Using Data to Enhance Women's Mobility in Cities

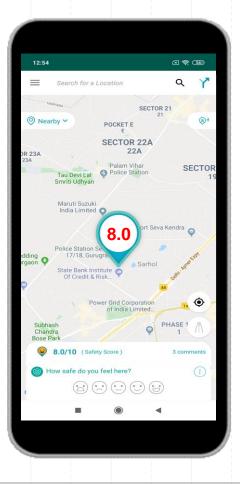
KALPANA VISWANATH, January 2020



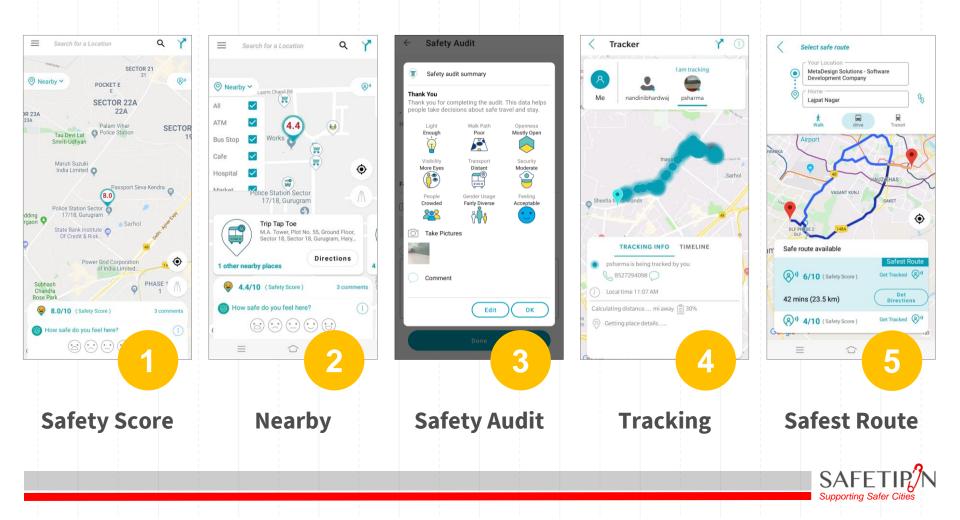
SAFETIPIN

Working towards building a world where everyone can move around without fear, specially women.

We have one app My Safetipin and two technology tools to collect data on urban spaces











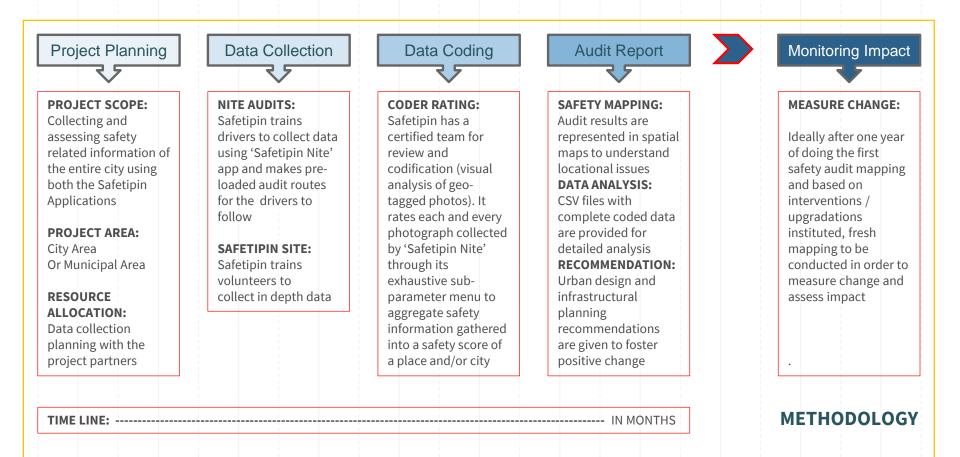
Phone with Safetipin Nite Application is mounted on the windshield of a moving vehicle for capturing night time pictures. Pictures are taken at every 50 metres interval and uploaded to our system. These are then assessed according to the safety audit parameters.



SAFETIPIN SITE

Tool to collect customized data on urban spaces to assess safety, mobility, accessibility









Safetipin's data has been used by

Governments	Upgrading Infrastructure Measuring Change Delivering Safety	•	Delhi Bogota Trivandrum
Researchers	Empirical Database Mapping & Analysis Feminist Tool	•	SPA, New Delhi King's College London UNSW Sydney, IISc Bangal
Women	Empowerment Decision Making Claiming Public Space	•	Safety Audit Crowdsourced Data Khadar Ki Ladkiyan
NGOs, Local Communities	Advocacy Social Initiatives Citizen Rights	•	Social Good Foundations Women Centric Organisat Resident Welfare Associat
Global & Local Agendas	Cities for All by 2030 Inclusive and Safe Cities Citizen Friendly Cities	•	SDG 5, 11, 17 New Urban Agenda Smart City Missions





PARAMETERS Light Walkability Natural surveillance Mobility elements Security

Effecting Change

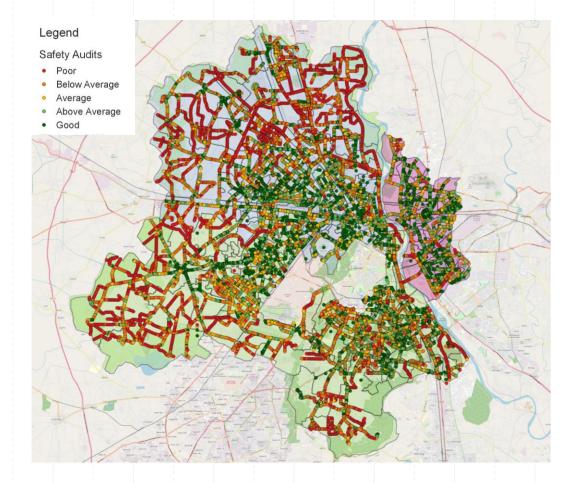
OUTCOMES Improved Lighting Better Sidewalks Improved Last Mile Connectivity (IPT) Bus Stops Bicycle Infrastructure Enhanced Security (Physical + CCTVs)

Walkability Mobility Connectivity Sense of Safety Women's Access to (a) Public Spaces (b) Opportunities (c) Resources

IMPACTS







MAPPING DELHI

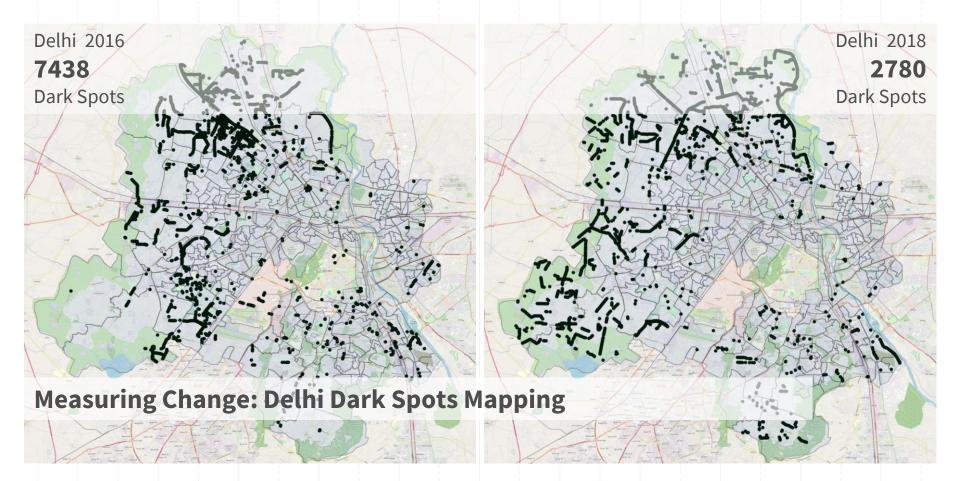
Data Collection was done from **December 2018 – January 2019** between 6 PM – 9 PM

More than 100,000 images collected

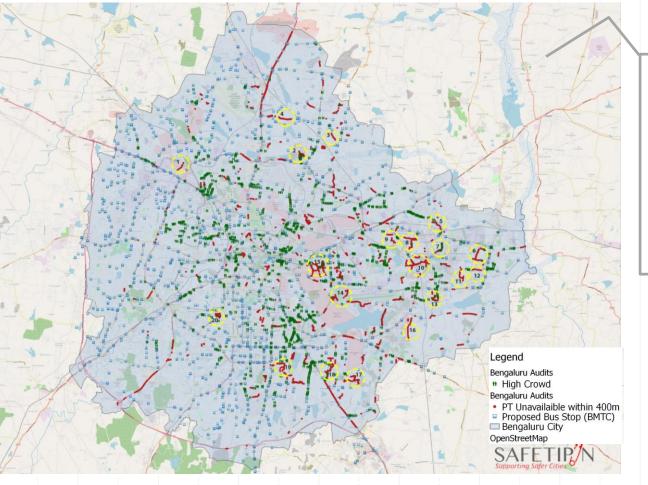
Specific focus on metro stations, bus stops, parks, markets, tourist areas etc











BENGALURU PUBLIC TRANSPORT

Yellow circles highlighting areas having no Public Transport within 400 m radius but high density of pedestrians and people using the street

> SAFETIP?N Supporting Safer Cities



GURGAON, NCR CITY

City falls short on women safety

REALITY CHECK Inadequate police presence, poor lighting and road infrastructure make Gurgaon unsafe for residents

SURGAON: A majority of resi mus test on the safety analysi watten safety most residential se-'poor' or just about 'average'. More than half of the see ferent parameters -- lighting openness, visibility, crowd security, footpaths, trans Interestingly, none of th Phases 1.2 and 3, and Sushan to Safetipin. The major isso

"Security is a major issue affecting almost all residential colordes in Gurgaon. When we talk about security, it cover police as well as private guard and other surveillance meth ods such as CCTV cameras Most of the big localities surveillance or the system i developers should look into the motier as security is a vital **Cybe**

whee founder of SafetiPin. safet Most residential blocks do not have-CCTV cameras at any of their entrances. A couple sector not have CCTV cameras at any of their entrances. A couple basic of guards patrol the streets Pande, at night, which is not enough especially when there are no hubs streetlights on many roads. "There are a lot of dark Galf 4 Secto Edvog stretches in the locality (South City 1) due to no or defunct street lights. Another issue is the absence of mublic trans. has a port. We have to walk a long distance to get out of the local-ity to catch an autorickshaw," and por ROTT said Jagriti Bodi, a resident of develo South City L high, s On the other hand, overcrowding, lack of security and poor last-mile connectiv-Ther The sectors lack basic infra- hubs lack proper lighting and structural such as streetlights. signage, creating inconvensence for those entering and meanwhile, said they will take commissioner and deputy lootpaths and wide roads. "A lot needs to be improved exiting the areas at night. more concrete steps to make missioner of Gurgaon

the second development	rcial hubs in Gurgaon, was rated aver	and the Research second second
er uny, one or me sat comme	coa nuos el ourgade, was raire aver	age when a corres to worker safery.
It erames to the overall of the areas. Very few rs in Corgonn have proper sin Corgonn have proper indights, hotgatables or even a security" said Paillari of Gargaent — MC Baad, a strategie site dominant of Gargaent — MC Baad, a show there out of flow, or 43. Cyber City and a show there out of flow of the constraints, hereis south condeminiums, was everal afflexed, hereis said though the rate of the lowest – 1.6. Offlow- said though the rate of a safety and security have safety and security have a safety and security have	"Thousands of people-same to Golf Current Band every day for work. The place has compared, mainting efficient for us to commute the place and the same state of the same state of the same state for an experiment of the same state and same state there within a short in same state, making it were state and, making it were same and, making it were short of the short of the same short of the short of the same state of the short of the same short of the same short of the short of the same short of the same short of the short of the same short of th	Gurgano usde: "Most of the udity problems are due to lack of proper cities and the black of proper cities and the start of the start of the proper cities when the proper start of the start of the same useful proper start of the same useful proper start of the same useful proper start of the manuference in solar the start manuference in solar the start manuference in solar the start manuference in solar the start manuference in solar start manuference in solar the start manuference in solar t
is inadequate in the area.	Batls, an MNC employee and Dalbi resident	to come up with strategies to marcome all deficiencies

LAGGING B	EHIND
	y Safetipin, a social enterprise, mo was in Gurgaon scored between 0-3
SAFE AREAS: Civil	AREAS RATED AVERAGE DUF Pho

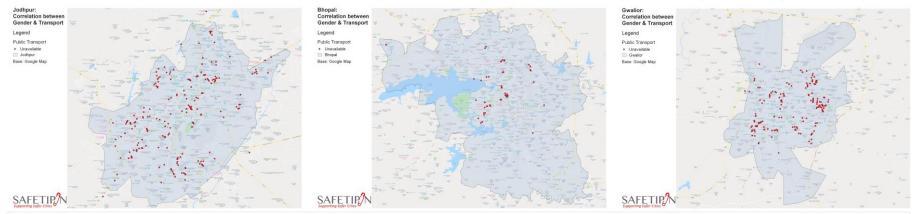
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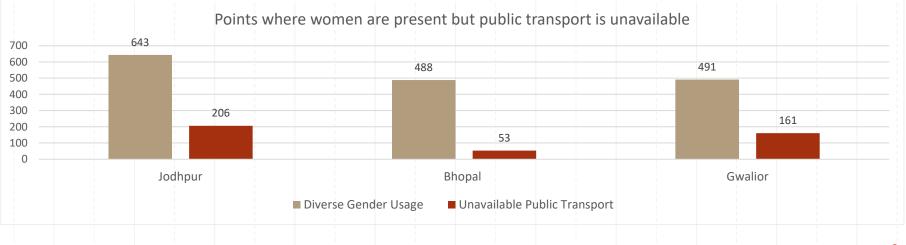
Lines in Old Gurgaon was rated safe with a AREAS KALED AREAGED OF PIECE 1, 2 and 3. Sushant Lak, South City, Sector 15, Sector 17, MG Road, Golf Cause Road and Orber City were rated score of 3.8 on a scale of 5, which is good. The or 5, onice is good, one area has footpaths, and streetlights, which make people feel safe 4,000 Number of police personnel in Gargaon city

LAG

Most of the big localities, including privately developed ones, either do not have CCTV surveillance or the system is defunct. Residents and The police and officials from the administration, Satyaprakash, acting MCG developers should look into the issue. OR KEIPENE VISHMENETH Fronter of Coloride







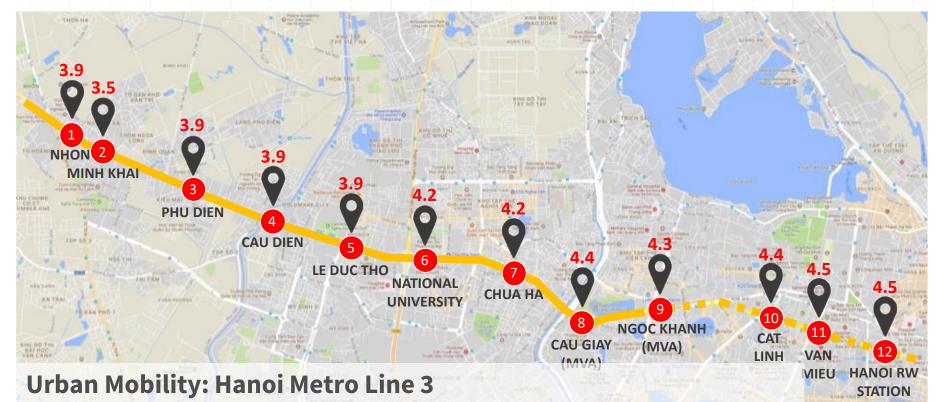
SAFETIR/N Supporting Safer Cities



BOGOTA CITY

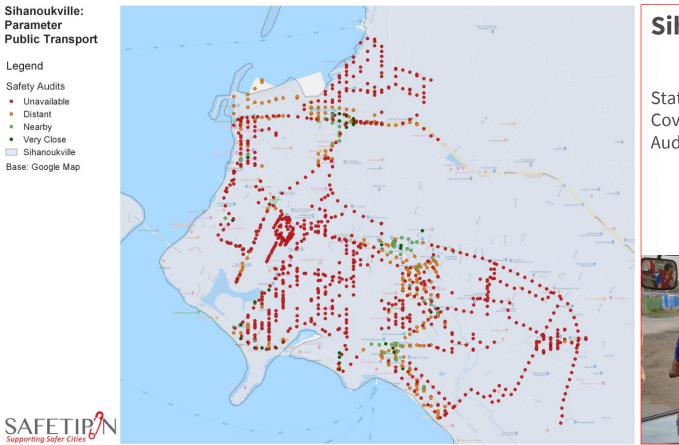
Auditing Bike Tracks





Focus on Last Mile Connectivity to improve access for women and girls



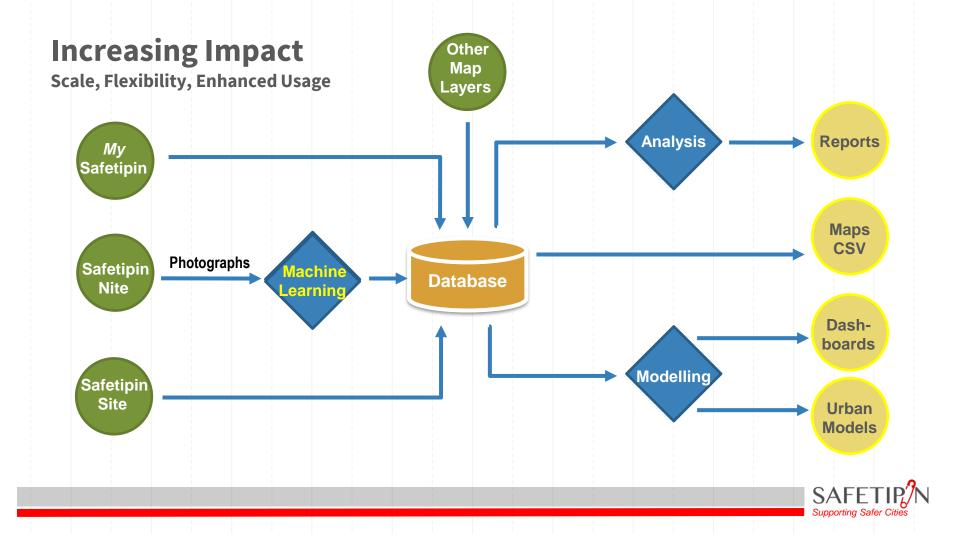


Sihanoukville

Status: Completed (2019) Covered: 50 Km Audit Pins: 1170







THANK YOU!



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