'Dockless Shared Bike Technical Conditions Part 2: Electric Bikes' (20170705) Among them, 'the Dockless Shared Bike Technical Conditions' mainly involves in the product quality and safety requirements of dockless shared bikes. It not only requires dockless shared bikes to meet the national mandatory standards, but also increases the bike maintenance requirements and scrapping time requirements according to the characteristics of shared bikes to achieve the whole-process product quality management.' Dockless Shared Bike Service Standards' includes the platform construction, operating requirements, facilities and equipments maintenance requirements, charging methods, deposit management, complaint and report user integrity system management, user injury compensation, etc. among the concerns of the public.

Policy :

Name :	Mobike
Time :	2015.01
Features :	<ol> <li>The company that ignited bicycle sharing; 2. Unique design in the first generation of the bikes</li> <li>mobike has obtain substantial financing</li> </ol>
CEO :	Co-founder: Hu Weiwei, ex- media worker; CEO: Wang Xlaofeng, former GM of Uber Shanghai
Company Name :	Mobike Technology Co., Ltd.
Address :	Room 1231, Building B south, No. Jia5, Road Xueyuan, Haidian District, Beljing, China
Operation :	It is operated in 100 domestic and foreign cities e.g. Beljing, Shanghal, Guangzhou, Shenzhen, etc and totally 5 million bikes have been launched, 20 million orders per day nationwide, the number of users reaches 100 million(2017.06)
Financing :	A unclear ; B 10,000,000+ USD ; B+ 10,000,000+ USD ; C 100,000,000 USD ; C+ unclear ; D 215,000,000 USD ; strategic investment ; Equity investmen ; E 600,000,000 USD
Registeration :	1
Deposit :	299 RMB
Fee :	1 RMB/30 min ( Classic Mobike ) ; 0.5 mb/30 min ( Mobike lite )
Website :	http://mobike.com/cn/

#### **DBS ARTICLES**

#### The Development and Policy Recommendations for Dockless Bike Share (DBS) in China



In 2014, the ofo was established by a Peking University graduate Dai Wei and 4 partners, which almed at serving the internal transportation needs within the campus. In June 2015, the Peking University witnessed more than 2000 ofo bikes being shared, and then the dockless bike share (DBS) market has boomed over the entire country ......

#### Study on Development and Parking Management of Dockless Bike Share (DBS) and in Tianjin



Tlanjin, one of the four municipalities directly under the administration of the central government in China, is adjacent to the capital Beijing. It is the largest port city in the northern China and the key to the sea. In 2016, its permanent population has reached 15.62 million with a total built area of 11.946 thousand square kilometers. .....

#### The Market does not Believe in Tears-Brutal Growth of Bike-sharing Vs Well-Behaved Public Bicycles



With the rise of sharing economic concepts, and great development of payment technology on mart phone via the Internet as a medium in recent years, bike-sharing quickly entered the major cities in China in 2016. Vitually overnight, red, yellow, blue and other colors shared bikes spring up in every corner of the street. Same as the solution for "the last kilometer" ......

# Approaches



Access for All: Guidance Note on Inclusive Street Design for Asia and the Pacific Final Report. December 2016

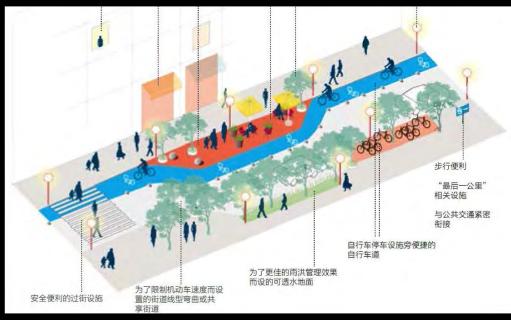




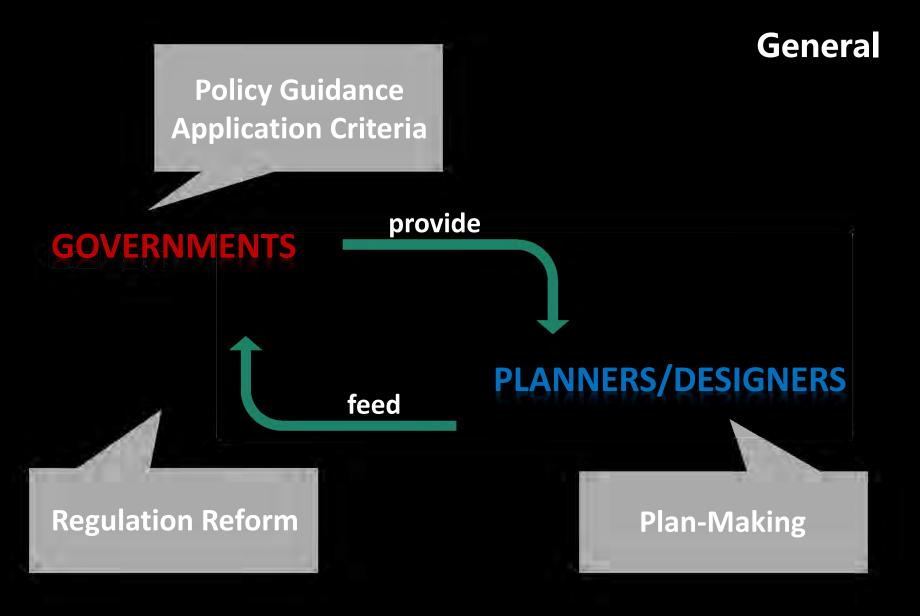
Guangzhou street road integrated total elements design manual



# Approaches







## Suggestion

# GOVERNMENTS

Advocate/ Feedback

改善措施 IMBr8v8m8nt Eff8rts

PLANNERS/DESIGNERS

## CITIZENS/STAKEHOLDER

Vientiane, Lao PDR

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Vientiane, Lao PDR

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# THANK YOU

www.itdp-china.org

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