



**WORLD BANK GROUP**  
Transport



# Managing Traffic Speeds and Reaping Safety, Climate and Other Benefits

April 26<sup>th</sup>, 2021

***Mobility and Development Webinar***

### 3. INFRASTRUCTURE SOLUTIONS TO ADDRESS SPEED, INCLUDING COVID-19 BUILD BACK BETTER

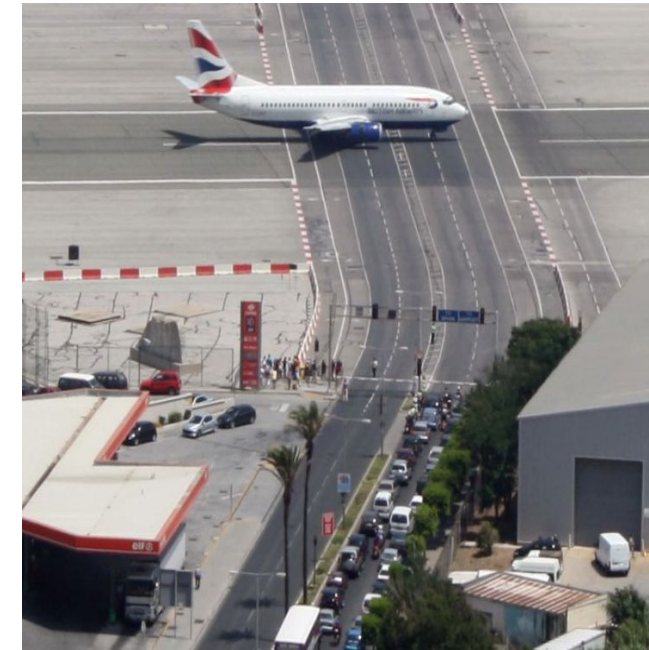


**ALINA BURLACU**

Senior Transport Specialist  
and Program Manager,  
World Bank GRSF



# > WHO ARE THE ROAD USERS?





## > POSTED SPEED LIMITS

A road without Speed limit



## > POSTED SPEED LIMITS

### The same road with Speed limit



Provides information to drivers

Sets expectations

Should match driver's perception

And other issues such as the type of road, land use etc.

# > SPEED MANAGEMENT THROUGH INFRASTRUCTURE

**Traffic calming is the use of infrastructure designed and installed to slow down traffic and to reduce unnecessary through traffic.**

- Vertical displacement
- Horizontal displacement (e.g. lane narrowing)
- Signs and markings
- Gateway treatments
- Surface changes
- All of these.....

**GOOD TRAFFIC CALMING SHOULD MAKE DRIVERS FEEL LIKE THEY ARE SHARING ROAD SPACE, INCLUDING WITH VULNERABLE ROAD USERS.**

# > RISK FACTORS ON ROADS OUTSIDE BUILT-UP AREAS



Source: [theconstructor.org/transportation/geometric-design-of-highways-factors/20897/](https://theconstructor.org/transportation/geometric-design-of-highways-factors/20897/)



# > SPEED REDUCTION OUTSIDE BUILT-UP AREAS

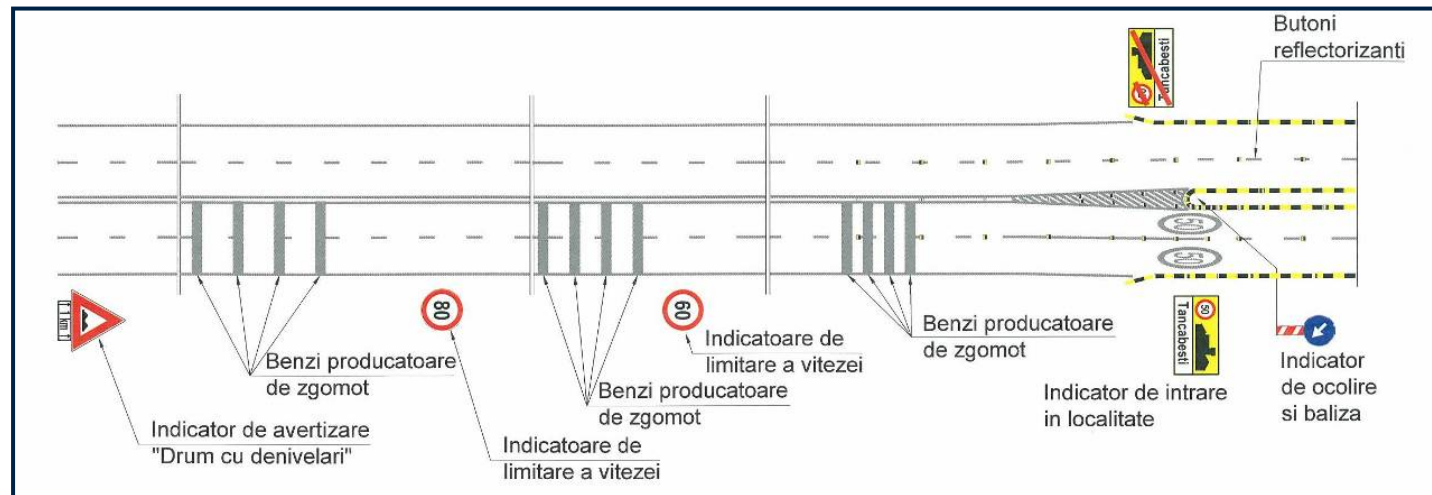


No infrastructure change



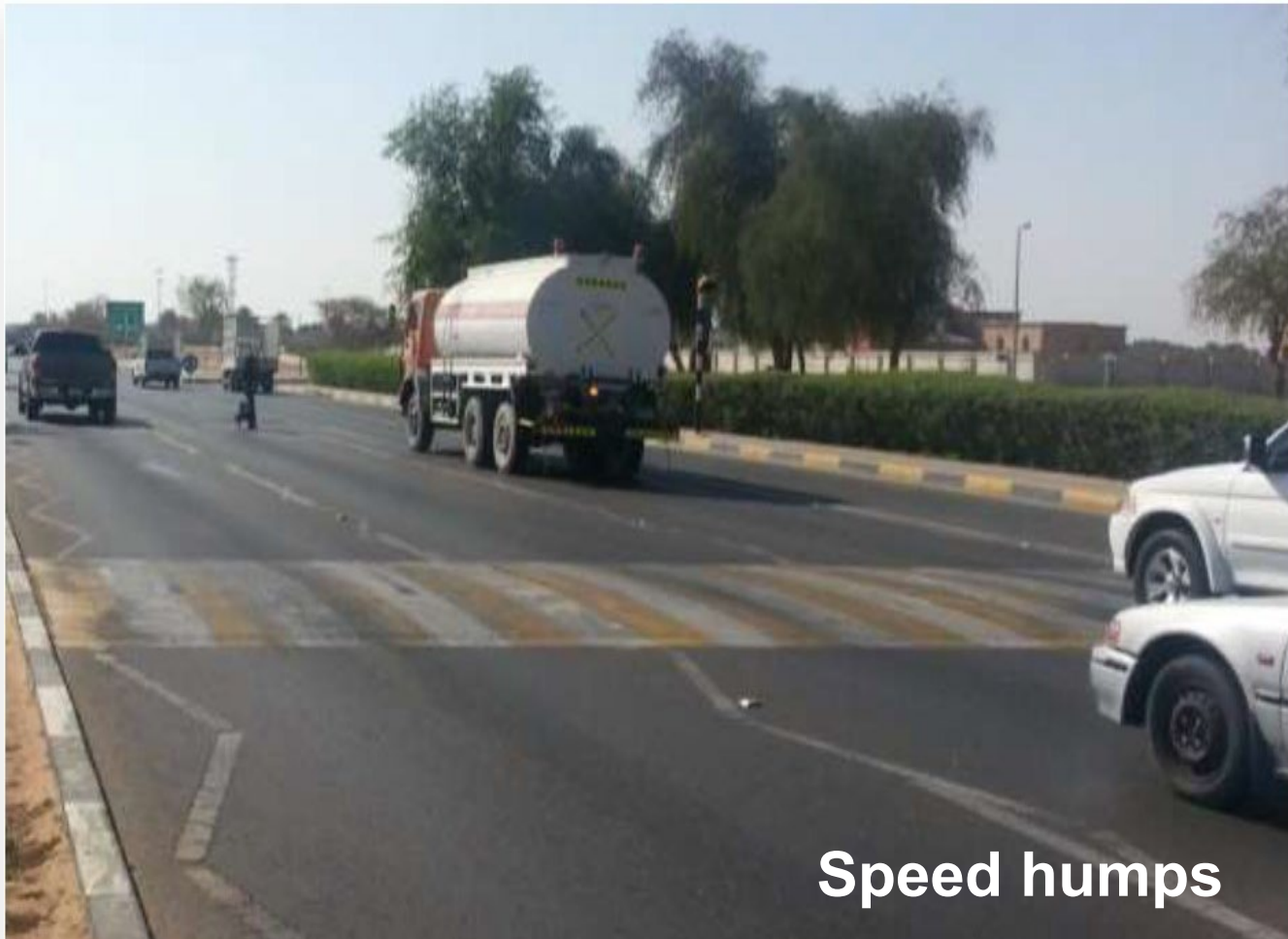
Gateways

## Transition Zones





# > SPEED REDUCTION OUTSIDE BUILT-UP AREAS



# > SPEED REDUCTION IN BUILT UP AREAS

**Roundabouts**



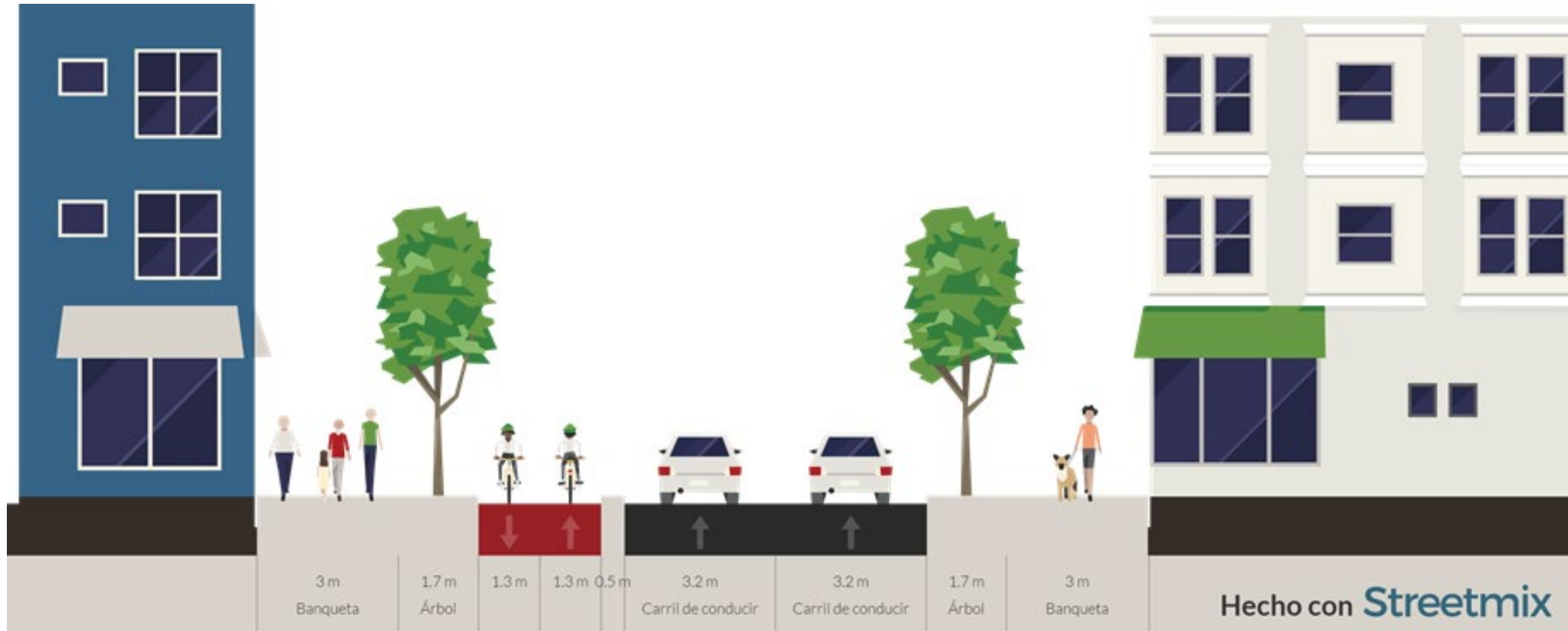
**Carriageway  
narrowing at  
pedestrian  
crossings**



**Wide central line marking**



# > RISK FACTORS ON ROADS IN BUILT UP AREAS



Source: Alcaldía Bucaramanga - Streetmix

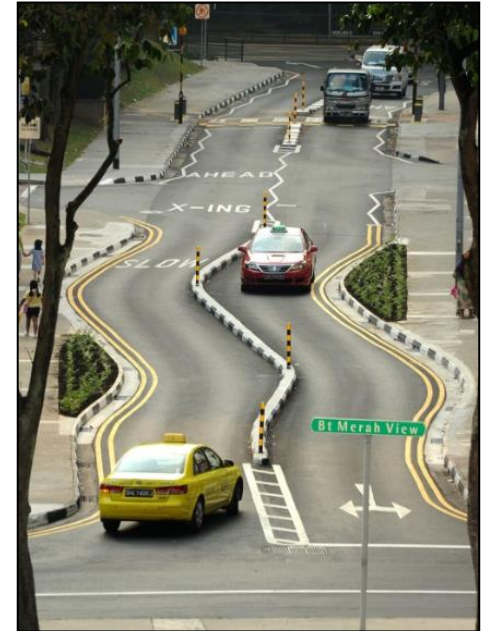
# > SPEED REDUCTION IN BUILT UP AREAS



**Raised Zebra Crossing**



**Chevron Marking**



**Chicane**



**Gateway Treatment**



**Raised Junction**



**Lane narrowing**



# > SPEED REDUCTION IN BUILT UP AREAS

## Roundabouts



Source: NACTO

# > COVID-19 BUILD BACK BETTER



Source: [thecityfix.com/blog/how-bogota-is-turning-7000-citizen-proposals-into-a-real-plan-to-redesign-a-major-thoroughfare/](https://thecityfix.com/blog/how-bogota-is-turning-7000-citizen-proposals-into-a-real-plan-to-redesign-a-major-thoroughfare/)



TECHNICAL ASSISTANCE FOR ACTIVE TRANSPORT DEVELOPMENT IN  
THE PHILIPPINES

## BICYCLE INFRASTRUCTURE TRAININGS

APRIL - SEPTEMBER 2021

 **WORLD BANK GROUP**

 **Bloomberg  
Philanthropies**  
INITIATIVE FOR GLOBAL ROAD SAFETY

 **GRSF**  
Global Road Safety Facility

 **Australian Government**

 **NL Netherlands**

 **DUTCH  
CYCLING  
EMBASSY**

WORLD BANK GROUP / MARCH 2021



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

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