

# Kolkata Needs to Think beyond cars - Part 2

This infographic aims to answer the concern of bicycles slowing down traffic speed.

Validated by ground data, the findings show if Kolkata Police's claims that cycles are slowing down traffic speed, holds any ground. Findings have been drawn from two studies - Vehicular Count Survey and Speed Mapping Survey



Vehicular Count Survey

2



Speed Mapping Survey



# Vehicular Count Survey: What is the vehicular composition in Kolkata?

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Vehicular Count Data is based on **8 major roads** for peak hour traffic **(9-11 AM)** and a comparative study has been carried out with data collected in 2013 and 2020 during the period November - January

Two set of Primary Surveys were conducted in 3 time phases

Manual vehicular count undertaken by field staff



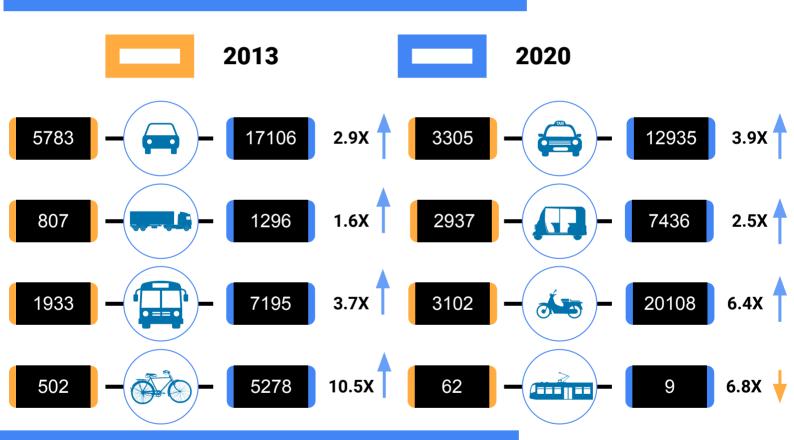
Image and video capture Ultadanga Ballygunge
Rajabazar Dhakuria
Sealdah Hazra

**Esplanade** 

**Park Circus** 



## CHANGES IN VEHICULAR COMPOSITION ACROSS KOLKATA BETWEEN 2013 AND 2020



#### SO WHAT DOES THE ABOVE DATA MEAN?







There has been a **3X** increase each for cars and taxis and almost **8X** increase in motorcycles between 2013 and 2020, making up 69% of the total share on the road

Trams saw a decrease in numbers by almost 7X



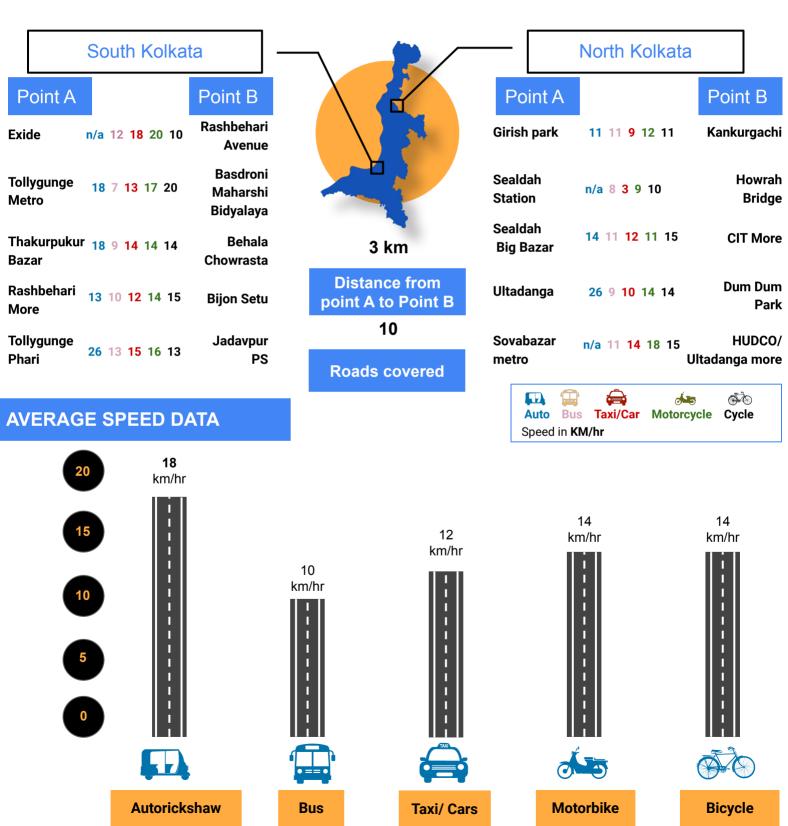
Although cycle share has increased by 10.5 X, yet cycles form only form 7% of the total transport share.





A speed mapping exercise was done across 10 major roads from one point to another covering a constant distance of 3 km. The exercise was done to determine if cycle is indeed as slow as the officials are claiming it to be.

**Methodology:** Time taken to commute between one point to another was recorded using a mobile timer and an android app (Strava). Speed was calculated from time and distance.



### WHY CYCLING SHOULD BE MADE THE CENTRE OF MOBILITY PLANNING IN KOLKATA?





14 - 18

The average trip length in Kolkata is about 3 kilometers (CSE, 2018) A cycle can easily cover this distance within 14 minutes which is equivalent to a car.



Speed of traffic in Kolkata is 10-18 km/ hour. Our analysis proved that cycles can easily match this speed.





The average speed of a cycle is equivalent to a motorbike and almost 16% higher than cars

#### **WAY FORWARD**

2



Cycle share has **increased 10.5 times** in 2020 from 2013. However, it is still far less compared to cars. Despite cycle restrictions, public demand for cycling has been on the rise because of the several benefits of cycling.

Cycles form only **7% of the transport share** while cars, taxis and motorcycles taken together account for 69%. Hence, it is evident cycles cannot slow down traffic speed

Cycles can easily match up and be faster than most other forms of transport and Kolkata's traffic speed which is 10-18 km/ hour. Hence, cycles are more effective than cars and other mobility options.

Cycles form an important component of mobility and are an environment friendly and healthy replacement for motor-vehicle and need to be acively promoted