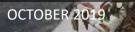


WORLD RESOURCES | ROSS INSTITUTE | CENTER

## **TOWARDS ACCESSIBLE, SAFE** & EQUITABLE CITIES

ALEJANDRO SCHWEDHELM WRI ROSS CENTER FOR SUSTAINABLE CITIES



The Principles and Approaches to Road Safety

2.

The Count: Good Data and GIS Analysis

5.

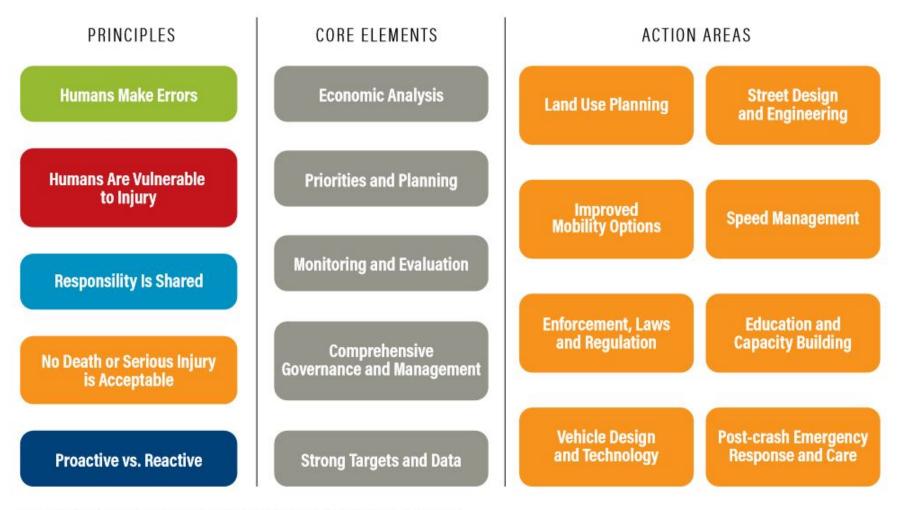
The Change: Targeted Interventions

4

The Scale: Working with Partners to Build Networks & Scale Efforts

# 1. The Principles and Approaches to Road Safety

### **Safe System Approach**



Note: Principles are multicolored, core elements are in grey, and action areas are in orange.

## Avoid, Shift and Improve (ASI)



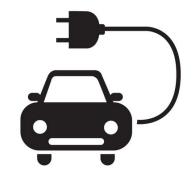
## AVOID

"Avoid" unnecessary travel through optimizing of land use, heterogeneous zoning and communities that are Compact, Connected & Coordinated (3Cs)



## SHIFT

"Shift" users towards sustainable, safer modes through improved design + better investments that enable safe, efficient, convenient & reliable options

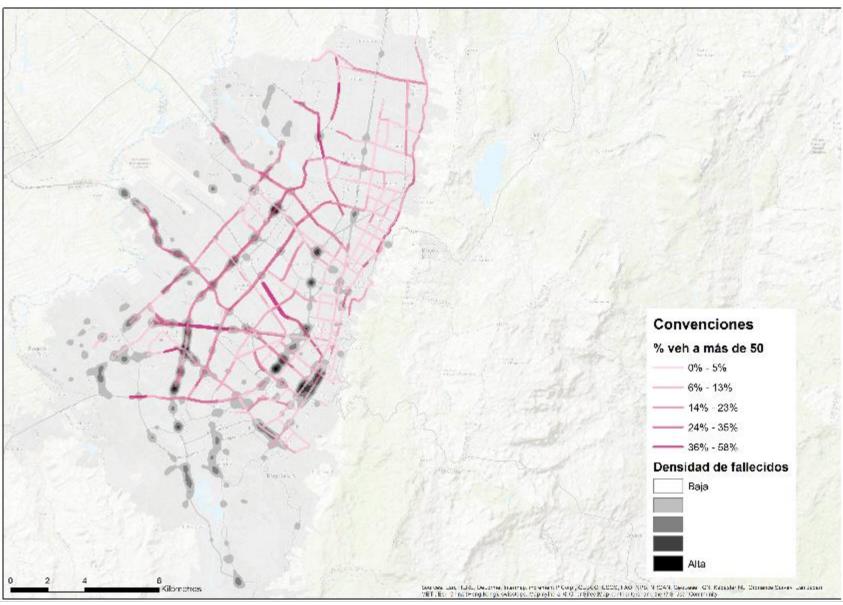


## IMPROVE

"Improve" fuel efficiency and engine technologies (EVs), implement stricter emission and safety standards



#### **Example: Speed & Fatalities In Bogota**







#### Project Case: HP Intersection, Mumbai



### FROM TEMPORARY TO PERMANENT

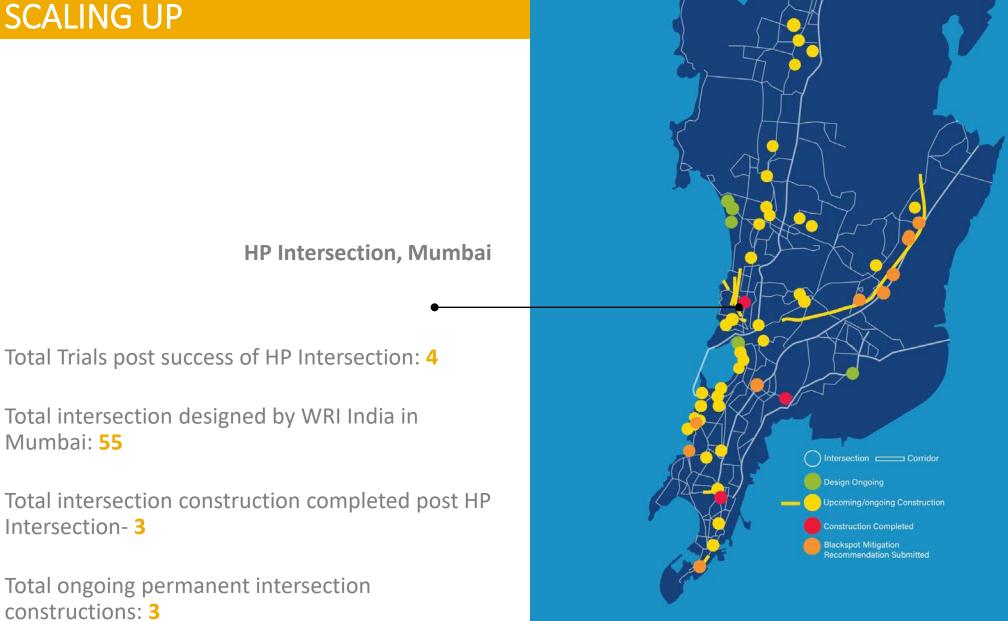
https://youtu.be/3ndXecuCAp4





# 4 The Scale: Working with **Partners to Build Networks & Scale Efforts**

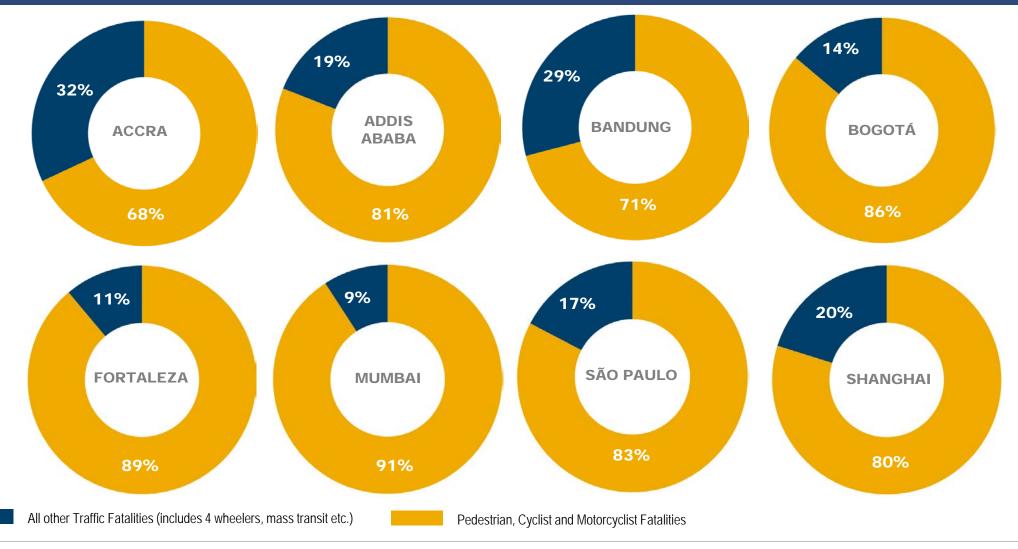
#### **SCALING UP**





**Appendix Slides** 

## AT GREATEST RISK: PEOPLE WALKING, BICYCLING AND RIDING MOTORCYCLES



Source: WRI Research, Data collected by WRI



## Changes in the streets



**Dedicated Bike Lanes** Shanghai, Fortaleza, São Paulo, Addis Ababa



Bikeshare Bandung, Shanghai, Fortaleza



Vehicular Lane Markings Accra, Addis Ababa, Bogota



**Redesigned Intersections** Addis Ababa, Fortaleza, Bandung



Crosswalks

Addis Ababa, Bandung,

Bangkok, Fortaleza\*\*

**BUS** 

ONLY

Bus Lanes & BRT

São Paulo, Ho Chi Minh City,

Addis Ababa, Accra, Fortaleza,

Shanghai

\*\*Fortaleza has constructed raised crosswalks

\* These cities have installed protected pedestrian sidewalks



Sidewalk Improvements Mumbai, Bandung, São Paulo, Accra, Bangkok\*, Ho Chi Minh City\*

Safe Access to Mass Transit

Ho Chi Minh City, Mumbai,

Addis Ababa





Street Lights

Accra



**Refuge Islands** Bogota, Ho Chi Minh City, Fortaleza





ST

São Paulo, Addis Ababa



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Plaza/Public Space



#### WHY TACTICAL URBANISM?

- Tactical Urbanism is an alternative to judicious planning methods.
- Allows testing of different concepts in context before making large permanent investments
- Iterative and Incremental process to bring change.
- Draws attention to perceived shortcomings and inspire action
- Allows larger public engagement
- It puts the onus back on individuals
- Helps build confidence between different stakeholders

