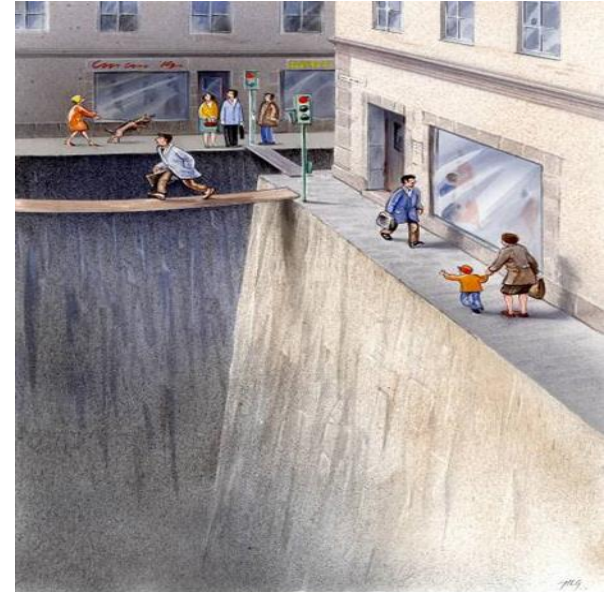


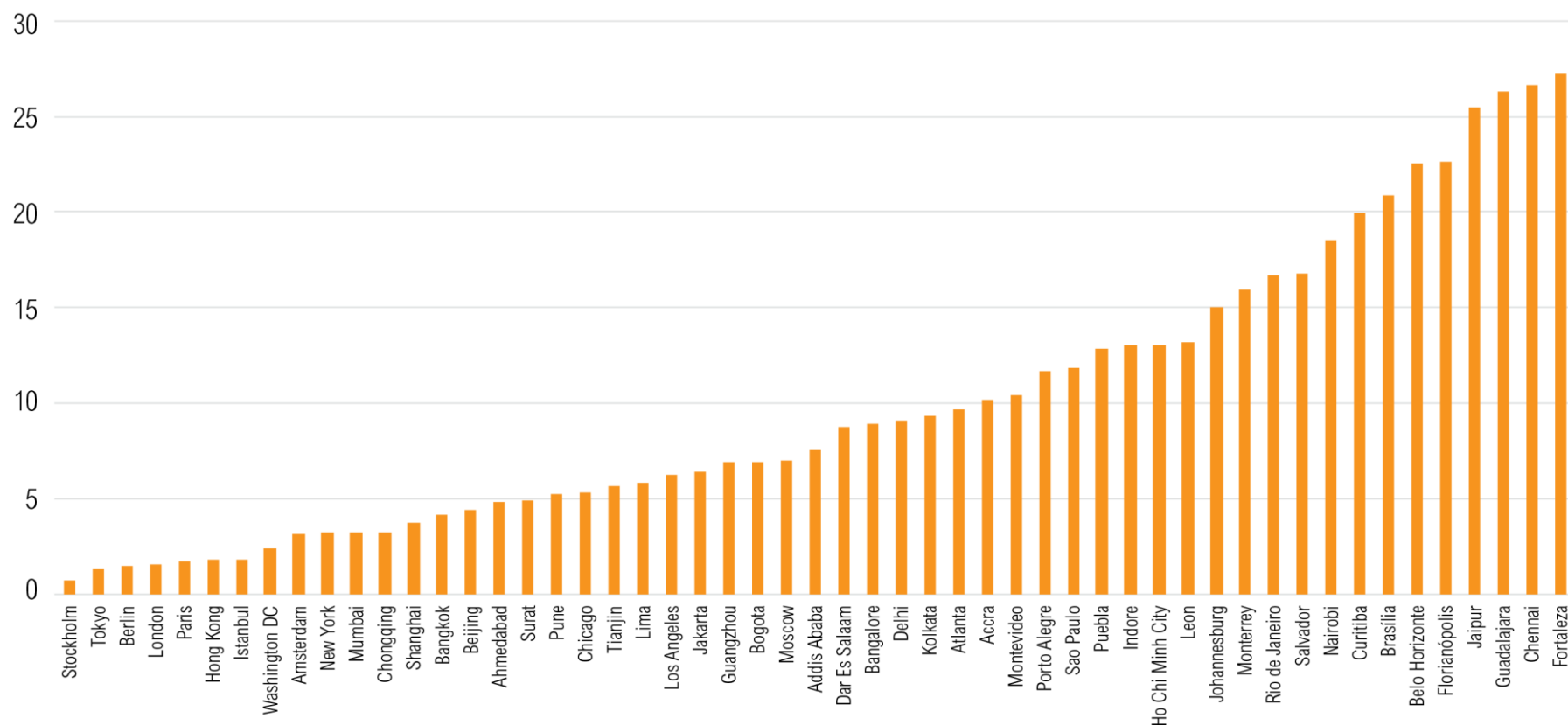
THE SAFE SYSTEM IN CITIES

Saul Billingsley
FIA Foundation

@saulbillingsley
@FIAFdn
fiafoundation.org



Reported Fatality Rates in Selected cities (per 100,000 population)



Urbanization

1900 | 2 out of every 10 people lived in an urban area



1990 | 4 out of every 10 people lived in an urban area



2010 | 5 out of every 10 people lived in an urban area



2030 | 6 out of every 10 people will live in an urban area

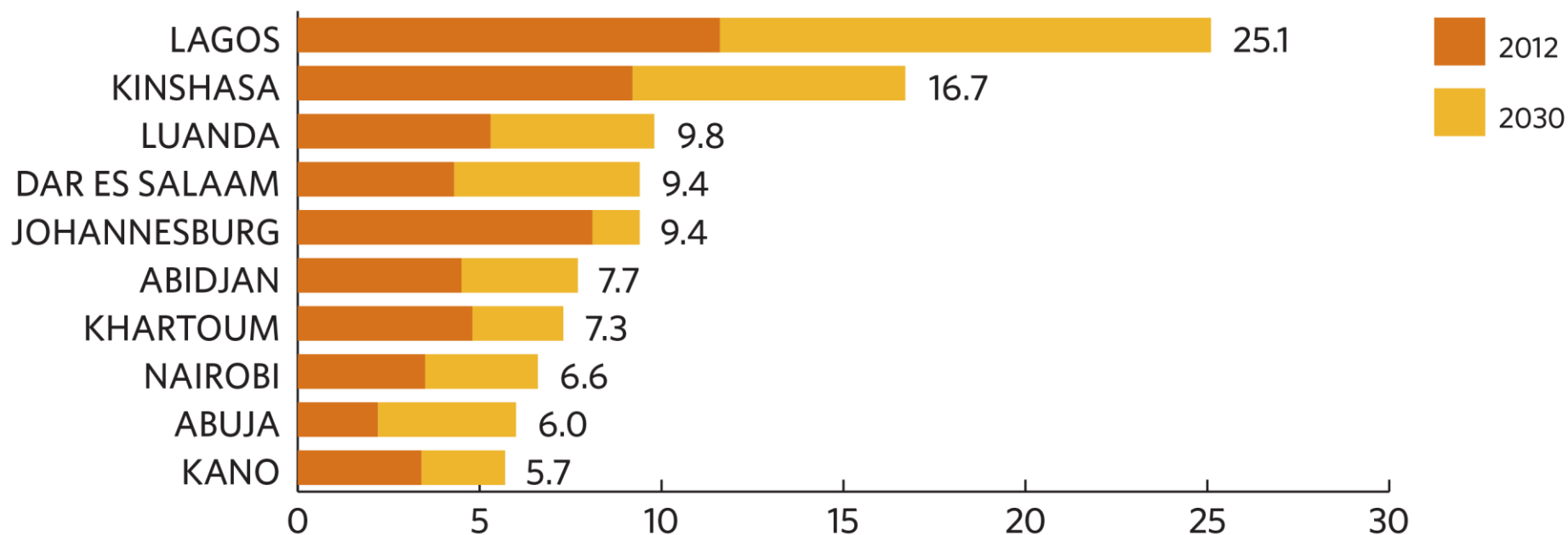


2050 | 7 out of every 10 people will live in an urban area

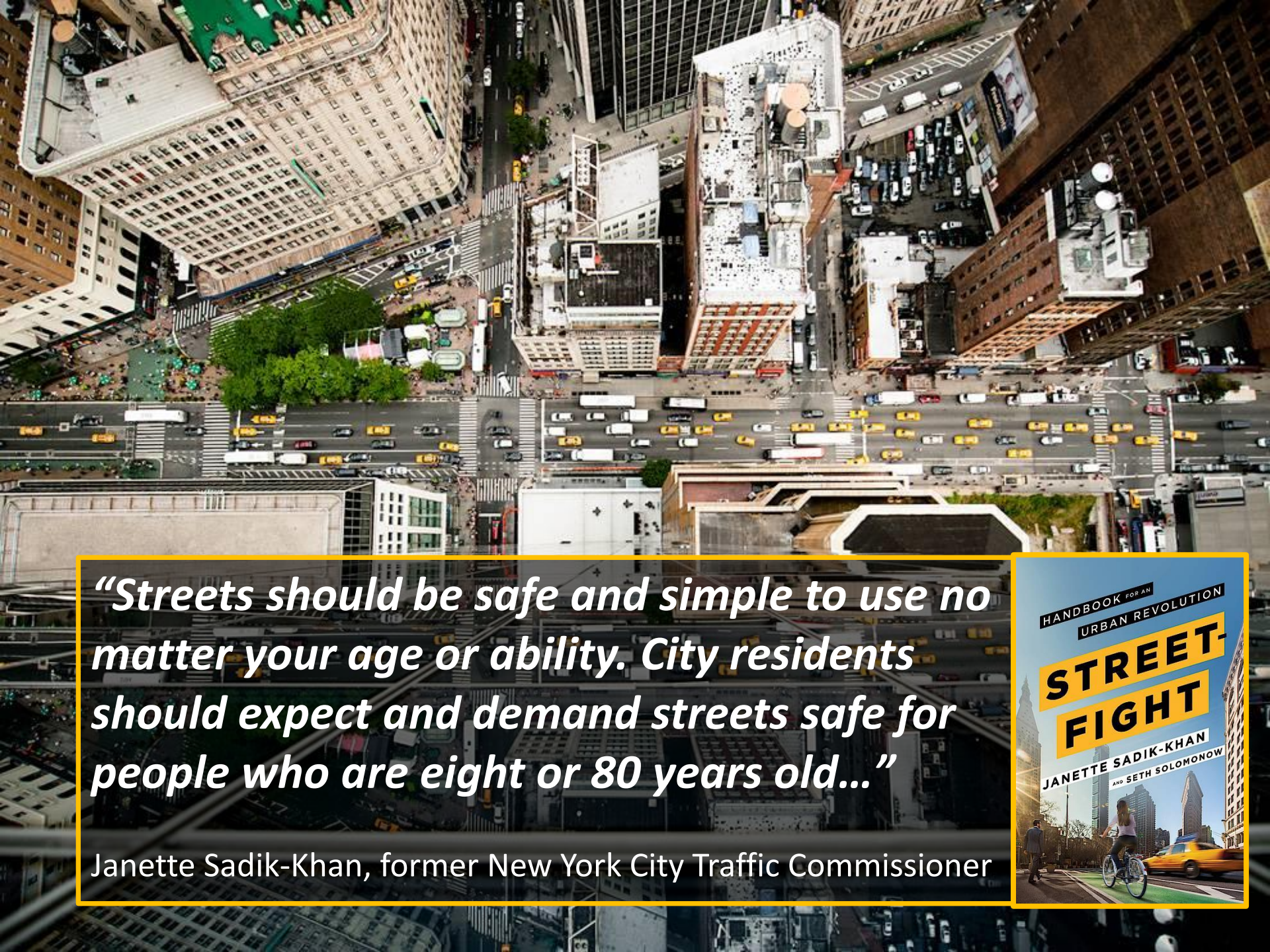


Defined by UN HABITAT as a city with a population of more than 10 million

AFRICA'S EXPANDING CITIES

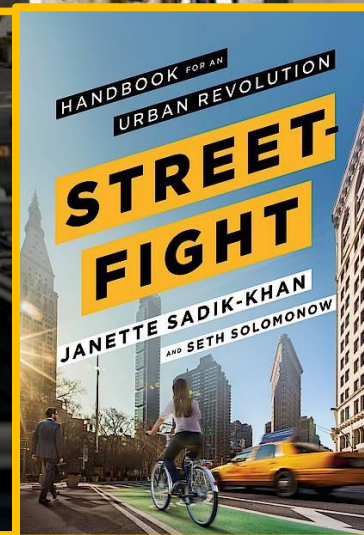


Source: Africa Progress Panel



“Streets should be safe and simple to use no matter your age or ability. City residents should expect and demand streets safe for people who are eight or 80 years old...”

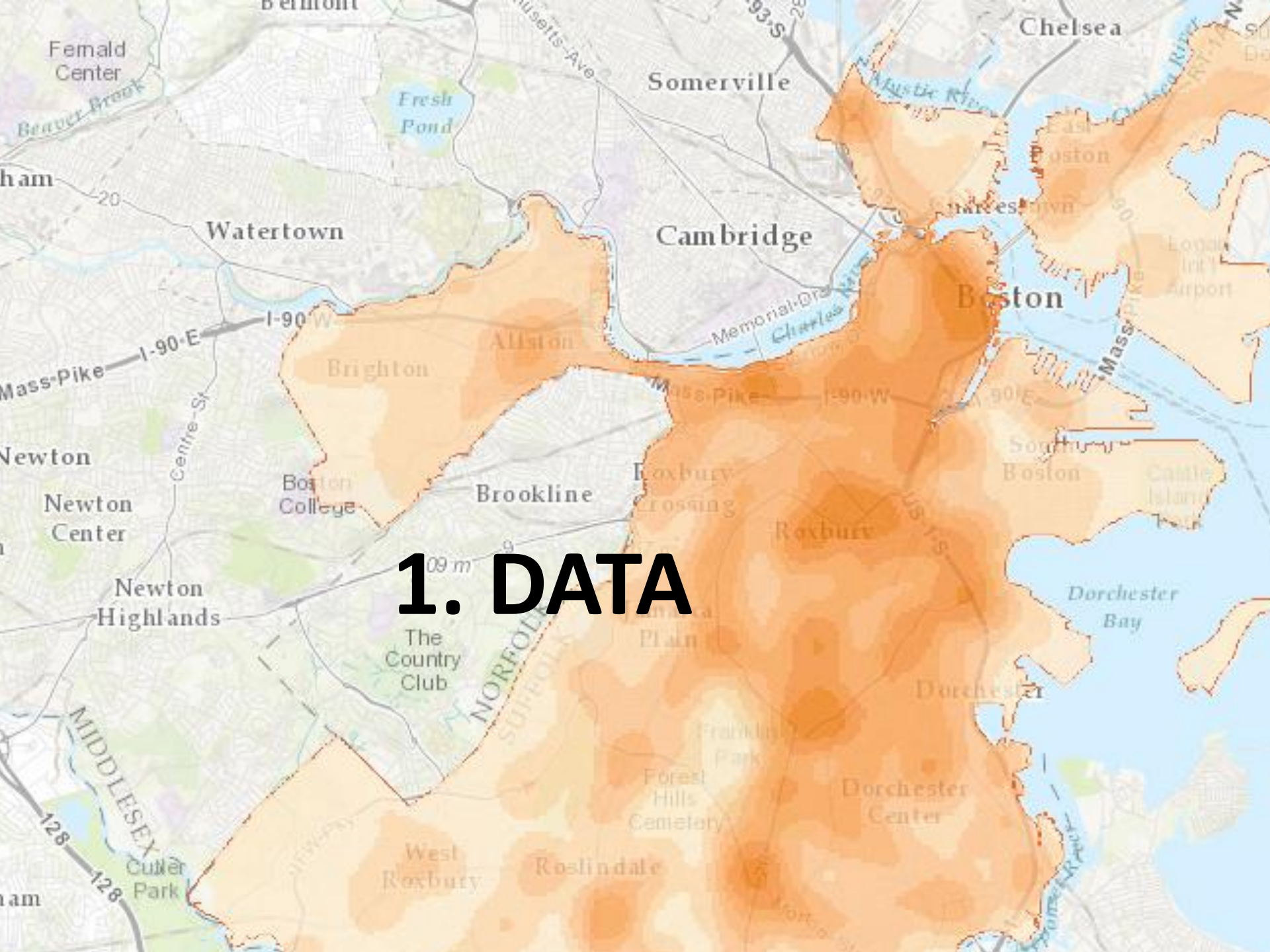
Janette Sadik-Khan, former New York City Traffic Commissioner





5

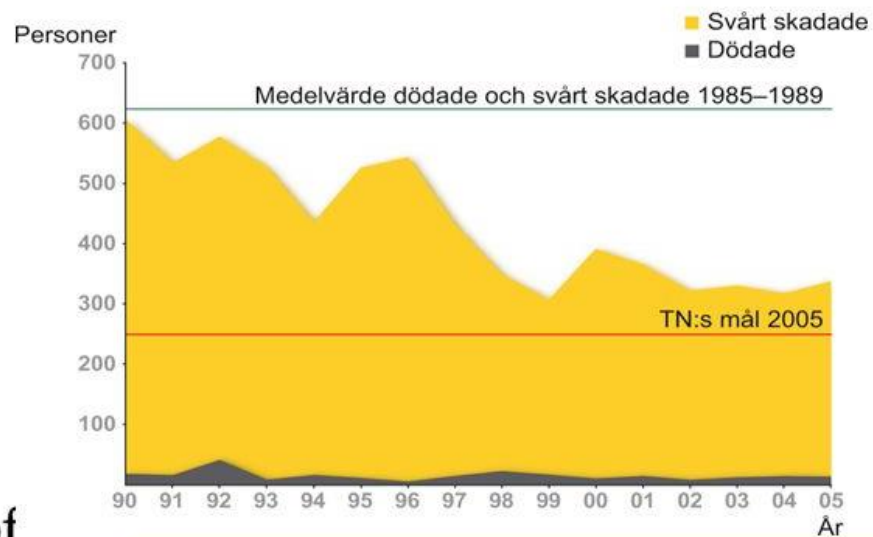
steps to an
urban safe
system



1. DATA



City of Göteborg, Traffic & Public transport Authority 1997



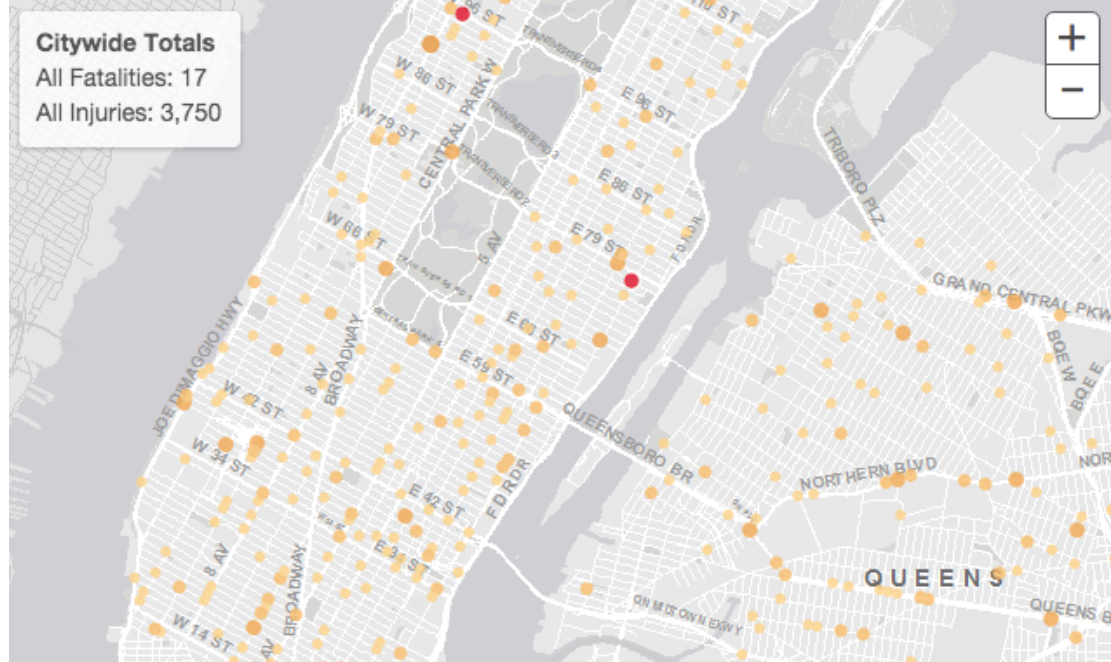
City of
Göteborg



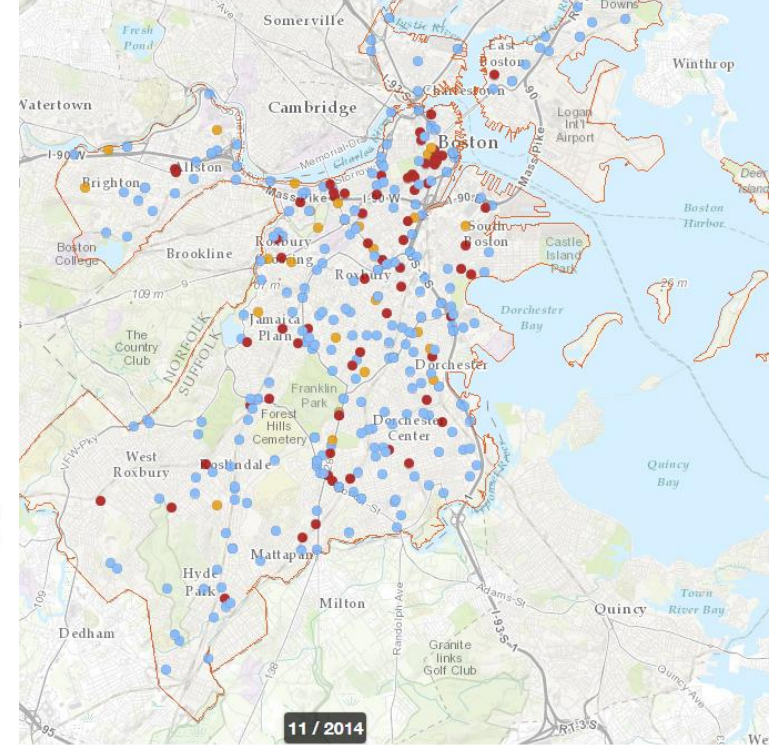
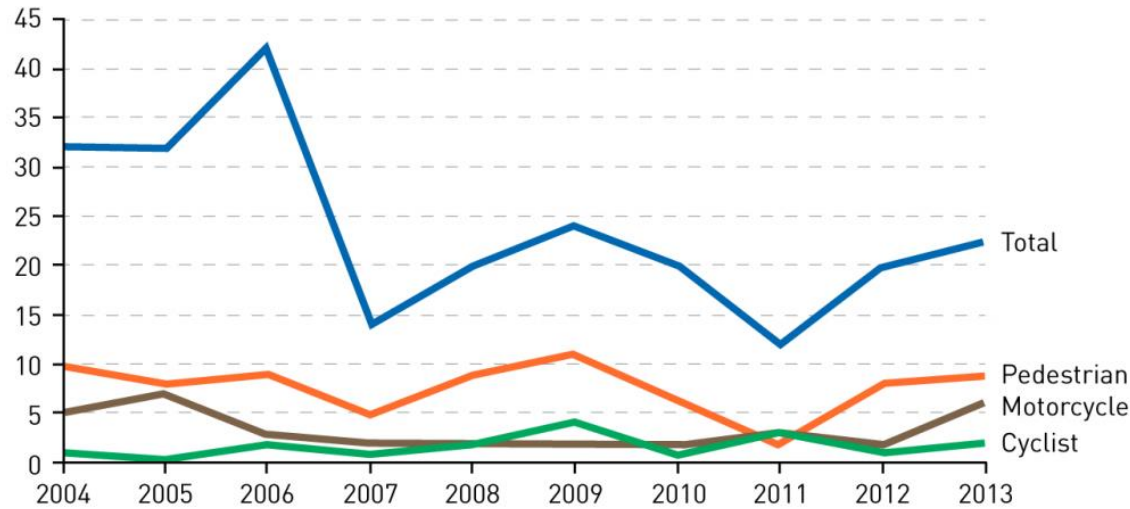
Citywide Totals

All Fatalities: 17

All Injuries: 3,750

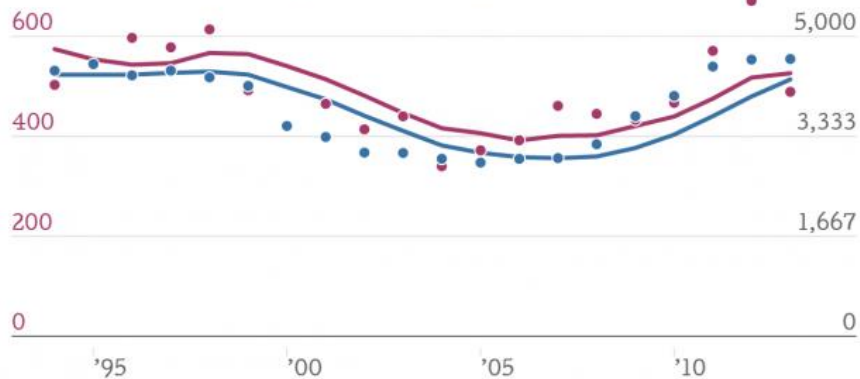


TRAFFIC FATALITIES ON SEATTLE STREETS



Accidents involving cyclists 1994 - 2013

■ KSI av ■ Total av ■ KSI yr (dot) ■ Total yr (dot)



Source: TFL





 Vision Zero

 2000-2013 AVERAGE PRIOR TO VISION ZERO

Source: NYC DOT & NYPD



2. LEADERSHIP







3. REDUCE SPEED



A person hit by a car at 20 miles per hour has a 9 in 10 chance of surviving.

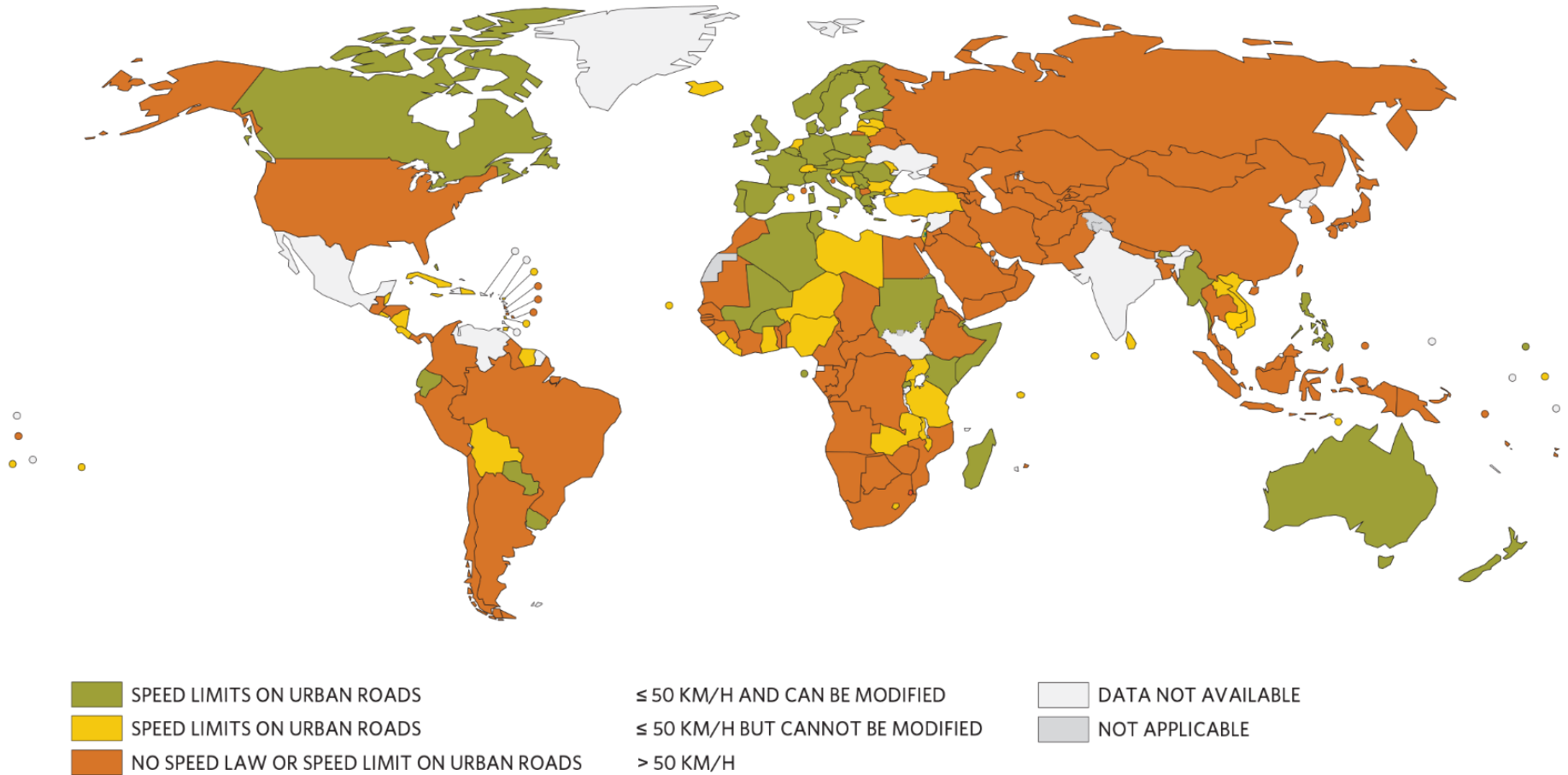
At 40 miles per hour, 9 in 10 will die.

Even legal speeds can kill.

VISION   ZERO 

any traffic death is too many

URBAN SPEED LIMITS BY COUNTRY



Source: WHO





Sao Paulo 'Area 40s'

A high-angle photograph of a paved road. A white van is driving away from the camera in the center lane. Several children, wearing white shirts and dark shorts, are crossing the road. Some are running, while others are walking. The road has white dashed lines. On the right side of the road, there is a small structure with a sign that reads 'MAJINI SHULE' and some text in Swahili. The text '4. INVERT HIERARCHIES' is overlaid in the center of the image in a large, white, sans-serif font.

4. INVERT HIERARCHIES





Before



After

Copyright. Janette
Sadik- Kahn

Before



After

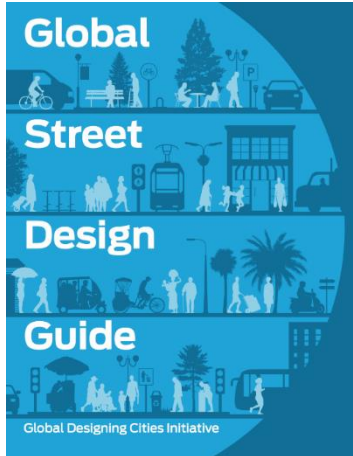
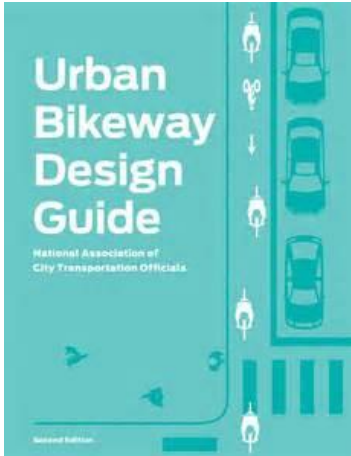
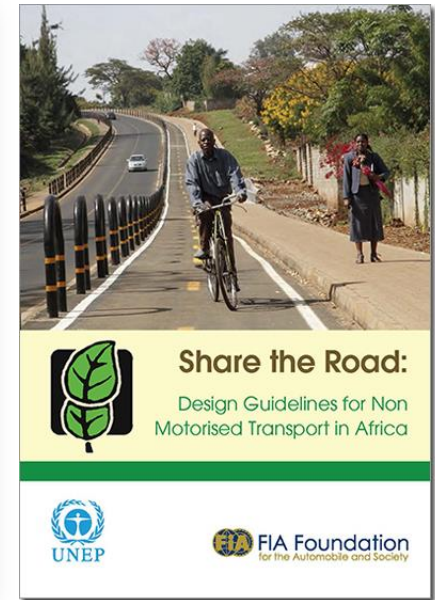
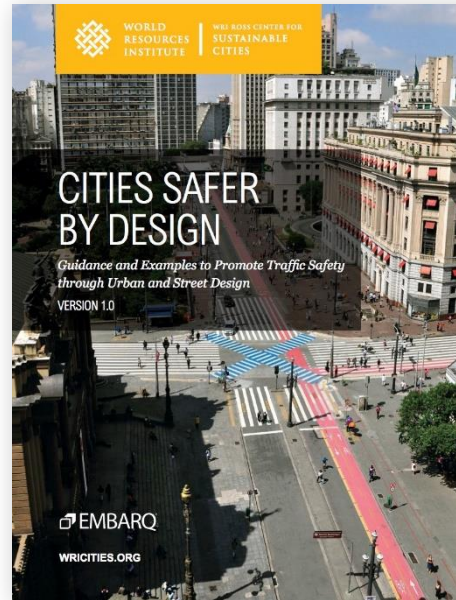
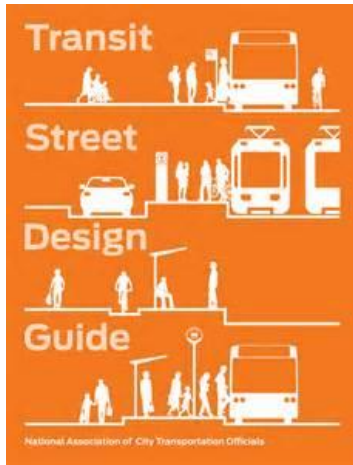
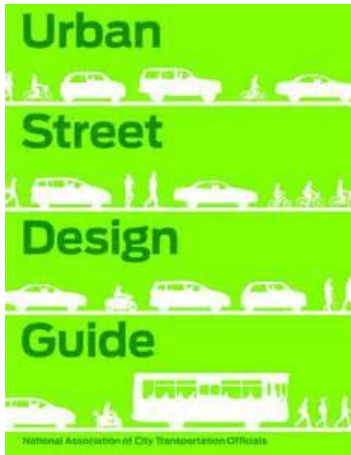




Before



After



Design principles



Beijing, China

Urban design that reduces the need for vehicle travel and fosters safer vehicle speeds



Medellín, Colombia

Traffic calming measures that reduce vehicle speeds or allow safer crossings



Mexico City, Mexico

Arterial corridors that ensure safer conditions for all road users



Rio de Janeiro, Brazil

A network of connected and specially designed bicycling



Istanbul, Turkey

Safe pedestrian facilities and access to public spaces



Ahmedabad, India

Safe access to mass transport corridors, stations, and stops





Star Rating Roads for Safety: Accra Report – Results for Consultation with Stakeholders



GHANA



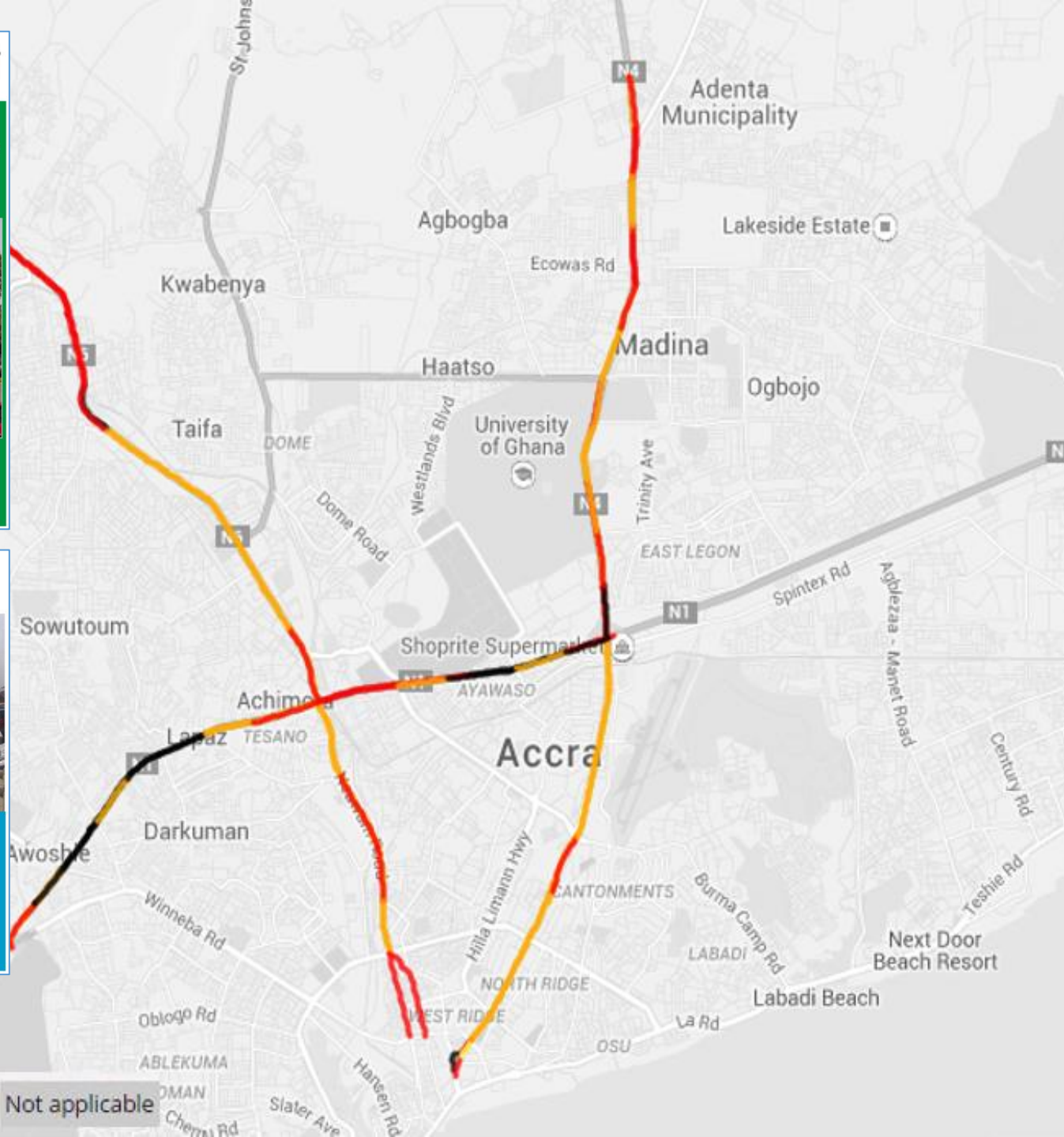
WORLD
RESOURCES
INSTITUTE

WRI ROSS CENTER FOR
SUSTAINABLE
CITIES

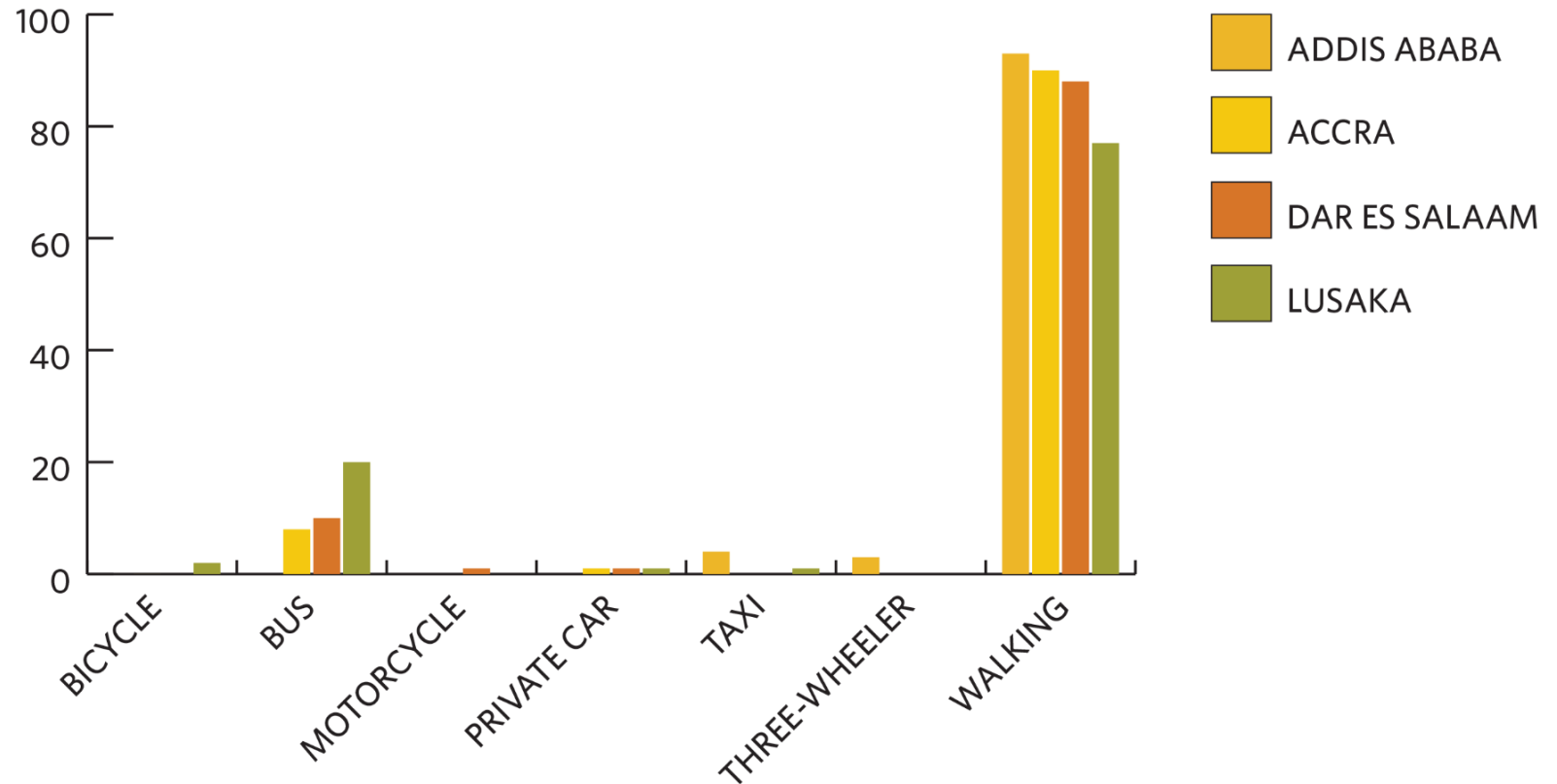


Improving Road Safety in Accra on the N1

Road Safety Inspection report on N1 high-
frequency crash locations



HOW CHILDREN TRAVEL TO SCHOOL



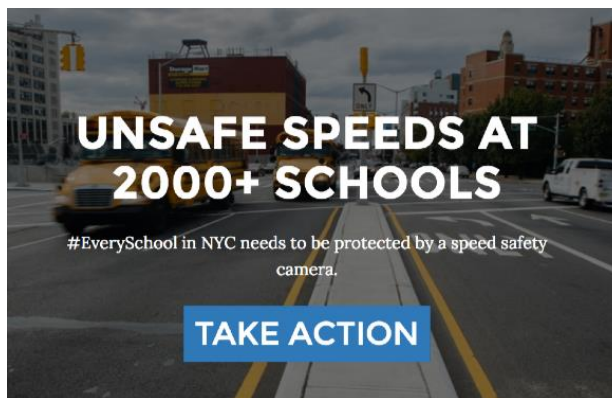
Source: Amend





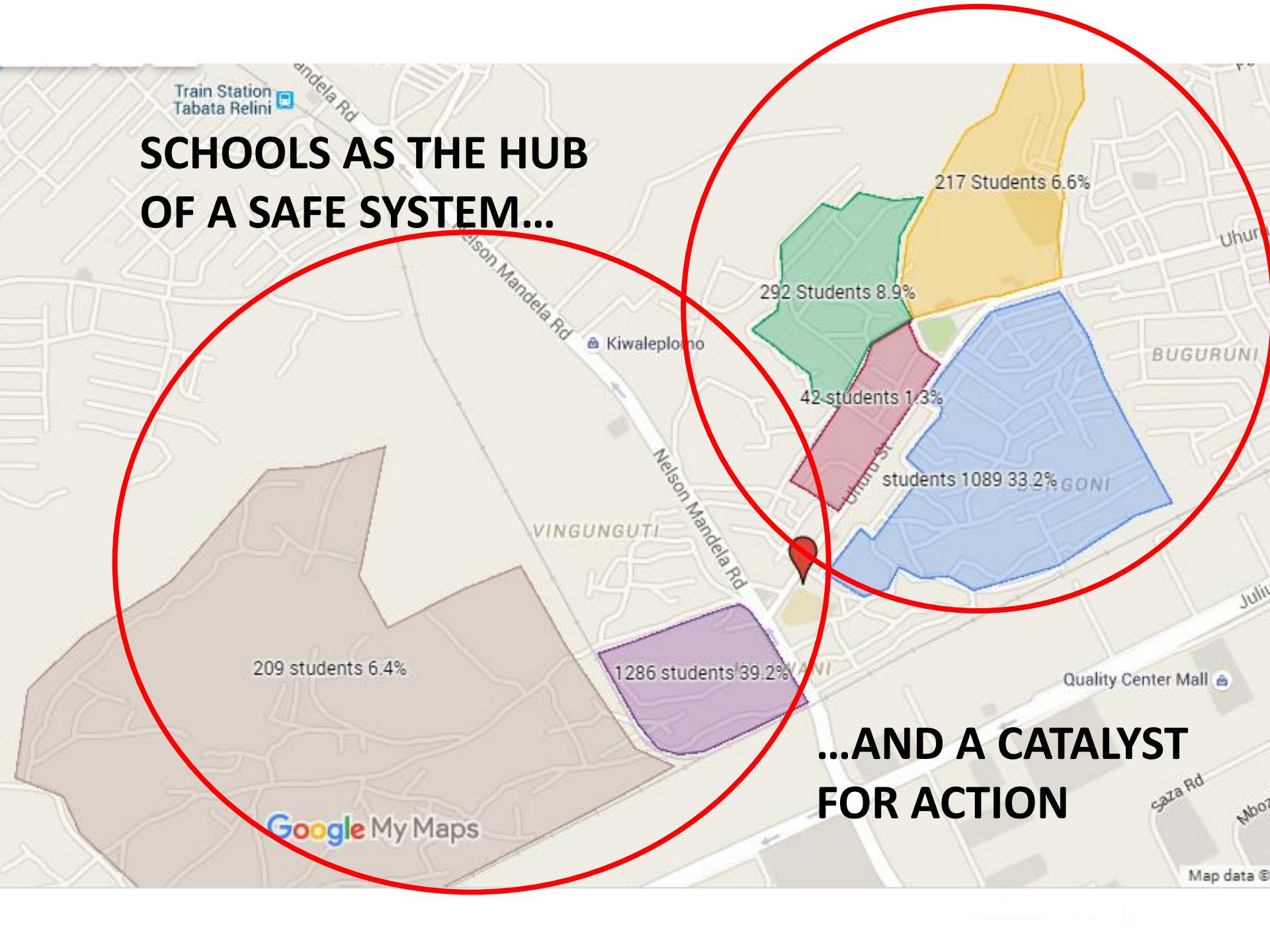
5. SUSTAIN & BUILD



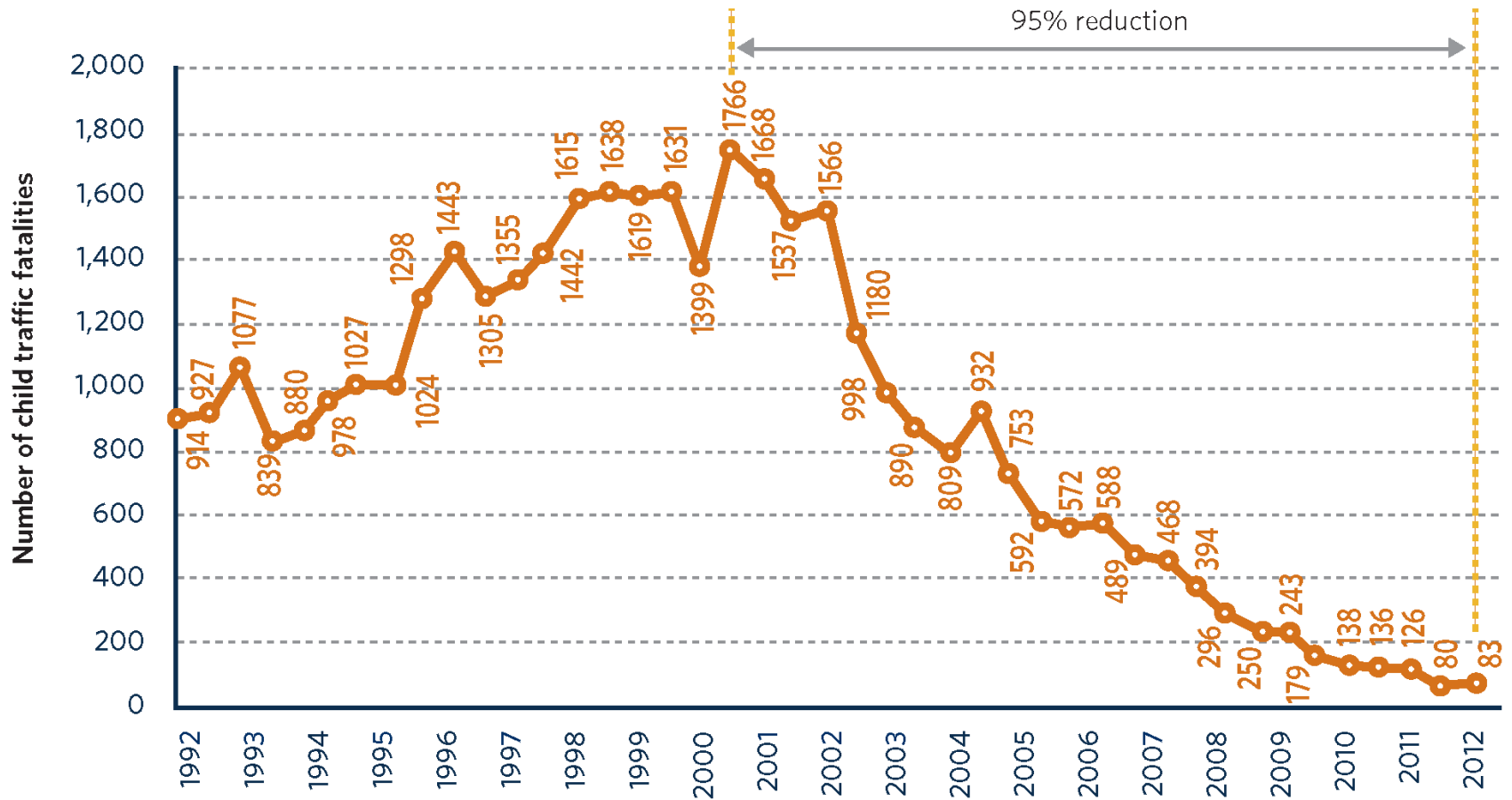


SCHOOLS AS THE HUB OF A SAFE SYSTEM...

...AND A CATALYST
FOR ACTION

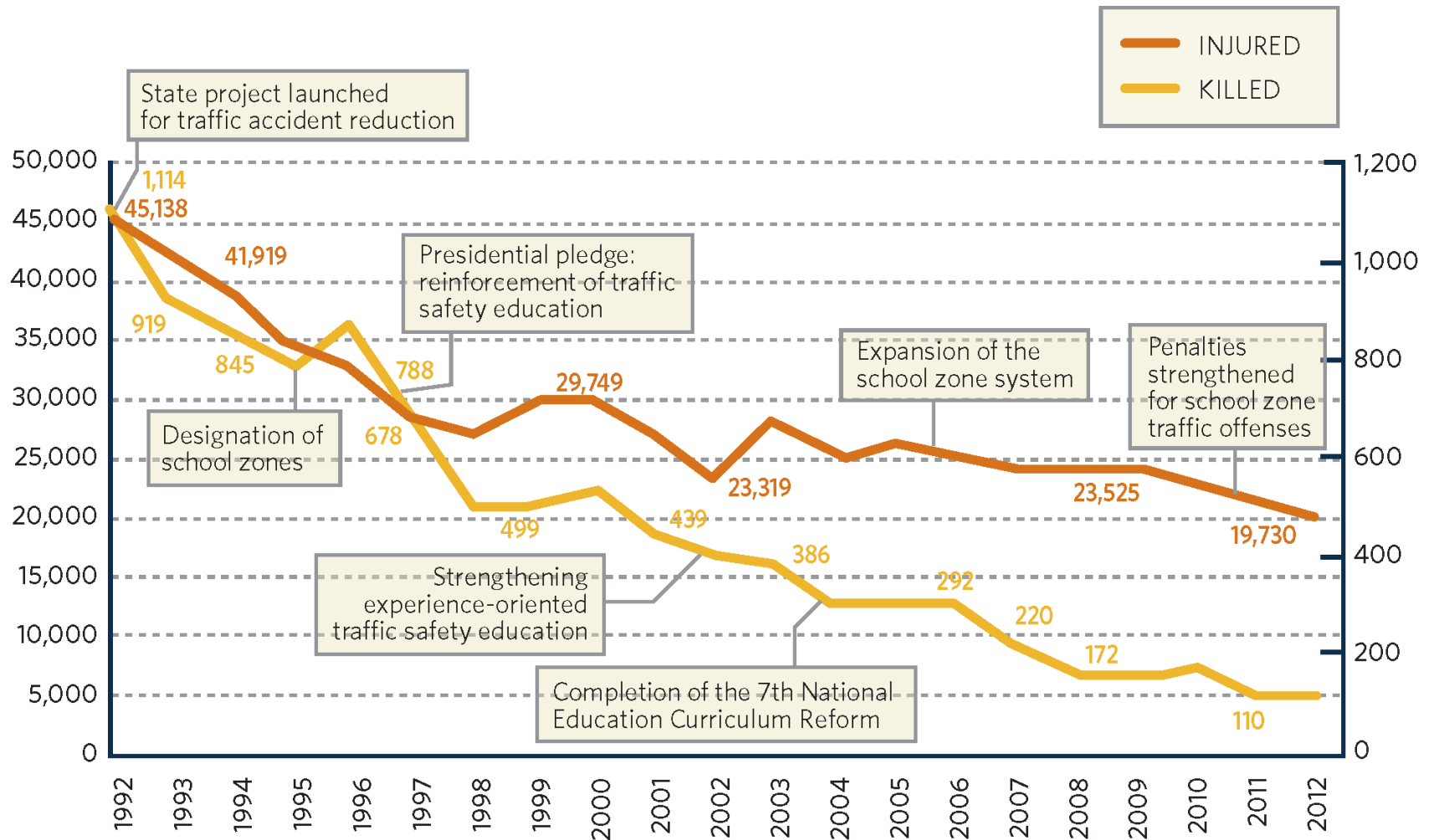


South Korea (Child fatalities) 1992-2012



Source: Sul. 2014. Korea's 95% reduction in child traffic fatalities: policies and achievements, Korean Transport Institute (KOTI)

South Korea (Child fatalities & injuries) 1992-2012





**IN TOWN, CAR ACCIDENTS
DON'T JUST HAPPEN TO CARS.**

SLOW DOWN.



“..we will promote the **safe system approach**...actively protect and promote pedestrian safety and cycling mobility...and motorcycle safety...We will promote the safe and healthy journey to school for every child as a priority.”