







Government of India





Step-by-Step process for gathering data

during the <u>site visit</u>

Guide to Site Analysis -

Intent:

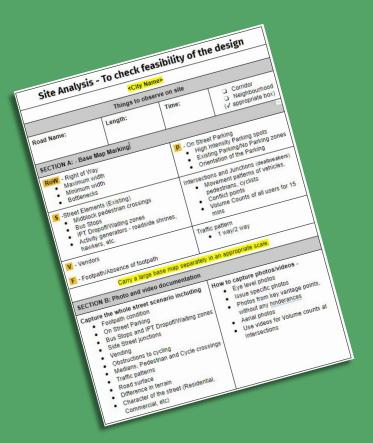
To check feasibility of the design interventions by analysing the street at the dealbreakers points of the pilot cycling corridor and neighbourhood.

The site analysis should be carried out during **peak** hours, at the morning and evening.

It should be done at all the **dealbreaker points in the corridor and neighbourhood.**

Things to carry

- 1. Site Analysis Checklist
- Large map of the corridor and neighbourhood with the dealbreaker points located
- Measuring tape/ Laser Measuring Tool
- 4. Pens, pads, folder
- 5. Camera/Phone with camera
- 6. Requisite permissions for the documentation



Part 1: How to Document

various activities.

Use **photos**, **videos**, **maps**, **and sketches** to

capture the current usage of the street and the

Photo and video documentation - What to capture

Capture the whole street scenario including -

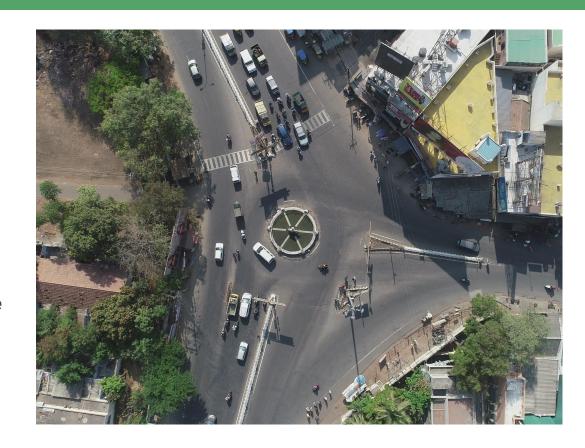
- Footpath condition
- On-Street Parking
- Bus Stops and IPT Dropoff/Waiting zones
- Side street junctions
- Vending
- Obstructions to cycling
- Medians, Pedestrian and Cycle crossings
- Traffic patterns
- Road surface
- Difference in terrain
- Character of the street (Residential, Commercial, etc.)



Photo and video documentation - How to capture

- Take serial vision photos of the site photos while walking/cycling to and from either directions of the street.
- Capture issue specific photos

 Eg: Obstructions to cycling, haphazard parking etc.
- **Identify key vantage points** without any visual hinderances.
- Aerial photos with the help of a drone or from the terrace of a tall building will reveal unused road space and the traffic movement at intersections.



Sections

- Use simple sketches to document the present use of the Right of Way (RoW) width occupied by street activities.
- Use labels such as -

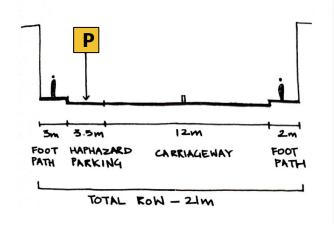
RoW - Right of Way

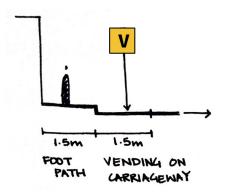
P - On Street Parking

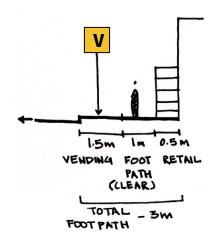
F - Footpath

V - Vending

- Street elements such as medians, pedestrian and cyclist crossings, bus stops







Plans

Use colours, symbols and comments to make observations on the base map.



Part 2: Things to document

1. Right of Way width (RoW)

To measure the total width of the street that is available for all users.

- OpenStreetMaps and Google Maps can act as a starting point and as a reference.
- To verify on site, measure the width of the street from one property edge to the other.
- Mark the RoW width at locations where there are significant changes. Find the average width through the stretch, minimum width, maximum width, and width at bottlenecks.



2. Condition of the Footpath

To assess the condition of the footpath

- Observe the following -
- Is footpath provided
- Is the footpath continuous and walkable?
- Is the width sufficient for walking?
- Are pedestrians using the footpath or carriageway?
- Map the activities that discourage people from using footpaths -
- Shop extensions that reduce walking space
- Parking
- Vendors



3. On Street Parking Situation

To assess the existing on street parking situation.

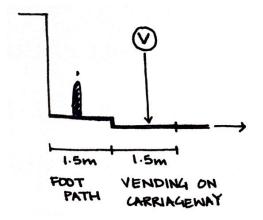
- Mark the width occupied, existing parking & no parking zones in the map and overall RoW.
- Observe the following -
- Is there **high intensity parking**?
- Is parking haphazard? Double parking, encroached on footpaths
- What is the **orientation?** Parallel, Angular, Perpendicular
- Is **cycle parking** provided?
- Are parking lots in the area used to their full potential?



4. Vending

To assess the impact of vendors on the street and integrate them in the design.

- Map the **vendors** through sections or photographs.
- Mark the road width occupied by the vendors in the overall RoW width.





5. Street Elements

To identify all the street elements that will influence the design.

- Location of bus stops and IPT dropoff/waiting zones
- Mark existing midblock pedestrian crossings.
- Traffic rerouting through temporary/permanent traffic barriers
 - location and duration during day.

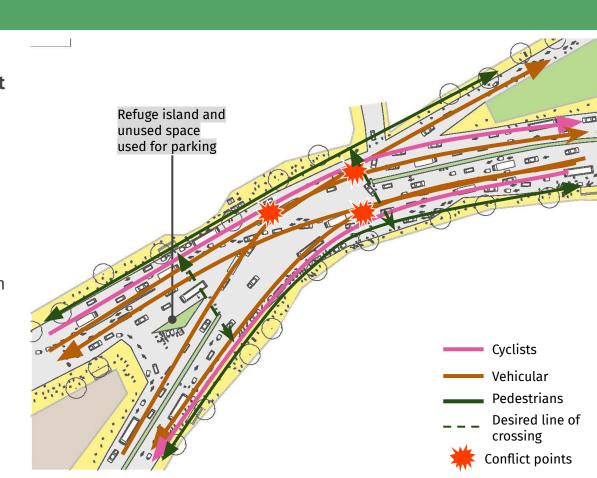




6. Traffic Patterns at Intersections

To identify movement patterns of different road users and conflict points at the intersection

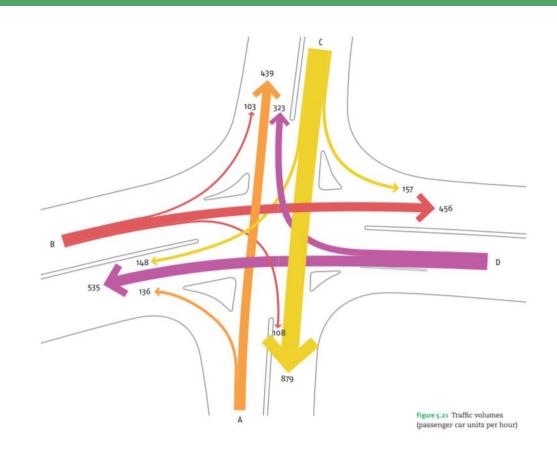
- Mark the movement of different users and the geometry of the intersection.
- Identify conflict points, which mainly arise in large, unsignalized intersections.
- Observe if pedestrians and cyclists can cross the intersection safely and the desired line of crossing.
- Mark refuge islands and unused space at the intersection.



7. Volume counts at Intersections

To identify traffic patterns of motor vehicles, cyclists, and pedestrians

- The volume counts of motor vehicles, cyclists, and pedestrians should be captured, along with signal cycles and timings.
- The count should be taken at peak hours and for a duration of 15 minutes.
- Counts can be conducted on site or from a video recording.
- More details can be found in the <u>Better Streets, Better Cities</u> document, page 164 onwards.



8. Other issues

To identify other issues that hinder the movement and sight of cyclists.

- Dustbins
- Hoardings
- Utility Infrastructure
- Garbage
- Etc.



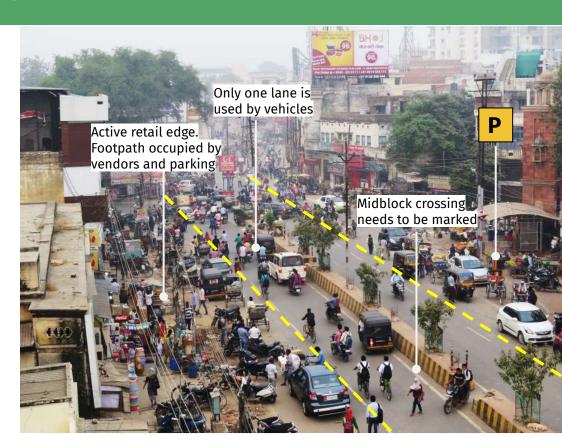


Inferences from site analysis

Analyse all the information and make inferences about the street scenario along the corridor and neighbourhood.

An example from the corresponding photo -

- 2 carriageway lanes are provided but only one carriageway lane is effectively used by vehicles.
- **50% of the carriageway** is occupied by haphazard parking.
- Shop extensions on the footpath force pedestrians to use the carriageway, leading to collisions with cyclists.
- Cyclist and pedestrian crossings are infrequent.



Modify the design based on site conditions

- Use the site analysis to further develop and refine your designs.
- Engage in discussions with the relevant stakeholders to gather inputs, build support for the design and to resolve issues due to on-street parking.
- Coordinate with Government agencies to shift on ground utilities that serve as obstructions.

