



Safety Audits in Delhi

2023



Methodology



SAFETIPIN NITE

The Safetipin Nite app is used to collect images along the main streets of the city, as well as key public spaces. A phone with the Safetipin Nite app installed was mounted on the screen of a car. When the car is being driven, the app automatically takes photos of the street in landscape mode. Using Safetipin Nite, the entire city road network is mapped with images that were then assessed on the Safetipin's backend technology platform.

Parameters Evaluated:


LIGHTING


WALKPATH


OPENNESS


VISIBILITY


PUBLIC
TRANSPORT


SECURITY


PEOPLE


GENDER
USAGE

Based on the parameters' ratings, an overall Safety Score is calculated on a scale of 10. Further, each parameter is examined on a comprehensive list of sub-parameters to identify key issues regarding safety in public spaces.

Safety Audits in Delhi



Audited Points include


3054
Bus Stops

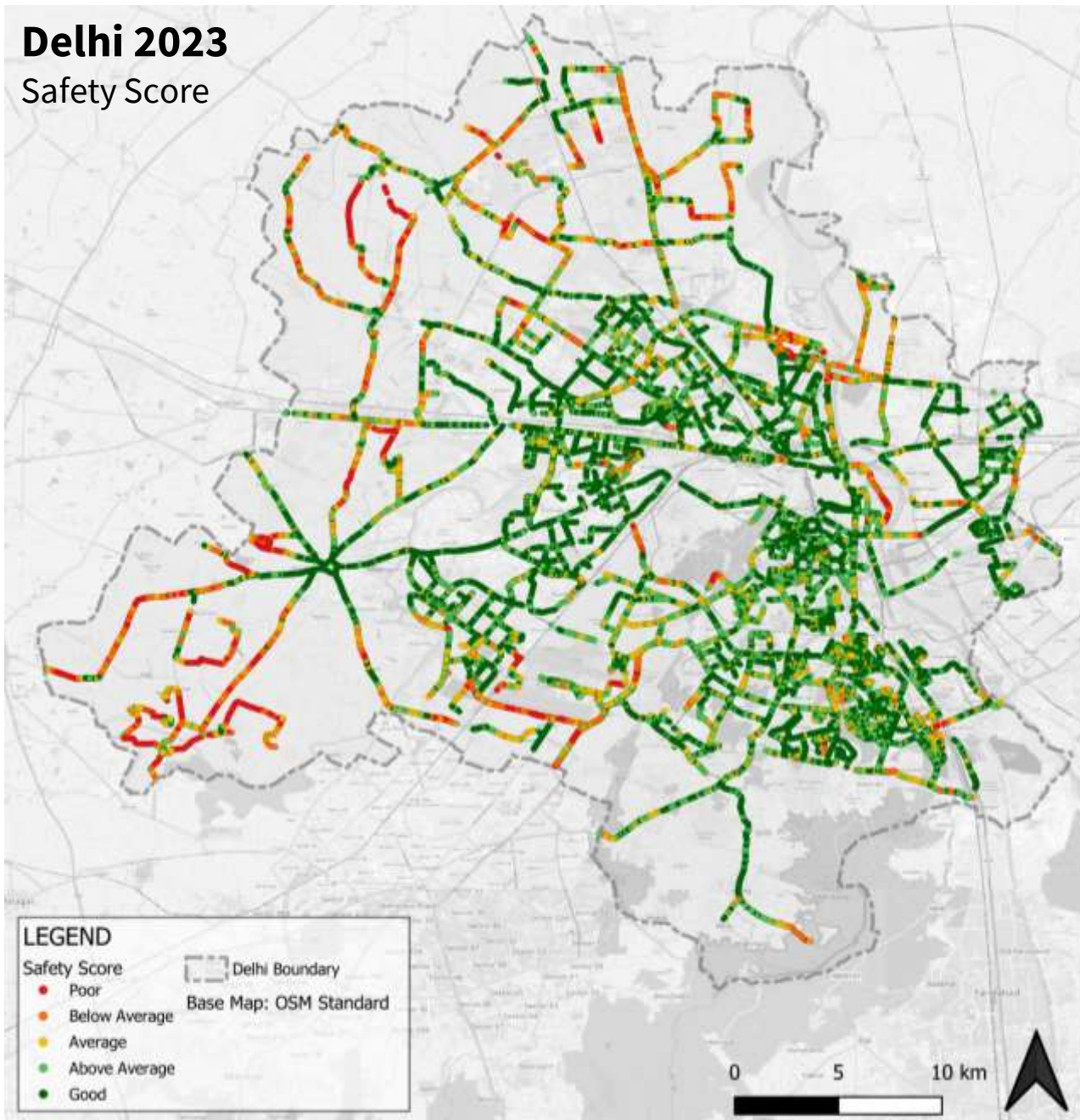

90
Metro Stations



Key Findings

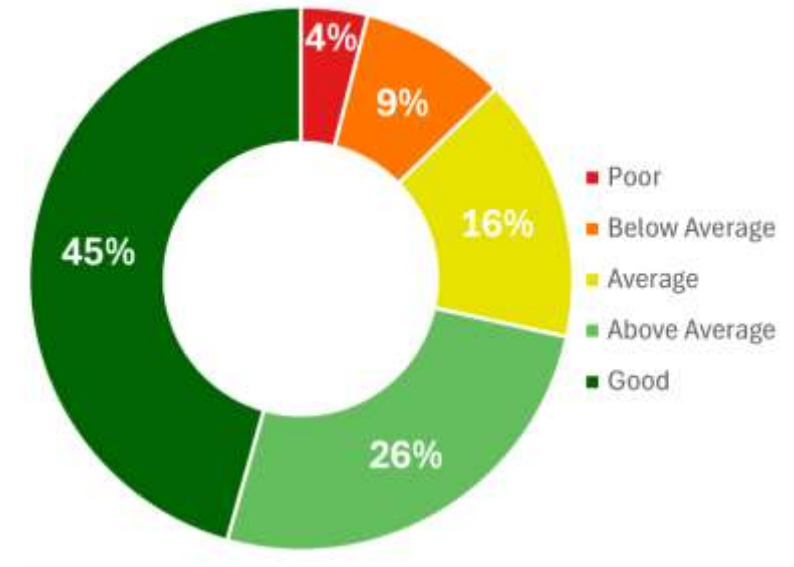
Delhi 2023

Safety Score

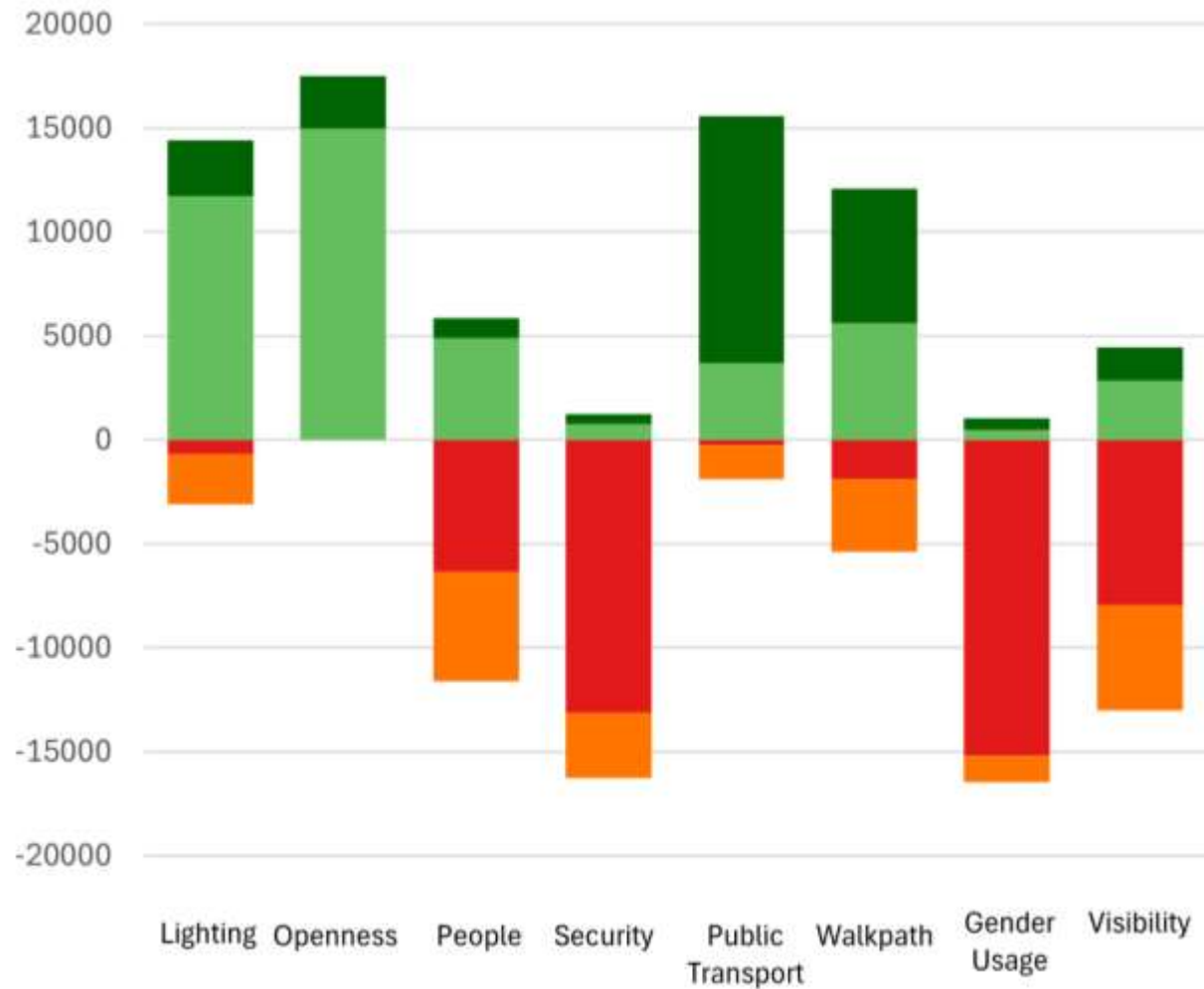


Safety Score

- Safety Score: **6.6/10 (i.e. Above Average)**
- **45%** of the audit points were rated '**Good**'.
- **13%** of the audit points were **rated low** that were mostly observed in the peripheries of the city.



Parameter-wise Pin Distribution

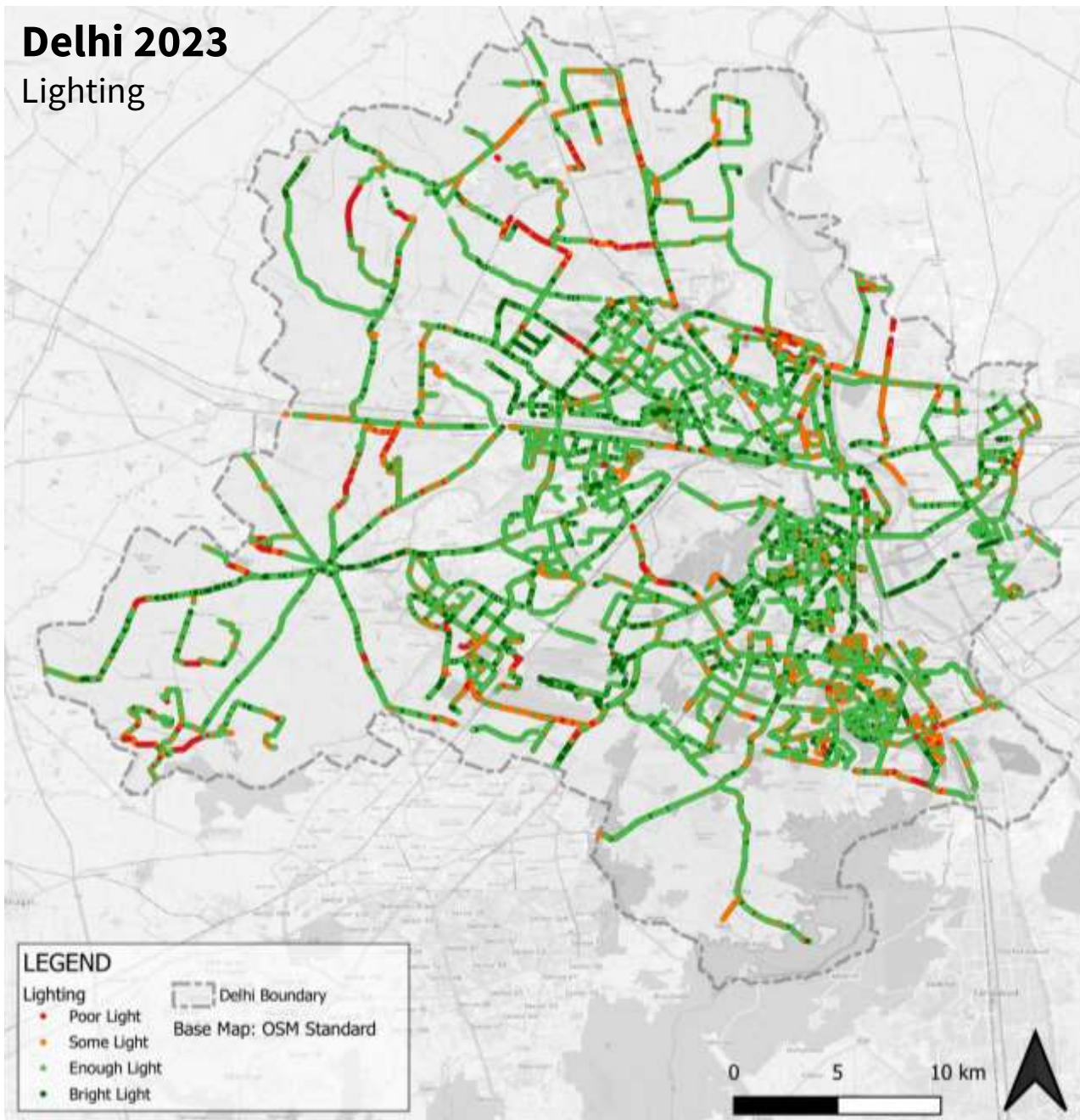


Most of the points were **rated high** for **Lighting, Walkpath** and **Public Transport**.

Visibility, People and **Gender Usage** parameters were **rated low** in most audits. This indicates that the presence of people, especially the participation of women and children in public spaces is influenced by the quality of built environment (natural surveillance through active streets).

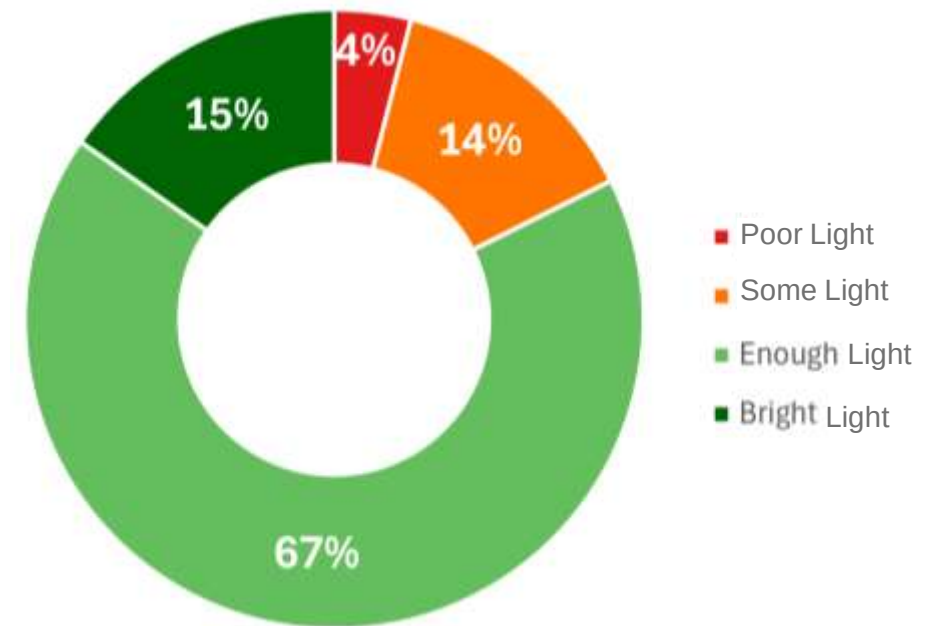
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Lighting



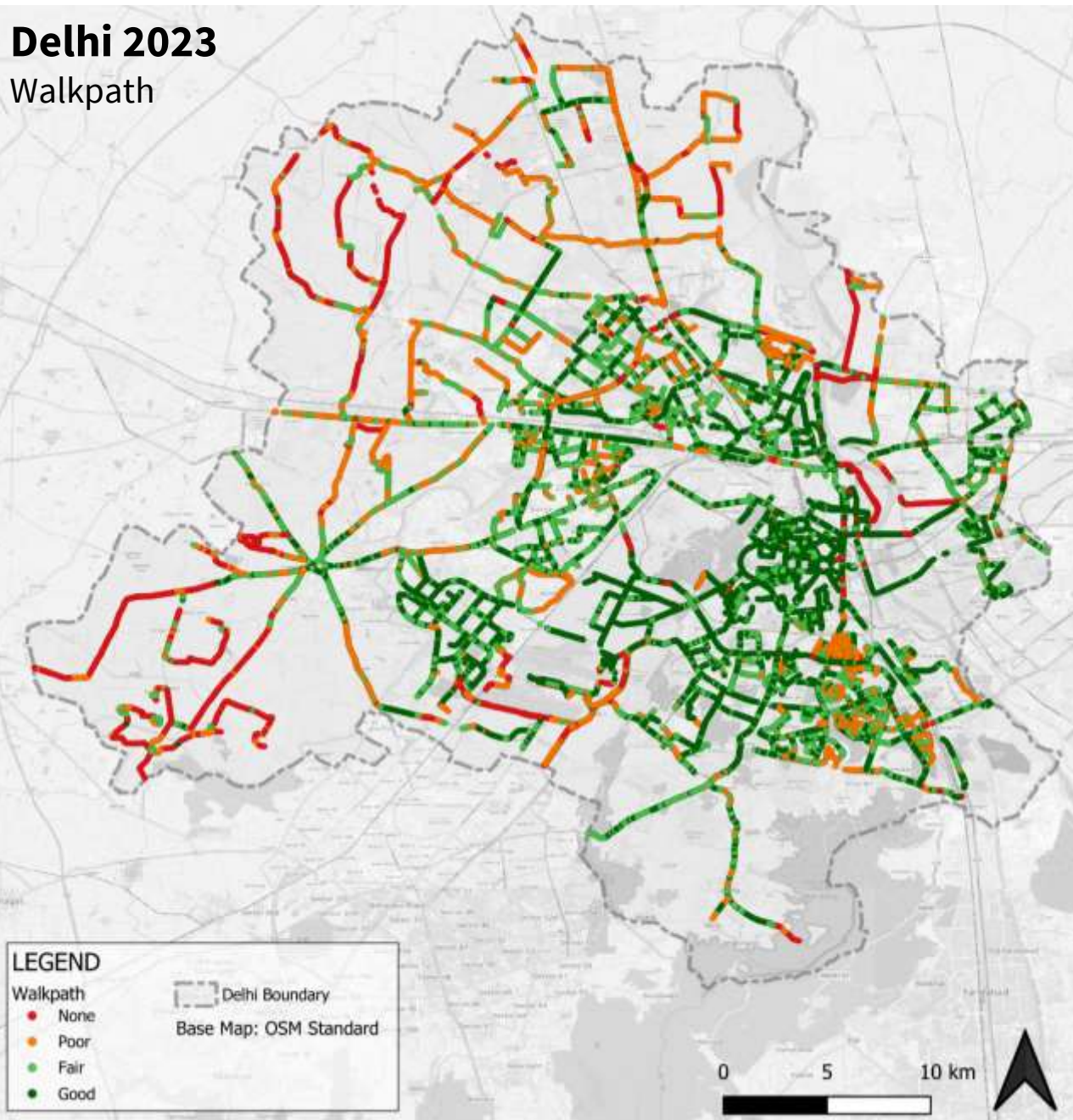
Lighting

- The Lighting parameter is rated **1.9/3** (i.e. Above Average)
- **82%** of the audit points were found to have good lighting.
- **18%** of the audit points were rated low, which is largely attributed to non-functional streetlights.



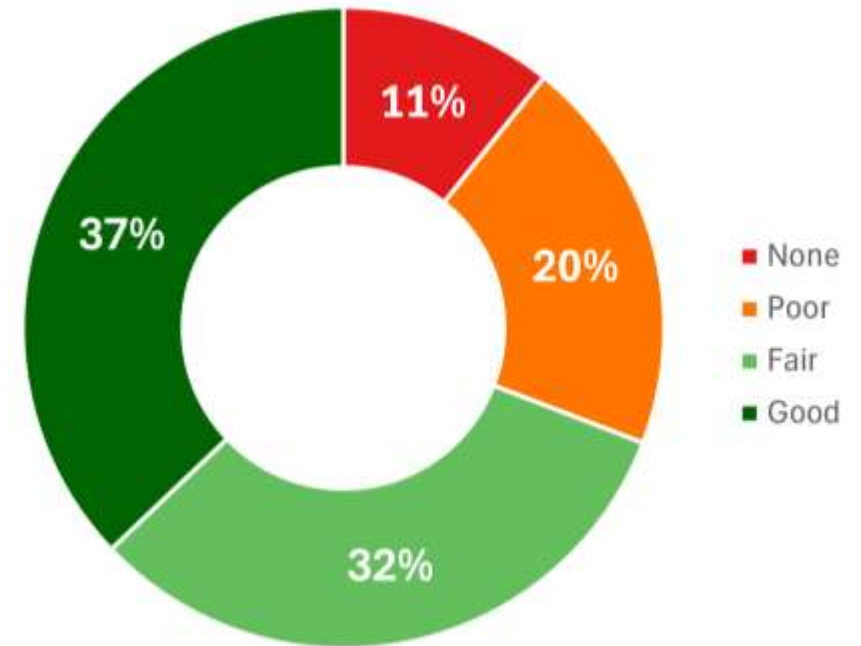
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Walkpath



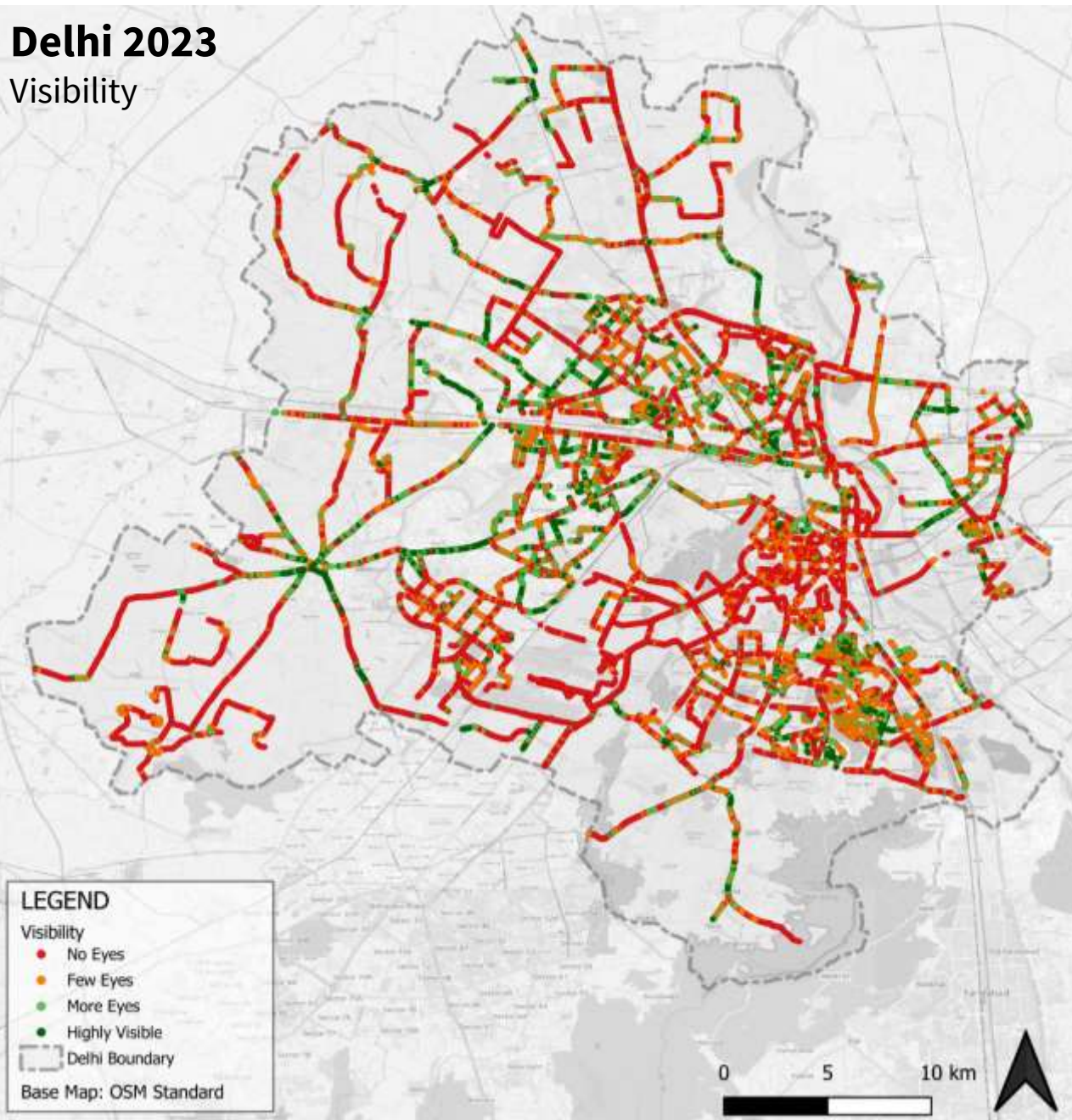
Walkpath

- The Walkpath parameter is rated **2.1/3** (i.e. **Above Average**)
- **69%** of the city was found conducive to walk.
- **31%** of the audit points were rated low, owing to vehicles and vendors blocking the walkpath.



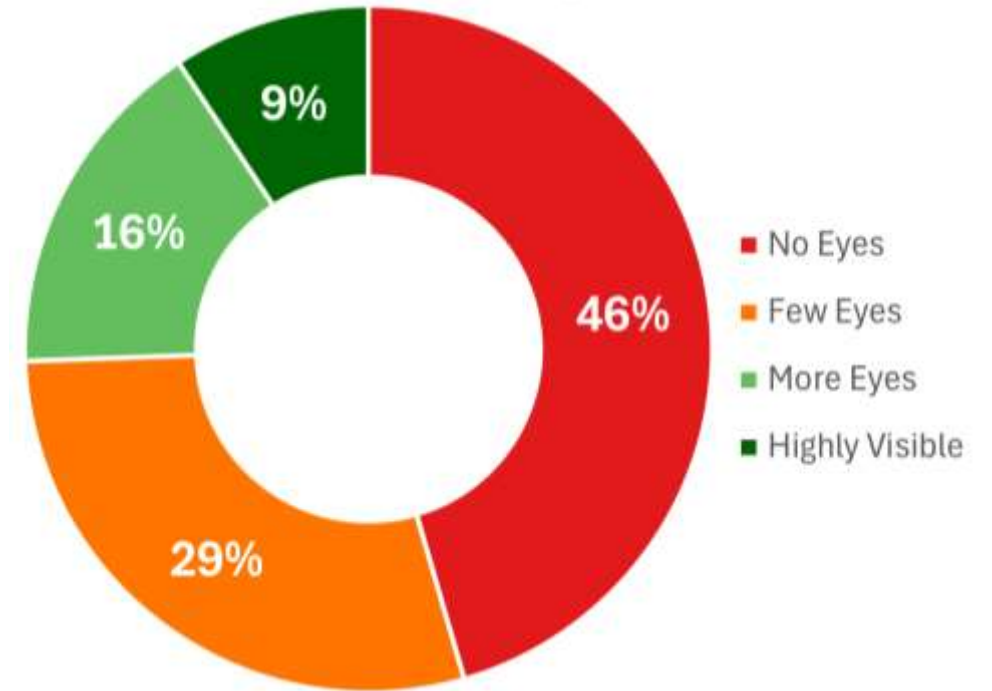
Delhi 2023

Visibility



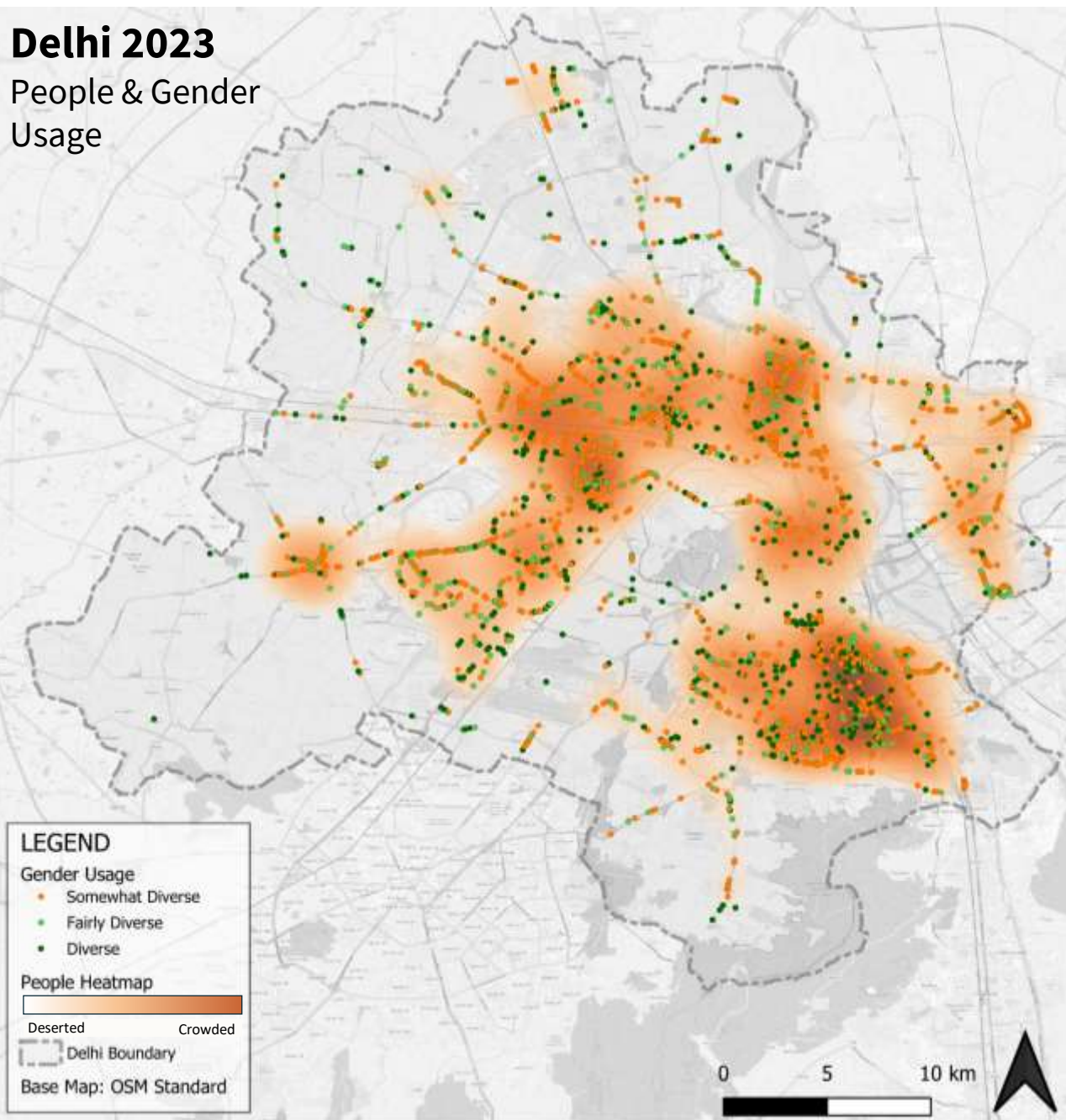
Visibility

- The Visibility parameter is rated **0.9/3** (i.e. **Below Average**)
- **46%** of the audit points have no eyes on the streets, indicating lack of street activities (i.e. absence of natural surveillance), leading to unsafe streets in the area.



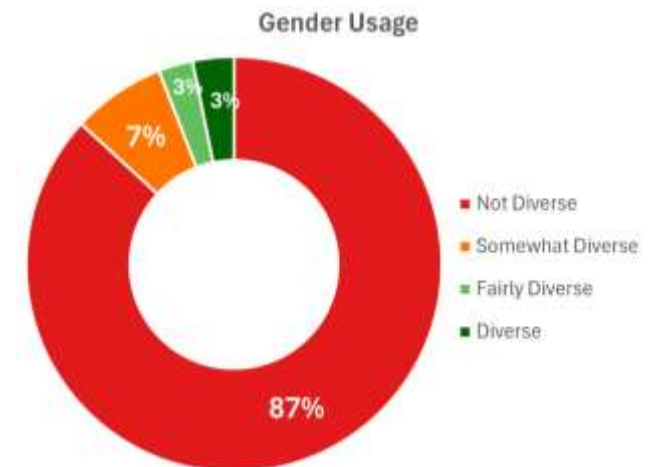
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People & Gender Usage



People & Gender Usage

- The People parameter is rated **1/3** (i.e. **Below Average**), while the Gender Usage parameter is rated **0.2/3** (i.e. **Poor**)
- **36%** of the city was found deserted, indicating absence of people on the street after sunset and at the same time **87%** of the city was found to be male dominated, indicating absence of women and children on the streets after sunset.

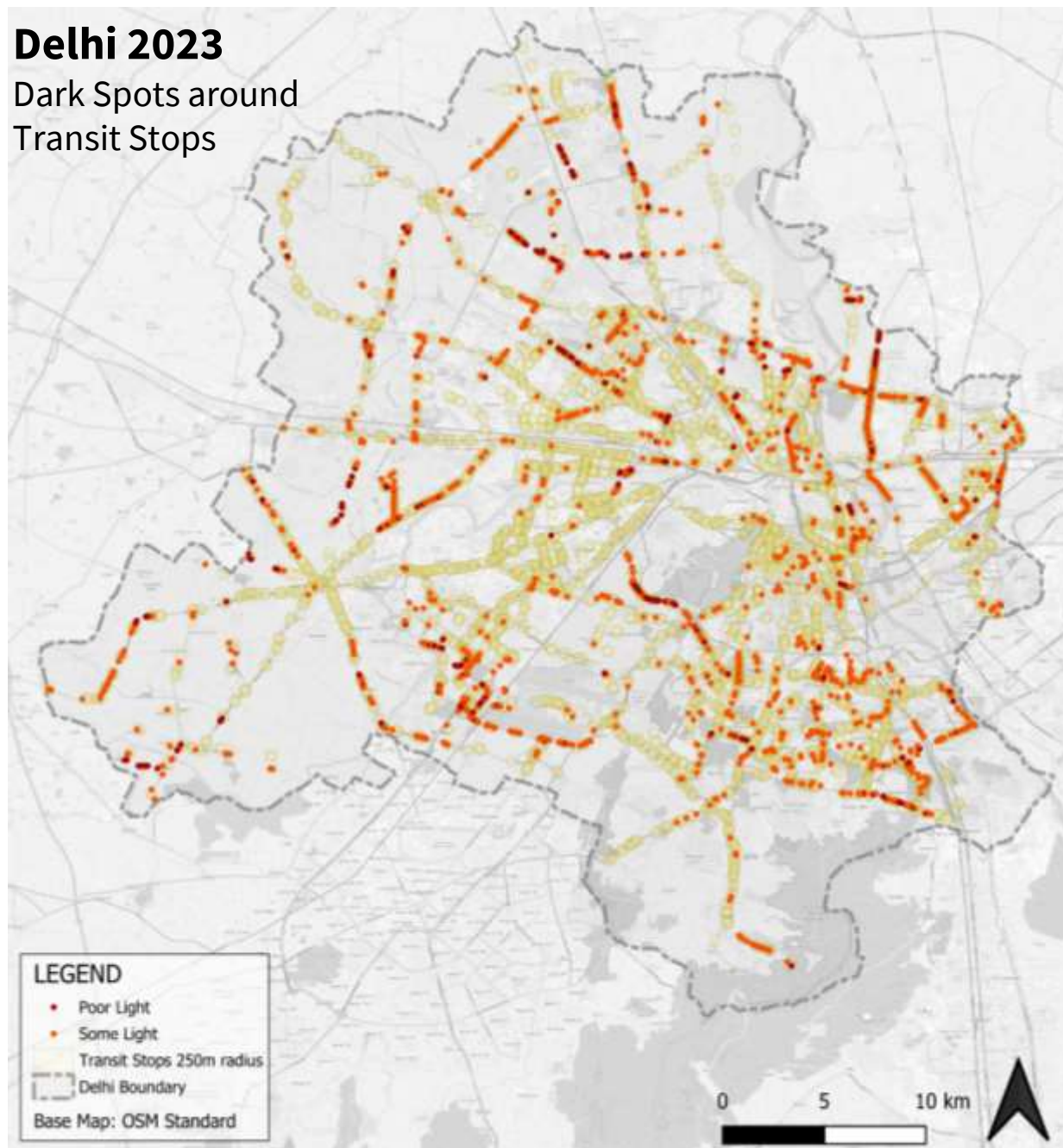




Safety around Public Transit Stops

Delhi 2023

Dark Spots around
Transit Stops



Lighting around Transit Stops

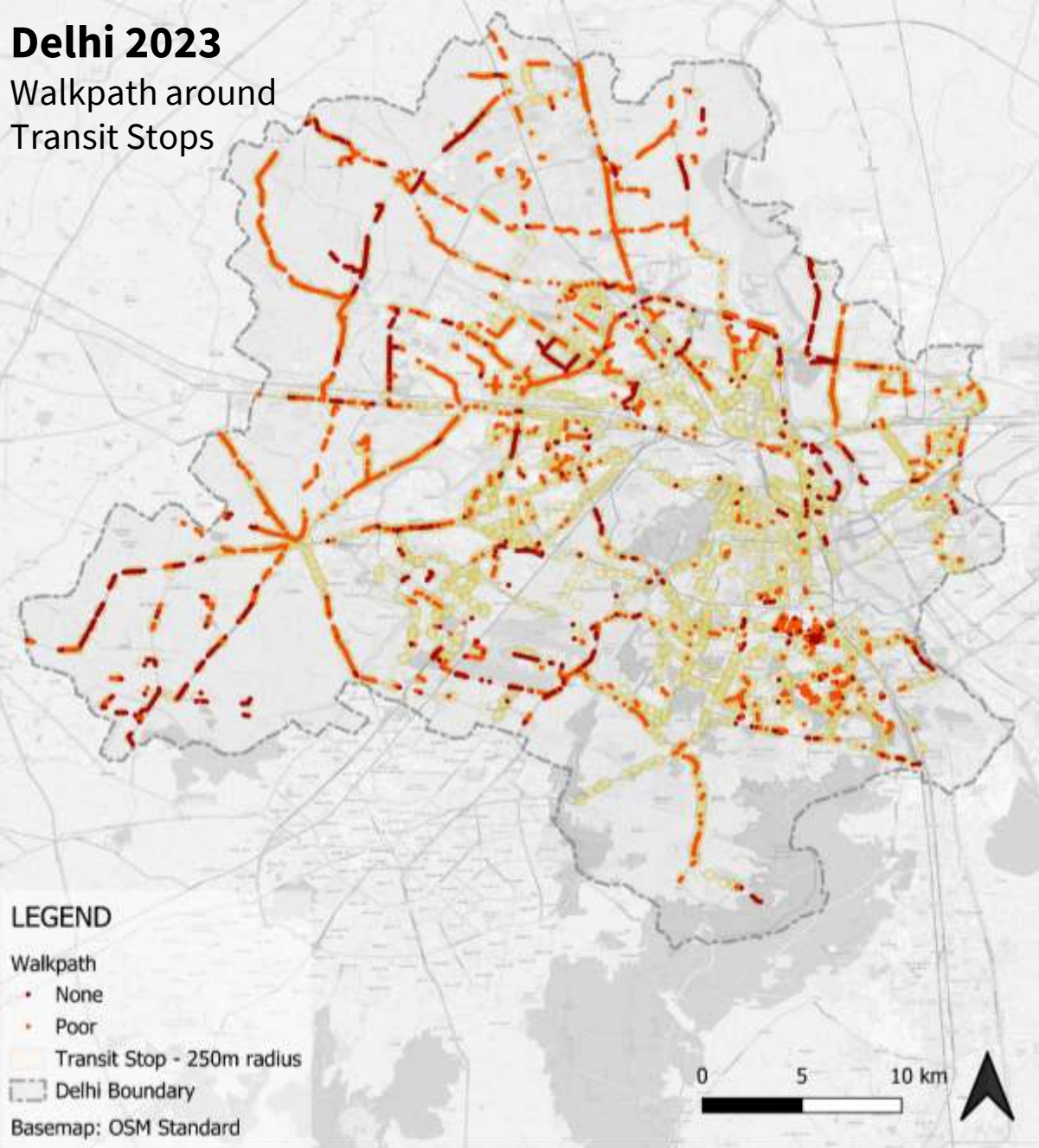
25% of the audited points around transit stops (250m radius) were identified as **poorly lit**.



Vishwavidyalaya Marg: poorly-lit bus stop

Delhi 2023

Walkpath around
Transit Stops



Walkpath around Transit Stops

60% of the audited points around transit stops (250m radius) were found to have either **no walkpath** or **poor walkpath**.



***Mehrauli Badarpur Road:** poor walkpath
near a bus stop*

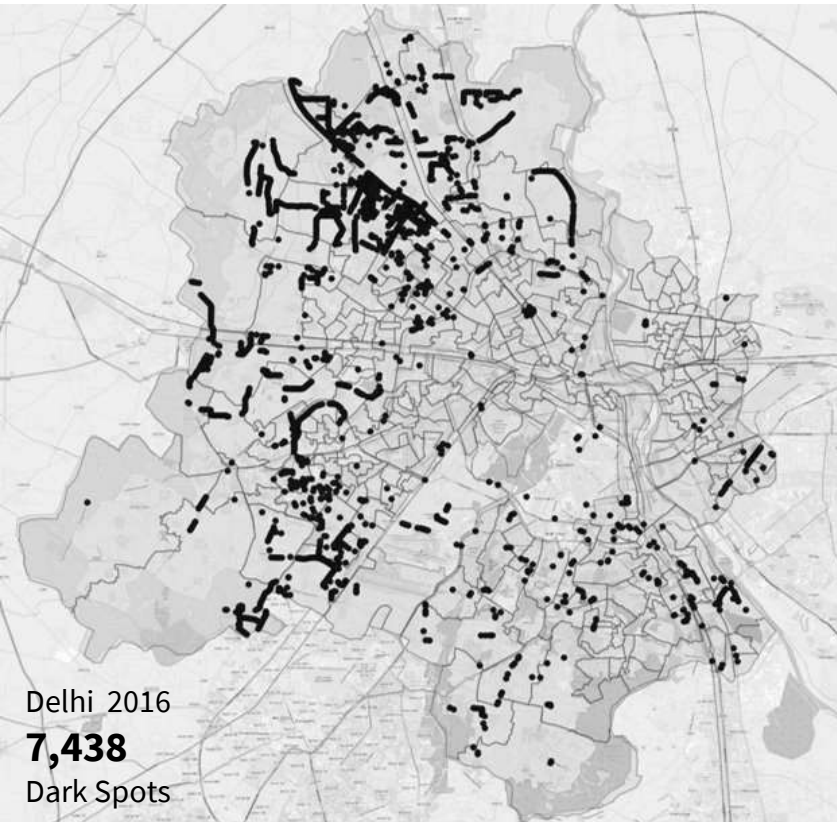
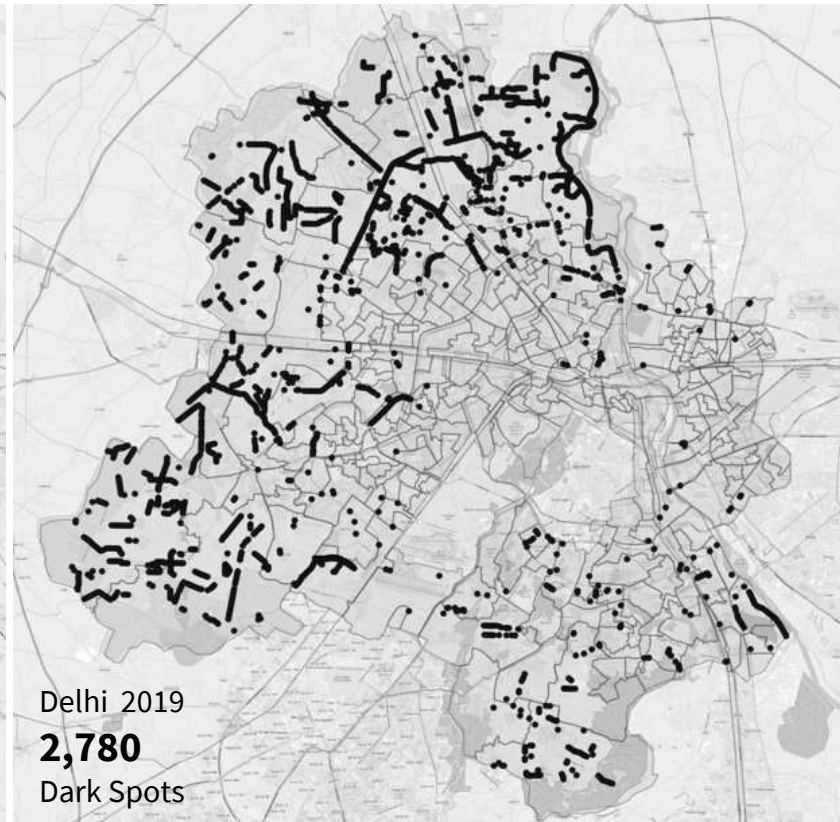
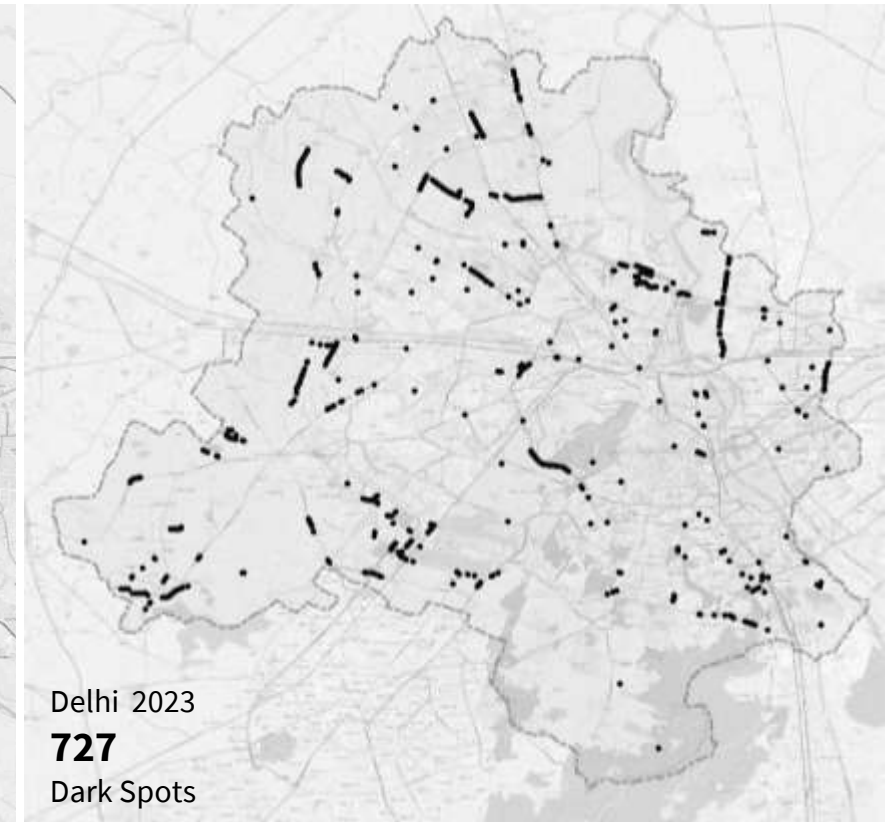


Mapping Delhi over the years

(2016 - 2019 - 2023)

Mapping Delhi over the years | Lighting

Over the years, the dark spots reduced by **60%** in 2019 from the baseline and subsequently by **26%** in 2023



Mapping Delhi over the years | Lighting

At Shah Alam Bandh Marg



2016 – street with non-functional streetlights



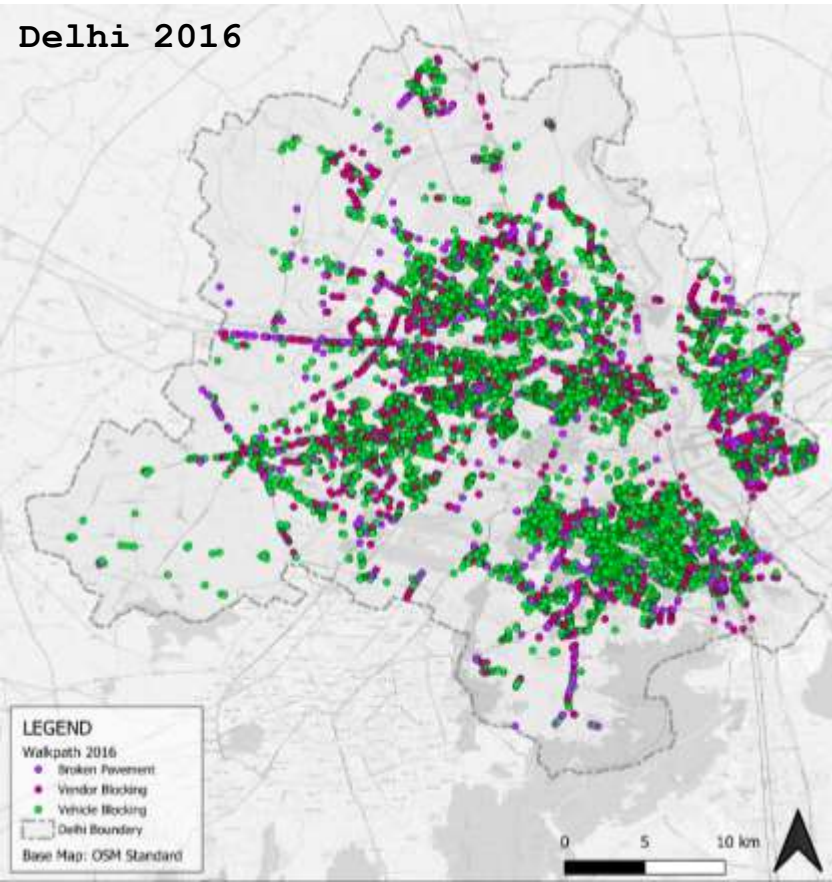
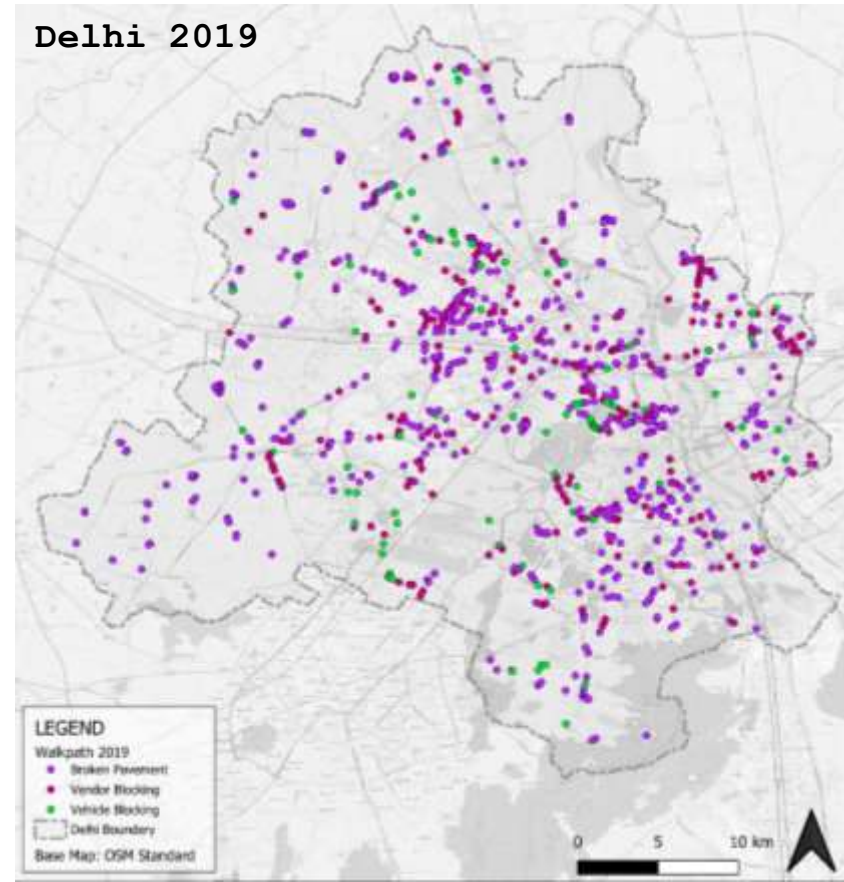
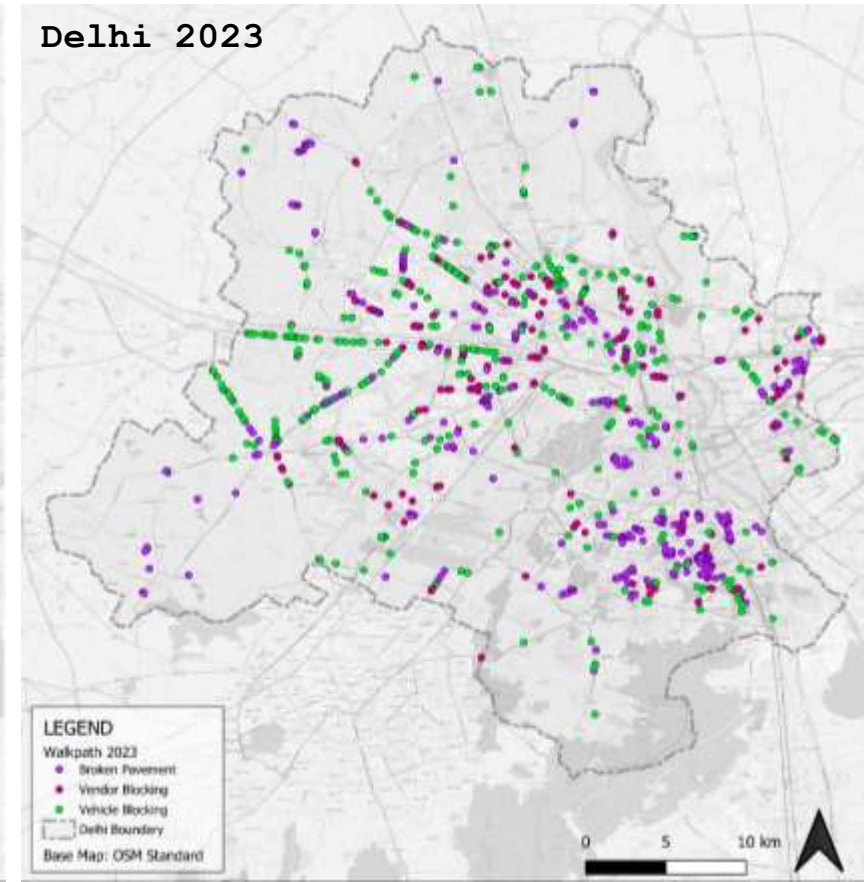
2019 – street with non-functional streetlights



2023 – well-lit street

Mapping Delhi over the years | Walkpath

Over the years, **Broken Pavements**, **Vendor and Vehicle Blocking** have remained barriers to conducive walking in the city.



Obstructions on Walkpath



Vasant Kunj(2023): broken pavements



Hauz Khas Market(2023): vehicles blocking the walkpath

Recommendations



- Ensure **periodic maintenance of streetlights** to enhance women's perception of safety at night.
- Provide **pedestrian streetlights** such that it benefits pedestrians on the walkpath for improved visibility and safety at night.
- **Ensure that the transit areas are well-lit** to provide comfort and safety, especially for women.



- Ensure **footpath is clear of all obstructions** including vehicular parking and unauthorized vending to improve pedestrian access.
- Undertake **periodic maintenance of footpath with better enforcement**.
- **Provide street furniture such as benches** public places to facilitate women to socialize.



- **Encourage curb-side businesses** (vendors/ shops) that increase footfall and thereby improve women's perception of safety in public spaces.

Safety with Simplicity.
I no longer need to worry
about late night commute
with Safetipin.
(Priyanka Kulkarni,
User)

A handy tool for safer
routes especially for
women.
(Host Cryce, User)

THANK YOU !



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