



  
INDIA  
**CYCLES 4 CHANGE**  
CHALLENGE

# Handling the handlebar survey

30<sup>th</sup> Sep '20, Wednesday  
3.00PM - 4.30PM IST

## INTRODUCTION

by **Mr. Rahul Kapoor**,  
Director, Smart Cities Mission,  
Ministry of Housing and Urban Affairs (MoHUA)

CONVERSATIONS WITH CITIES  
**FINDINGS FROM THE HANDLEBAR  
SURVEYS, PAIN POINTS AND DESIGNS**  
with Kohima, Udaipur, and Ahmedabad

PRESENTATION + Q&A SERIES  
Moderated by ITDP India Programme

HOW TO INITIATE DESIGN AND BUILD  
MOMENTUM FOR CYCLING

We will start the  
session at 3PM IST





# INDIA CYCLES 4 CHANGE CHALLENGE



# **CONGRATULATIONS CITIES!**

On phenomenal and diverse engagement for  
India Cycles4Change Challenge



# Cities have... Spread the word about cycling



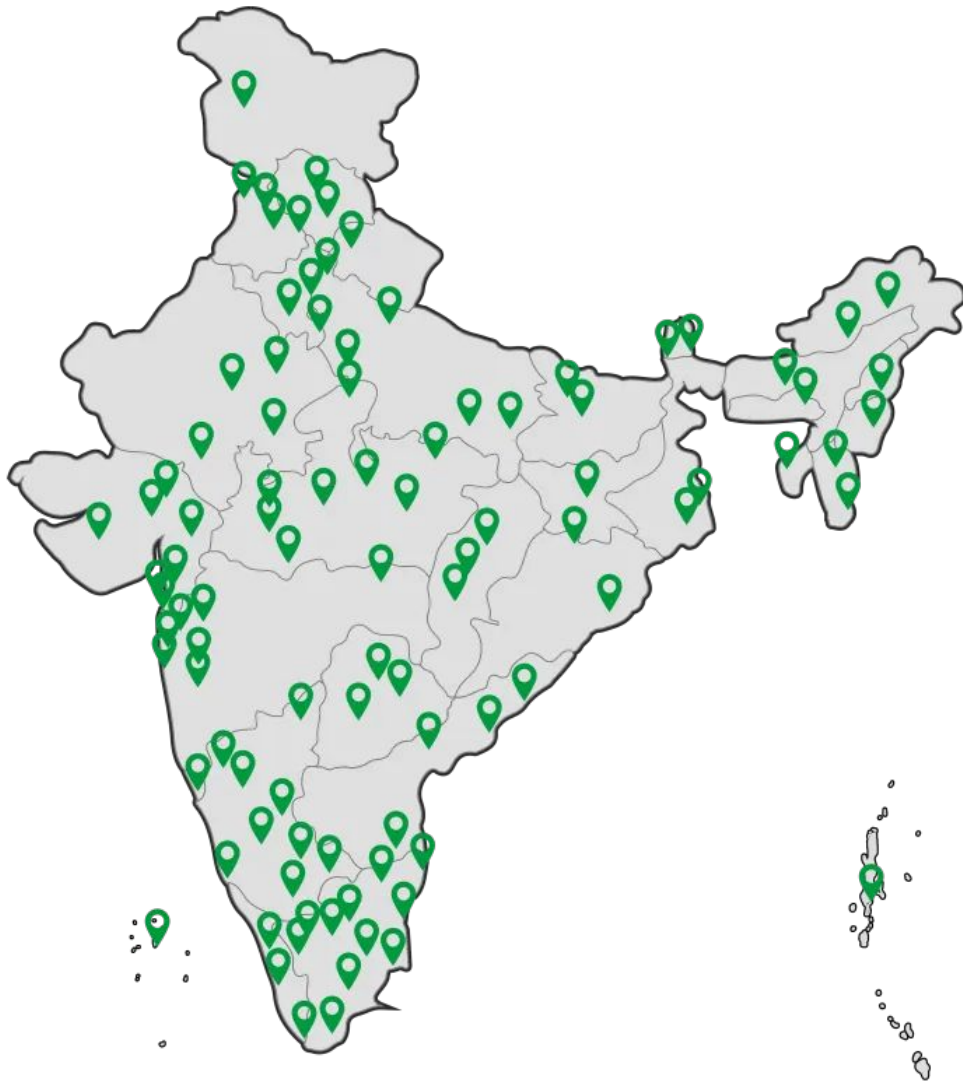
46

**Cities have rolled out initiatives to engage citizens**

37

**Cities have made efforts to include vulnerable users too!**

# Kickstarted the process to transform our streets



**371km**

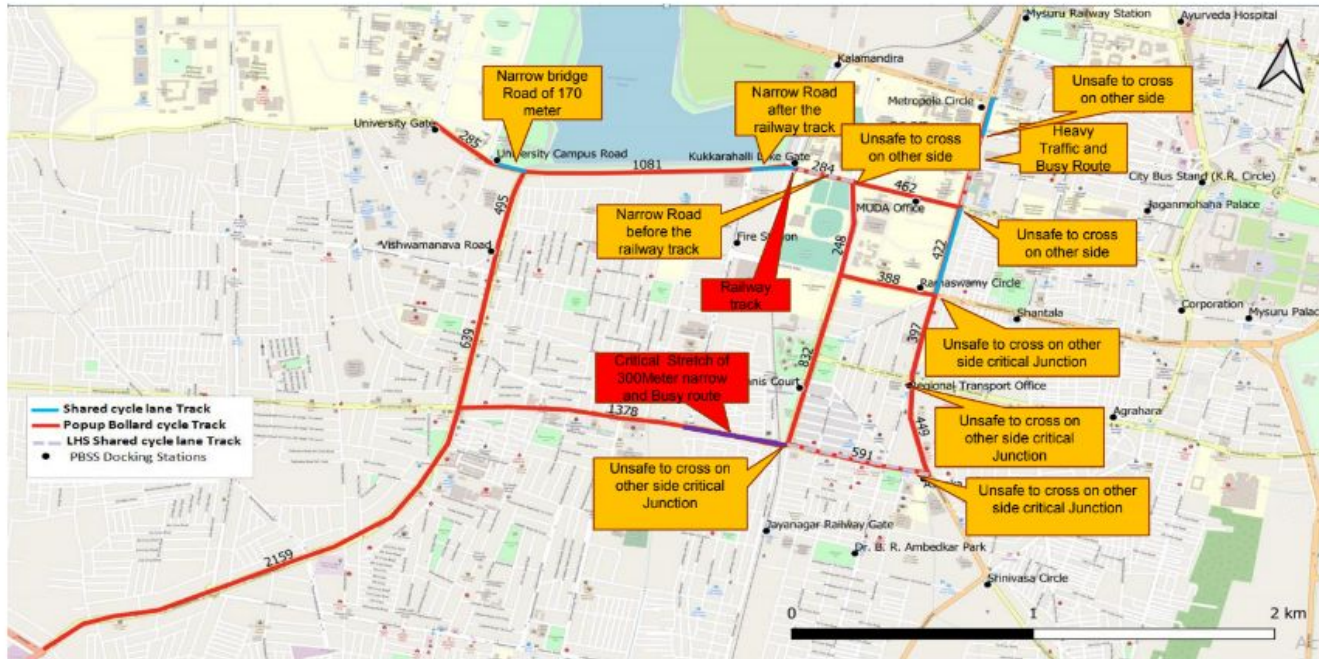
**length of corridor selected for cycling interventions**

**404  
sq.km**

**neighbourhood area selected to become safer for cycling**



# Identified issues faced by cyclists on ground

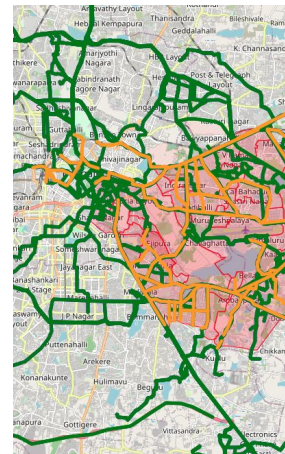
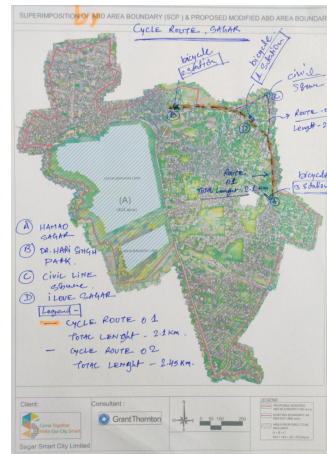
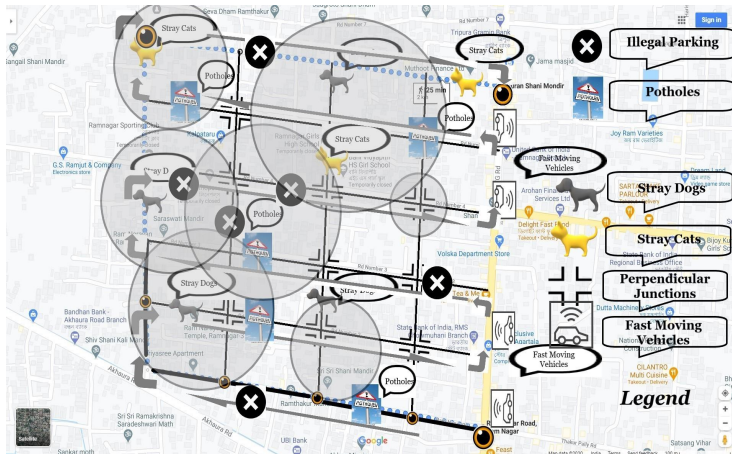


34

Cities have conducted the handlebar survey

27

Cities have identified the deal breaker points



# Let's hear from the cities!

In conversation with



**Kohima**



**Udaipur**



**Ahmedabad**

# KEY TAKEAWAYS



# What is a pain point?



Dangerous intersections

Source: African Celebs on India Crossroads



Poor lighting



Anti social activities

Source: Nottingham Post



Fast moving vehicles

Source: Global Innovation for Climate Finance



Poor road surface

Source: Cycling Today



Narrow streets

## DEAL BREAKER!!!

Dark streets with anti social activities! **Dangerous, especially for women.**

## DEAL BREAKER!!!

Parking encroachments and high speed traffic **hinder movement of cyclists**

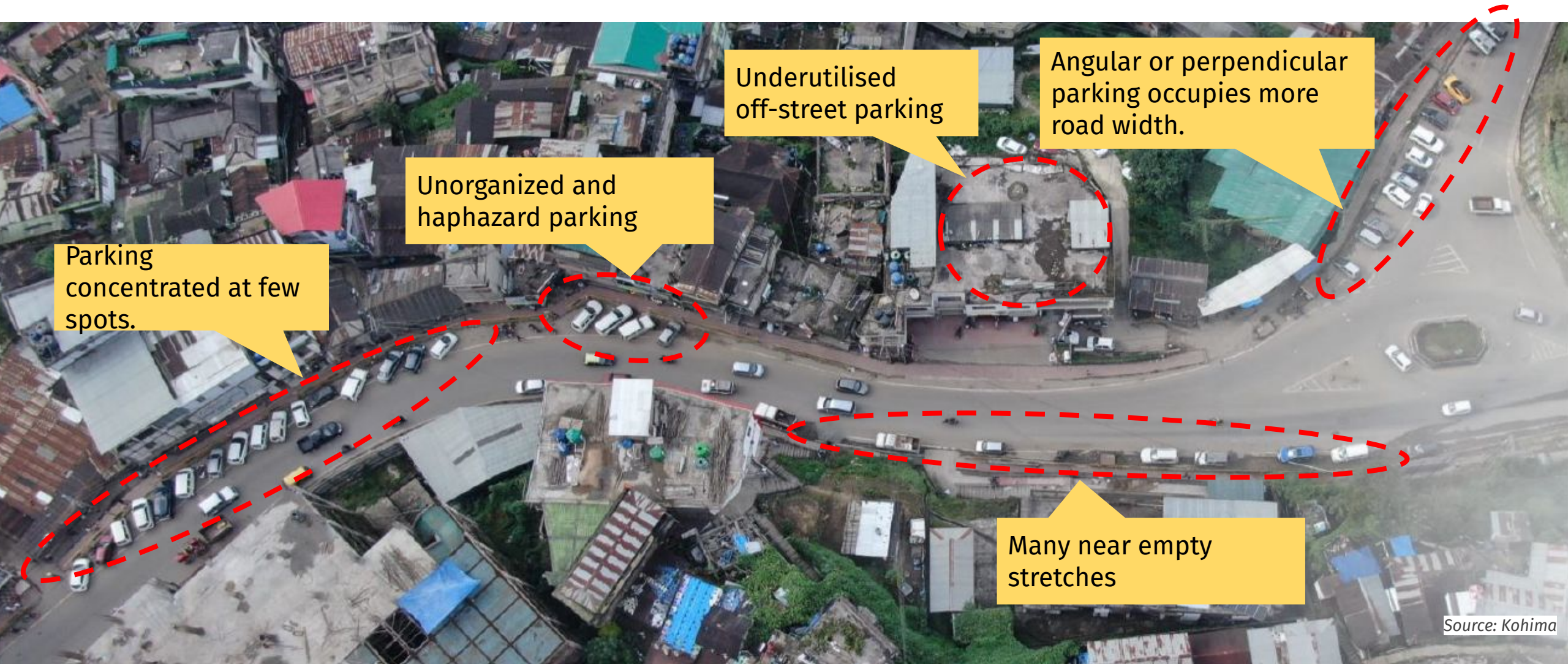
## DEAL BREAKER!!!

Unsafe for cyclists, **especially beginners!**

# **MANAGING PARKING**



# Parking is a super local problem



Parking concentrated at few spots.

Unorganized and haphazard parking

Underutilised off-street parking

Angular or perpendicular parking occupies more road width.

Many near empty stretches



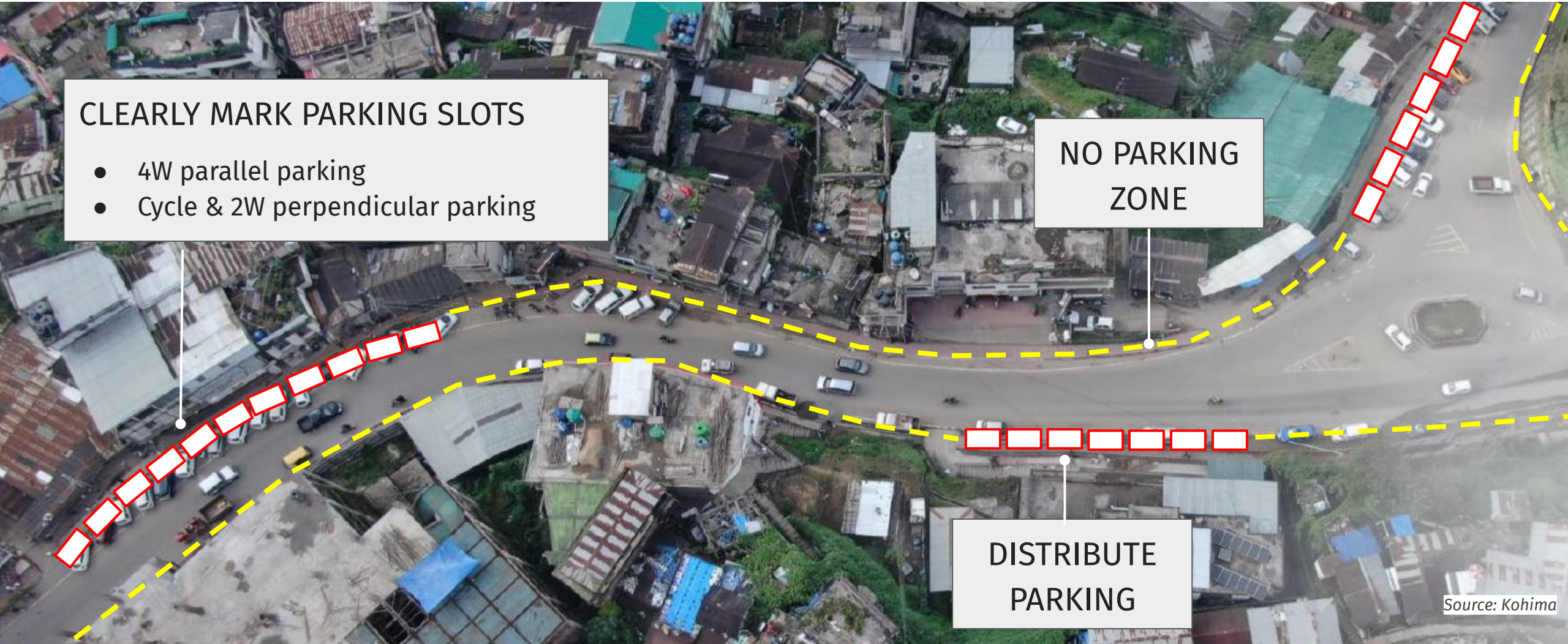
# Demarcate | Distribute | Enforce

## CLEARLY MARK PARKING SLOTS

- 4W parallel parking
- Cycle & 2W perpendicular parking

NO PARKING  
ZONE

DISTRIBUTE  
PARKING





# Price it right!



₹40  
per hour

₹10  
per hour

OFF-STREET  
PARKING

₹20  
per hour

Source: Kohima



# Parking Basics

**First cycle parking & IPT stands, then private vehicle parking**

**Charge for duration**  
(discourage long term parking)

**Charge high where demand is high**  
(enough to keep ~15% spots vacant)

**Free cycle parking**



**Shift parking from streets to off-street spaces**

Encourage the use of parking lots and stilt and basement parking in commercial & institutional buildings, even residential



First of all, parking is a commodity, not a right. It comes with a price.

I bought a car but the government hasn't given me a free place to park!

I bought an air conditioner but the government hasn't given me a free house in which to install it!







## Multi-level car parking doesn't solve parking woes. **Better on-street management does.**

Parking on streets and in multi-level structures is a commodity, not a public good. Build less of it, charge more for it, and manage it better!

Is there an end to parking demand when it's free?

Why are these cars blocking the footpath when the multi-level parking is empty?

Isn't it unfair that I have to pay full market rent but they can park anywhere rent-free?

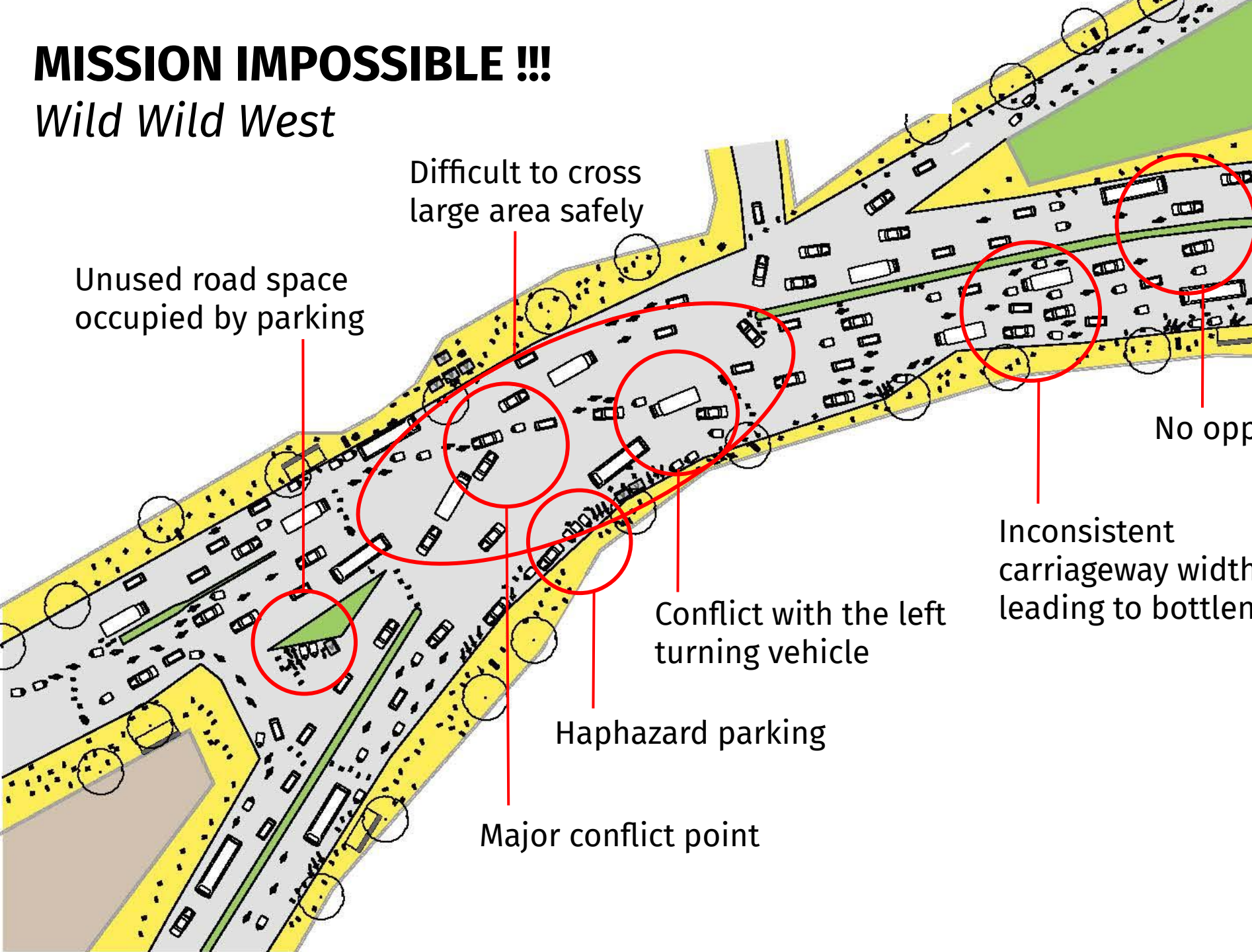
Why should I park in multi-level parking when no one stops me from parking anywhere on the street?

# **MAKING INTERSECTIONS CYCLE-SAFE**



# MISSION IMPOSSIBLE !!!

## Wild Wild West



Unused road space occupied by parking

Difficult to cross large area safely

No opportunity to cross

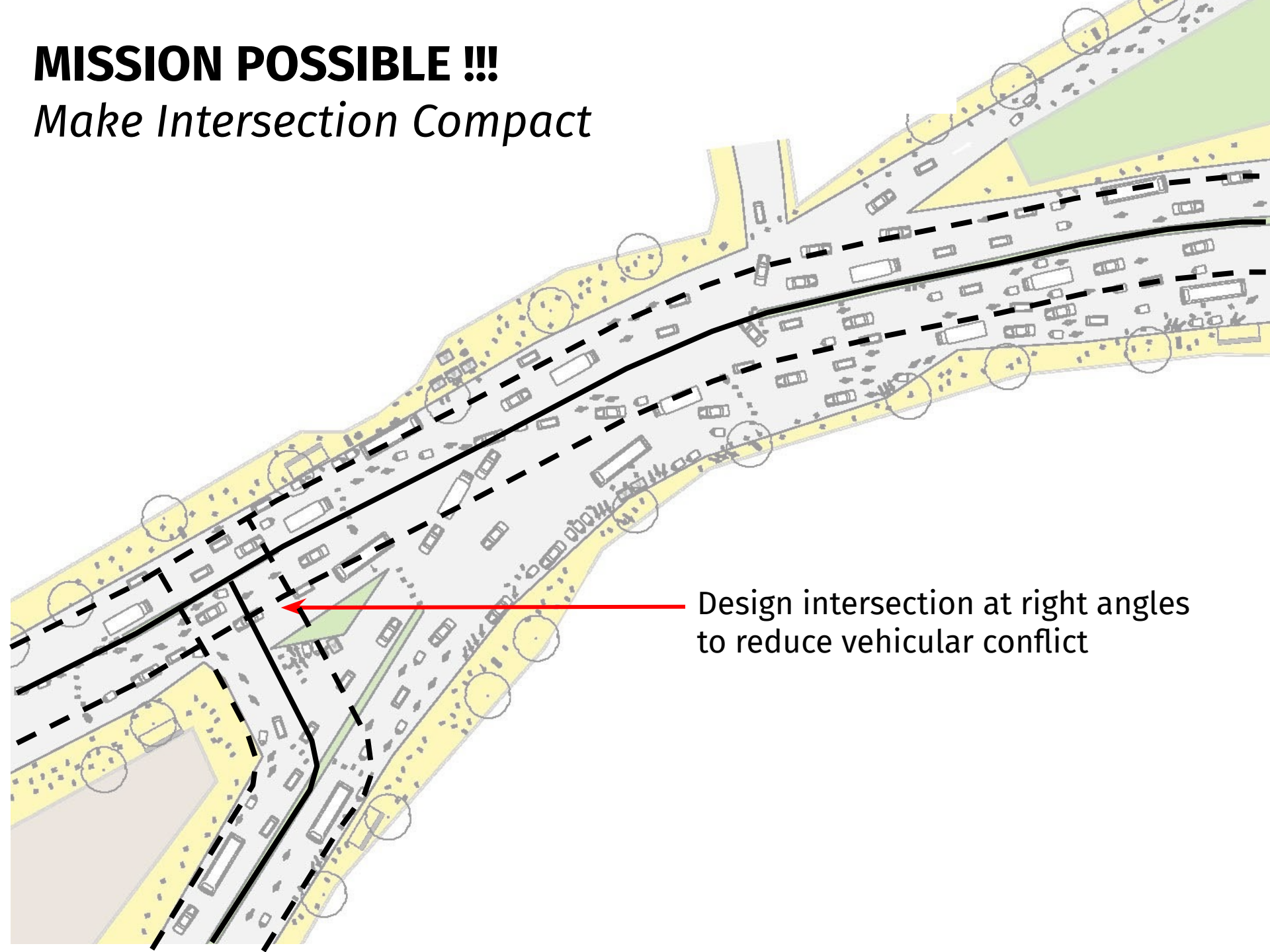
Conflict with the left turning vehicle

Inconsistent carriageway width leading to bottleneck

Haphazard parking

Major conflict point

**MISSION POSSIBLE !!!**  
*Make Intersection Compact*

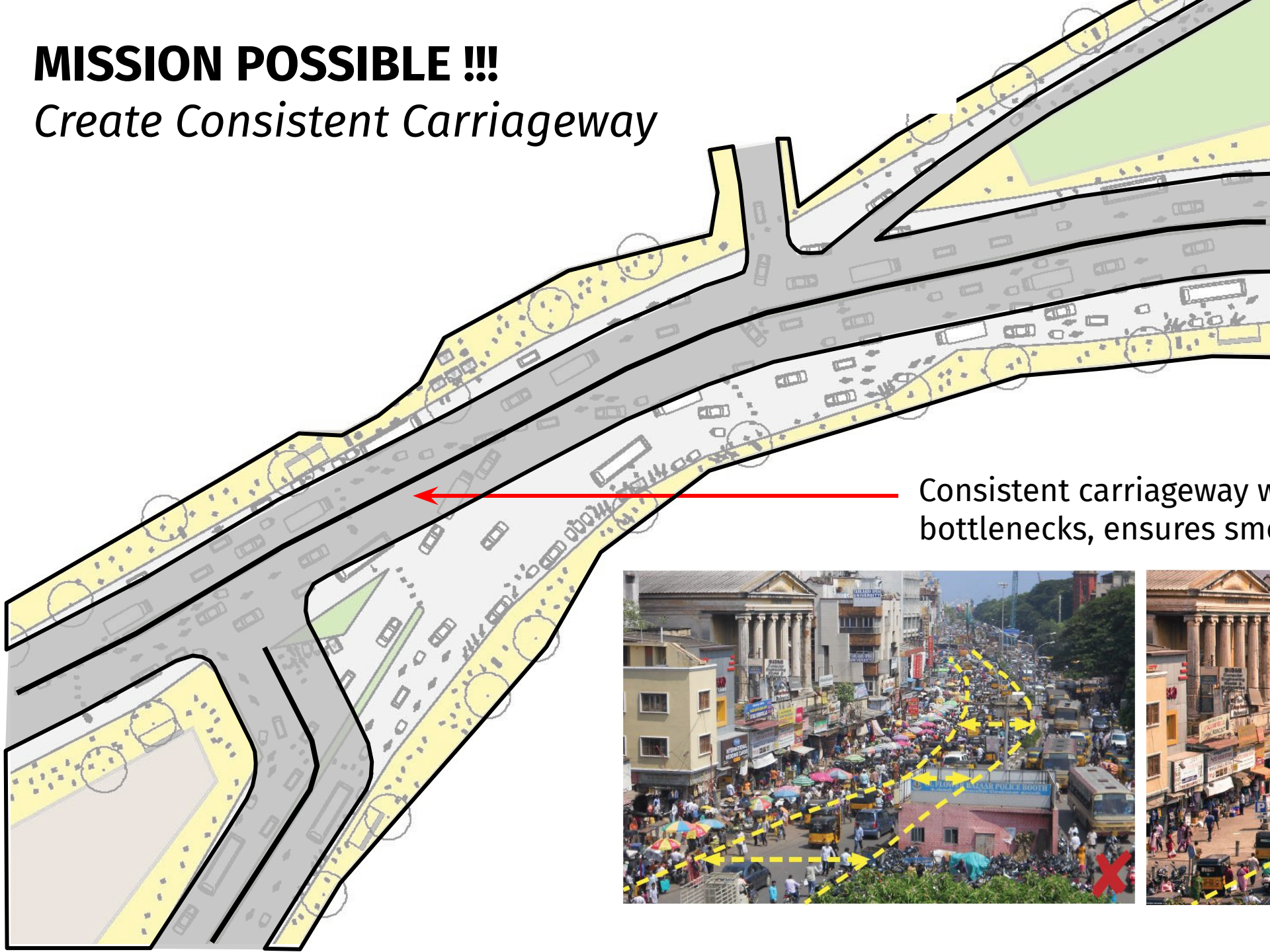


Design intersection at right angles  
to reduce vehicular conflict

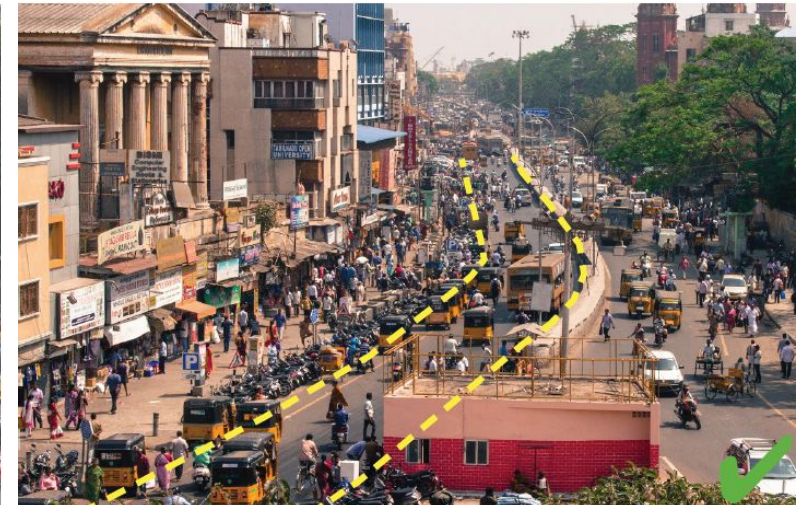


# MISSION POSSIBLE !!!

Create Consistent Carriageway



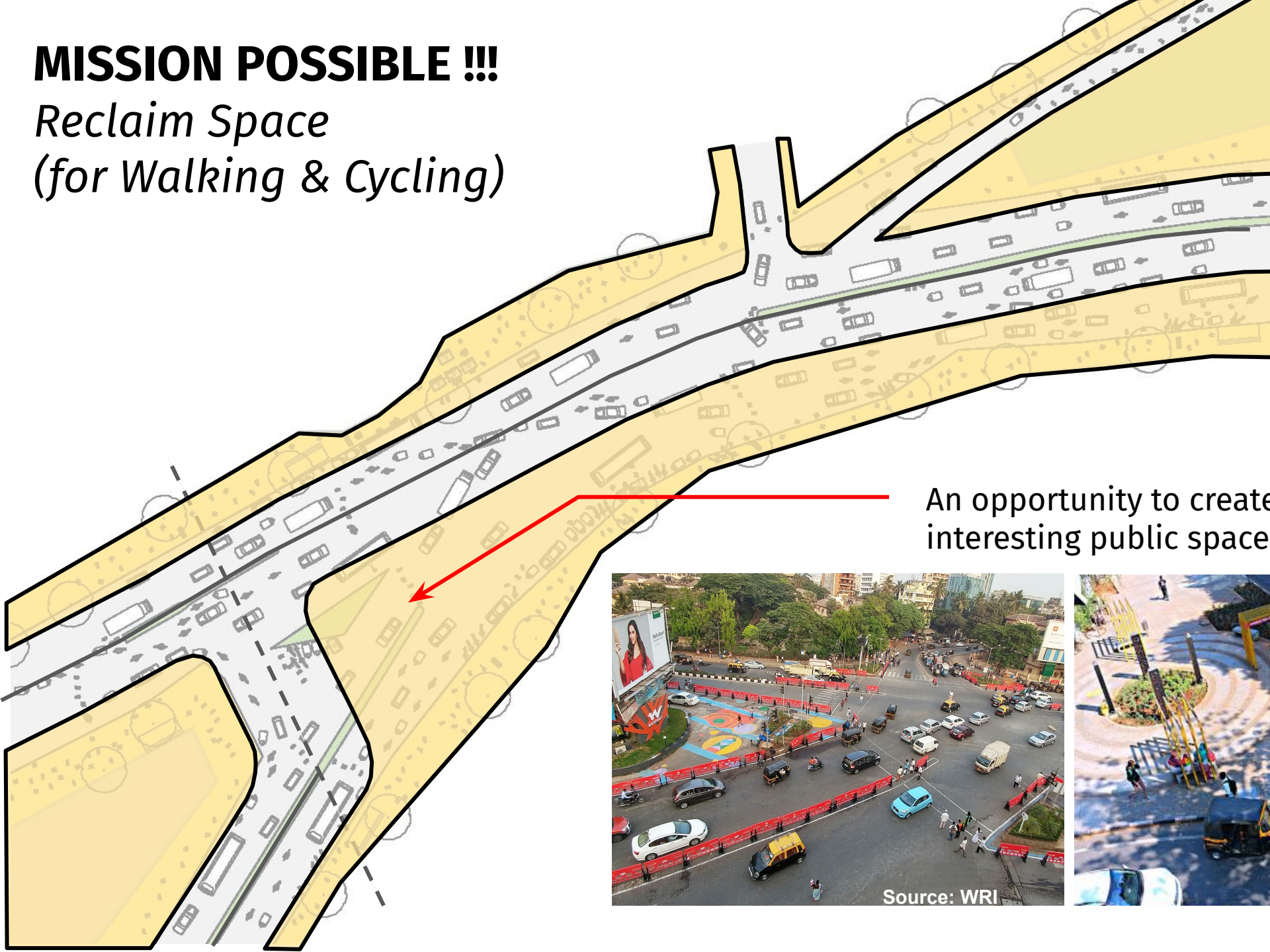
Consistent carriageway width prevents bottlenecks, ensures smooth traffic movement





# MISSION POSSIBLE !!!

*Reclaim Space  
(for Walking & Cycling)*



An opportunity to create interesting public space



Source: WRI



# MISSION POSSIBLE !!!

## *Making it Cycling-Friendly*

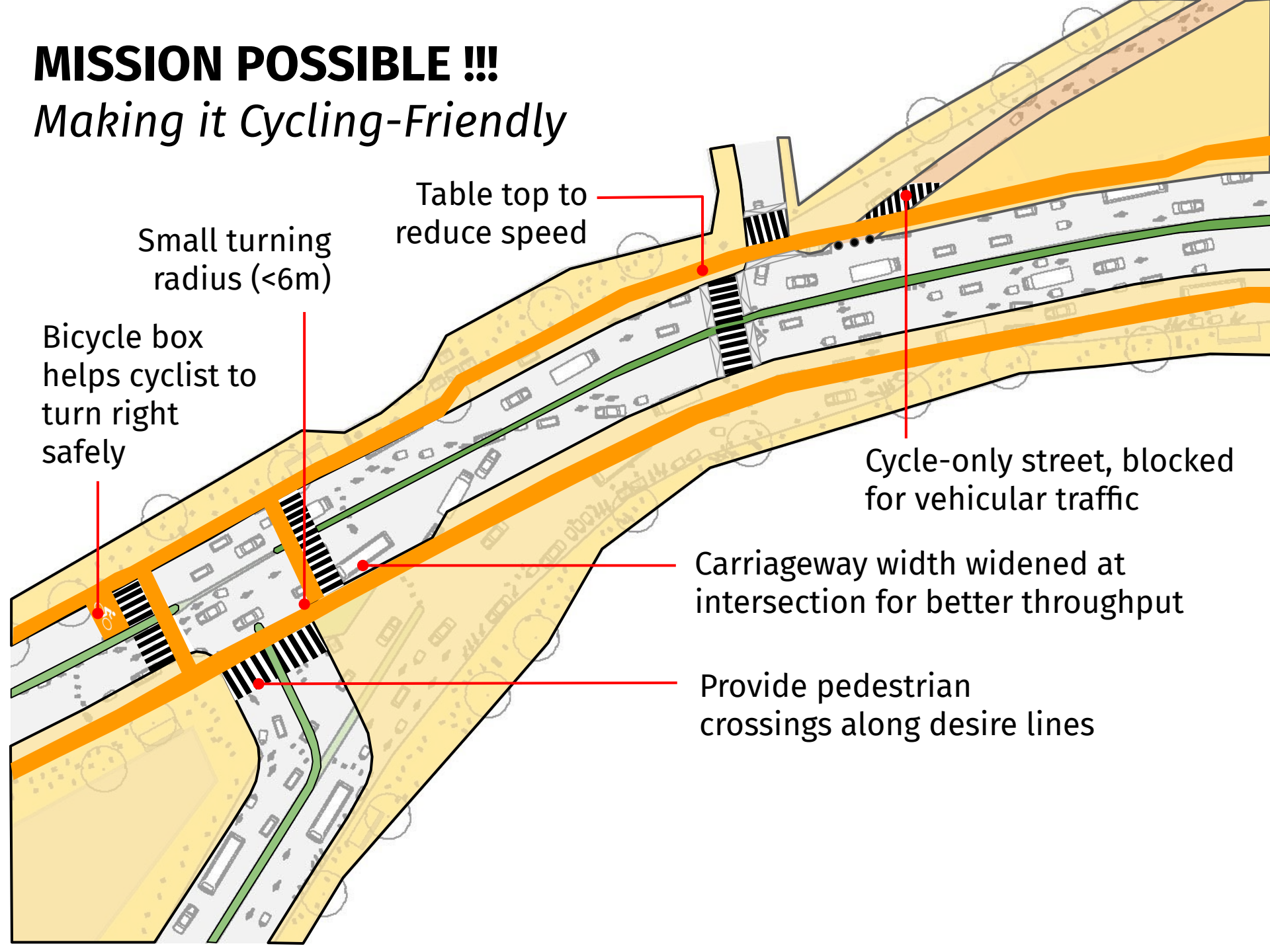


Table top to reduce speed

Small turning radius (<math><6\text{m}</math>)

Bicycle box helps cyclist to turn right safely

Cycle-only street, blocked for vehicular traffic

Carriageway width widened at intersection for better throughput

Provide pedestrian crossings along desire lines

# **CALMING NARROW STREETS**



# Ensuring safe cycling on narrow streets



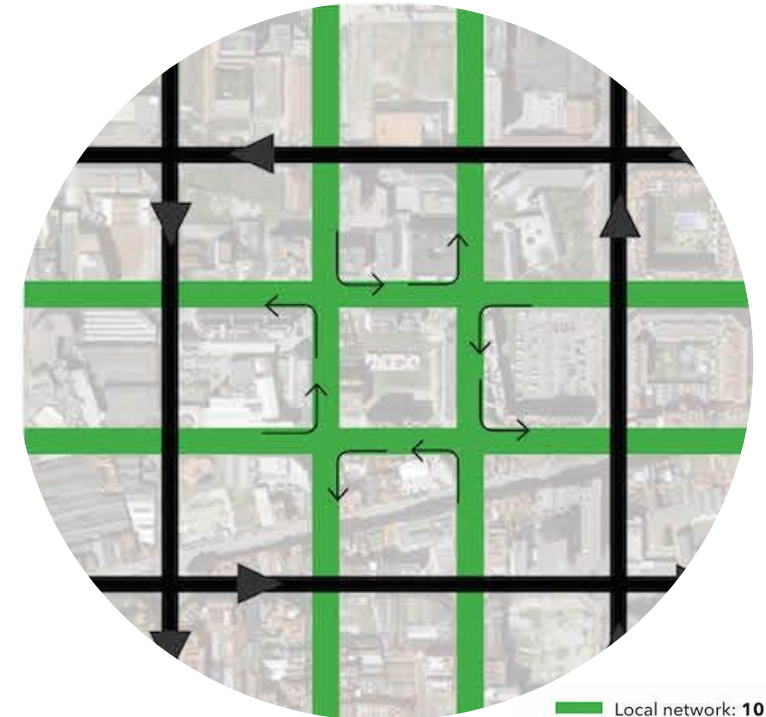
Source: NACTO

## Speed humps & Table top crossings



Source: Open Town Hall

## Chicanes



Source: theguardian.com

Local network: 10 km/h  


## Traffic re-routing

*Put up appropriate signages as applicable*



# DEVELOPING DESIGN SOLUTIONS



*Source: Nottingham Post*

Identify pain points and deal-breakers



Develop design solutions and check site feasibility



Discuss plans with community for feedback and support

**We will share offline resources and checklists**



# Open Streets on Gandhi Jayanti!

Gandhiji built a vision for our country on a simple spinning wheel!

This Gandhi Jayanti, let's use our spinning wheels to **envision a more sustainable future.**

**On October 2nd, we invite you to create open streets for cycling!**



**INDIA CYCLES 4 CHANGE CHALLENGE**

## Closed for traffic, Open for life!

**CITY NAME**  
aims to create a safe environment for Women and Children to learn and practice cycling!

COME ON! YOU CAN DO IT!

Local: [Redacted] Road, Near Super Supermarket

**Timings:** 09.00am-1.00pm

For more details, contact: +91- 123456789

**Masks and physical distancing to be followed strictly.**

**ITDP** India Programme | **Smart City** | **Ministry of Housing and Urban Affairs** Government of India | **FIT INDIA** | एक कदम स्वच्छता की ओर | **CITY LOGO**

We have shared the guide & template

## By Workshop 5

1. **Design** the pilot stretches
2. **Conduct site visit** to check feasibility of designs
3. Refine the designs through **expert review sessions**
4. **Organise focused group discussions**
5. **Build the momentum** through campaigns

## C4C team will share

- Presentation and video of Workshop 4
- Design solutions and Implementation details
- Site Analysis checklist
- Guidance on using Streetmix



# Thank you

Website - <https://bit.ly/3ju3ZCY>

Facebook - India Cycles4Change

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