



WORLD
RESOURCES
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WRI ROSS CENTER FOR
SUSTAINABLE
CITIES

Vision Zero in City Development

Claudia Adriazola-Steil, Director of Health and Road Safety



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AGENDA

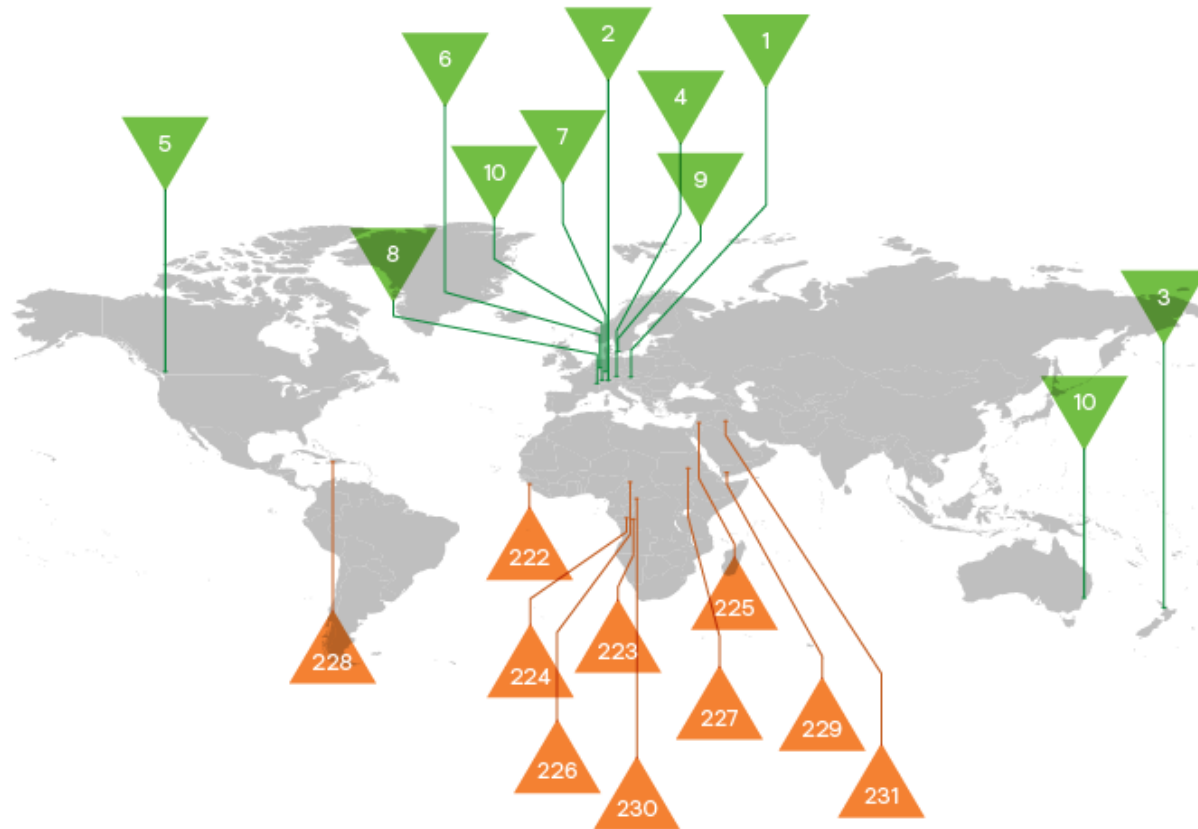
- **What people want from cities?**
- What is currently happening?
- A Vision





World's Most Livable Cities – 2017 Mercer Survey

WORLD'S MOST LIVABLE CITIES – 2017 Mercer Survey



TOP 10 CITIES*

- 1 Vienna, Austria
- 2 Zurich, Switzerland
- 3 Auckland, New Zealand
- 4 Munich, Germany
- 5 Vancouver, Canada
- 6 Dusseldorf, Germany
- 7 Frankfurt, Germany
- 8 Geneva, Switzerland
- 9 Copenhagen, Denmark
- 10 Basel, Switzerland
- 10 Sydney, Australia

BOTTOM 10 CITIES

- 222 Conakry, Guinea
- 223 Kinshasa, DR Congo
- 224 Brazzaville, Congo
- 225 Damascus, Syria
- 226 N'Djamena, Chad
- 227 Khartoum, Sudan
- 228 Port au Prince, Haiti
- 229 Sana'a, Republic of Yemen
- 230 Bangui, Central African Republic
- 231 Baghdad, Iraq

Mercer's Quality of Living research assists multinational organizations to compensate employees fairly when placing them on international assignments

*Top 10 rankings shown, some cities may be tied.



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Source: Beijing, 2009 – China Post

WHAT'S DIFFERENT NOW? UNPRECEDENTED SCALE



BOGOTÁ



= 7,878,783



TOTAL FATALITIES

606

(As Reported)

FATALITY RATE

7.7

(As Reported Per 100,000 Population)

TOTAL ROADS

9,383

LENGTH IN CENTERLINE KMS

STREET DENSITY

17.2

KM PER SQ. KM OF CITY AREA

MAX. SPEED LIMIT

80

KMPH

MODE SHARE (BY %)



REPORTED FATALITIES BY MODE (%)



- Private Motor Vehicles and Taxi
- Public Transportation
- Motorcycles
- Cycling
- Walking
- Others

TOTAL VEHICLES

667,926

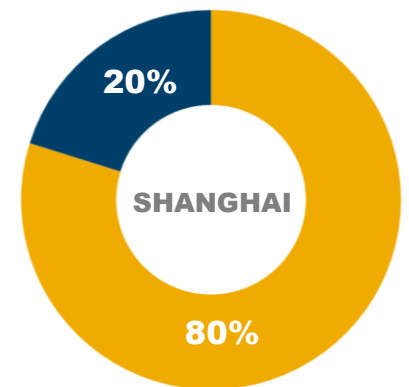
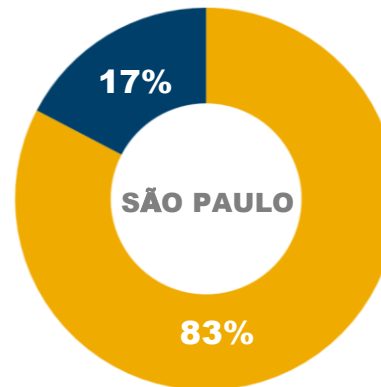
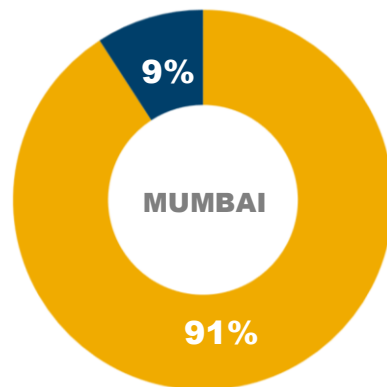
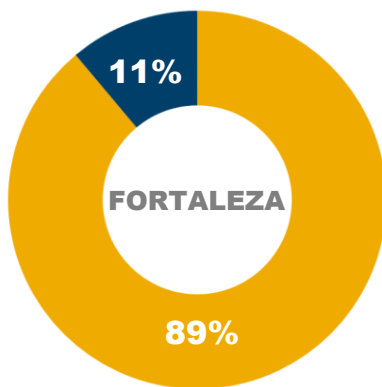
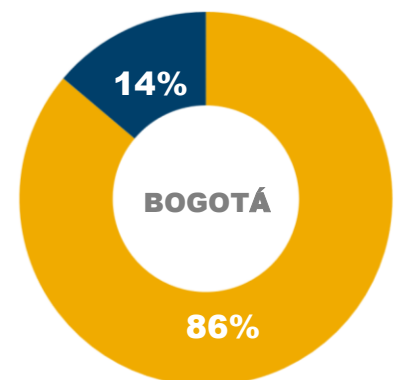
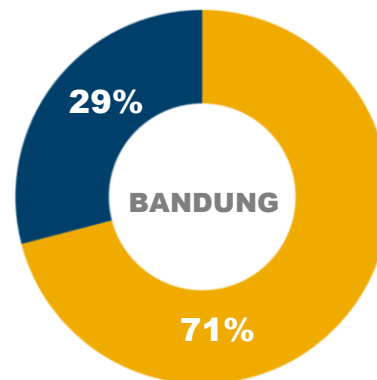
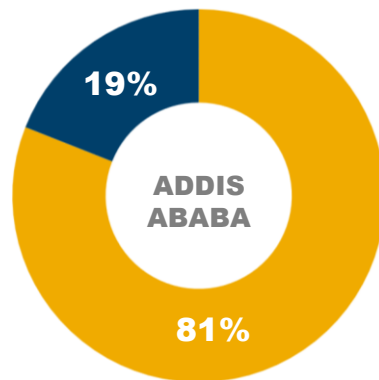
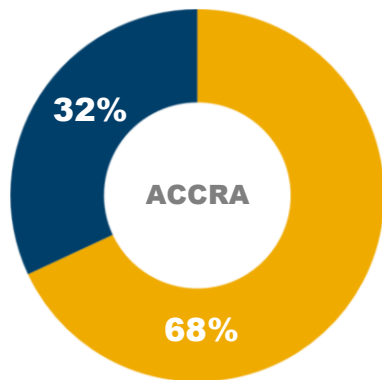
(REGISTERED 4 WHEELERS)

TOTAL MASS TRANSIT

113

LENGTH OF BRT+LRT+METRO
IN CENTERLINE KMS

8 CITIES: WHO DIES?



Pedestrian, Cyclist and Motorcyclist Fatalities

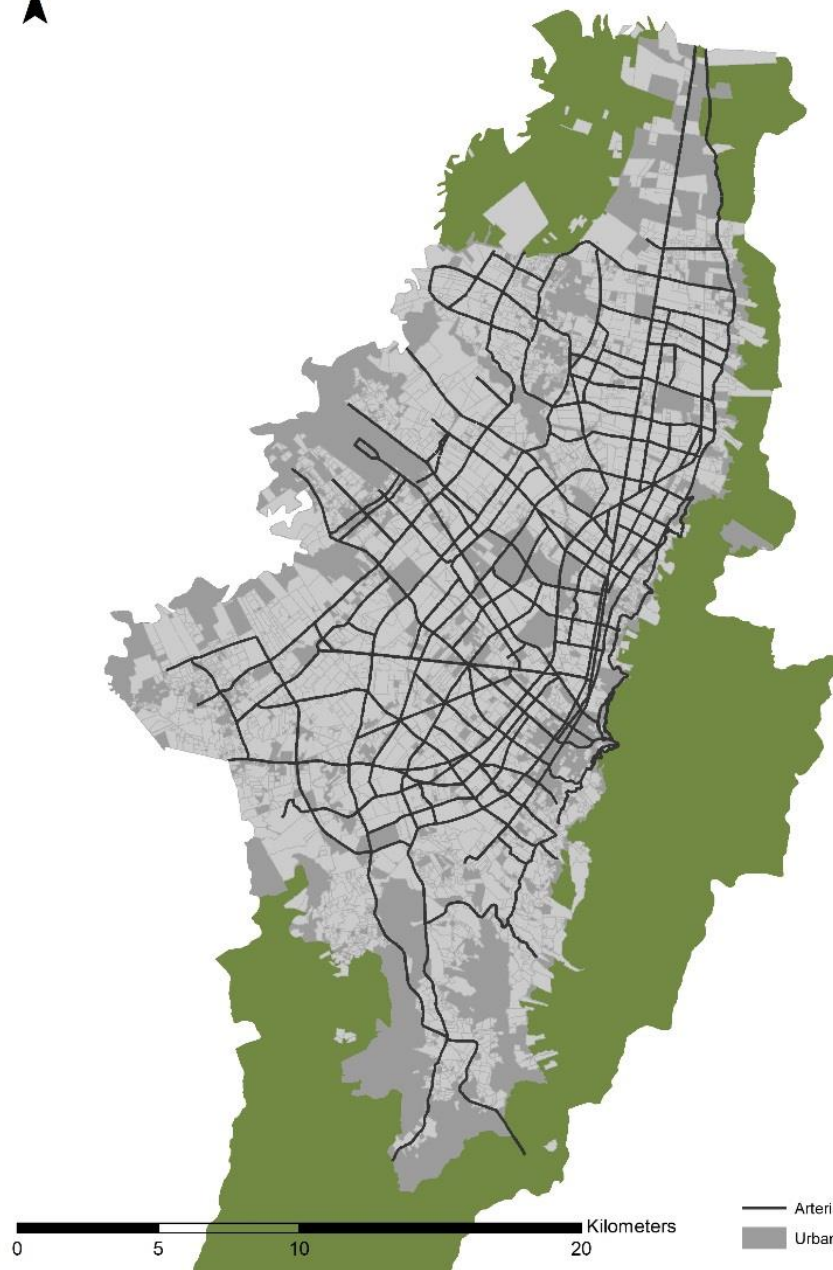


All other Traffic Fatalities (includes 4 wheelers, mass transit etc)



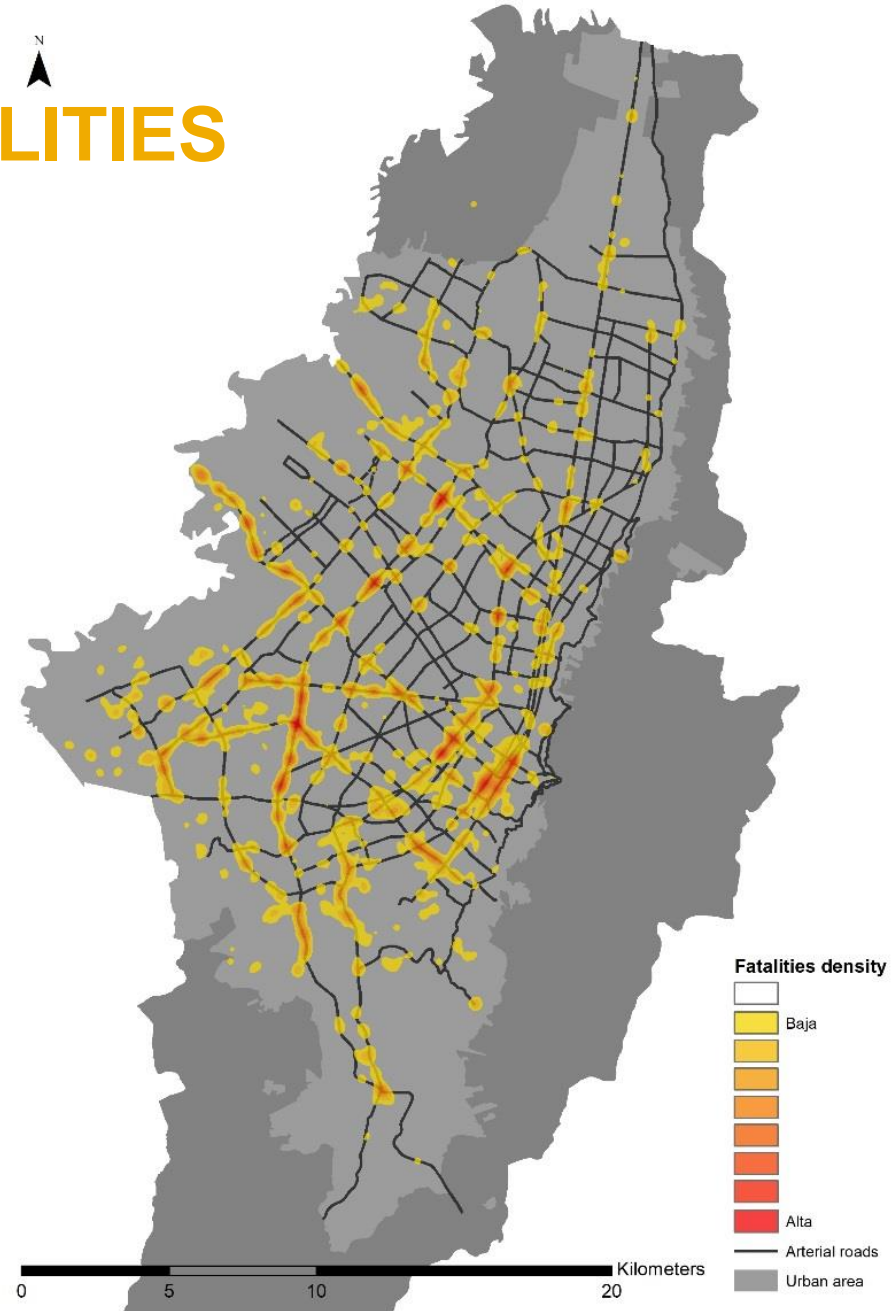
BOGOTA 1980 -2017



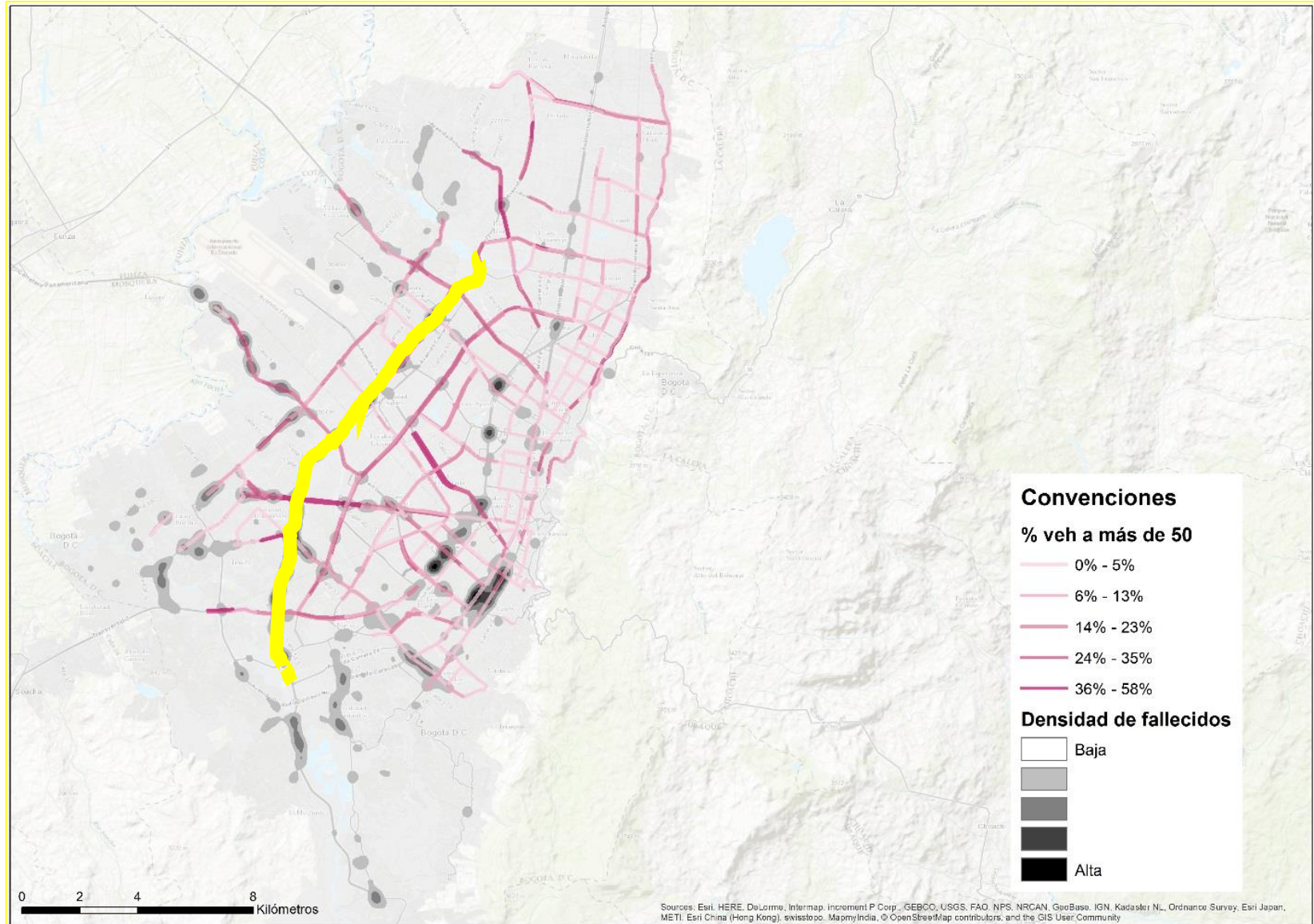


— Arterial roads
— Urban area

URBAN FORM AND FATALITIES



SPEED AND FATALITIES



Gender

- Marilu Beltran, Bogota
- 2 kids

- Travels **4 hours a day**

- Walks + Transit

MOTORCYCLES

A photograph of a large group of motorcyclists riding down a city street. The lead motorcycle in the foreground has a Brazilian flag attached to its front. The riders are wearing helmets and casual clothing. The street is lined with tall buildings and a crowd of spectators on the sidewalks. A white car is visible on the left side of the road.

In India,
33.9%
of traffic victims are motorcyclists
44%
in Colombia

Motorcycle deaths in Latin America
increased
227%
in 12 years

Source: FIA foundation, Rights of Way Report; WRI Research

Photo: www.alamy.com

AIR QUALITY

- Average PM2.5 levels in 2015 in Delhi was over **200 $\mu\text{g}/\text{m}^3$**
- Safe levels for PM2.5, according to the WHO's air quality guidelines, are **10 $\mu\text{g}/\text{m}^3$**



Today's children may be the first generation to have a shorter life expectancy than their parents due to physical inactivity





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AN UNSUSTAINABLE URBANIZATION PATH

1.2 Million
Traffic Fatalities

PEOPLE

3.7 Million
Air Pollution
premature deaths

3.2 Million
Physical Inactivity
premature deaths

2%
of the land
but

CLIMATE

70%
of the CO₂
emissions

75%

FINANCE

Of the 2050
infrastructure is yet
to be built

Source: Land use and emissions, UN-HABITAT. Infrastructure needs, Resilient Cities. Air pollution and traffic fatalities, WHO.





INDIA VISION ZERO

SAFER STREETS.
SAFER CITIES.

5-6 June 2017 | Mumbai

SAVE THE DATE

#INDVisionZero

CONVENED BY



WRI INDIA
— ROSS CENTER

VISIÓN CERO



BOG



LOWER SPEEDS + BETTER ACCESSIBILITY



DATA + NEW TECHNOLOGY



EMPOWERED COMMUNITIES



The background is a complex, abstract pattern of thin, light-orange lines on a darker orange field. These lines form a dense, interconnected web of geometric shapes, including rectangles, triangles, and irregular polygons, creating a sense of depth and complexity. A dark, semi-transparent rectangular box is positioned in the lower-left quadrant, containing white text.

Road Safety Enabler of Livable Cities



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Thank you!

Claudia Adriazola-Steil, Director of Health and Road Safety
cadriazola@wri.org