

# Safe and Sustainable Street Design

A workshop for the City of Ljubljana, Slovenia

**Abhimanyu Prakash, Associate Director**

**Renata Carvalho, Program Manager**

**Marina Visic, Program Associate**

Global Designing Cities Initiative

**29th January, 2025**







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@GlobalStreets  
[globaldesigningcities.org](https://globaldesigningcities.org)







## GDCI & the Global Street Design Guide

Ljubljana, Slovenia 2025

Bloomberg  
Philanthropies

Initiative for Global  
**Road Safety**







# Global Designing Cities Initiative





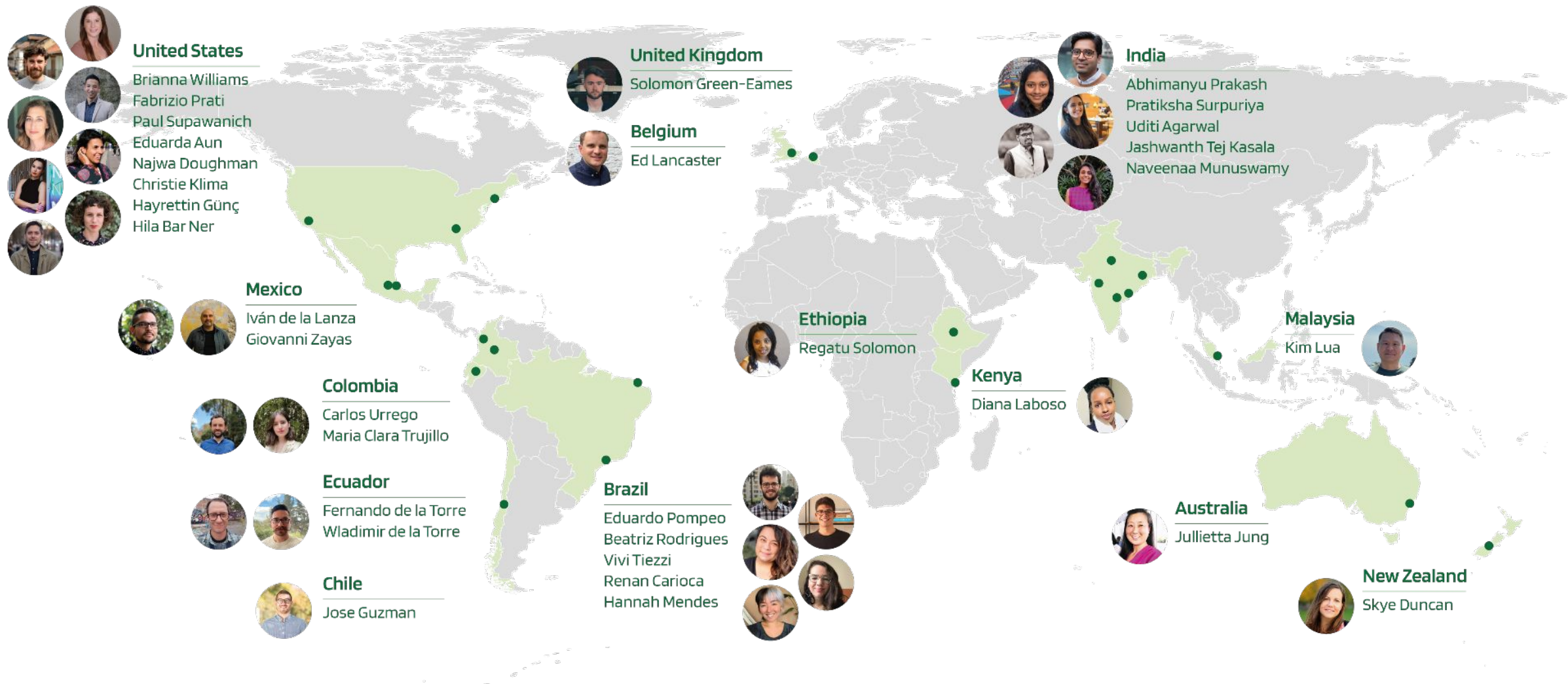
**Janette Sadik-Khan,**  
Former Commissioner of Transportation in New York City  
**Launched GDCI in 2014**



**Global  
Designing  
Cities  
Initiative**



# Global Team





**Our mission is to transform streets around the world, inspiring leaders, informing practitioners, and inviting communities to imagine what's possible when we design streets that put people first.**

# Global Street Design Guide

Global Designing Cities Initiative

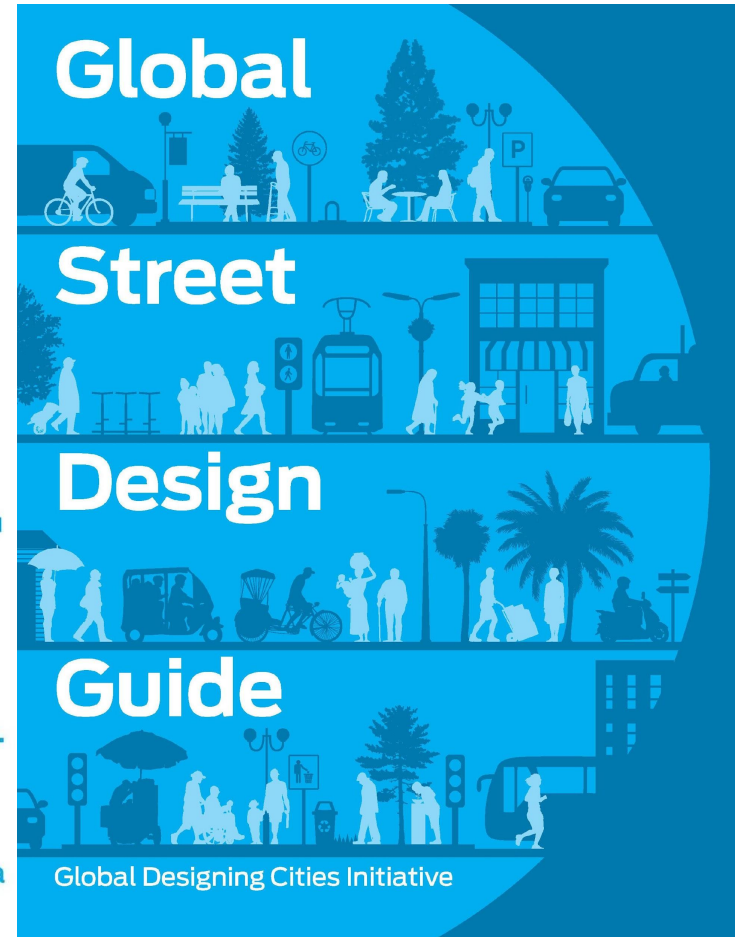




# 150+ contributors to GSDG

## CONTRIBUTORS

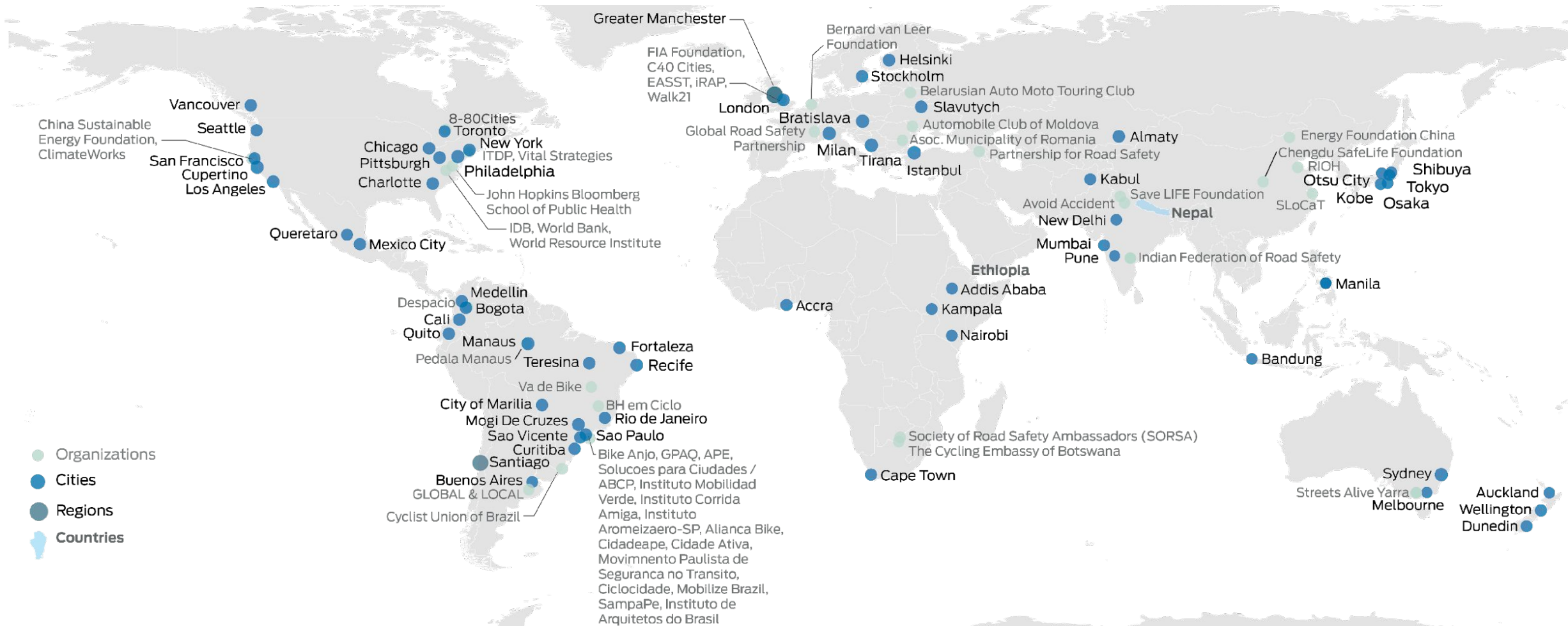
Argentina- Soledad Aguirre Sors/Guillermo Dietrich/Juanjo Mendez/Sol Mountford. Australia- Judy Jaeger/Rob Adams/Steven Burgess/Leanne Hodyl/Rob Moore/Stuart Niven/Bart Sbeghen/Ros Rymer/Sandy Burgoyne/Kerry Gallagher/Simon Lowe/ Emily Scott/Victoria State/Kristie Howes/Giles Michaux /Daniel Przychodzki/Lorrae Wild. Azerbaijan- Vusal Rajabli. Brazil- Ezequiel Dantas/Diego França/Tony Lindau/Marta Obelheiro/Priscila Coli Rocha/Clarisse Cunha Linke/Mauricio Duarte Pereira/ Washington Fajardo/André Lopes Pacheco Ormond/Ciro Biderman/Adriano Borges Costa/Gabi Callejas/Danielle Hoppe/ Fernando Mello Franco/Gustavo Partezani Rodrigues/Luis Eduardo Surian Brettas. Canada-Mark Van Elsberg/Anders Swanson. China- Karl Fjellstrom/Greg Smith/Sybren Boomsma/Xuesong Wang. Colombia- Leidy Constanza Lopez Mateus/William Mauricio V. Caicedo/Carlos Felipe Pardo/Diana Wiesner/Margarita Maria/Angel Bernal/Carlos Cadena Gaitan. Denmark- Sofie Kvist/Jeff Risom. Ecuador- Ana Maria Duran Calisto/Jaime Izurieta Varea. England- Toby Howe/Emma MacLennan/Philip Jones/Esther Kurland/Lilli Matson/Ben Plowden. Ethiopia- Mulugeta Abeje. Finland-Reeta Keisanen/Reeta Putkonen. Georgia-Gela Kvashilava. Germany-Burkhard Horn/Joerg Ortlepp/Maria Pohle/Andre Munch. Ghana- Nabe Kanfigue/Michael Konadu/Magnus Lincoln Quarshie/Korama Ocran. Greece-Stelios Efstathiadis. Haiti-Louino Robillard. India-Anuj Malhotra/Swati Ramanathan/Raj Cherubal/Shreya Gadepalli/Advait Jani/Madonna Thomas/Samarth Das /Binoy Mascarenhas/Piyush Tewari. Indonesia-Nunun Yanuati. Israel-Ofer Manor. Kenya-Cecilia Andersson/Christopher Kost/Hilary Murphy/Laura Petrella/Robyn Watson. Korea-Keong Gu Hong/YongJin Cho/Noh Soo Hong. Kosovo-Bekim Ramku. Kyrgyzstan-Chinara Kasmambetova.Laos-Bradley D Schroeder. Mexico-Salvador Herrera/Alejandro Larios Morales/Dhyana Quintanar Solares/Gabriel E. Todd/Adán Domínguez/Giovanni Zayas Franzoni. Moldova- Tatiana Mihailova. New Zealand-Ludo Campbell-Reid/Hayley Fitchett/Simon Harrison/Don Mckenzie/Lennart Nout/Melizza Morales Hoyos/Hugh Nicholson/Megan Wraight. Peru-Mariana Alegre Escorza. Russia-Artur Shakhbazyan. Scotland-Gillian Black. Singapore-Andrew David Fassam/Yi Ling Pang. South Africa-Katherine Ewing/Rashiq Fataar/Barbara Southworth. Sweden-Goethenburg/Suzanne Andersson/Daniel Firth/Svante Guterstam/Alexander Stahle. Switzerland-Sandra Piritz. The Netherlands-Dick Van Deen/Koen De Boo. Turkey-Merve Aki /Cigdem Corek. United States-Adnan Hyder/Andres Ignacio Vecino Ortiz/Michael Murphy/Jeffrey L. Rosenblum/Norman Garrick/Jason Vargo/David Vega-Barachowitz/Philippa Brashear/Oscar Correa/David Grahame Shane/Eric Jaffe/Ethan Kent/Lee Jung Kim/Michael King/Michael Kodransky/Karen Lee/Geeta Mehta/Justin Garrett Moore/Richard Plunz/Andrew Rudd/Jeffrey Shumaker/Morana Stipisic/Gary Toth/Nans Voron/Nick Falbo/Peter Koonce/Illaria Salvadori/Paul Supawanich/Robin Abad Ocubillo/Nathan Polanski/Julie Babinard/Soames Job/Ben Welle. Vietnam-Tra Vu. Zambia-Carl Johan Collet.



# 40+ countries 70+ cities




# Endorsed by over 100+ cities and organizations





# Free Download


**Global  
Street  
Design  
Guide**



Global Designing Cities Initiative

**2016**

**Designing  
Streets  
for Kids**

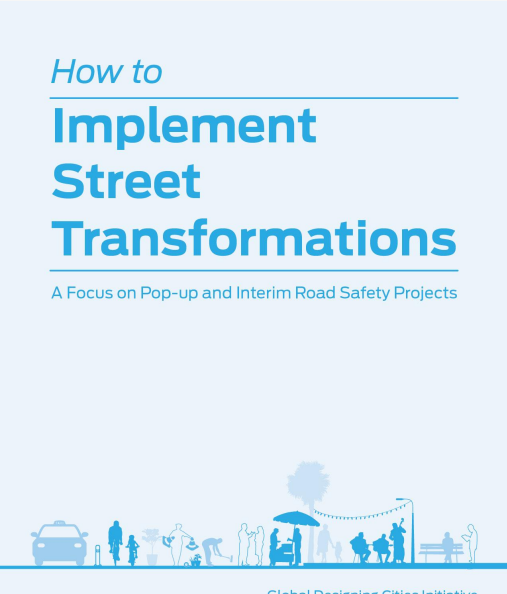


Global Designing Cities Initiative

**2020**

*How to*  
**Implement  
Street  
Transformations**

A Focus on Pop-up and Interim Road Safety Projects

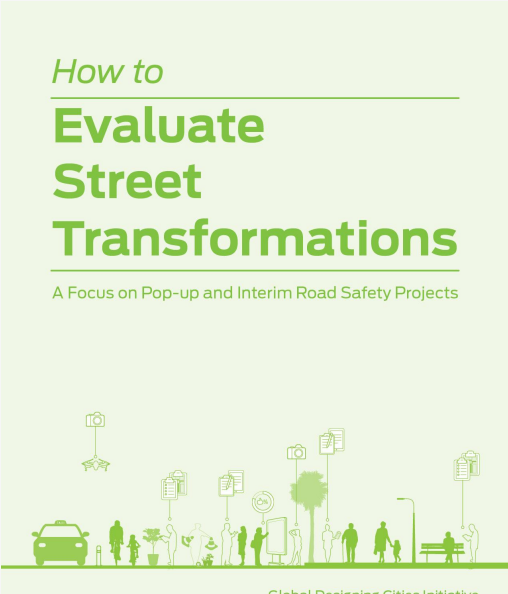


Global Designing Cities Initiative

**2022**

*How to*  
**Evaluate  
Street  
Transformations**

A Focus on Pop-up and Interim Road Safety Projects



Global Designing Cities Initiative

**2022**



# Designing Streets for Kids



# Streets for Kids

**Improved & Independent  
mobility**



**Places to pause, sit,  
and play**





# Streets for Kids should be..



New York City, USA | Credit: GDCl

**Safe & Healthy**



São Paulo, Brazil | Credit: GDCl

**Comfortable & Convenient**



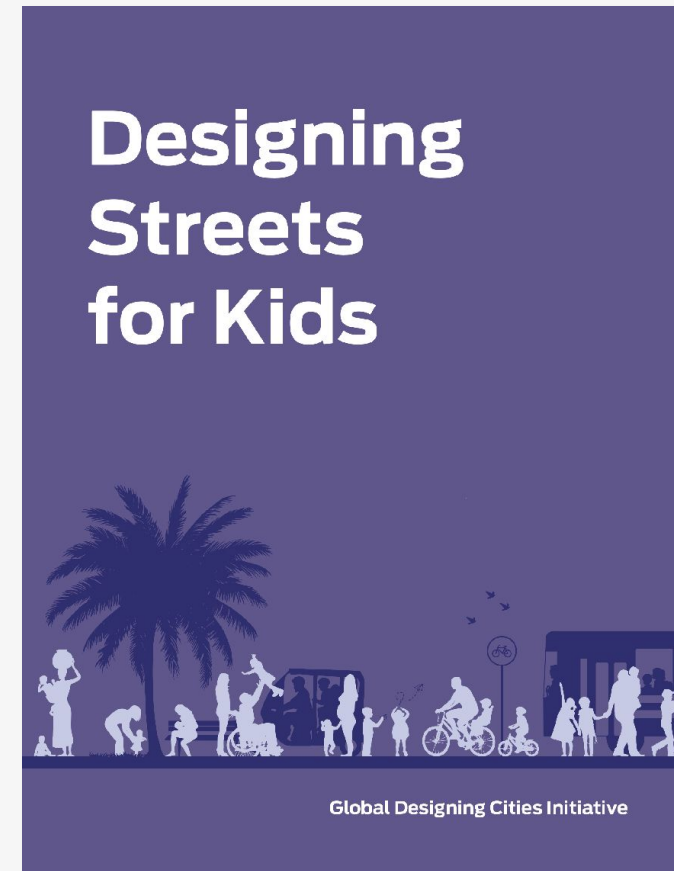
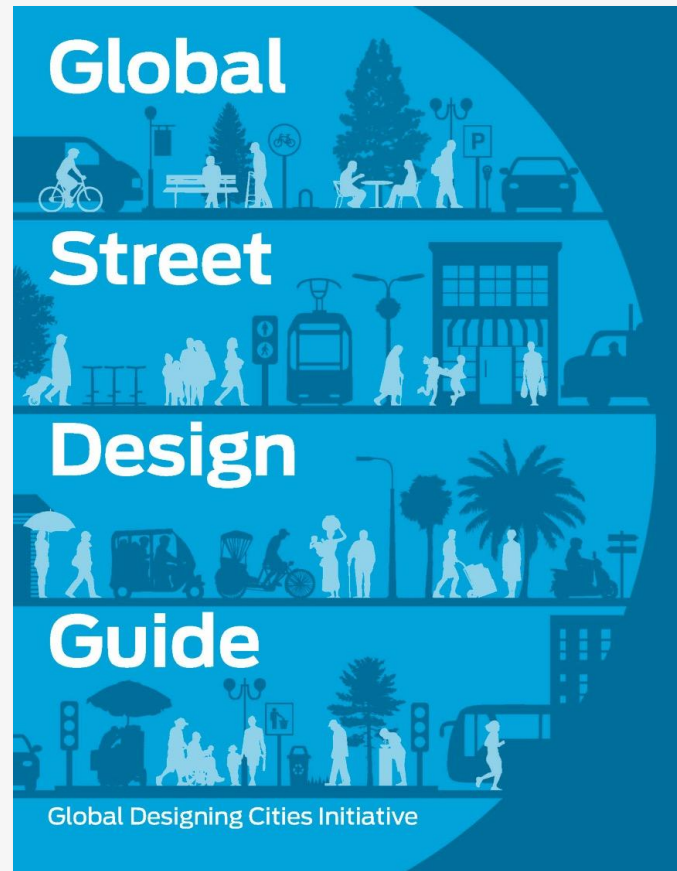
Montreal, Canada | Credit: Melanie Dusseault

**Inspirational & Educational**



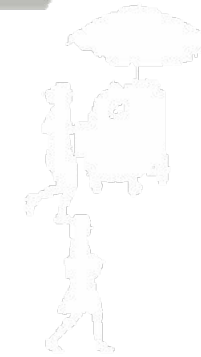
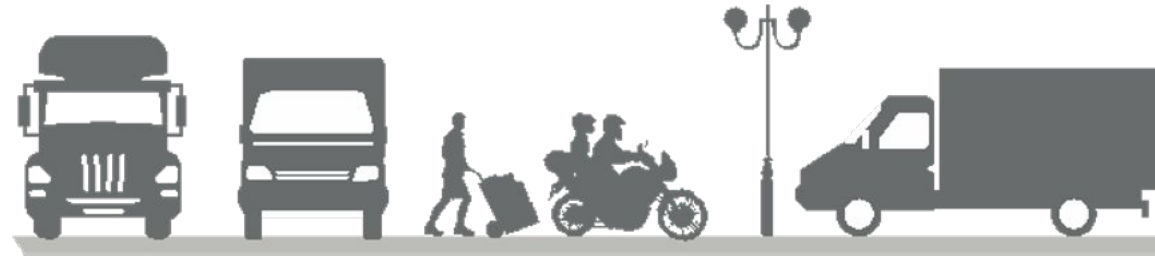
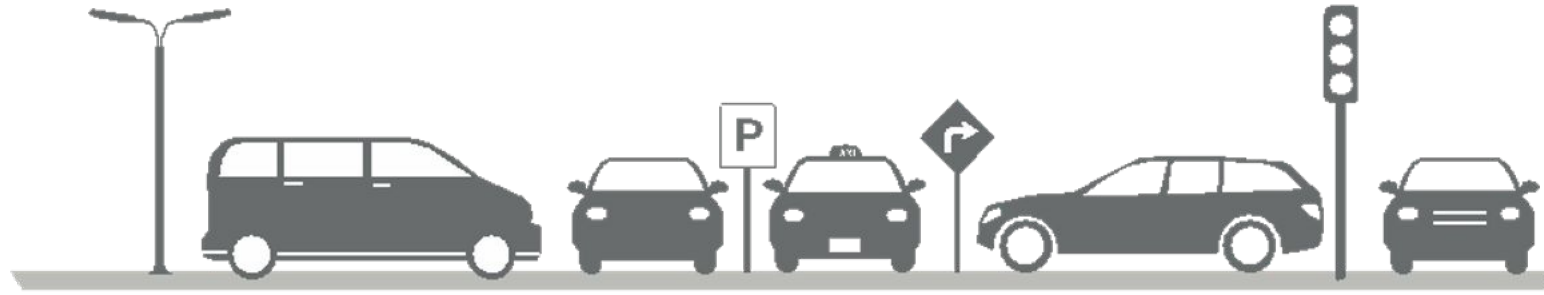
- [illegible]

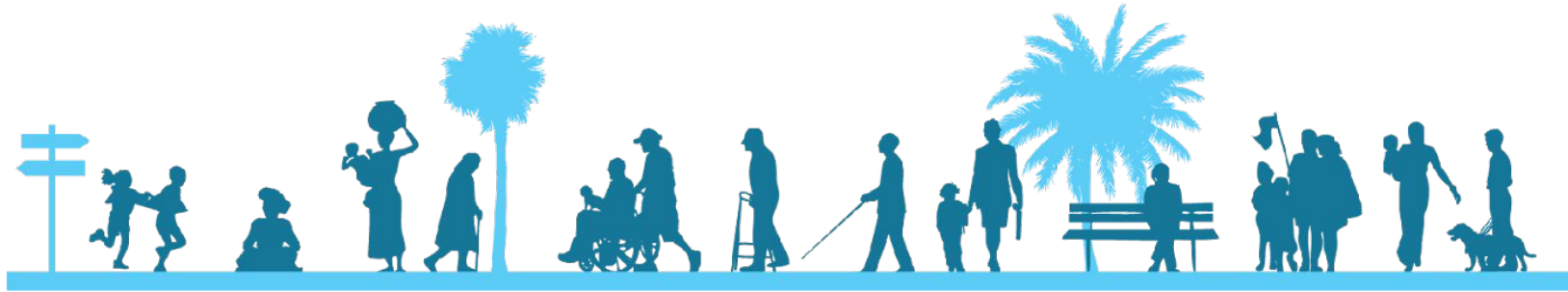
Provide the tools to reimagine, reinvent, and redesign safer, more sustainable streets!













# What is Possible?

Existing: 60km/h



Reconstruction: 40km/h



Invite  
Street  
Activity

Change  
Street  
Geometry

Create  
Cycle  
Facilities

Add  
Seating

Add or  
Improve  
Pedestrian  
Crossings

Add  
Energy-  
Efficient  
Lighting

Improve  
Signals

Enhance  
Enforcement

Organize  
Transit

Integrate  
Public  
Artwork

Connect  
Walking  
Networks

Upgrade  
Materials

Reduce  
Speed  
Limits

Add Green  
Infrastructure

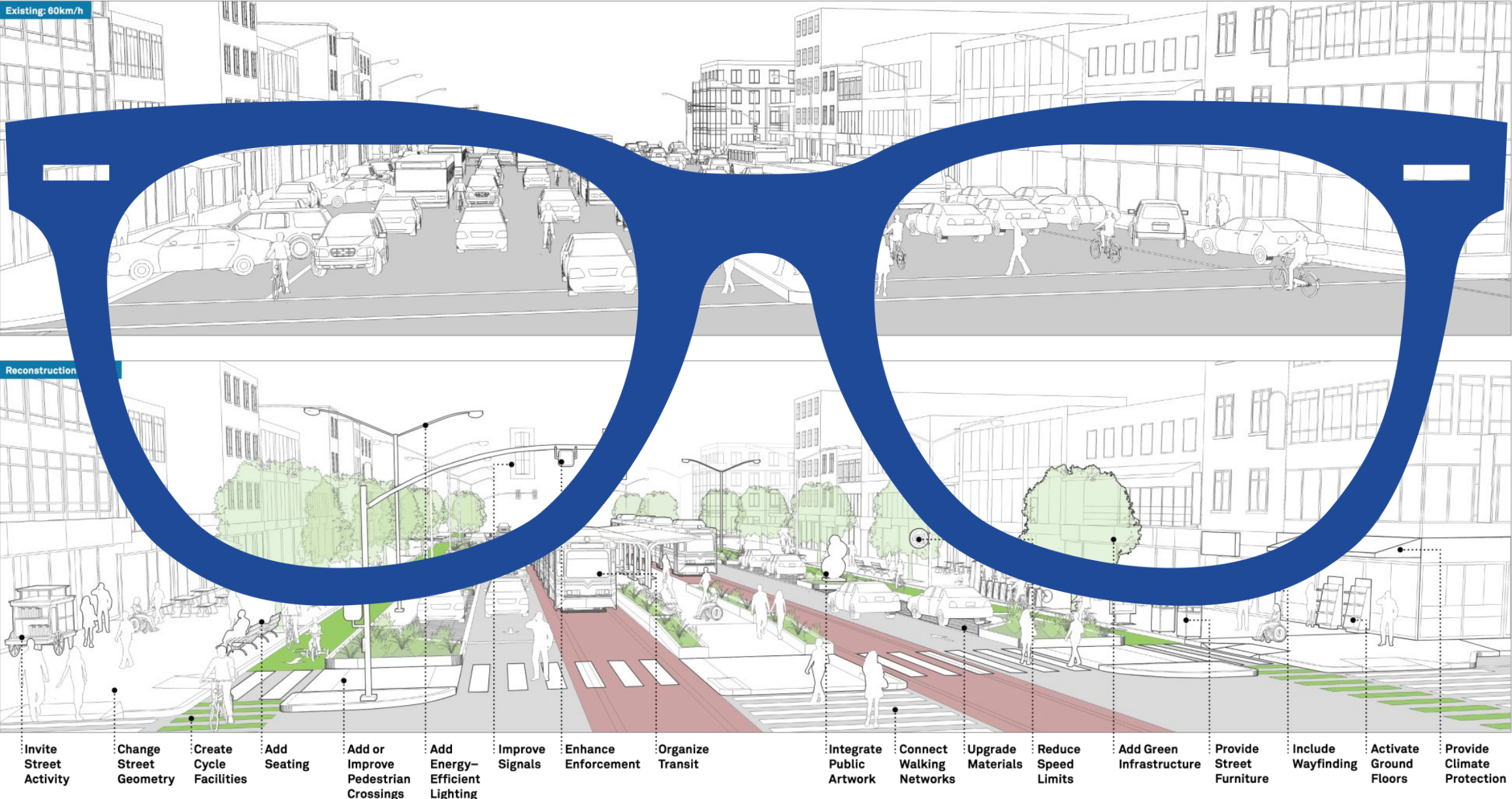
Provide  
Street  
Furniture

Include  
Wayfinding

Activate  
Ground  
Floors

Provide  
Climate  
Protection

# What is Possible?





# What is Possible?

Existing: 60km/h



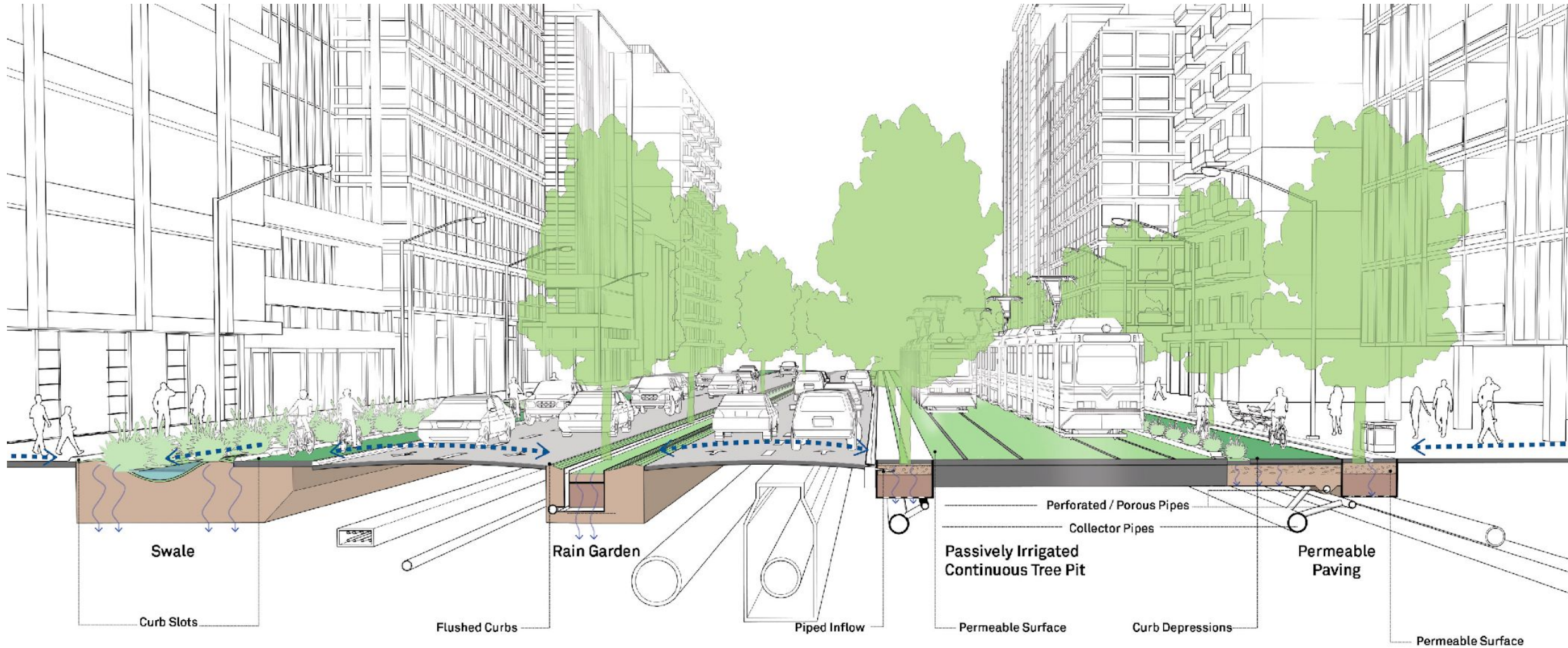
Reconstruction: 40km/h



- Invite Street Activity
- Change Street Geometry
- Create Cycle Facilities
- Add Seating
- Add or Improve Pedestrian Crossings
- Add Energy-Efficient Lighting
- Improve Signals
- Enhance Enforcement
- Organize Transit
- Integrate Public Artwork
- Connect Walking Networks
- Upgrade Materials
- Reduce Speed Limits
- Add Green Infrastructure
- Provide Street Furniture
- Include Wayfinding
- Activate Ground Floors
- Provide Climate Protection



# Design for more functions



Water Table



# Design for more people



Pedestrians



Cyclists



Transit Riders



Motorists



Freight Operators  
and Service  
Providers



People Doing  
Business



from  
**PAPER**  
to  
**PRACTICE**





# Programs

## BIGRS

Bloomberg  
Philanthropies  
Initiative for Global  
Road Safety

Collaboration with

**Bloomberg  
Associates**

## Street for Kids

## BICI

Bloomberg Initiative for  
Cycling Infrastructure



Bloomberg Associates

Bloomberg  
Philanthropies








Bloomberg  
Philanthropies



*fondation*  
**BOTNAR**

# Global Reach – 30+ cities



-  Bloomberg Philanthropies Initiative for Global Road Safety (BIGRS)
-  Collaborations with Bloomberg Associates
-  Street for Kids Program
-  Early Childhood Development
-  BICI



## Policy and Design Guidance



## Capacity Building and Community Engagement



## Interventions and Transformations



## Metric Collection and Evaluation





## Policy and Design Guidance



## Capacity Building and Community Engagement

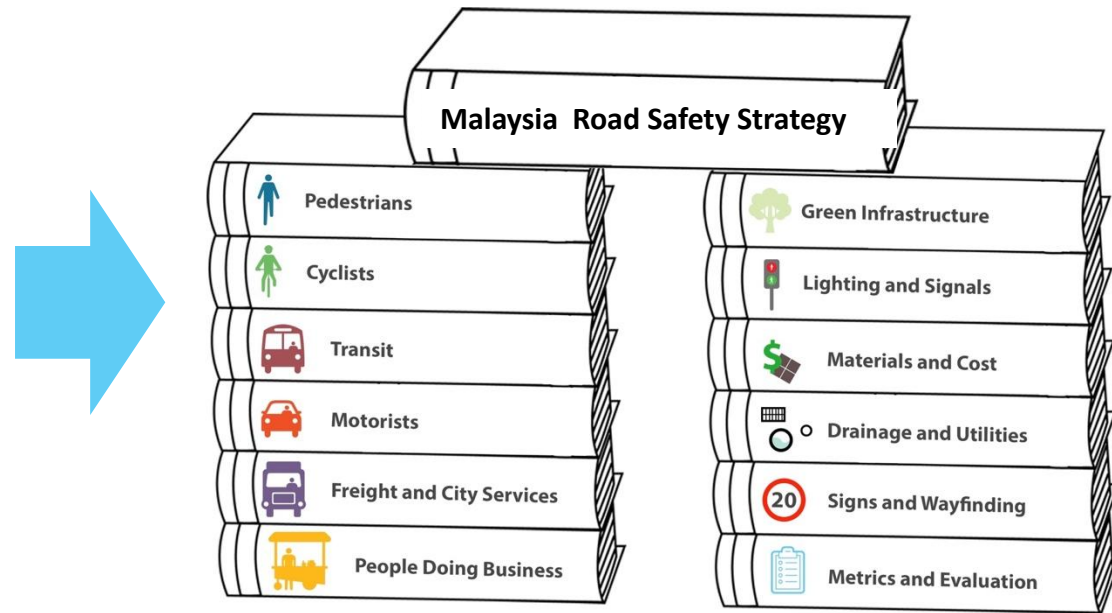


## Interventions and Transformations



## Metric Collection and Evaluation

# Policy and Guidance



# Bogotá, Colombia

## Street Design Manual



### Manual de Calles de Bogotá



ALCALDÍA MAYOR  
DE BOGOTÁ D.C.

### Manual de Calles de Bogotá



BOGOTÁ  
MEJOR  
PARA TODOS

La información contenida en este documento es preliminar y es de uso exclusivo para quien la reciba de primera mano. Su divulgación debe hacerse bajo el consentimiento del Tercer del Mayor de la Secretaría Distrital de Planeación, quien además advierte que su contenido se encuentra en construcción y puede modificarse total o parcialmente a su propia discreción.





## **Policy and Design Guidance**



## **Capacity Building and Community Engagement**



## **Interventions and Transformations**



## **Metric Collection and Evaluation**

# Who's involved in Shaping Safe Streets + Sustainable Transportation Options?





# Engineers Trainings



## Fundamentals of Safer Street Design

10th July 2024

SDG Center

Workshop conducted by:

- Global Designing Cities Initiative
- Bloomberg Initiative for Global Road Safety

Participants:

- KKR
- JKR
- PDRM
- DBKL
  - JPB
  - JPIF
  - JKAWS
  - JPPPB
- MIROS





# Engineers Trainings





# Capacity Building – City agencies



# Capacity Building and Trainings – Online

## [WIP] Tài liệu đào tạo Hướng dẫn Thiết kế Đường phố Toàn cầu



Khóa đào tạo trực tuyến Hướng dẫn Thiết kế Đường phố Toàn cầu là khóa đào tạo tự học đầu tiên dựa trên thiết kế đã đạt giải thưởng của Quỹ Sáng kiến Thiết kế Thành phố Toàn cầu.

Bộ tài liệu Hướng dẫn Thiết kế Đường phố Toàn cầu được thiết kế để định nghĩa lại vai trò của đường phố tại các đô thị trên thế giới. Hướng dẫn được hình thành dựa trên thông tin của các chuyên gia từ 72 thành phố tại 42 quốc gia, đưa ra những chỉ dẫn mới về thiết kế đường phố dành ưu tiên hơn cho con người.

Khóa học tương tác sẽ hướng dẫn cho bạn những nguyên tắc cơ bản về thiết kế đường phố đô thị cho mọi đối tượng ở mọi lứa tuổi và khả năng.

Chào mừng bạn đến với Khóa đào tạo trực tuyến Hướng dẫn Thiết kế Đường phố Toàn cầu!

Sau khi hoàn thành khóa học này, bạn sẽ học được các nguyên tắc thiết kế đường phố bền vững và an toàn cho mọi đối tượng.





# Police Training



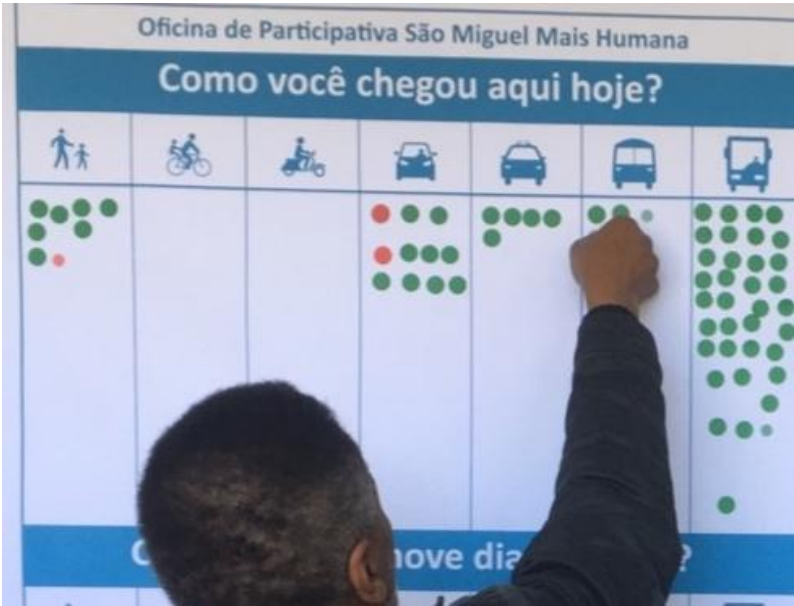


# Journalist Training





# Community Engagement





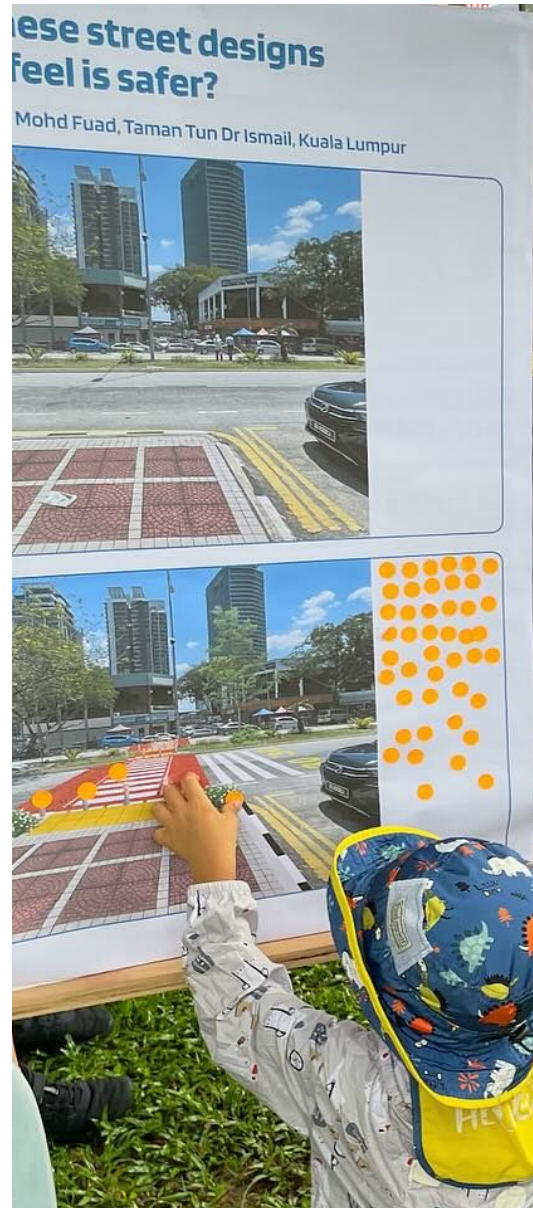
# Community Engagement



\*SK Danau Kota 2 Student Engagement Workshop



# Community Engagement







## Policy and Design Guidance



## Capacity Building and Community Engagement



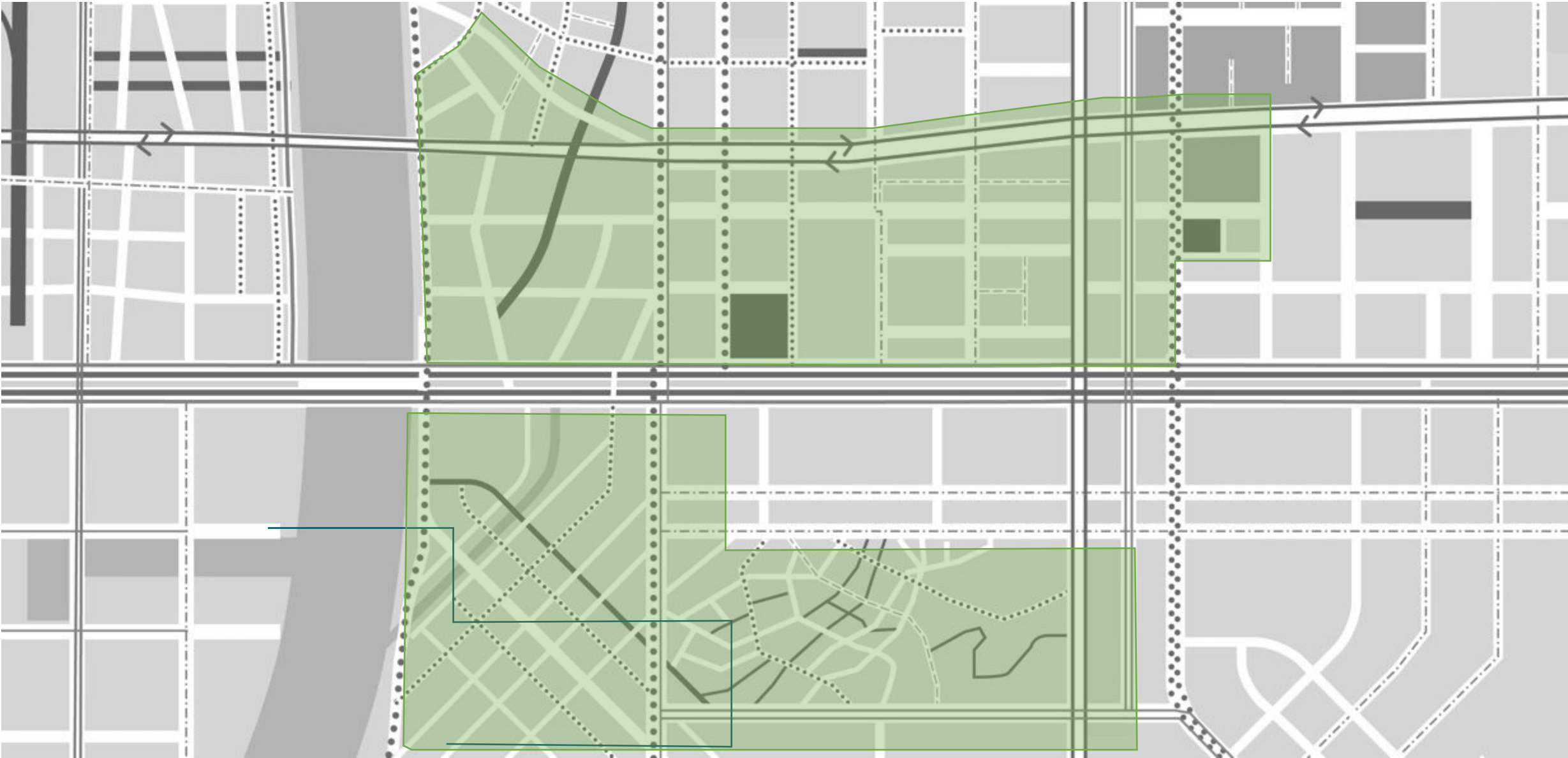
## Interventions and Transformations



## Metric Collection and Evaluation



# Zones or Districts



# Low speeds and school zones



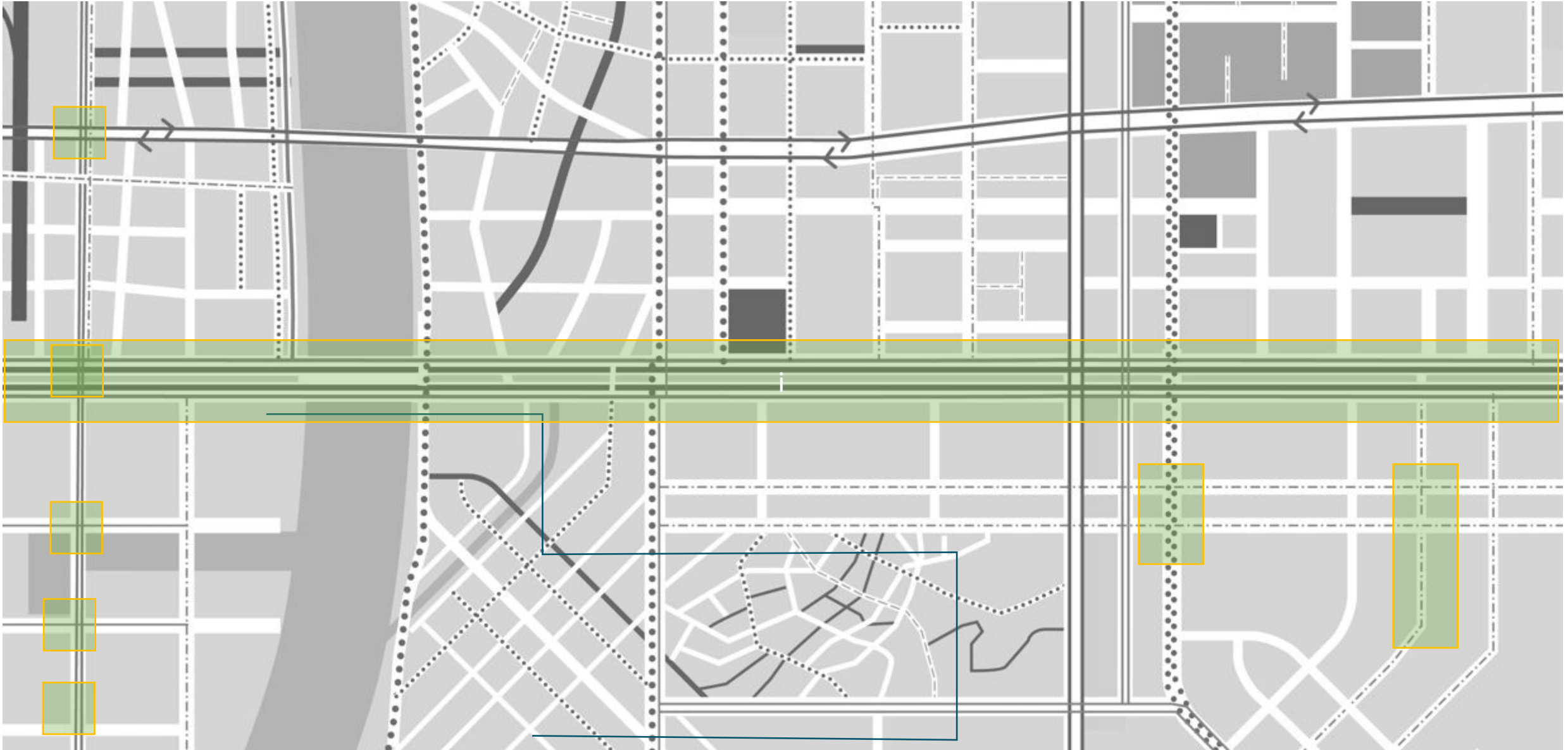
**Rediseño**



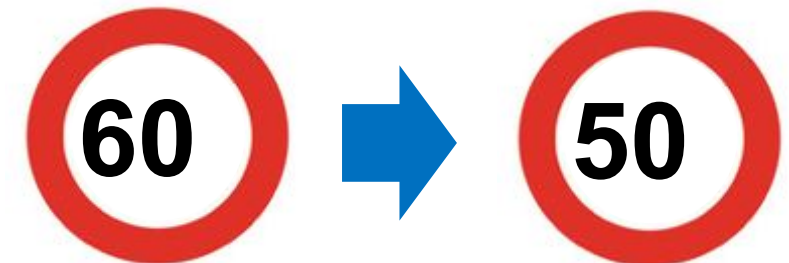
**Reducción del límite de  
velocidad**



# Corridors and intersections



# Corridor redesign + Reducing speed







Opportunity to *quickly* transform streets  
using *temporary* or  
*interim* materials  
in order to  
*scale up & make permanent*  
for long term



## El Ingés Vision Zero Zone. Before



**Before**

**Road safety risks**

Freight vehicles  
Unsafe pedestrian crossings  
Car-centric design



# BIGRS Bogotá Phase I

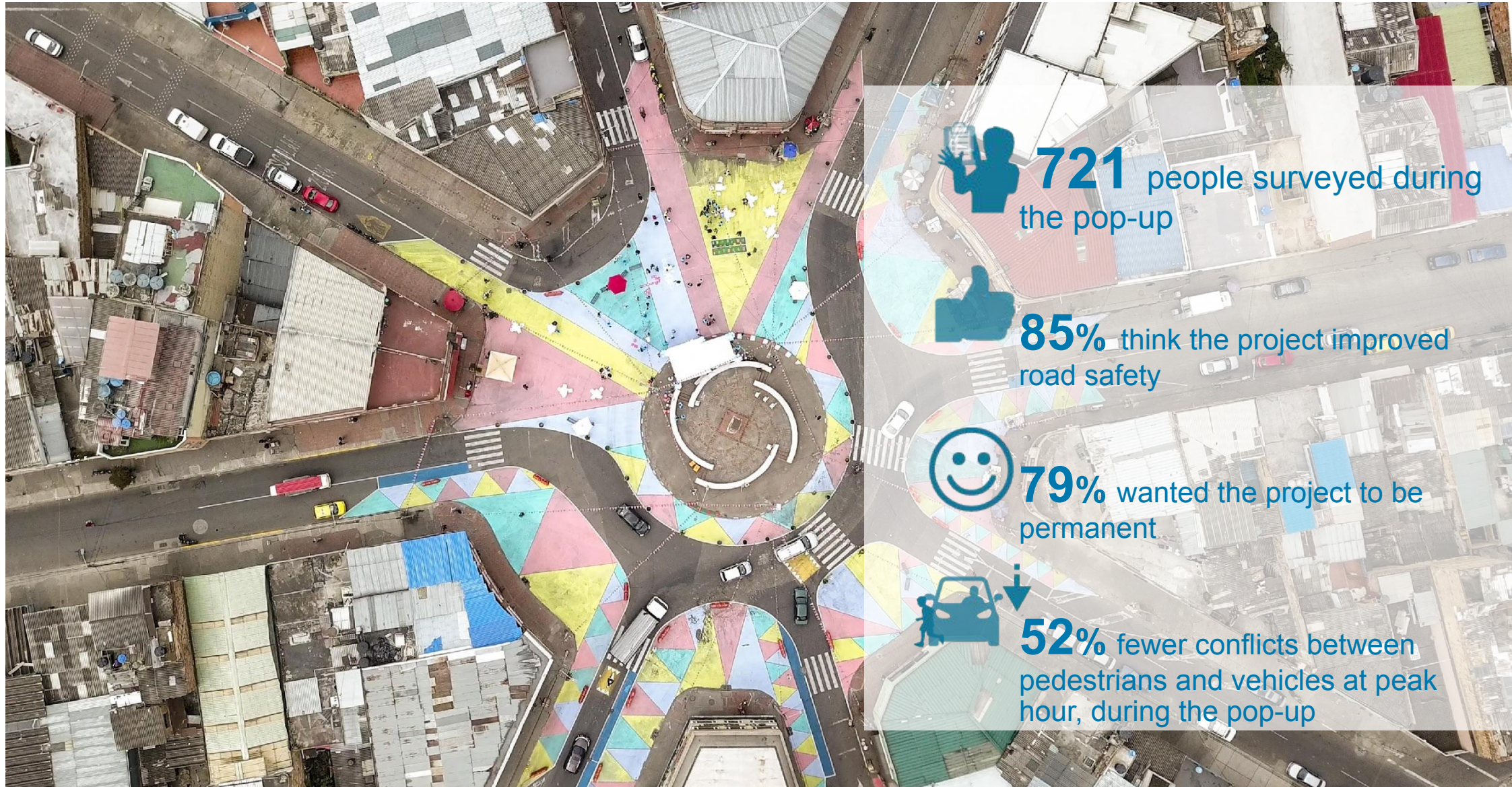
## El Ingés Vision Zero Zone. Pop-up





# BIGRS Bogotá Phase I

## El Ingés Vision Zero Zone. Pop-up





# BIGRS Bogotá Phase I

## El Ingés Vision Zero Zone. Interim





# BIGRS Bogotá Phase I

## El Ingés Vision Zero Zone. Interim



This transformation. Resulted in a **46%** reduction in maximum speed, from 60 km/h (before) to 32 km/h (after).





79%

want the design to be  
converted into capital  
construction





Bogotá





Bogotá

Fotos: NACTO-GDCI





Istanbul, Turkey

Working with Maltepe  
Municipality & Superpool





Istanbul, Turkey

Working with Maltepe  
Municipality & Superpool





Istanbul, Turkey





**Before**

Zümrütevler Plaza

Working with Maltepe  
Municipality & Superpool



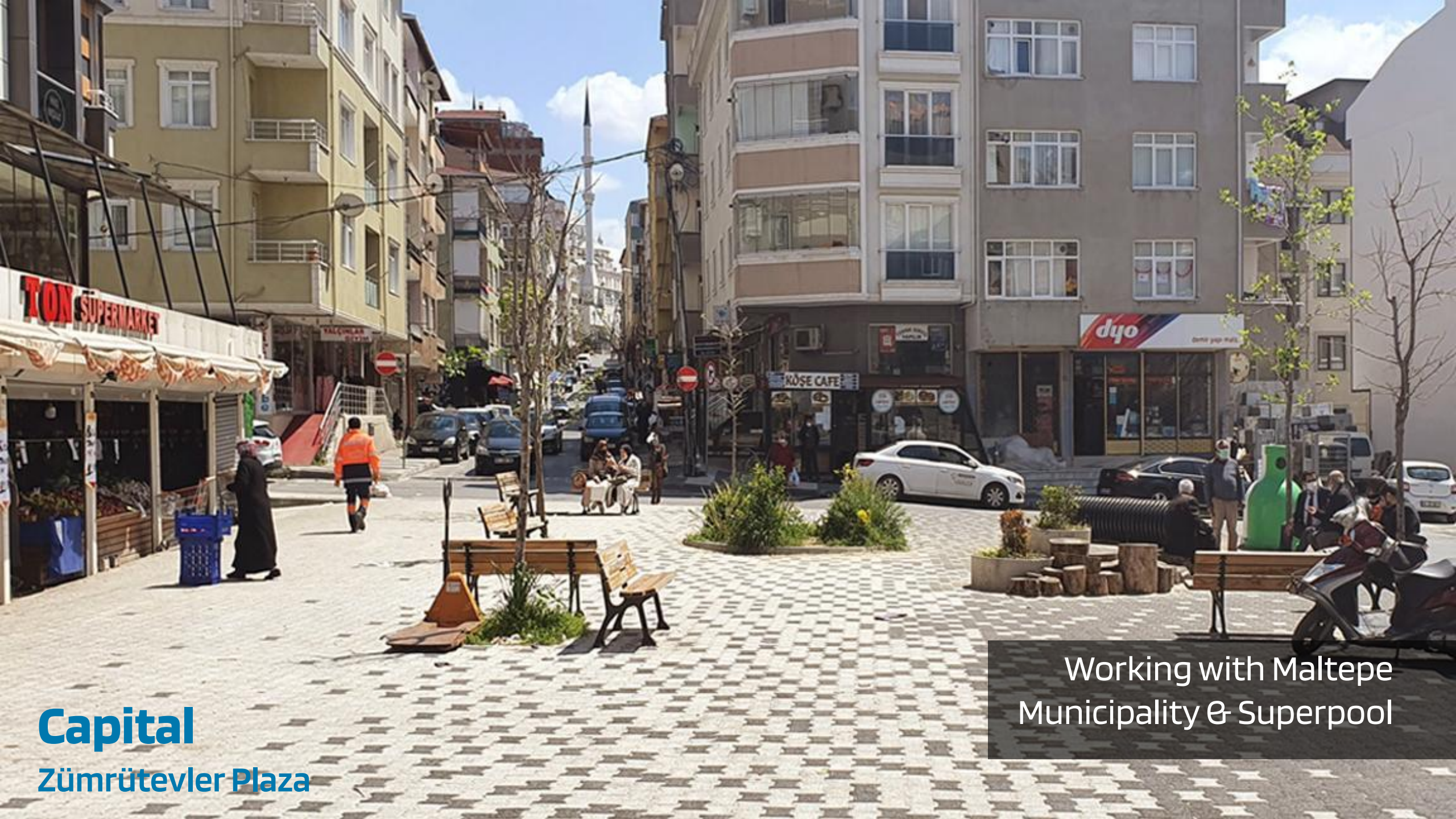


**Interim**

**Zümrütevler Plaza**

Working with Maltepe  
Municipality & Superpool





**Capital**  
Zümrütevler Plaza

Working with Maltepe  
Municipality & Superpool













ALÇINLAR  
GIYİM



İPAŞ

İMİ LUK

CR 88

ZÜMRÜT  
HALIYAT  
YAPILAN  
KURU ARA 37.41

ZÜMRÜT  
HALIYAT  
YAPILAN  
KURU ARA 37.41



KÖŞE CAFE  
ACMA  
SİMİT  
POĞACA  
TOST  
AYRAN  
M. SUTU  
SOBA  
MEZİYEMEN  
KURU ARA 37.41  
KORBA  
MEZİYEMEN

ÇAY  
NESCAFE  
TÜRK KAHVESİ  
MESURBAT  
ACMA  
SİMİT  
POĞACA  
TOST

MAR









Yali Plaza, Istanbul, Turkey





Yali Plaza, Istanbul, Turkey





Yali Plaza, Istanbul, Turkey









**55% reduction**  
in motor  
vehicles  
exceeding the  
speed limit





x7

more children playing  
on the street





Zümrütevler (Maltepe 73)

Asfaltartı (Altaycesme)

Maltepe Sahil Parkı

TOPUK (TSKM)

Prof. Dr. Türkan  
Saylan Kültür Merkezi

Play Street (Yalı)

SFK (Cevizli)

VM Medical Park  
Maltepe Hastanesi

# Istanbul, Turkey





## Policy and Design Guidance



## Capacity Building and Community Engagement



## Interventions and Transformations









## Metric Collection and Evaluation

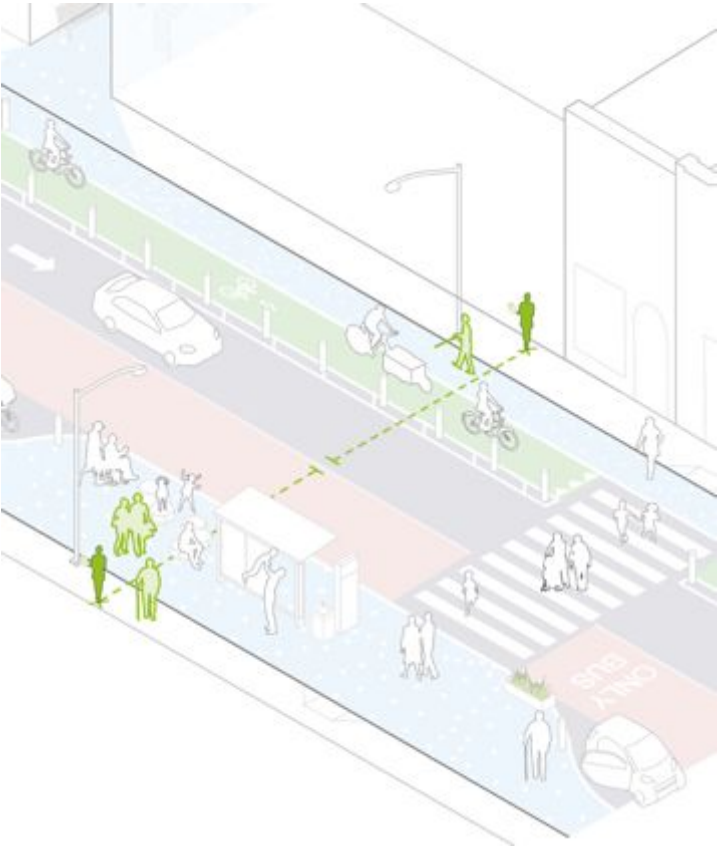
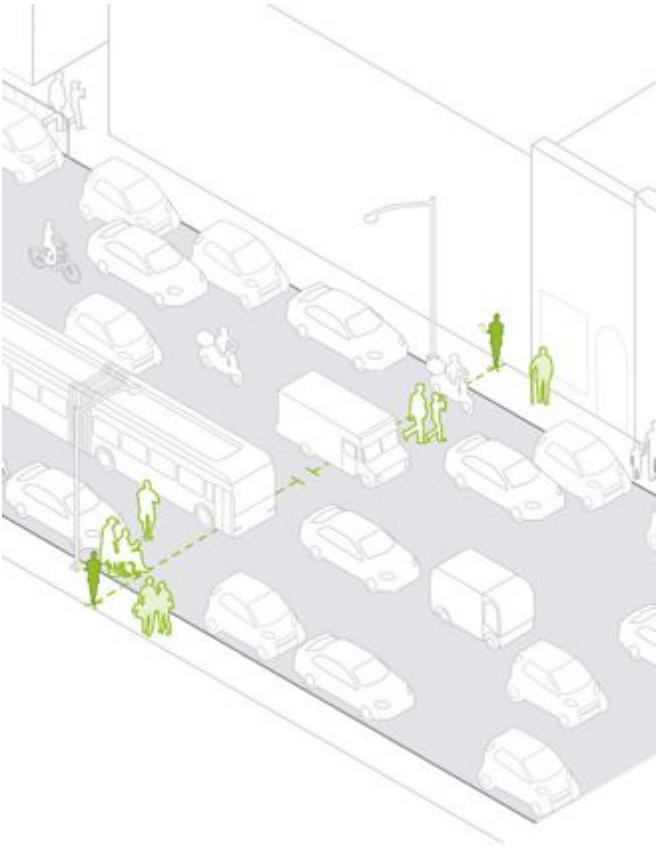


# Corridor Redesign + Speed Limit Reduction

## Pedestrian Counts: On/Off Sidewalks

Project name:

Surveyor name								Basemap
Date/time								
Day of the week								
Weather								
Notes								
<i>Tally pedestrians by age, gender and ability that are walking on the sidewalk, and on the roadbed, separately. Separate sidewalk counts by side of the street if appropriate. Count for a period of at least 15 minutes. On high volume streets you may need to be selective with what information is collected.</i>								
Symbol (optional)	Perceived gender: X Female / Male							
Pedestrian type	 0-5	 Child/Teen	 Adult	 Person in wheelchair	 Older adult (75+)	 Deliveries/cart	Total (all types)	
On sidewalk (side A)								
Total on sidewalk A								
Roadbed								
Total on the roadbed								
On sidewalk (side B - optional)								
Total on sidewalk B								
Total (all)								



 Sidewalk

 Roadbed

 New space for pedestrians

 New space for bicycles

 Surveyor

 Invisible line surveyed

 Pedestrians counted off sidewalk

 Pedestrians counted on sidewalk

 Road users not counted



# Rediseño de corredores + reducción del límite de velocidad

## Redesign + Control

**42%** reduction in crashes

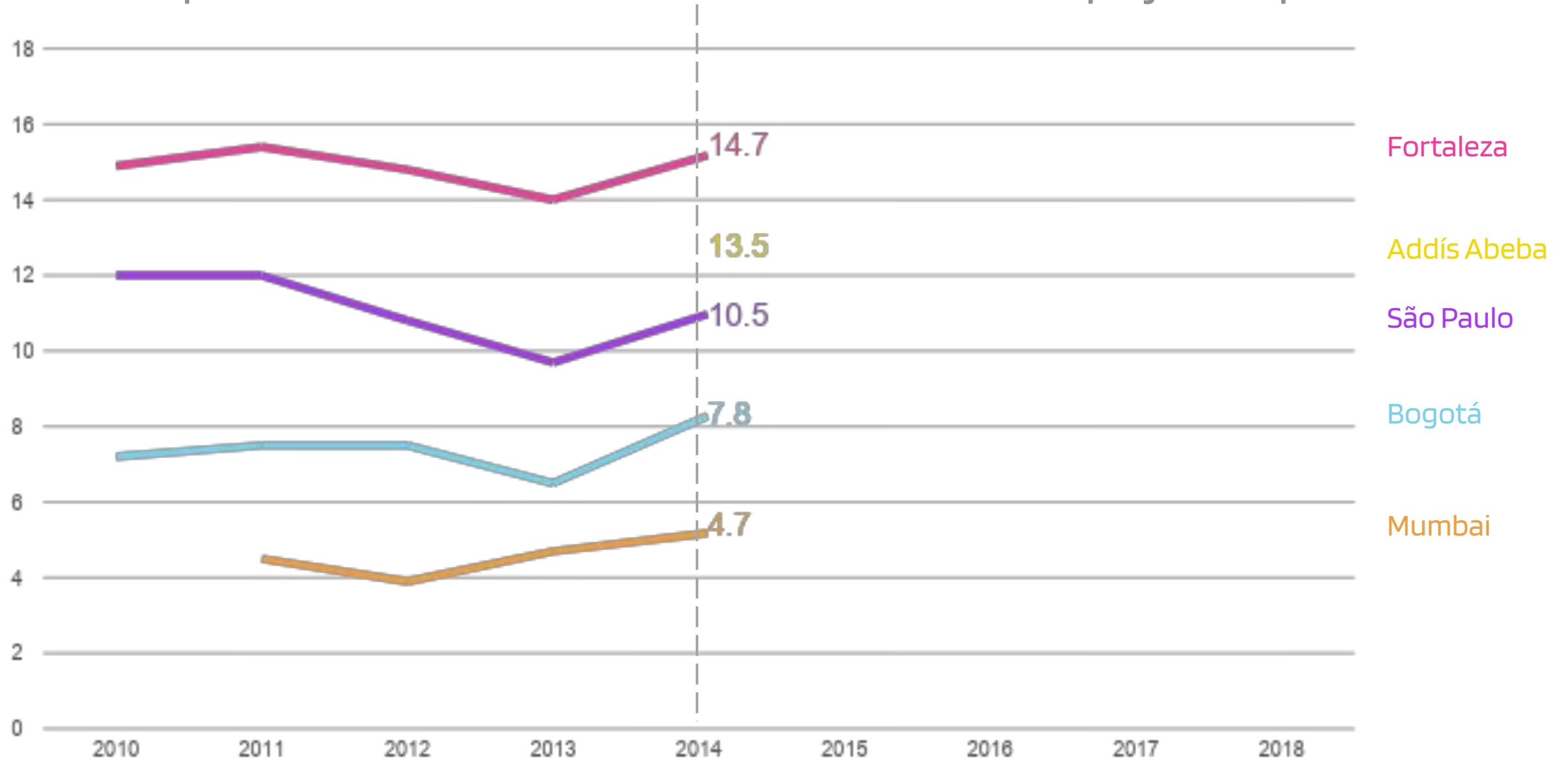
**83%** reduction in crashes involving  
pedestrians

Resultados de los primeros 6 meses



## Mortalidad vial reportada | 2010 - 2018

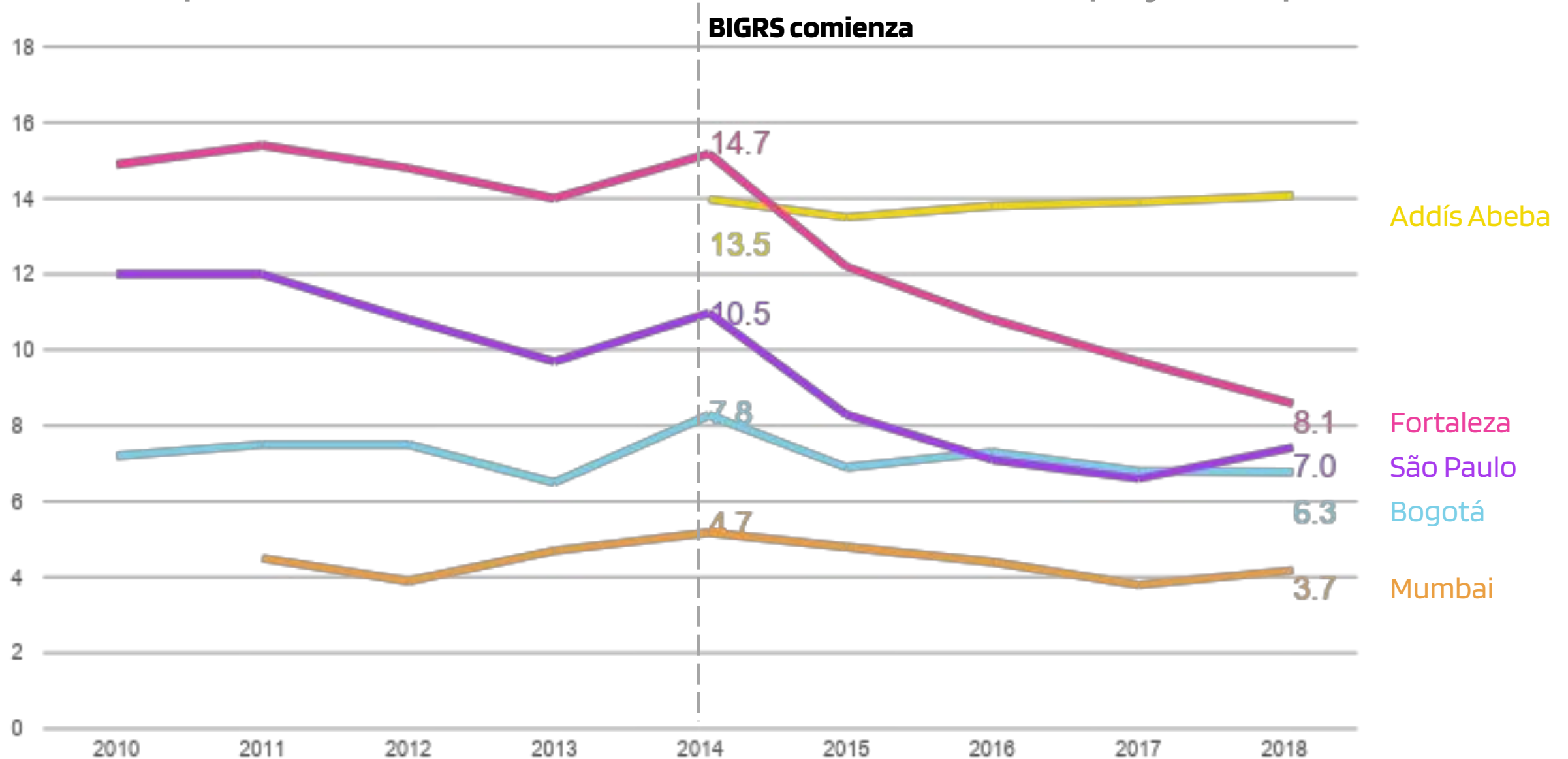
Muertes por 100.000 habitantes en las 5 ciudades apoyadas por BIGRS





## Mortalidad vial reportada | 2010 - 2018

Muertes por 100.000 habitantes en las 5 ciudades apoyadas por BIGRS







# Thank You

@GlobalStreets



[globaldesigningcities.org](http://globaldesigningcities.org)

