# Using Technology to Making Cities Safer: *The Case of Safetipin*

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Safetipin

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What is Safetipin

Safetipin is a map-based online and mobile phone application that works to make our communities and cities safer by collecting and disseminating safety-related information on a large scale through crowd sourcing and other methods.
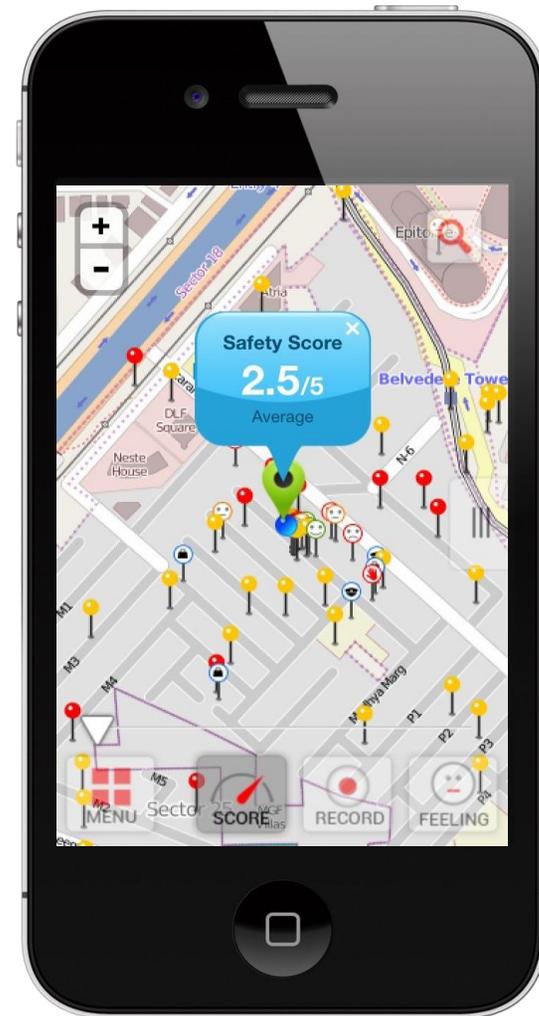
The Safety Audit

Key feature of Safetipin

What is a safety audit

☐ Based on global experience of 20 years of safety audits

☐ 8 important parameters that define safety perception

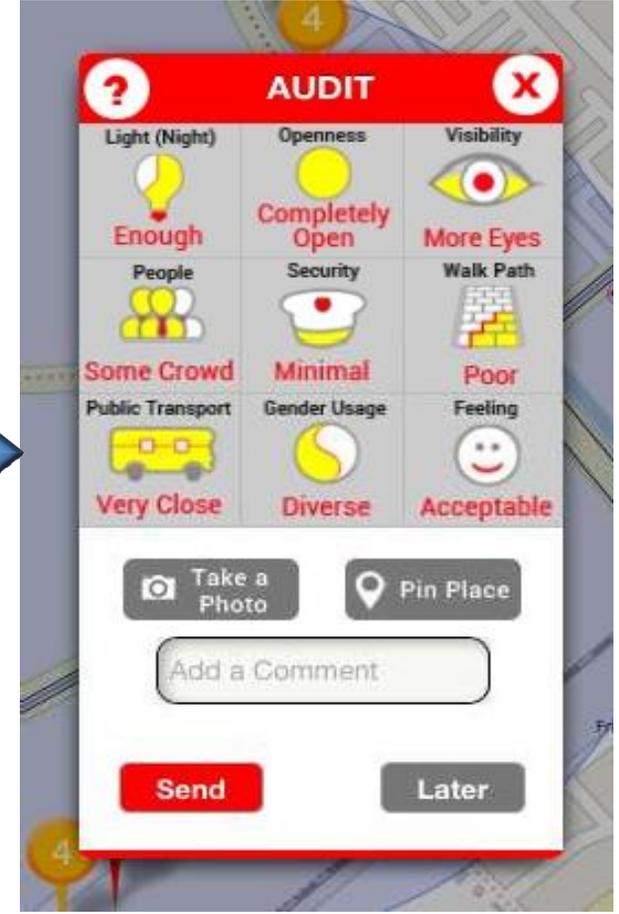| Lighting	Openness
Transport	Visibility
Crowd	Gendered Usage
Walk Path	Security

Includes a parameter 'Feeling' in addition
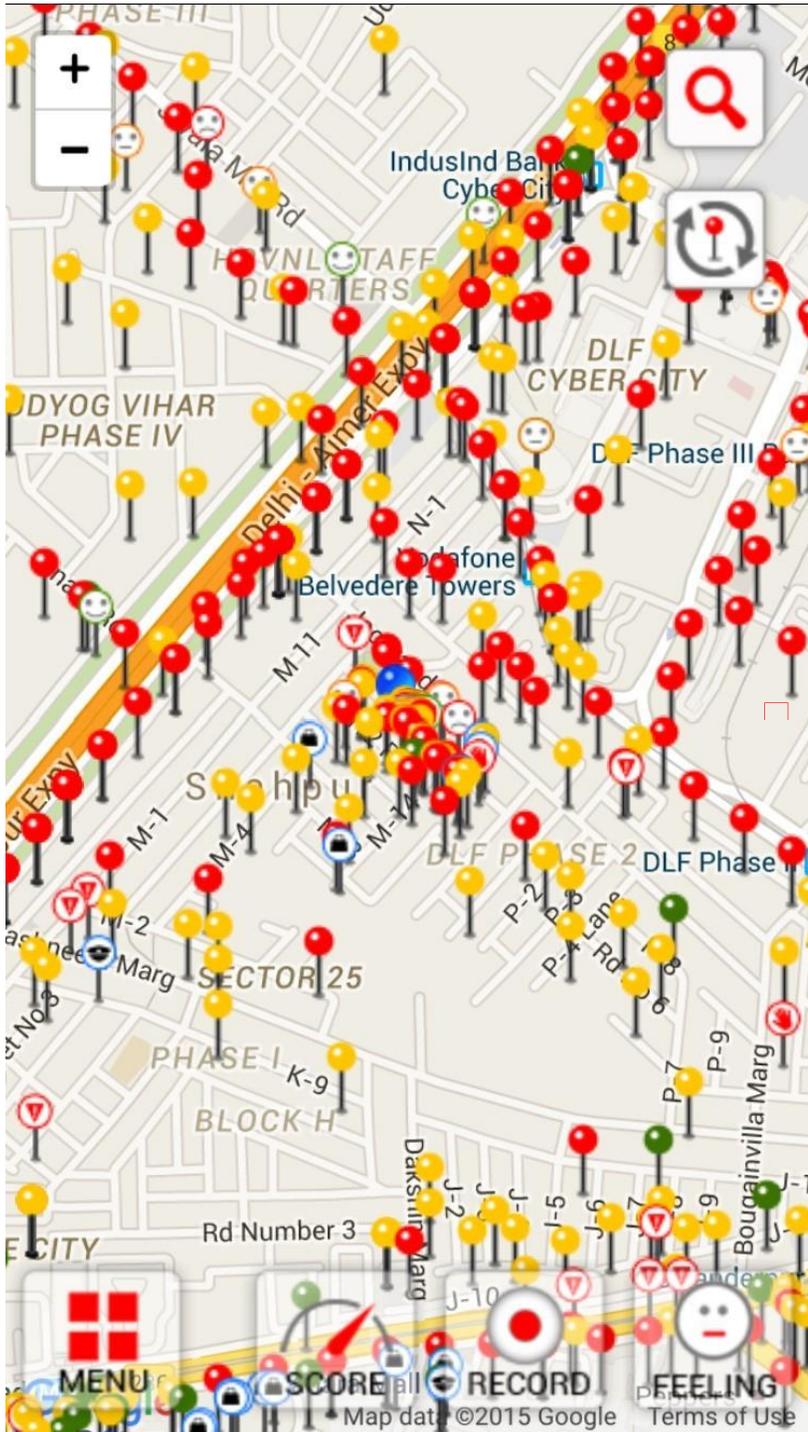
SAFETIPIN
Supporting Safer Cities

Features

- Set of 3 apps
- Conduct safety audits and record other information
- Crowdsourced data
- Gives Safety Score
- More than 50,000 downloads

SAFETIP N
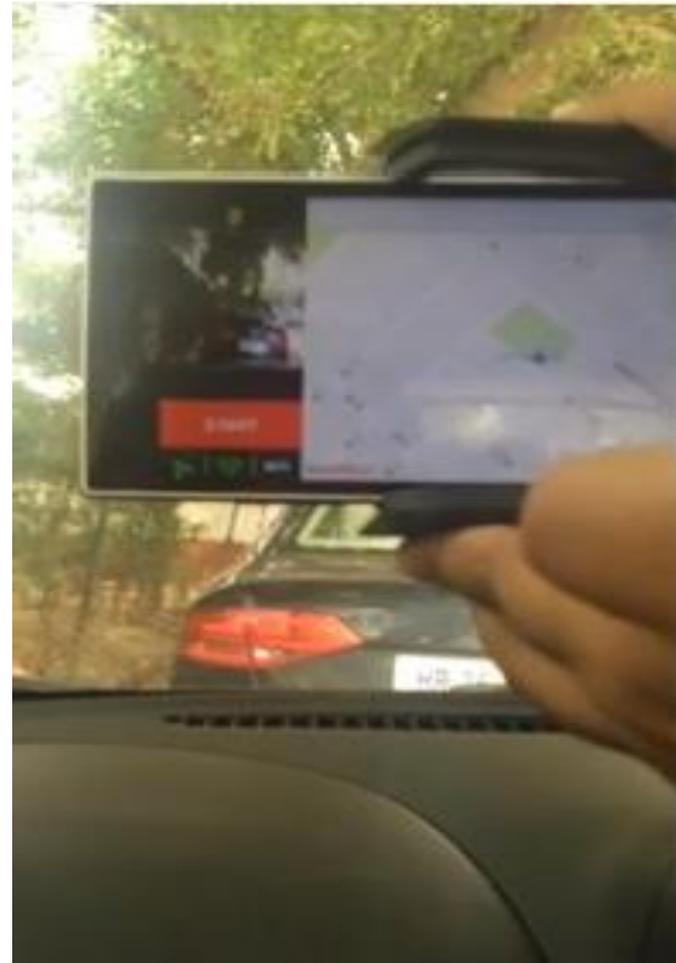Supporting Safer Cities
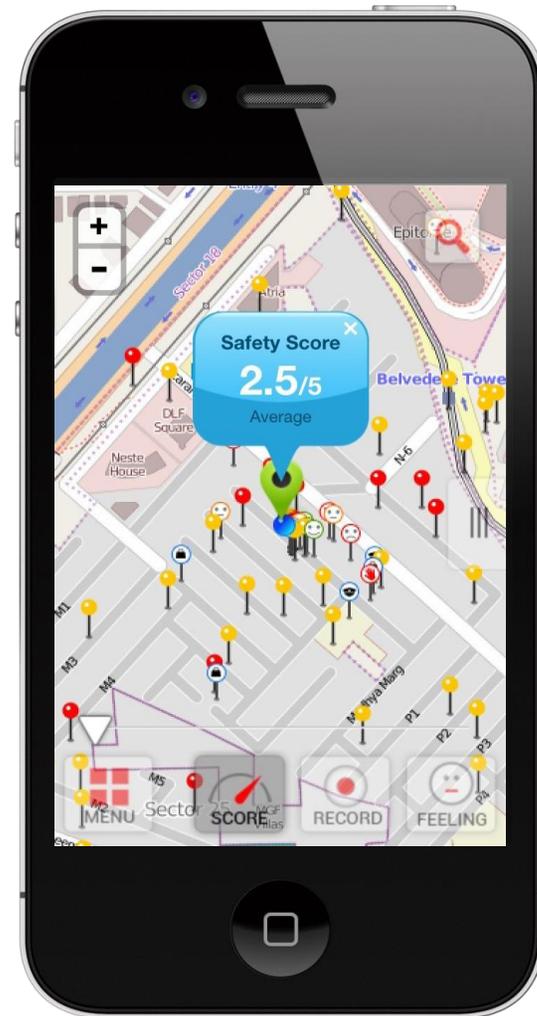
Doing Audits

Each audit will appear as a pin on the Safetipin app

Each point gets uploaded immediately and is then available for anyone to see.

The red pins signify unsafe points, orange a bit safer and green pins would be relatively safe points.

Safetipin Nite

Phone with Safetipin Nite app attached to moving vehicles capturing pictures
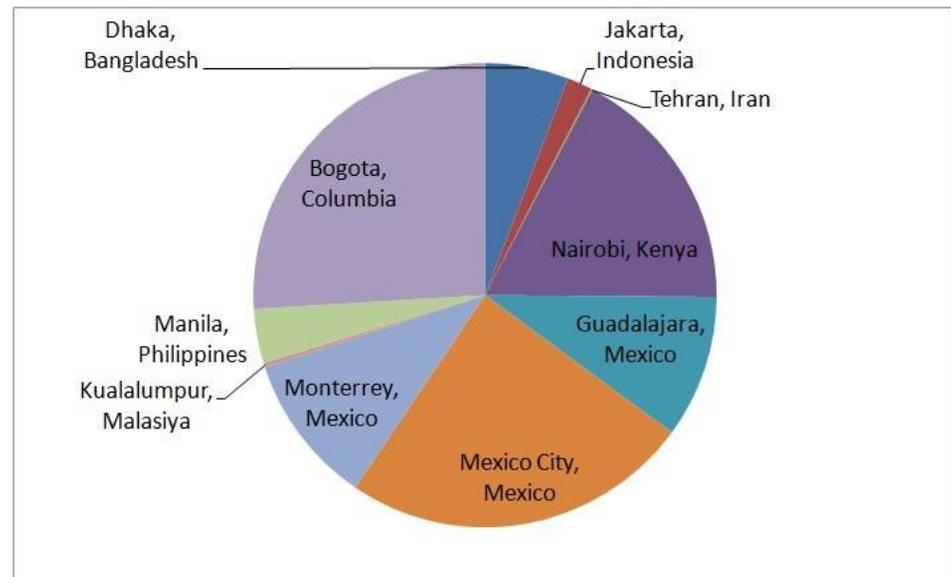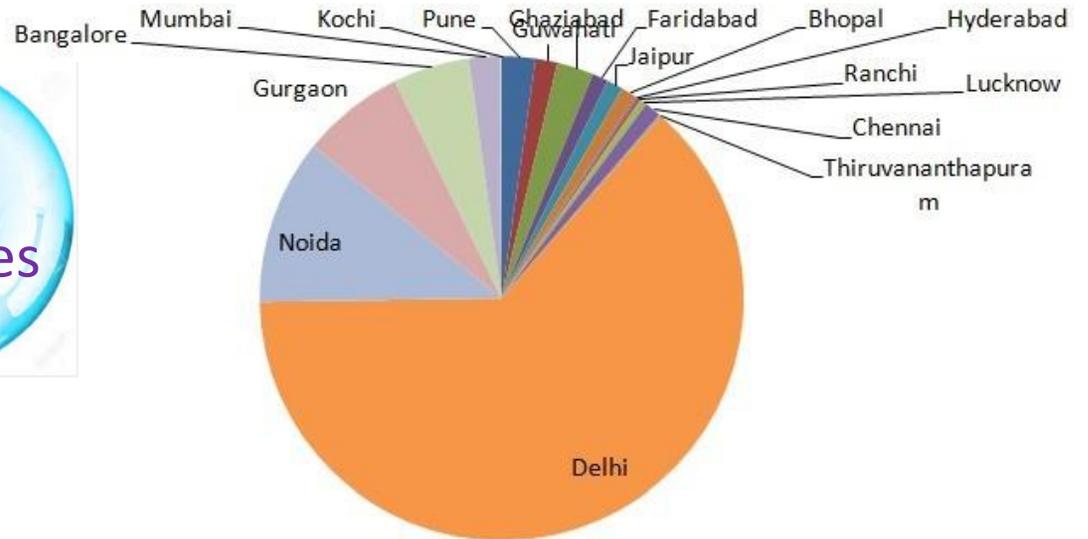
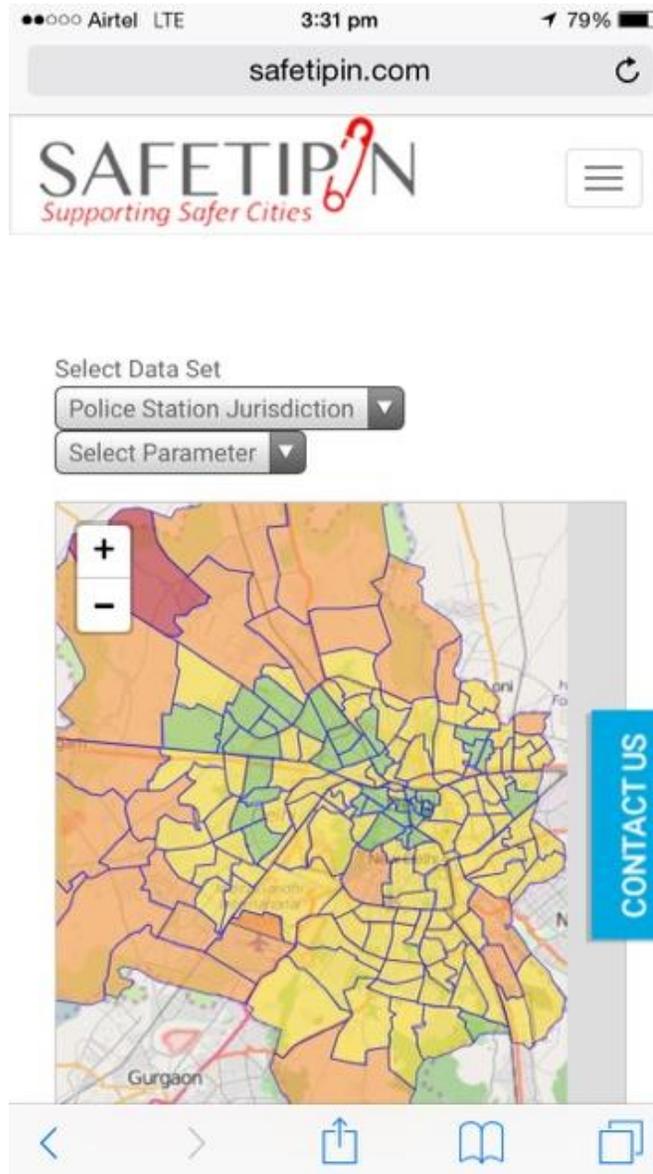# Safetipin Data Collection across the World

910,000 pictures

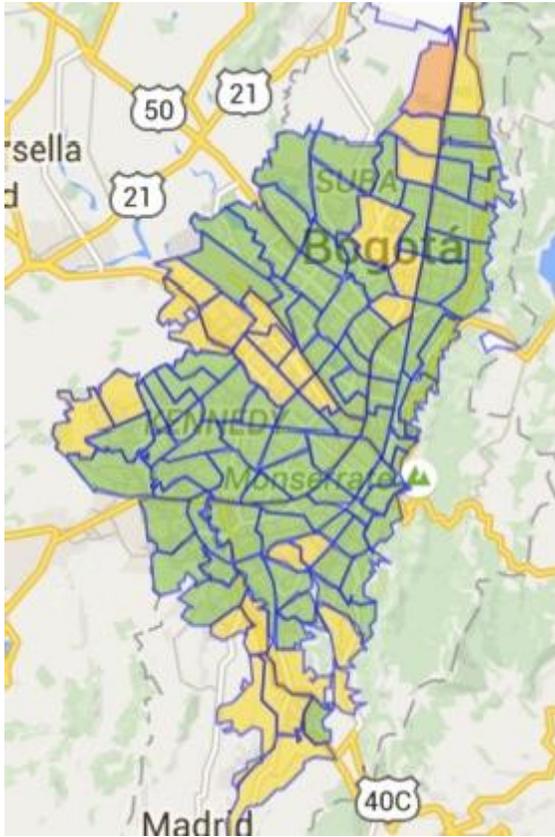8 Countries

100,000 Audit pins

11,000 Kms of road

27 cities

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Bangalore — Mumbai — Kochi — Pune — Ghaziabad — Faridabad — Bhopal — Hyderabad
Gurgaon — Guwahati — Jaipur — Ranchi — Lucknow
Chennai
Thiruvananthapuram
Noida
Delhi

Dhaka, Bangladesh — Jakarta, Indonesia — Tehran, Iran
Bogota, Columbia — Nairobi, Kenya
Manila, Philippines — Guadalajara, Mexico
Kualalumpur, Malasiya — Monterrey, Mexico — Mexico City, Mexico

Safetipin Map

City Comparison

Bogota, Colombia

New Delhi, India

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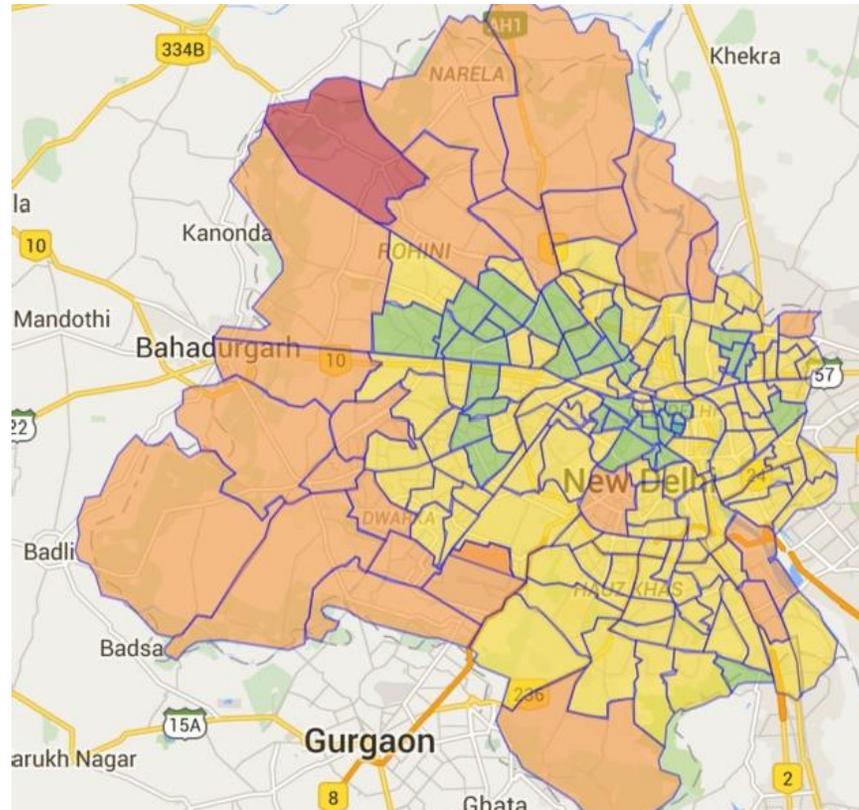
Delhi Dark Spots

70,934 AUDIT PINS

6,748

25,410

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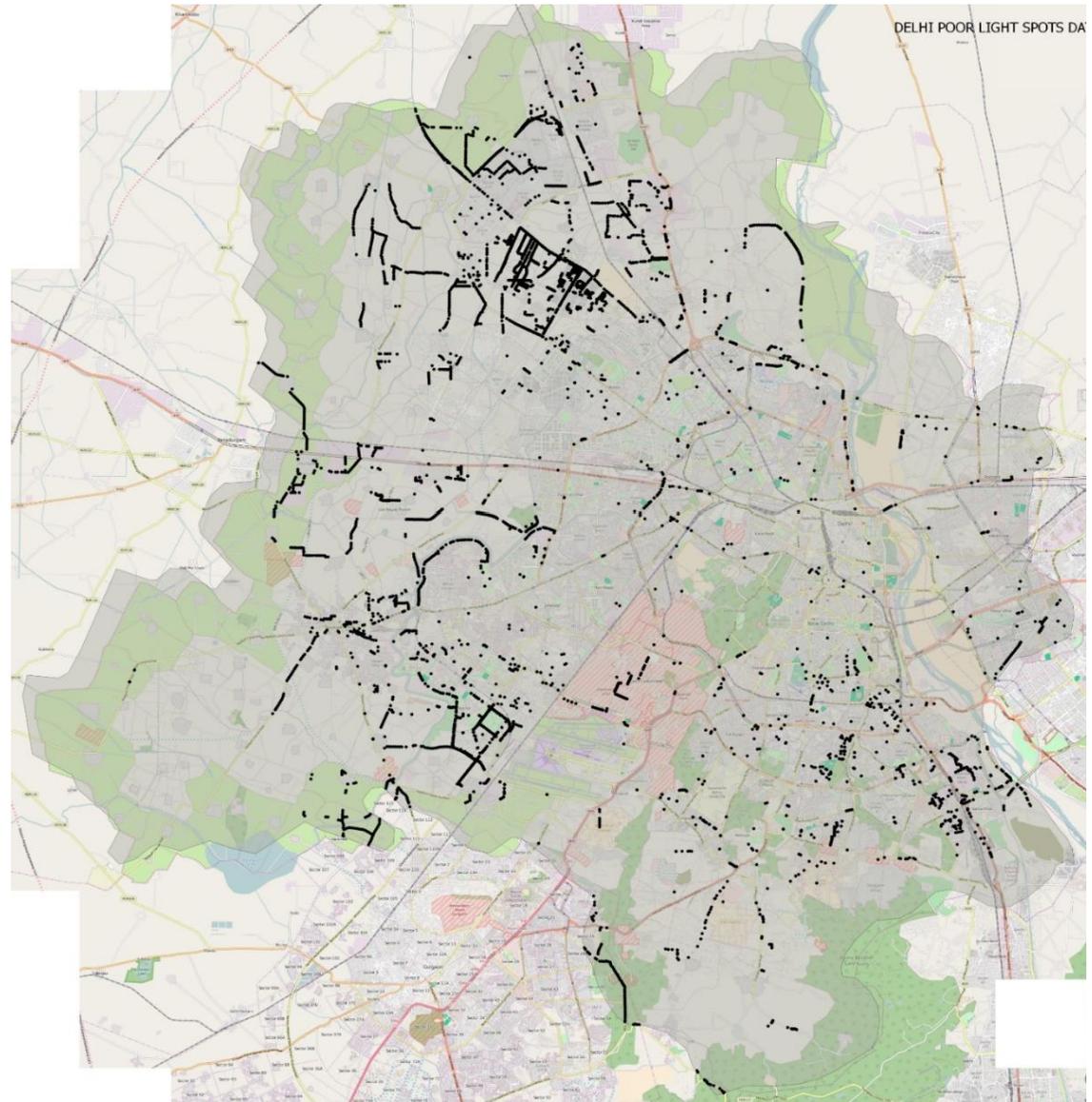
Streetlight Data in Delhi
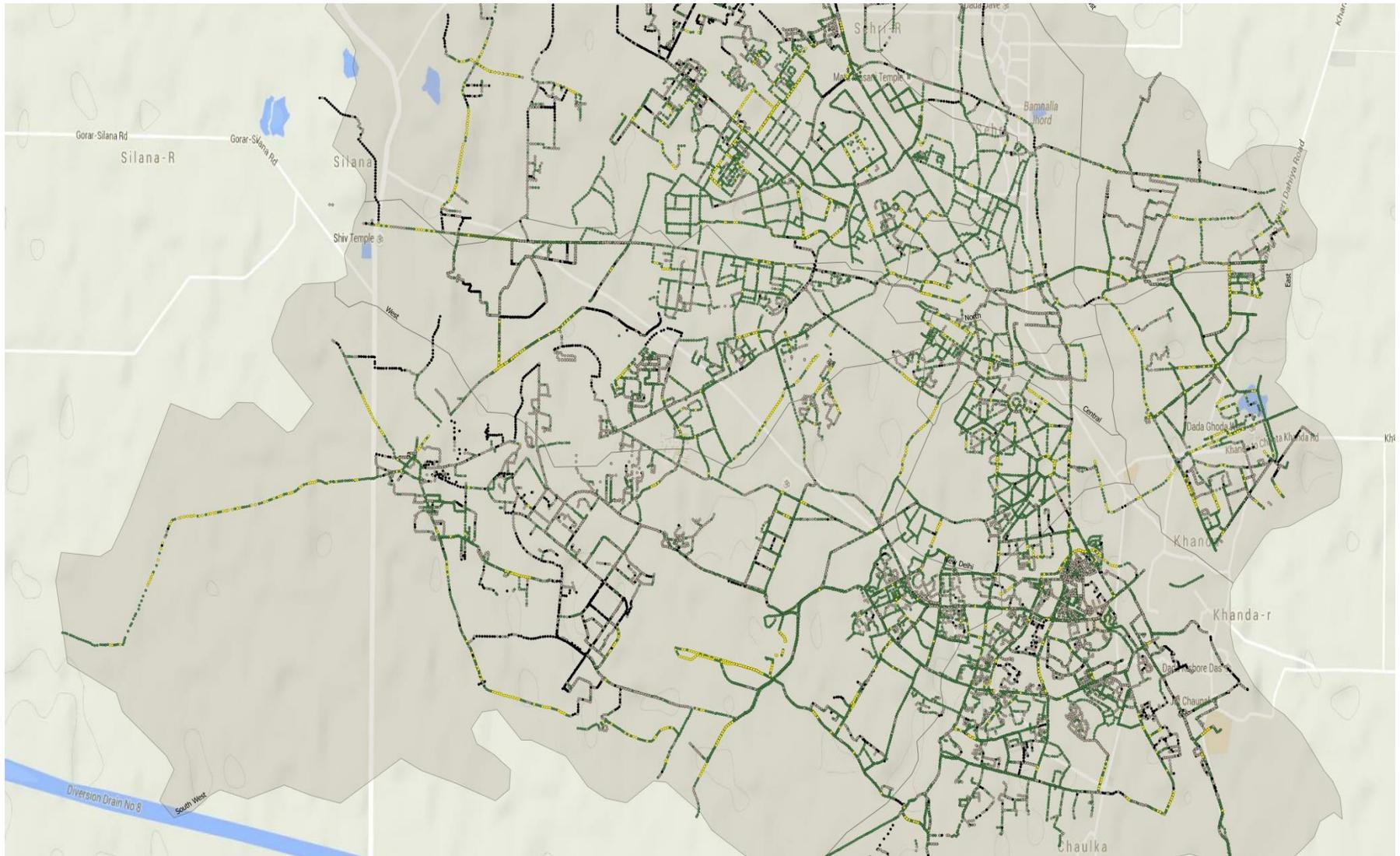
Working with Delhi Police

CENTRAL DELHI

Legend

district wise audits
- ● High
- ● Moderate
- ● Minimal
- ● None
- ▢ Districts [1]
OpenStreetMap

0   1000   2000   3000   4000 m

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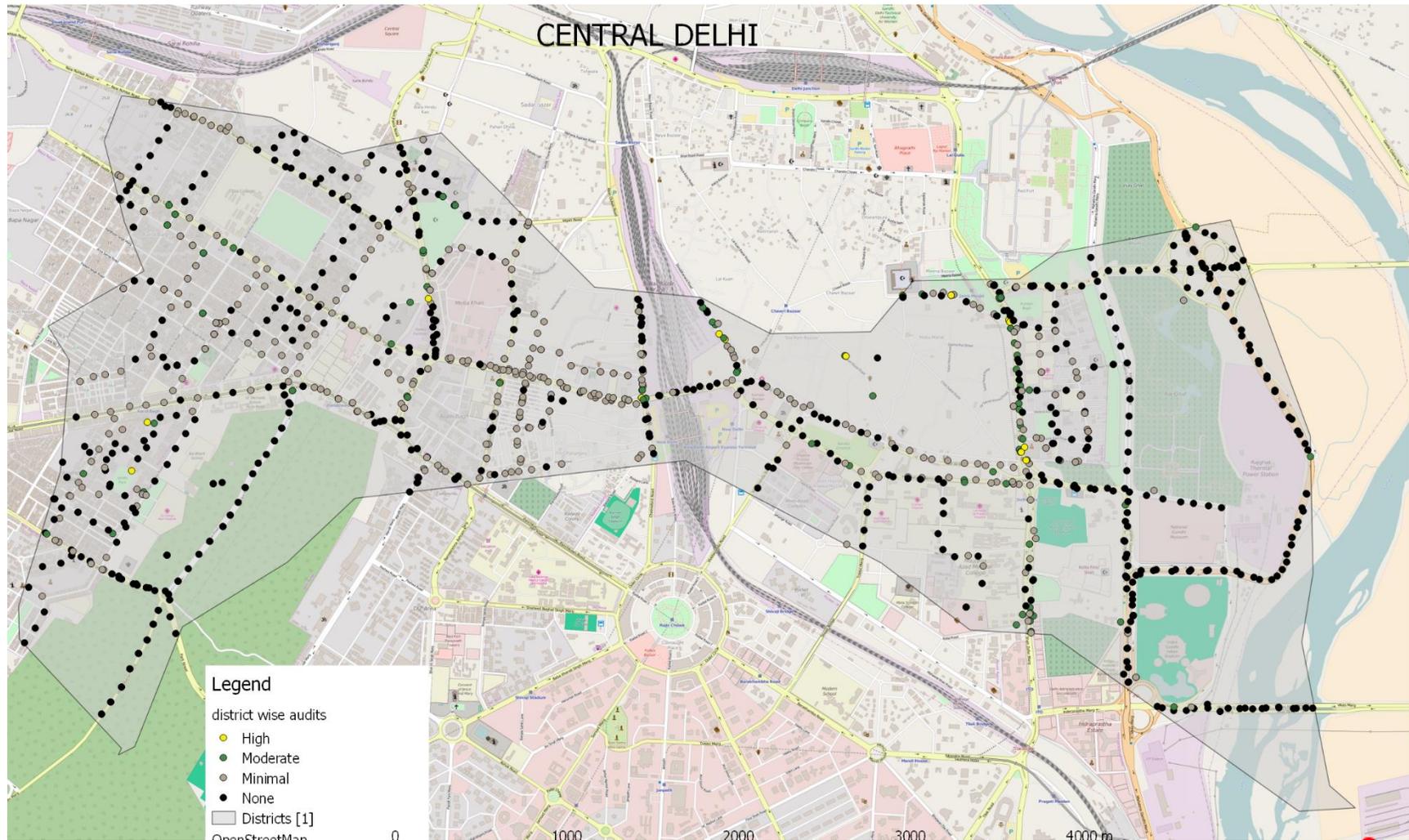
METRO STATIONS

17 METRO STATIONS

☐ Visibility
☐ Security
☐ Lack of Para-transit facilities.
☐ Lighting

KASHMERE GATE – 3.1/5
NEW DELHI – 3.1/5
RAJIV CHOWK – 3.2/5
CENTRAL SECRETARIAT – 3.3/5
INA – 2.3/5
AIIMS – 2.6/5
HAUZ KHAS – 2.9/5
MALVIYA NAGAR – 3.1/5
SAKET – 3.1/5
CHATTARPUR – 2.4/5
M.G. ROAD – 2.6/5
SIKANDERPUR – 1.9/5
IFFCO CHOWK – 1.5/5
HUDA CITY CENTRE – 1.7/5

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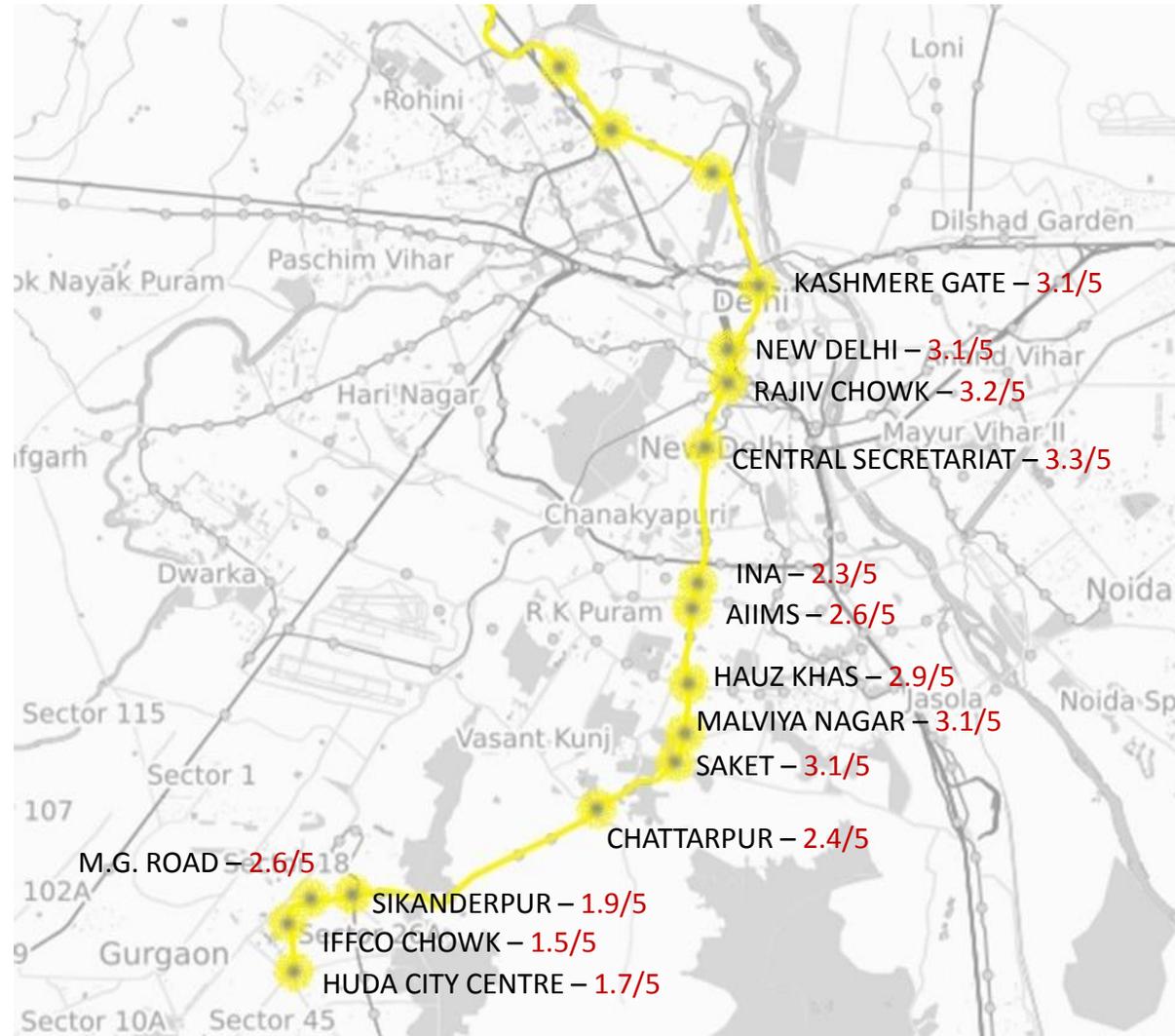
BUS STOPS

275
BUS STOPS

20%   45%   35%

40% had Poor
Lighting

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Constituency Reports

Lighting

Openness

Visibility

Security
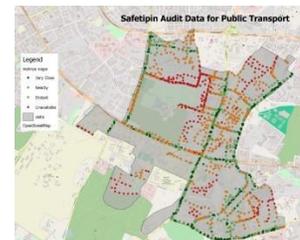
Walk Path

Public Transport

Constituency Safety Report

Malviya Nagar

Safety Rank: **29**/72

Safety Score: **2.8**/5

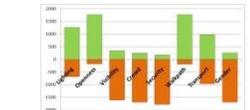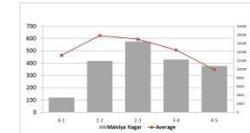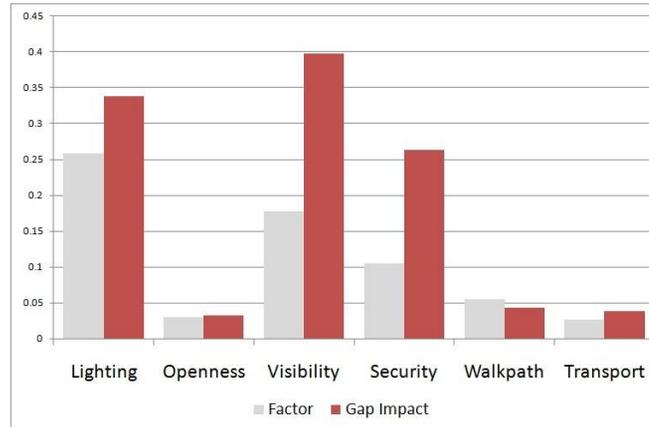Delhi Safety Score: 2.45/5 (Fair)

Constituency Name: **MALVIYA NAGAR**
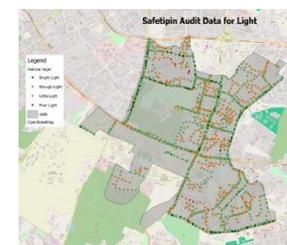Constituency Number: **43**
Area: **13.32 sq. kms.**

Produced by

SAFETIPIN
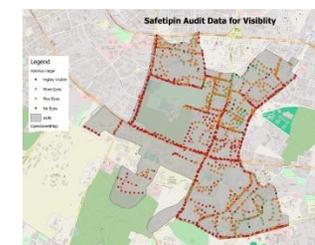Supporting Safer Cities

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Creating Partnerships

- Government departments like Public Works Department, Transport Department,

- New Delhi Municipal Council

- Police

- Urban Planners

- Transport Planners

- NGO's

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Open Street Audit Mapping

- Displaying the Safety Audit Map in a Public Place like Local Market, Park, or Courtyard of a College.
- Increased access to safety information even for non-smartphone users.
- Working with the Community for identifying issues, auditing and preparing a Community Action Plan.

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Impact Project: Low Income Neighborhood

KEY INSIGHTS
STREETLIGHT

Most streets and public places are not well lit. Poor maintenance of streets lights is seen as a key reason for no light in most spaces.
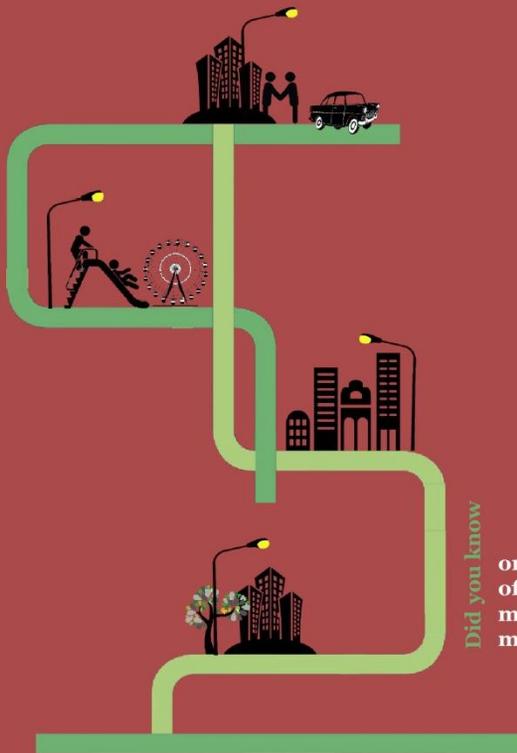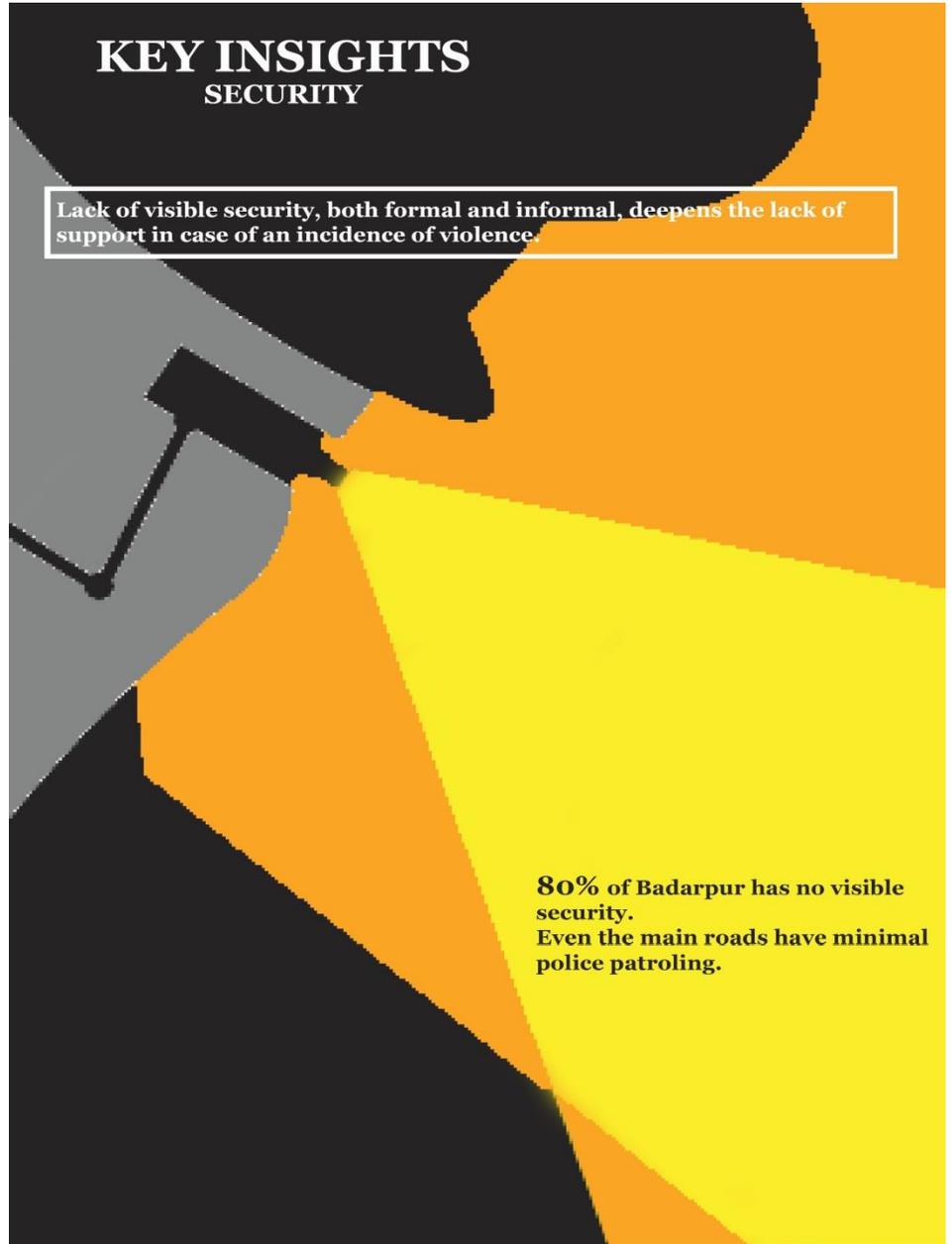
Did you know

only **43%** of Badarpur is lit; mostly near the main road.

KEY INSIGHTS
SECURITY

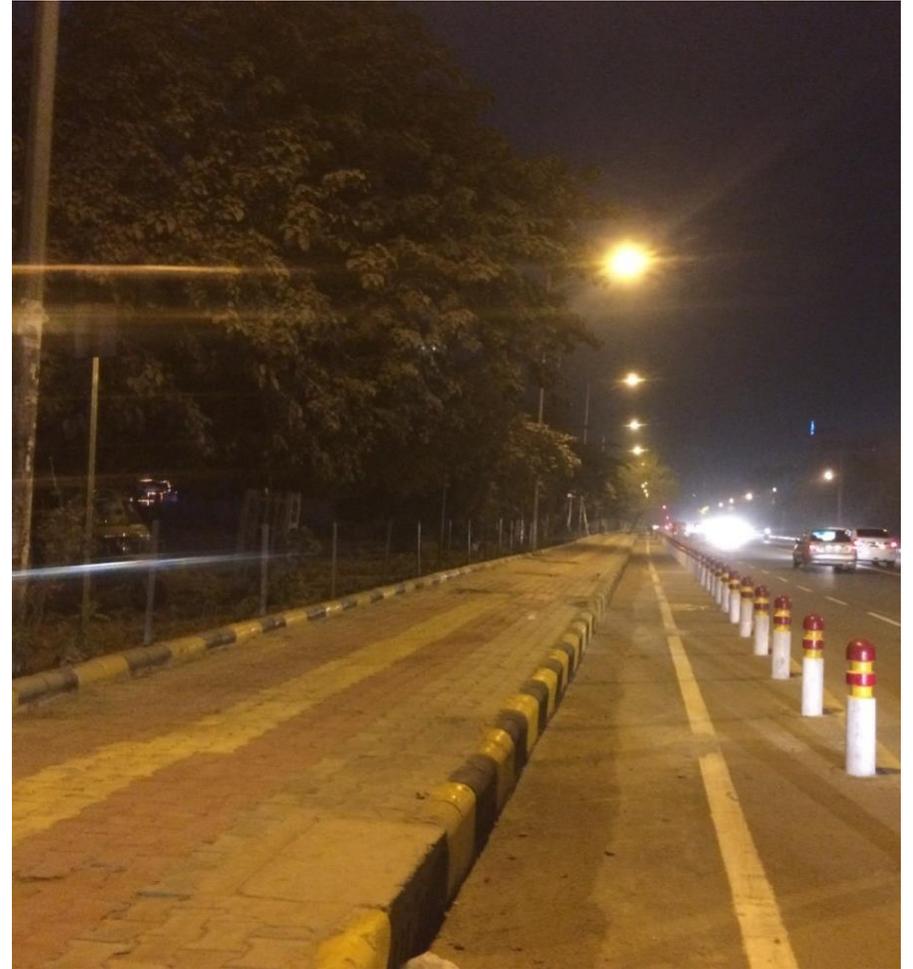Lack of visible security, both formal and informal, deepens the lack of support in case of an incidence of violence.

80% of Badarpur has no visible security.
Even the main roads have minimal police patroling.

Street Improvement in Gurgaon

BEFORE

AFTER

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Postcards on Metro audits

- ★ See safety information of a locality before visiting
- ★ Allow your friends or family to track you if you are feeling unsafe
- ★ Find nearby Medical facilities, police stations and local transport
- ★ Contact service providers if you need help
- ★ Alert your friends and family if you are in an emergency

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www.safetipin.com

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How safe are Gurgaon Metro Stations *(on a scale of 100)*

61 Micromax Moulsari Avenue
58 Gateway Towers
74 DLF Phase III
57 Vodafone Belvedere Towers
57 DLF Phase II
Guru Dronacharya
62
IFFCO Chowk
70
73 MG Road
71 Sikanderpur
72 HUDA City Centre

Safety Scores in Quezon City, Philippines
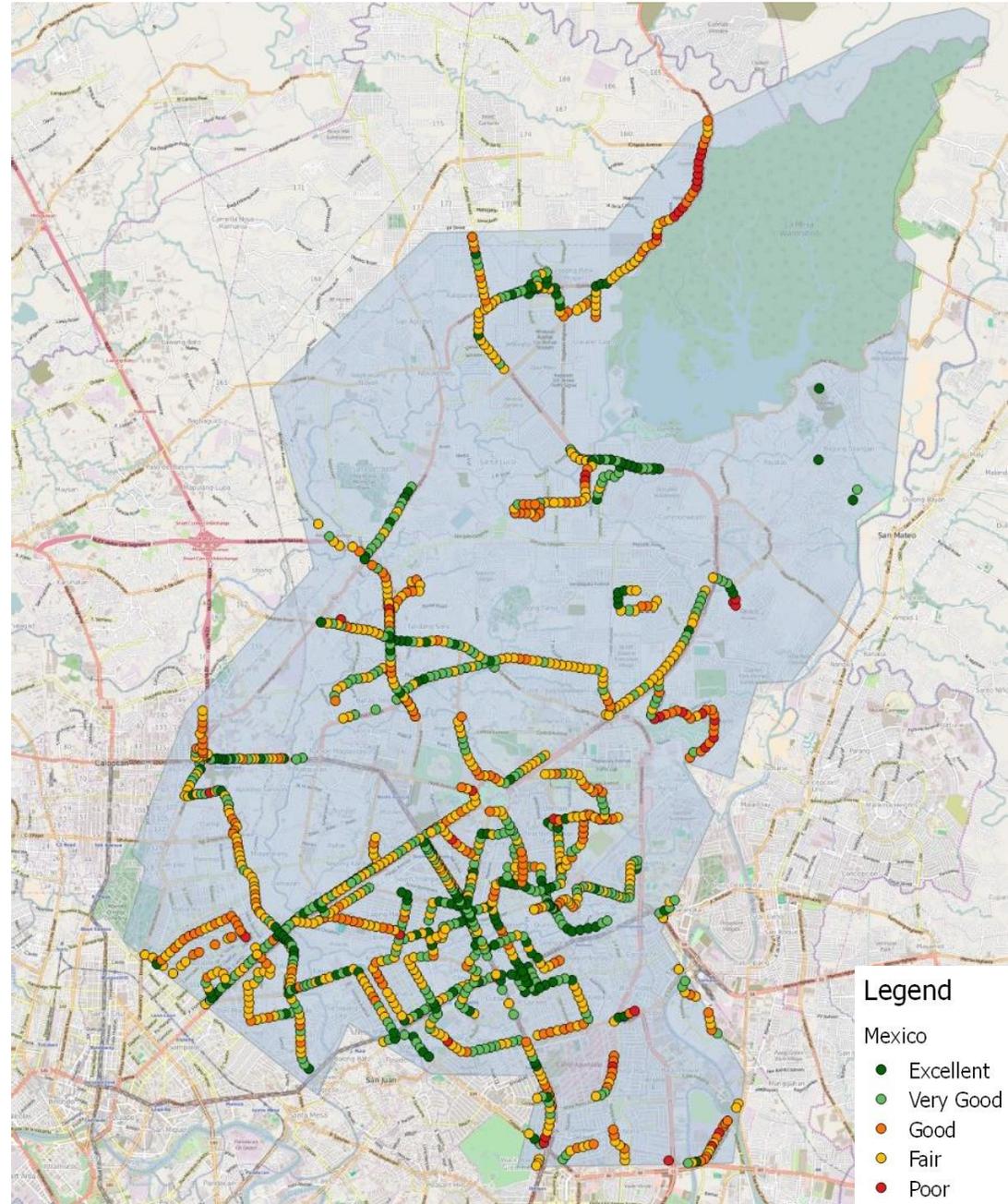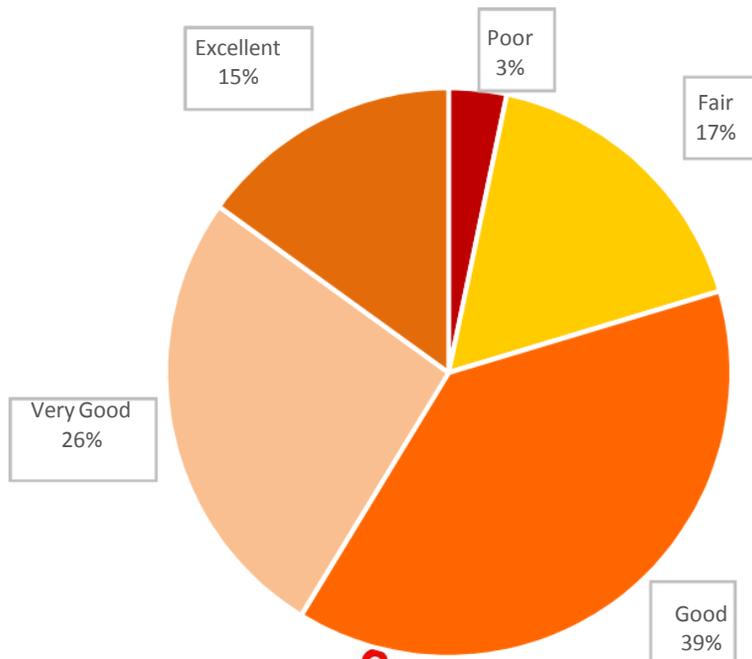
Lighting Data in Quezon City, Philippines

Light(Night)

1.5%

30.8%

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Legend

Quezon City Audit
● Bright Light
● Enough Light
● Some Light
● Poor Light
▨ Quezon City
OpenStreetMap
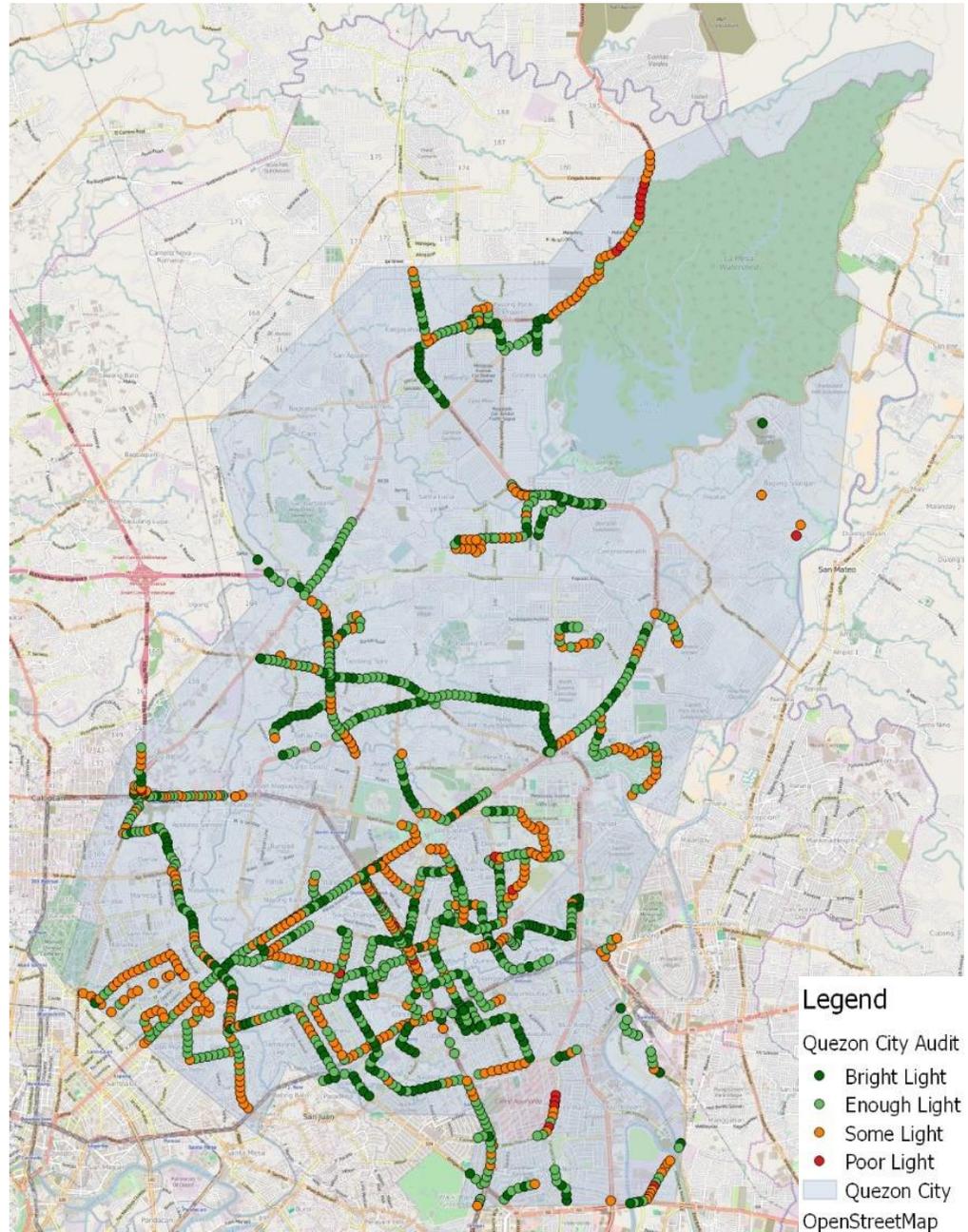
Partnerships

- Working to improve bicycle tracks in the city
- Data feeling into improving lighting
- Specific neighborhood improvements
- Hearing citizen concerns

jakarta smart city

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ADB Youth for Asia Collaboration

- Conducted over 1000 audits in Quezon City.
- 56 youth have been involved – working with youth groups in community and International School
- Safetipin presented at UN Habitat Urban Youth Meeting in Manila.

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Supporters

NAIROBI CITY COUNTY

Thank you!

Kalpana Viswanath,
Safetipin